Oracle Primavera P6 EPPM Web Services Reference Guide

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Cloud or On-Premises Content

Within our documentation, some content might be specific for cloud deployments while other content is relevant for on-premises deployments. Any content that applies to only one of these deployments is labeled accordingly.

About Personal Information

Personal information (PI) is any piece of data which can be used on its own or with other information to identify, contact or locate an individual or identify an individual in context. This information is not limited to a person's name, address, and contact details, for example a person's IP address, phone IMEI number, gender, and location at a particular time could all be personal information. Organizations are responsible for ensuring the privacy of PI wherever it is stored, including in back-ups, locally stored downloads, and data stored in development environments.

Caution: Personal information (PI) may be at risk of exposure. Depending on local data protection laws organizations may be responsible for mitigating any risk of exposure.

What's New In P6 EPPM Web Services

What's Changed	I in this Release
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The following changes have been made for this release.

Release	What's New
21.12	New fields have been added to the Document, ProjectIssue, and UserInterfaceView WSDLs.
	New Business Objects have been added to Export.WSDL
	See <i>Interface Change Details</i> (on page 29) for more information.
21.11	New fields have been added to the ActivityFilter and ProjectResource WSDLs.
	New Business Objects have been added to Export.WSDL
	See <i>Interface Change Details</i> (on page 29) for more information.

21.10	New fields have been added to the Activity, ActivityPeriodActual, ResourceAssignment, and ResourceAssignmentPeriodActual WSDLs. New Business Objects have been added to Export.WSDL See <i>Interface Change Details</i> (on page 29) for more information.
21.9	New fields have been added to the BaselineProject and Project WSDLs. New Business Objects have been added to Export.WSDL
	and Import.WSDL. See <i>Interface Change Details</i> (on page 29) for more information.
21.8	New fields have been added to the Activity, BaselineProject, Project, and UpdateBaselineOption WSDLs.
	New Business Objects have been added to Export.WSDL
	See <i>Interface Change Details</i> (on page 29) for more information.
21.7	New fields have been added to the ResourceAssignment WSDL.
	New Business Objects have been added to Export.WSDL and Import.WSDL.
	See <i>Interface Change Details</i> (on page 29) for more information.
21.6	A new operation has been added to User.wsdl
	See <i>Interface Change Details</i> (on page 29) for more information.
21.5	A new field has been added to the Project field list of Business Object Options.
	New fields have been added to GlobalPreferences Fields and Project Fields.
	A new ProjectSpecific element has been added to operations of Import.wsdl.
	A new service, WbsReviewers, has been added.
	See <i>Interface Change Details</i> (on page 29) for more information.

21.4	A new operation has been added to Export.wsdl.
	New fields have been added to AcivityCode Fields, ProjectDocument Fields, ResorceAssignment Fields, and ResourceCode Fields.
	New fields have been added to the ActivityCode field list, ProjectDocument field list, ResourceAssignment field list, and ResourceCode field list of Business Object Options.
	New elements have been added to the an operation in SyncV1.wsdl.
	See <i>Interface Change Details</i> (on page 29) for more information.
21.3	New fields have been added to BaselineProject Fields, Project Fields, ProjectDocument Fields, ProjectFunding Fields, and Risk Fields.
	New fields have been added to the Project field list, ProjectDocumentField field list, ProjectFunding field list, and Risk field list of Business Object Options.
	A new ennumeration has been added to a field in JobService Fields.
	See <i>Interface Change Details</i> (on page 29) for more information.
21.2	New fields have been added to GlobalPreferences Fields and User Fields.
	See <i>Interface Change Details</i> (on page 29) for more information.

Interface Change Details

The following table provides an overview of updated field lengths, updated values, new fields, and new enumerations.

WSDL	Field Level Changes	Release
Document.WSDL	The following field has been added to the Document Fields list: DocumentStatusName 	21.12
Export.WSDL	The following field has been added to the Documentfields list in BusinessObjectOptions Element: DocumentStatusName	21.12

ProjectIssue.WSDL	The following field has been added to the ProjectIssue Fields list: ParentWBSObjectId	21.12
UserInterfaceView.WSDL	The following field has been added to the UserInterfaceView Fields list:	21.12
	 StatusUpdatesApproval 	
ActivityFilter.WSDL	The following field has been added to the ActivityFilter Fields list: FilterGroup	21.11
Export.WSDL	The following field has been added to the ProjectResource fields list in BusinessObjectOptions Element: TotalUnits	21.11
ProjectResource.WSDL	The following field has been added to the ProjectResource Fields list: TotalUnits	21.11
Activity.WSDL	The following fields have been added to the Activity Fields list:TotalPastPeriodEarnedValueCostBCWPTotalPastPeriodEarnedValueLaborUnitsTotalPastPeriodExpenseCostTotalPastPeriodLaborCostTotalPastPeriodLaborUnitsTotalPastPeriodLaborUnitsTotalPastPeriodLaborUnitsTotalPastPeriodLaborUnitsTotalPastPeriodNaterialCostTotalPastPeriodNonLaborCostTotalPastPeriodNonLaborCostTotalPastPeriodPlannedValueCostTotalPastPeriodPlannedValueCostTotalPastPeriodPlannedValueLaborUnits	21.10
ActivityPeriodActual.WSDL	The following field has been added to the ActivityPeriodActual Fields list:FinancialPeriodTemplateId	21.10

Export.WSDL	 The following fields have been added to the Activity fields list in BusinessObjectOptions Element: TotalPastPeriodEarnedValueCostBCWP TotalPastPeriodEarnedValueLaborUnits TotalPastPeriodExpenseCost TotalPastPeriodLaborCost TotalPastPeriodMaterialCost TotalPastPeriodNonLaborCost TotalPastPeriodPlannedValueCost TotalPastPeriodPlannedValueCost TotalPastPeriodPlannedValueLaborUnits TotalPastPeriodPlannedValueLaborUnits TotalPastPeriodPlannedValueCost TotalPastPeriodPlannedValueCost TotalPastPeriodPlannedValueLaborUnits 	21.10
ResourceAssignment.WSDL	 The following fields have been added to the ResourceAssignment Fields list: TotalPastPeriodCost TotalPastPeriodUnits 	21.10
ResourceAssignmentPeriodA ctual.WSDL	The following field has been added to the ResourceAssignmentPeriodActual Fields list:FinancialPeriodTemplateId	21.10
BaselineProject.WSDL	The following field has been added to the BaselineProject Fields list: ResourcesCanStaffRoleAssignment 	21.9
Export.WSDL	The following fields have been added to the Project fields list in BusinessObjectOptions Element: PricePerUnit ResourcesCanStaffRoleAssignment TeamMemberAssignmentProficiencyFlag UnitPerTimeOvertimeFactor 	21.9
Import.WSDL	The following field has been added to the Global section of BusinessObjectOptions of the CreateNewProject, ImportProjectAsyncASAP, ImportProject, and UpdateExistingProject operations. CalendarRsrc	21.9

Project.WSDL	The following fields have been added to the Project Fields list: PricePerUnit	21.9
	 ResourcesCanStaffRoleAssignment TeamMemberAssignmentProficiencyFlag UnitPerTimeOvertimeFactor 	

Activity.WSDL	The following fields have been added to the Activity Fields list:	21.8
	 Baseline2Duration 	
	 Baseline2FinishDate 	
	 Baseline2PlannedDuration 	
	 Baseline2PlannedExpenseCost 	
	 Baseline2PlannedLaborCost 	
	 Baseline2PlannedLaborUnits 	
	 Baseline2PlannedMaterialCost 	
	 Baseline2PlannedNonLaborCost 	
	 Baseline2PlannedNonLaborUnits 	
	 Baseline2PlannedTotalCost 	
	 Baseline2StartDate 	
	 Baseline3Duration 	
	 Baseline3FinishDate 	
	 Baseline3PlannedDuration 	
	 Baseline3PlannedExpenseCost 	
	 Baseline3PlannedLaborCost 	
	 Baseline3PlannedLaborUnits 	
	 Baseline3PlannedMaterialCost 	
	 Baseline3PlannedNonLaborCost 	
	 Baseline3PlannedNonLaborUnits 	
	 Baseline3PlannedTotalCost 	
	 Baseline3StartDate 	
	 Duration2Variance 	
	 Duration2 variance Duration3Variance 	
	 ExpenseCost3Variance FinishDate2Variance 	
	 FinishDate3Variance LaborCost2Variance 	
	 LaborCost2Variance LaborCost3Variance 	
	LaborUnits2Variance	
	LaborUnits3Variance MaterialCoat2Variance	
	MaterialCost2Variance	
	MaterialCost3Variance	
	NonLaborCost2Variance NonLaborCost2Variance	
	NonLaborCost3Variance NonLaborListe2)/crianes	
	NonLaborUnits2Variance NonLaborUnits2)/ariance	
	NonLaborUnits3Variance	
	StartDate2Variance	
	StartDate3Variance	
	TotalCost2Variance	
	TotalCost3Variance	

BaselineProject.WSDL	The following fields have been added to the BaselineProject Fields list:	21.8
	IntegratedWBSWBSCategoryObjectId	

			-
Export.WSDL	The following fields have been added to the Activity fields list in BusinessObjectOptions	21.8	
	Element:		
	Baseline2Duration		
	Baseline2FinishDate		
	Baseline2PlannedDuration		
	Baseline2PlannedExpenseCost		
	Baseline2PlannedLaborCost		
	Baseline2PlannedLaborUnits		
	Baseline2PlannedMaterialCost		
	Baseline2PlannedNonLaborCost		
	Baseline2PlannedNonLaborUnits		
	Baseline2PlannedTotalCost		
	Baseline2StartDate		
	Baseline3Duration		
	Baseline3FinishDate		
	Baseline3PlannedDuration		
	Baseline3PlannedExpenseCost		
	Baseline3PlannedLaborCost		
	Baseline3PlannedLaborUnits		
	Baseline3PlannedMaterialCost		
	Baseline3PlannedNonLaborCost		
	Baseline3PlannedNonLaborUnits		
	Baseline3PlannedTotalCost		
	Baseline3StartDate		
	Duration2Variance		
	Duration3Variance		
	ExpenseCost2Variance		
	ExpenseCost3Variance		
	FinishDate2Variance		
	FinishDate3Variance		
	LaborCost2Variance		
	LaborCost3Variance		
	LaborUnits2Variance		
	LaborUnits3Variance		
	MaterialCost2Variance		
	MaterialCost3Variance		
	NonLaborCost2Variance		
	NonLaborCost3Variance		
	NonLaborUnits2Variance		
	NonLaborUnits3Variance		
	 StartDate2Variance 		
	 StartDate3Variance 		
	TotalCost2Variance		
	TotalCost3Variance		
	The following fields have been added to the		
	Project fields list in BusinessObjectOptions Element:		35
1			1

Project.WSDL	 The following fields have been added to the Project Fields list: IntegratedWBS WBSCategoryObjectId 	21.8
UpdateBaselineOption.WSDL	 The following fields have been added to the UpdateBaselineOption Fields list: ActivitiesFilterResourceId ActivitiesFilterRoleId ActivitiesFinishingWithinDays ActivitiesOccurringWithinDays 	21.8
Export.WSDL	 The following field has been added to the ResourceAssignment fields list in BusinessObjectOptions Element. ResourceAssignmentFieldType 	21.7
Import.WSDL	 The following field has been added to the Global section of BusinessObjectOptions of the CreateNewProject, ImportProjectAsyncASAP, ImportProject, and UpdateExistingProject operations. ActivityCodeTypeEPS 	21.7
ResourceAssignment.WSDL	The following field has been added to ResourceAssignment Fields list: AssignmentPercentComplete	21.7
User.wsdl	A new operation, ResetUserPreferences, has been added.	21.6
Export.wsdl	The following field has been added to the Project fields list in BusinessObjectOptions Element. ReviewType	21.5
GlobalPreferences.wsdl	The following field has been added to GlobalPreferences Fields list: AllowApprovedTSRejection	21.5
Import.wsdl	 A new item, ExtRelationship, has been added to the ProjectSpecific list of the BusinessObjectOptions field of the following operations: CreateNewProject ImportProjectAsyncASAP ImportProjects UpdateExistingProject 	21.5

Project.wsdl	The following field has been added to the Project Fields list:	21.5
	ReviewType	
WbsReviewers.wsdl	A new service has been added.	21.5
ActivityCode.wsdl	The following field has been added to the ActivityCode Fields list: CodeConcatName	21.4
Export.wsdl	 The following field has been added to the ActivityCode fields list in BusinessObjectOptions Element. CodeConcatName The following field has been added to the ProjectDocument fields list in BusinessObjectOptions Element. ParentWBSObjectId The following fields have been added to the ResourceAssignment fields list in BusinessObjectOptions Element. BudgetAtCompletionCosts BudgetAtCompletionUnits DurationPercentComplete EstimateToCompletionUnits PercentComplete PercentComplete PercentComplete CodeConcatName A new operation, ExportIpmdarProject, has been added. 	21.4
ProjectDocument.wsdl	The following field has been added to the ProjectDocument Fields list: ParentWBSObjectId	21.4

ResourceAssignment.wsdl	The following fields have been added to the ResourceAssignment Fields list: BudgetAtCompletionCosts BudgetAtCompletionUnits DurationPercentComplete EstimateToCompletionCosts EstimateToCompletionUnits PercentComplete PercentComplete	21.4
ResourceCode.wsdl	The following field has been added to the ResourceCode Fields list:CodeConcatName	21.4
SyncV1.wsdl	 The following elements have been added to the ResolveProjects Operation. UpdatedSinceObjects UpdatedSince 	21.4
BaselineProject.wsdl	The following field has been added to the BaselineProject Fields list:ResourceName	21.3
Export.wsdl	 The following field has been added to the Project fields list in BusinessObjectOptions Element. ResourceName The following fields have been added to the ProjectDocumentField fields list in BusinessObjectOptions Element. DocumentCategoryName DocumentStatusName The following field has been added to the ProjectFunding fields list in BusinessObjectOptions Element. FundingSourceName The following fields have been added to the Risk fields list in BusinessObjectOptions Element. FundingSourceName The following fields have been added to the Risk fields list in BusinessObjectOptions Element. FundingSourceName The following fields have been added to the Risk fields list in BusinessObjectOptions Element. CostThresholdId ImpactThresholdId ScheduleThresholdId 	21.3
JobServices.wsdl	The enumeration Preview Update Baseline Service has been added to the JobType field in JobService Fields.	21.3

Project.wsdl	The following field has been added to the Project Fields list: ResourceName 	21.3
ProjectDocument.wsdl	 The following fields have been added to the Project Fields list: DocumentCategoryName DocumentStatusName 	21.3
ProjectFunding.wsdl	The following field has been added to the ProjectFunding Fields list: FundingSourceName	21.3
Risk.wsdl	 The following fields have been added to the Risk Fields list: CostThresholdId ImpactThresholdValues ProbabilityThresholdId ScheduleThresholdId 	21.3
GlobalPreferences.wsdl	 The following fields have been added to the GlobalPreferences Fields list: EnableWhatsNewDialog VersionForWhatsNew 	21.2
User.wsdl	The following field has been added to the UserFields list:DoNotShowNewFeaturesAgain	21.2

Activity Services

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Activity Service

Operations:

CreateActivities Operation (on page 42) ReadActivities Operation (on page 42) UpdateActivities Operation (on page 43) DeleteActivities Operation (on page 43) CopyActivity Operation (on page 44) ReadAllActivitiesByWBS Operation (on page 45) GetFieldLengthActivity Operation (on page 44) DissolveActivity Operation (on page 45)

WSDL: Activity.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/Activity/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/ActivityService?wsdl https://<hostname>:<port number>/p6ws/services/ActivityService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.activity.ActivityService

Description:

The Activity service enables you to manage aspects of a project related to an activity. An activity is a unit of work performed during the course of a project. Activities have the following characteristics:

- They can be subdivided into activity steps
- > They often have activity expenses and resource assignments associated with them
- They have a parent WBS (Note: Activities assigned to the root WBS are considered to be assigned to the project itself.)
- They can have user defined fields (UDFs) and codes assigned to them. To assign UDFs and activity codes to an activity, use the UDFValue and ActivityCodeAssignment services, respectively.

CreateActivities Operation

Description: Creates multiple Activity objects in the database. You can create up to 1000 Activity objects with a single call.

Service: Activity Service (on page 41)

Style: Document/literal wrapped

Input:

Message: CreateActivities

Elements: Activity elements that contain Activity Fields (on page 46) fields

Required fields: You must supply either the ProjectObjectId or the WBSObjectId field when you use the CreateActivities operation. All other fields are optional.

Output:

Message: CreateActivitiesResponse Output: Zero to many ObjectId elements

ReadActivities Operation

Description: Reads Activity objects from the database.

Service: Activity Service (on page 41)

Style: Document/literal wrapped

Input:

Message: ReadActivities

Elements: One to many field names from the *Activity Fields* (on page 46) field list You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadActivitiesResponse

Output: Zero to many Activity elements that contain Activity fields.

UpdateActivities Operation

Description: Updates multiple Activity objects in the database. You can update up to 1000 Activity objects with a single call.

Service: Activity Service (on page 41)

Style: Document/literal wrapped

Input:

Message: UpdateActivities

Elements: Activity elements that contain Activity Fields (on page 46) fields.

Required fields: The ObjectId must be specified.

Output:

Message: UpdateActivitiesResponse Output: boolean

DeleteActivities Operation

Description: Deletes multiple Activity objects in the database. You can delete up to 1000 Activity objects with a single call.

Service: Activity Service (on page 41)

Style: Document/literal wrapped

Input:

Message: DeleteActivities Elements: One to many ObjectId elements

Output:

Message: DeleteActivitiesResponse Output: boolean

GetFieldLengthActivity Operation

Description: Returns length of variable character fields for a BO.

Service: Activity Service (on page 41)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthActivity Elements: FieldLength

Output:

Message: GetFieldLengthActivityResponse Elements: One to many FieldLengthActivities.

CopyActivity Operation

Description: This operation copies the activity to a project or a WBS. The WBS can be in the current project or in a different project. If both the project ObjectId and the WBS ObjectId are specified, the WBS ObjectId will take precedence.

Service: Activity Service (on page 41)

Style: Document/literal wrapped

Input:

Message: CopyActivity Elements:

- ObjectId
- TargetProjectObjectId
- TargetWBSObjectId
- TargetActivityId
- CopyResourceAndRoleAssignments
- CopyRelationships
- CopyActivityCodes
- CopyActivityNotes
- CopyActivityExpenses
- CopyActivitySteps
- CopyProjectDocuments
- CopyPastPeriodActuals

Required fields You must supply the ObjectId and at least one of the following fields when you use the CopyActivity operation:

- TargetProjectObjectId
- TargetWBSObjectId

All other fields are optional.

Output:

Message: CopyActivityResponse Elements: An ObjectId representing the unique identifier of the new activity.

ReadAllActivitiesByWBS Operation

Description: Reads Activity objects that are associated with the specified WBS or any descendant WBS from the database.

Service: Activity Service (on page 41)

Style: Document/literal wrapped

Input:

Message: ReadAllActivitiesByWBS

Elements:

- One WBSObjectId element
- One to many field names from the *Activity Fields* (on page 46) field list

You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadAllActivitiesByWBSResponse Output: Zero to many Activity elements that contain *Activity Fields* (on page 46) fields.

DissolveActivity Operation

Description: Deletes the activity without breaking the relationship chains. The successors of the activity will become successors of its predecessors, and the predecessors of the activity will become predecessors of its successors.

Service: Activity Service (on page 41)

Style: Document/literal wrapped

Input:

Message: DissolveActivity Elements:

ObjectId

Output:

Message: DissolveActivityResponse Elements: boolean.

Activity Fields

Field	Туре	Read Only	Filterab le Ordera ble	Description
AccountingVariance	double	x		The difference between the planned value of work scheduled and the actual cost of work performed. Computed as accounting variance = planned value - actual cost . A negative value indicates that actual costs have exceeded the scheduled costs.
AccountingVariance LaborUnits	double	x		The difference between the planned value of work scheduled and the actual work performed. Computed as accounting variance labor units = planned value labor units - actual units. A negative value indicates that actual costs have exceeded the scheduled costs.
ActivityOwnerUserI d	int	х	х	The unique user ID of the activity owner.
ActualDuration	double restricted to minInclusiv e(0.0)			The total working time from the activity actual start date to the actual finish date (for completed activities), or to the current data date (for in-progress activities). The actual working time is computed using the activity's calendar.
ActualExpenseCost	double	x		The actual costs for all project expenses associated with the activity.
ActualFinishDate	dateTime		х	The date on which the activity is actually finished.
ActualLaborCost	double			The actual costs for all labor resources assigned to the activity. If no resources are assigned,

				computed as the activity actual labor units * project default price / time.
ActualLaborUnits	double		x	The actual units for all labor resources assigned to the activity.
ActualMaterialCost	double	x		The sum of all regular and overtime costs for material resources.
ActualNonLaborCos t	double			The actual costs for all nonlabor resources assigned to the activity. If no resources are assigned, computed as the activity actual nonlabor units * project default price / time.
ActualNonLaborUnit s	double		x	The actual units for all nonlabor resources assigned to the activity.
ActualStartDate	dateTime		x	The date on which the activity is actually started.
ActualThisPeriodLa borCost	double			The actual this period labor cost for all labor resources assigned to the activity.
ActualThisPeriodLa borUnits	double		x	The actual this period labor units (hours) for all labor resources assigned to the activity.
ActualThisPeriodMa terialCost	double	x		The sum of all material resource costs for the current period.
ActualThisPeriodNo nLaborCost	double			The actual this period nonlabor cost for all nonlabor resources assigned to the activity. If no resources are assigned, computed as the activity actual nonlabor units * project default price / time.
ActualThisPeriodNo nLaborUnits	double		х	The actual this period nonlabor units (hours) for all nonlabor resources assigned to the activity.

ActualTotalCost	double	x		The actual total cost for the activity, including labor resources, nonlabor resources, and project expenses. Actual total cost = actual labor costs + actual nonlabor costs + actual expense costs.
ActualTotalUnits	double	x		the sum of Actual Labor Units and Actual Nonlabor Units.
AtCompletionDurati on	double restricted to minInclusiv e(0.0)			The total working time from the activity's current start date to the current finish date. The current start date is the planned start date until the activity is started, then it is the actual start date. The current finish date is the activity planned finish date while the activity is not started, the remaining finish date while the activity is in progress, and the actual finish date once the activity is completed. The total working time is computed using the activity's calendar.
AtCompletionExpen seCost	double	x		The sum of the actual plus remaining costs for all expenses associated with the activity. Computed as actual expense cost + remaining expense cost.
AtCompletionLabor Cost	double			The sum of the actual plus remaining costs for all labor resources assigned to the activity. Computed as actual labor cost + remaining labor cost. Same as the planned labor costs if the activity is not started and the actual labor costs once the activity is completed.
AtCompletionLabor Units	double		x	The sum of the actual plus remaining units for all labor resources assigned to the activity. Computed as actual labor units + remaining labor units. Same as the planned labor units if the activity is not started and the

				actual labor units once the activity is completed.
AtCompletionLabor UnitsVariance	double	x		The project baseline planned total labor units minus the estimate at completion labor units.
AtCompletionMateri alCost	double	x		The sum of all actual and remaining costs for material resources.
AtCompletionNonLa borCost	double			The sum of the actual plus remaining costs for all nonlabor resources assigned to the activity. Computed as actual nonlabor cost + remaining nonlabor cost. Same as the planned nonlabor costs if the activity is not started and the actual nonlabor costs once the activity is completed.
AtCompletionNonLa borUnits	double		x	The sum of the actual plus remaining units for all nonlabor resources assigned to the activity. Computed as actual nonlabor units + remaining nonlabor units. Same as the planned nonlabor units if the activity is not started and the actual nonlabor units once the activity is completed.
AtCompletionTotalC ost	double	x		The total cost at completion for the activity, including labor resources, nonlabor resources, and project expenses. At completion total cost = at completion labor cost + at completion nonlabor cost + at completion expense cost.
AtCompletionTotalU nits	double	x		The sum of the actual plus remaining units for the resource assignment on the activity.
AtCompletionVarian ce	double	x		The difference between the project baseline total cost and the current estimate of total cost. Computed as VAC = BAC - EAC. A negative value indicates an estimated cost overrun. BAC is

				computed from the current project baseline.
AutoComputeActual s	boolean		x	The option that determines whether the activity's actual and remaining units, start date, finish date, and percent complete are computed automatically using the planned dates, planned units and the schedule percent complete. If this option is selected, the actual/remaining units and actual dates are automatically updated when project actuals are applied. Use this option to assume that all work for the activity proceeds according to plan.
Baseline1Duration	double	x		The duration for the activity in the primary baseline. The duration is the total working time from the activity current start date to the current finish date. Same as the actual duration plus the remaining duration. The total working time is computed using the activity's calendar.
Baseline1FinishDat e	dateTime	x		The current finish date of the activity in the primary baseline. Set to the activity planned finish date while the activity is not started, the remaining finish date while the activity is in progress, and the actual finish date once the activity is completed.
Baseline1PlannedD uration	double	x		The planned duration for the activity in the primary baseline. Planned duration is the total working time from the activity current start date to the current finish date. Same as the actual duration plus the remaining duration. The total working time is computed using the activity's calendar. This field is named Baseline 1 Budgeted Duration in Primavera's Engineering & Construction and Maintenance &

			Turnaround solutions.
Baseline1PlannedE xpenseCost	double	x	The planned costs for all project expenses associated with the activity. This field is named Baseline 1 Budgeted Expense Cost in Primavera's Engineering & Construction and Maintenance & Turnaround solutions.
Baseline1PlannedL aborCost	double	x	The cost at completion for all labor resources assigned to the activity in the primary baseline. Computed from the primary baseline at completion labor units. If no resources are assigned, computed as the activity BL labor units * project default price / time. This field is named Baseline 1 Budgeted Labor Cost in Primavera's Engineering & Construction and Maintenance & Turnaround solutions.
Baseline1PlannedL aborUnits	double	x	The planned units for all labor resources assigned to the activity. This field is named Baseline 1 Budgeted Labor Units in Primavera's Engineering & Construction and Maintenance & Turnaround solutions.
Baseline1PlannedM aterialCost	double	х	The Planned Material Cost for a primary baseline activity.
Baseline1PlannedN onLaborCost	double	x	The planned costs for all nonlabor resources assigned to the activity. If no resources are assigned, computed as the activity planned nonlabor units * project default price / time. This field is named Baseline 1 Budgeted Non Labor Cost in Primavera's Engineering & Construction and Maintenance & Turnaround solutions.
Baseline1PlannedN onLaborUnits	double	x	The planned units for all nonlabor resources assigned to the activity.

			This field is named Baseline 1 Budgeted Non Labor Units in Primavera's Engineering & Construction and Maintenance & Turnaround solutions.
Baseline1PlannedT otalCost	double	x	The planned total cost for the activity, including labor resources, nonlabor resources, and project expenses. Planned total cost = planned labor cost + planned nonlabor cost + planned expense cost. This field is named Baseline 1 Budgeted Total Cost in Primavera's Engineering & Construction and Maintenance & Turnaround solutions.
Baseline1StartDate	dateTime	x	The current start date of the activity in the primary baseline. Set to the planned start date until the activity is started, then set to the actual start date.
BaselineDuration	double	x	The duration for the activity in the project baseline. The duration is the total working time from the activity current start date to the current finish date. Same as the actual duration plus the remaining duration. The total working time is computed using the activity's calendar.
BaselineFinishDate	dateTime	x	The current finish date of the activity in the project baseline. Set to the activity planned finish date while the activity is not started, the remaining finish date while the activity is in progress, and the actual finish date once the activity is completed.
BaselinePlannedDu ration	double	x	The planned duration for the activity in the project baseline. Planned duration is the total working time from the activity current start date to the current finish date. Same as the actual duration plus the remaining duration. The total working time is

			computed using the activity's calendar. This field is named Baseline Budgeted Duration in Primavera's Engineering & Construction and Maintenance & Turnaround solutions.
BaselinePlannedEx penseCost	double	x	The planned costs for all project expenses associated with the activity. This field is named Baseline Budgeted Expense Cost in Primavera's Engineering & Construction and Maintenance & Turnaround solutions.
BaselinePlannedLa borCost	double	x	The cost at completion for all labor resources assigned to the activity in the project baseline. Computed from the baseline at completion labor units. If no resources are assigned, computed as the activity BL labor units * project default price / time. This field is named Baseline Budgeted Labor Cost in Primavera's Engineering & Construction and Maintenance & Turnaround solutions.
BaselinePlannedLa borUnits	double	x	The planned units for all labor resources assigned to the activity. This field is named Baseline Budgeted Labor Units in Primavera's Engineering & Construction and Maintenance & Turnaround solutions.
BaselinePlannedMa terialCost	double	x	The Planned Material Cost for a project baseline activity.
BaselinePlannedNo nLaborCost	double	x	The planned costs for all nonlabor resources assigned to the activity. If no resources are assigned, computed as the activity planned nonlabor units * project default price / time. This field is named Baseline Budgeted Non Labor Cost in Primavera's Engineering & Construction and Maintenance & Turnaround solutions.

BaselinePlannedNo nLaborUnits	double	X	The planned units for all nonlabor resources assigned to the The planned duration for the activity in the project baseline. Planned duration is the total working time from the activity current start date to the current finish date. Same as the actual duration plus the remaining duration. The total working time is computed using the activity's calendar. This field is named Baseline Budgeted Duration in Primavera's Engineering & Construction and Maintenance & Turnaround solutions.activity. This field is named Baseline Budgeted Non Labor Units in Primavera's Engineering & Construction and Maintenance & Turnaround solutions.
BaselinePlannedTot alCost	double	x	The planned total cost for the activity, including labor resources, nonlabor resources, and project expenses. Planned total cost = planned labor cost + planned nonlabor cost + planned expense cost. This field is named Baseline Budgeted Total Cost in Primavera's Engineering & The planned costs for all project expenses associated with the activity. This field is named Baseline Budgeted Expense Cost in Primavera's Engineering & Construction and Maintenance & Turnaround solutions.Construction and Maintenance & Turnaround solutions.
BaselineStartDate	dateTime	x	The current start date of the activity in the project baseline. Set to the planned start date until the activity is started, then set to the actual start date.
Baseline2Duration	double	x	The duration for the activity in the user's secondary baseline. The duration is the total working time

			from the activity current start date to the current finish date. Same as the actual duration plus the remaining duration. The total working time is computed using the activity's calendar.
Baseline2FinishDat e	dateTime	x	The planned units for all labor resources assigned to the activity. This field is named Baseline Budgeted Labor Units in Primavera's Engineering & Construction and Maintenance & Turnaround solutions. The current finish date of the activity in the user's secondary baseline. Set to the activity planned finish date while the activity is not started, the remaining finish date while the activity is in progress, and the actual finish date once the activity is completed.
Baseline2PlannedD uration	double	x	The planned duration for the activity in the user's secondary baseline. Planned duration is the total working time from the activity current start date to the current finish date. Same as the actual duration plus the remaining duration. The total working time is computed using the activity's calendar. This field is named Baseline Budgeted Duration in Primavera's Engineering & Construction and Maintenance & Turnaround solutions.
Baseline2PlannedE xpenseCost	double	x	The planned costs for all project expenses associated with the activity in the user's secondary baseline. This field is named Baseline Budgeted Expense Cost in Primavera's Engineering & Construction and Maintenance & Turnaround solutions.

Baseline2PlannedL aborCost	double	x	The planned costs for all project expenses associated with the activity in the user's secondary baseline. This field is named Baseline Budgeted Expense Cost in Primavera's Engineering & Construction and Maintenance & Turnaround solutions.
Baseline2PlannedL aborUnits	double	x	The planned units for all labor resources assigned to the activity in the user's secondary baseline. This field is named Baseline Budgeted Labor Units in Primavera's Engineering & Construction and Maintenance & Turnaround solutions.
Baseline2PlannedM aterialCost	double	х	The Planned Material Cost for the activity in the user's secondary baseline.
Baseline2PlannedN onLaborCost	double	x	The planned costs for all nonlabor resources assigned to the activity in the user's secondary baseline. If no resources are assigned, computed as the activity planned nonlabor units * project default price / time. This field is named Baseline Budgeted Non Labor Cost in Primavera's Engineering & Construction and Maintenance & Turnaround solutions.

Baseline2PlannedN onLaborUnits	double	x	The planned units for all nonlabor resources assigned to the The planned duration for the activity in the user's secondary baseline. Planned duration is the total working time from the activity current start date to the current finish date. Same as the actual duration plus the remaining duration. The total working time is computed using the activity's calendar. This field is named Baseline Budgeted Duration in Primavera's Engineering & Construction and Maintenance & Turnaround solutions.activity. This field is named Baseline Budgeted Non Labor Units in Primavera's Engineering & Construction and Maintenance & Turnaround solutions.
Baseline2PlannedT otalCost	double	x	The planned total cost for the activity in the user's secondary baseline. Total cost includes the costs for labor resources, nonlabor resources, and project expenses. Planned total cost = planned labor cost + planned nonlabor cost + planned expense cost. This field is named Baseline Budgeted Total Cost in Primavera's Engineering & The planned costs for all project expenses associated with the activity. This field is named Baseline Budgeted Expense Cost in Primavera's Engineering & Construction and Maintenance & Turnaround solutions.Construction and Maintenance & Turnaround solutions.
Baseline2StartDate	dateTime	x	The current start date of the activity in the user's secondary baseline. Set to the planned start date until the activity is started, then set to the actual start date.

Baseline3Duration	double	x	The duration for the activity in the user's tertiary baseline. The duration is the total working time from the activity current start date to the current finish date. Same as the actual duration plus the remaining duration. The total working time is computed using the activity's calendar.
Baseline3FinishDat e	dateTime	x	The current finish date of the activity in the user's tertiary baseline. Set to the activity planned finish date while the activity is not started, the remaining finish date while the activity is in progress, and the actual finish date once the activity is completed.
Baseline3PlannedD uration	double	x	The planned duration for the activity in the user's tertiary baseline. Planned duration is the total working time from the activity current start date to the current finish date. Same as the actual duration plus the remaining duration. The total working time is computed using the activity's calendar. This field is named Baseline Budgeted Duration in Primavera's Engineering & Construction and Maintenance & Turnaround solutions.
Baseline3PlannedE xpenseCost	double	x	The planned costs for all project expenses associated with the activity in the user's tertiary baseline. This field is named Baseline Budgeted Expense Cost in Primavera's Engineering & Construction and Maintenance & Turnaround solutions.

Baseline3PlannedL aborCost	double	x	The planned costs for all project expenses associated with the activity in the user's tertiary baseline. This field is named Baseline Budgeted Expense Cost in Primavera's Engineering & Construction and Maintenance & Turnaround solutions.
Baseline3PlannedL aborUnits	double	x	The planned units for all labor resources assigned to the activity in the user's tertiary baseline. This field is named Baseline Budgeted Labor Units in Primavera's Engineering & Construction and Maintenance & Turnaround solutions.
Baseline3PlannedM aterialCost	double	x	The Planned Material Cost for the activity in the user's tertiary baseline.
Baseline3PlannedN onLaborCost	double	x	The planned costs for all nonlabor resources assigned to the activity in the user's tertiary baseline. If no resources are assigned, computed as the activity planned nonlabor units * project default price / time. This field is named Baseline Budgeted Non Labor Cost in Primavera's Engineering & Construction and Maintenance & Turnaround solutions.

Baseline3PlannedN onLaborUnits	double	x	The planned units for all nonlabor resources assigned to the The planned duration for the activity in the user's tertiary baseline. Planned duration is the total working time from the activity current start date to the current finish date. Same as the actual duration plus the remaining duration. The total working time is computed using the activity's calendar. This field is named Baseline Budgeted Duration in Primavera's Engineering & Construction and Maintenance & Turnaround solutions.activity. This field is named Baseline Budgeted Non Labor Units in Primavera's Engineering & Construction and Maintenance & Turnaround solutions.
Baseline3PlannedT otalCost	double	x	The planned total cost for the activity in the user's tertiary baseline. Total cost includes the costs for labor resources, nonlabor resources, and project expenses. Planned total cost = planned labor cost + planned nonlabor cost + planned expense cost. This field is named Baseline Budgeted Total Cost in Primavera's Engineering & The planned costs for all project expenses associated with the activity. This field is named Baseline Budgeted Expense Cost in Primavera's Engineering & Construction and Maintenance & Turnaround solutions.Construction and Maintenance & Turnaround solutions.
Baseline3StartDate	dateTime	x	The current start date of the activity in the user's tertiary baseline. Set to the planned start date until the activity is started, then set to the actual start date.

BudgetAtCompletio n	double	x		The planned total cost through activity completion. Computed as planned labor cost + planned nonlabor cost + planned expense cost, same as the planned total cost.
CBSCode	string restricted to maxLength(1024)		x	The unique name of the Unifier CBS Code. Assign CBS codes to activities so that you can filter which activities you will send to Unifier.
CBSId	int		x	The unique Id of CBS Code.
CBSObjectId	int	х	х	The identifier of the CoUnifier CBS.
CalendarName	string restricted to maxLength(255)	х	x	The name of the calendar.
CalendarObjectId	int		x	The unique ID of the calendar assigned to the activity. Activity calendars can be assigned from the global calendar pool or the project calendar pool.
CostPercentComple te	double	x		The percent complete of costs for all labor resources, nonlabor resources, and expenses for the activity. Computed as actual total cost / at completion total cost * 100. Always in the range 0 to 100.
CostPercentOfPlan ned	double	x		The percent complete of planned costs for all labor resources, nonlabor resources, and expenses for the activity. Computed as actual total cost / BL planned total cost * 100. The value can exceed 100.
CostPerformanceIn dex	double	х		The earned value divided by the actual cost. A value less than 1 indicates that actual cost have exceeded the planned value.

CostPerformanceIn dexLaborUnits	double	x		The ratio of the earned value labor units and the actual work performed. Computed as CPI labor units = earned value labor units / actual labor units .
CostVariance	double	x		The difference between the earned value and the actual cost of work performed. Computed as CV = earned value - actual costs. A negative value indicates that actual costs have exceeded the value of work performed.
CostVarianceIndex	double	x		The ratio of the cost variance and the earned value of work performed. Computed as CVI = cost variance / earned value.
CostVarianceIndex LaborUnits	double	x		The ratio of the cost variance labor units and the earned value of work performed. Computed as CVI labor units = CV labor units / earned value labor units
CostVarianceLabor Units	double	x		The difference between the earned value of labor units and the actual cost of labor units. Calculated as CV labor units = earned value planned units - actual units. A negative value indicates that actual costs have exceeded the value of work performed.
CreateDate	dateTime	x	x	The date this activity was created.
CreateUser	string restricted to maxLength(255)	x	x	The name of the user that created this activity.
DataDate	dateTime	x		The current data date for the project. The project status is up to date as of the data date. The data date is modified when project actuals are applied.
Duration1Variance	double	х		The duration between the activity's primary baseline duration

				and the at complete duration. Computed as primary baseline duration - at completion duration.
Duration2Variance	double	x		The duration between the activity's baseline duration and the at complete duration. Computed as user's secondary baseline duration - at completion duration.
Duration3Variance	double	x		The duration between the activity's baseline duration and the at complete duration. Computed as user's tertiary baseline duration - at completion duration.
DurationPercentCo mplete	double restricted to minInclusiv e(0.0)			The percent complete of the activity duration. Computed as (planned duration - remaining duration) / planned duration * 100. Always in the range 0 to 100. The planned duration is taken from the current plan, not from the baseline.
DurationPercentOfP lanned	double	x		The activity actual duration percent of planned. Computed as actual duration / BL duration * 100. The value can exceed 100. The BL duration is the activity's at completion duration from the project baseline.
DurationType	string restricted to 'Fixed Units/Time' 'Fixed Duration and Units/Time' 'Fixed Units' 'Fixed Duration and Units'		x	The duration type of the activity. One of 'Fixed Units/Time', 'Fixed Duration and Units/Time', 'Fixed Units', or 'Fixed Duration and Units'. For 'Fixed Units/Time' activities, the resource units per time are constant when the activity duration or units are changed. This type is used when an activity has fixed resources with fixed productivity output per time period. For 'Fixed Duration and Units/Time' activities, the activity duration is constant as the units or resource units per time are changed. This type is used when the activity is to be completed within a fixed time

				period regardless of the resources assigned. For 'Fixed Units' activities, the activity units are constant when the duration or resource units per time are changed. This type is used when the total amount of work is fixed, and increasing the resources can decrease the activity duration.
DurationVariance	double	x		The duration between the activity's project baseline duration and the at complete duration. Computed as project baseline duration - at completion duration.
EarlyFinishDate	dateTime	x	x	The earliest possible date the activity can finish. This date is computed by the project scheduler based on network logic, schedule constraints, and resource availability.
EarlyStartDate	dateTime	x	x	The earliest possible date the remaining work for the activity can begin. This date is computed by the project scheduler based on network logic, schedule constraints, and resource availability.
EarnedValueCost	double	x		The portion of the project baseline total cost of the activity that is actually completed as of the project data date. Computed as earned value = BAC * performance % complete. The method for computing performance % complete depends on the earned-value technique selected for the activity's WBS. BAC is computed from the project baseline.
EarnedValueLabor Units	double	x		The portion of the project baseline labor units that is actually completed as of the project data date. Computed as labor units earned value = project baseline labor units * performance % complete. The method for

				computing performance % complete depends on the earned-value technique selected for the activity's WBS. The BL labor units is taken from the project baseline.
EstimateAtCompleti onCost	double	x		The estimated cost at completion for the activity. Computed as the actual total cost plus the estimate-to-complete cost; EAC = ACWP + ETC. Note that the method for computing ETC depends on the earned-value technique selected for the activity's WBS.
EstimateAtCompleti onLaborUnits	double	x		The estimated labor units at completion of the activity. Calculated as actual labor units + estimate to complete labor units. estimate to complete labor units is calculated based off of the earned value setting on the WBS.
EstimateToComplet e	double	x		The estimated cost to complete the activity. Computed as either the remaining total cost for the activity (remaining total cost), or as PF * (BAC - earned value), depending on the earned-value technique selected for the activity's WBS. BAC is computed from the project baseline.
EstimateToComplet eLaborUnits	double	x		The estimated quantity to complete the activity. Computed as either the remaining total units for the activity (remaining total units), or as PF * (BL labor units - earned value), depending on the earned-value technique selected for the activity's WBS.
ExpectedFinishDate	dateTime		x	The date the activity is expected to be finished according to the progress made on the activity's work products. The expected finish date is entered manually by people familiar with progress of the activity's work products.

ExpenseCost1Varia nce	double	x		The difference between primary baseline expense cost and at completion expense cost. Calculated as primary baseline expense cost - at completion expense cost (at completion expense cost = actual expense cost + remaining expense cost).
ExpenseCost2Varia nce	double	x		The difference between secondary baseline expense cost and at completion expense cost. Calculated as user's secondary baseline expense cost - at completion expense cost (at completion expense cost = actual expense cost + remaining expense cost).
ExpenseCost3Varia nce	double	x		The difference between tertiary baseline expense cost and at completion expense cost. Calculated as user's tertiary baseline expense cost - at completion expense cost (at completion expense cost = actual expense cost + remaining expense cost).
ExpenseCostPerce ntComplete	double	x		The percent complete of costs for all expenses associated with the activity. Computed as actual expense cost / at completion expense cost * 100. Always in the range 0 to 100.
ExpenseCostVarian ce	double	x		The difference between project baseline expense cost and at completion expense cost. Calculated as project baseline expense cost - at completion expense cost (at completion expense cost = actual expense cost + remaining expense cost).
ExternalEarlyStartD ate	dateTime		x	The date value that determines the early start date for imported activities with external constraints lost (relations from/to external projects that do not exist in the database). This field is the

				relationship early finish date (REF) when the lost relationship type is FS or SS. When the relationship type is SF or FF, this field is calculated as REF - RD of the successor.
ExternalLateFinish Date	dateTime		x	The date value that determines the Late Finish Date for imported activities with external constraints lost (from/to external projects that do not exist in the database). This field is the relationship late finish date (RLF) when the lost relationship type is FS or FF. When the relationship type is SS or SF, this field is calculated as RLS + RD of the predecessor.
Feedback	string			The feedback from the resource.
FinancialPeriodTmp IId	int		x	The unique identifier of the financial period calendar assigned to the project.
FinishDate	dateTime			The current finish date of the activity. Set to the activity planned finish date while the activity is not started, the remaining finish date while the activity is in progress, and the actual finish date once the activity is completed.
FinishDate1Varianc e	double	x		The duration between the finish date in the current project and the primary baseline finish date. Calculated as finish date - primary baseline finish date.
FinishDate2Varianc e	double	x		The duration between the finish date in the current project and the finish date in the user's secondary baseline. Calculated as finish date - secondary baseline finish date.
FinishDate3Varianc e	double	х		The duration between the finish date in the current project and the finish date in the user's tertiary baseline. Calculated as finish date - tertiary baseline finish date.

FinishDateVariance	double	x		the duration between the finish date in the current project and the project baseline finish date. Calculated as finish date - project baseline finish date.
FloatPath	int	x	x	The integer representing the critical path this activity is on. The value 1 is the most critical path, value 2 is the second most critical path, etc.
FloatPathOrder	int	х	x	The integer representing the order in which this object was found on one of the critical paths.
FreeFloat	double	х	x	The amount of time the activity can be delayed before delaying the start date of any successor activity.
GUID	string restricted to pattern '\{[0-9a-fA-F]{8}-[0-9a-fA -F]{4}-[0-9a- fA-F]{4}-[0- 9a-fA-F]{4}- [0-9a-fA-F]{ 12}\} '		x	The globally unique ID generated by the system.
HasFutureBucketD ata	boolean	x		The flag that indicates whether a resource assignment on the activity has future bucket data.
Id	string restricted to maxLength(40)		x	The short ID that uniquely identifies the activity within the project.
IsBaseline	boolean	х	x	The boolean value indicating if this business object is related to a Project or Baseline
IsCritical	boolean	x		The flag that indicates whether the activity is critical. An activity is critical when its total Float is below the critical duration specified for the project. Delaying

				critical activities will delay the finish date of the project.
IsLongestPath	boolean	x	x	The flag that indicates whether an activity is on the longest path. Default = 'N'
IsNewFeedback	boolean		x	The flag that indicates that a resource has sent feedback notes about this activity which have not been reviewed yet.
IsTemplate	boolean	x	х	The boolean value indicating if this business object is related to a template Project.
IsWorkPackage	boolean	x	х	Indicates if this WBS is a workpackage in Primavera Cloudor not.
IsStarred	boolean			The boolean value indicating if this business object has been assigned a star in P6 Team Member
LaborCost1Varianc e	double	x		The difference between primary baseline labor cost and at completion labor cost. Calculated as BL labor cost - at completion labor cost
LaborCost2Varianc e	double	x		The difference between user's secondary baseline labor cost and at completion labor cost. Calculated as BL2 labor cost - at completion labor cost
LaborCost3Varianc e	double	x		The difference between user's tertiary baseline labor cost and at completion labor cost. Calculated as BL3 labor cost - at completion labor cost
LaborCostPercentC omplete	double	x		The percent complete of costs for all labor resources assigned to the activity. Computed as actual labor cost / at completion labor cost * 100. Always in the range 0 to 100.
LaborCostVariance	double	x		The difference between project baseline labor cost and at completion labor cost. Calculated as BL labor cost - at completion

				labor cost
LaborUnits1Varianc e	double	x		The difference between primary baseline labor units and at completion labor units. Calculated as BL labor units - at completion labor units.
LaborUnits2Varianc e	double	x		The difference between user's secondary baseline labor units and at completion labor units. Calculated as BL2 labor units - at completion labor units.
LaborUnits3Varianc e	double	x		The difference between user's tertiary baseline labor units and at completion labor units. Calculated as BL3 labor units - at completion labor units.
LaborUnitsPercent Complete	double	x		The percent complete of units for all labor resources for the activity. Computed as actual labor units / at completion labor units * 100. Always in the range 0 to 100.
LaborUnitsVariance	double	x		The difference between project baseline labor units and at completion labor units. Calculated as BL labor units - at completion labor units.
LastUpdateDate	dateTime	х	х	The date this activity was last updated.
LastUpdateUser	string restricted to maxLength(255)	x	x	The name of the user that last updated this activity.
LateFinishDate	dateTime	x	x	The latest possible date the activity must finish without delaying the project finish date. This date is computed by the project scheduler based on network logic, schedule constraints, and resource availability.

LateStartDate	dateTime	x	x	The latest possible date the remaining work for the activity must begin without delaying the project finish date. This date is computed by the project scheduler based on network logic, schedule constraints, and resource availability.
LevelingPriority	string restricted to 'Top' 'High' 'Normal' 'Low' 'Lowest'		x	The activity priority used to prioritize activities in a project when performing resource leveling. Valid values are 'Top', 'High', 'Normal', 'Low', and 'Lowest'.
LocationName	string restricted to maxLength(100)	х	х	The name of the location assigned to the activity.
LocationObjectId	int		x	The unique ID of the location assigned to the activity.
MaterialCost1Varia nce	double	х		The primary Baseline Planned Material Cost minus the At Completion Material Cost.
MaterialCost2Varia nce	double	х		The user's secondary Baseline Planned Material Cost minus the At Completion Material Cost.
MaterialCost3Varia nce	double	х		The user's tertiary Baseline Planned Material Cost minus the At Completion Material Cost.
MaterialCostPercen tComplete	double	x		The percent complete of costs for all material resources assigned to the activity. Computed as actual nonlabor cost / at completion nonlabor cost * 100. Always in the range 0 to 100.
MaterialCostVarian ce	double	х		The project BaselinePlannedMaterialCost minus the AtCompletionMaterialCost.

MaximumDuration	double restricted to minInclusiv e(0.0)		x	The maximum duration of the activity.
MinimumDuration	double restricted to minInclusiv e(0.0)		x	The minimum duration of the activity.
MostLikelyDuration	double restricted to minInclusiv e(0.0)		x	The most likely duration of the activity.
Name	string restricted to maxLength(120)		x	The name of the activity. The activity name does not have to be unique.
NonLaborCost1Vari ance	double	x		The difference between the primary baseline nonlabor cost and at completion nonlabor cost. Calculated as BL nonlabor cost - at completion nonlabor cost.
NonLaborCost2Vari ance	double	x		The difference between the user's secondary baseline nonlabor cost and at completion nonlabor cost. Calculated as BL2 nonlabor cost - at completion nonlabor cost.
NonLaborCost3Vari ance	double	x		The difference between the user's tertiary baseline nonlabor cost and at completion nonlabor cost. Calculated as BL3 nonlabor cost - at completion nonlabor cost.
NonLaborCostPerc entComplete	double	x		The percent complete of costs for all nonlabor resources assigned to the activity. Computed as actual nonlabor cost / at completion nonlabor cost * 100. Always in the range 0 to 100.
NonLaborCostVaria nce	double	x		The difference between the project baseline labor cost and at completion labor cost. Calculated as BL nonlabor cost - at completion nonlabor cost.

NonLaborUnits1Var iance	double	х		The difference between the primary baseline nonlabor units and at completion nonlabor units. Calculated as BL nonlabor units - at completion nonlabor units.
NonLaborUnits2Var iance	double	x		The difference between the user's secondary baseline nonlabor units and at completion nonlabor units. Calculated as BL2 nonlabor units - at completion nonlabor units.
NonLaborUnits3Var iance	double	x		The difference between the user's tertiary baseline nonlabor units and at completion nonlabor units. Calculated as BL3 nonlabor units - at completion nonlabor units.
NonLaborUnitsPerc entComplete	double			The percent complete of units for all nonlabor resources for the activity. Computed as actual nonlabor units / at completion nonlabor units * 100. Always in the range 0 to 100.
NonLaborUnitsVari ance	double	x		The difference between the project baseline labor units and at completion labor units. Calculated as BL nonlabor units - at completion nonlabor units.
NotesToResources	string			The notes from the project manager to the timesheet resources.
ObjectId	int		х	The unique ID generated by the system.
PercentComplete	double			The activity percent complete. This value is tied to the activity duration % complete, units % complete, or physical % complete, depending on the setting for the activity's percent complete type, which is one of Duration, Units, or Physical. Always in the range 0 to 100.

PercentCompleteTy pe	string restricted to 'Physical' 'Duration' 'Units' 'Scope'		x	The activity percent complete type: 'Physical', 'Duration', 'Units', or 'Scope'. 'Scope' is only a valid option when P6 is integrated with Oracle Primavera Cloud for scope management.
PerformancePercen tComplete	double	x		The activity performance percent complete. The performance percent complete is used to compute earned value and may be based on the activity % complete, on the 0/100 rule, on the 50/50 rule, etc., depending on the technique for computing earned-value percent complete for the activity's WBS. The performance % complete specifies what percentage of the activity's planned worth has been earned so far.
PerformancePercen tCompleteByLabor Units	double	x		The performance percent complete for the activity according to the labor units. Computed as Earned Value Labor Units divided by Budget at Completion (Labor Units) multiplied by 100.
PhysicalPercentCo mplete	double			The physical percent complete, which can either be user entered or calculated from the activity's weighted steps.
PlannedDuration	double restricted to minInclusiv e(0.0)		x	The total working time from the activity planned start date to the planned finish date. The planned working time is computed using the activity's calendar. This field is named OriginalDuration in Primavera's Engineering & Construction and Maintenance & Turnaround solutions.

PlannedExpenseCo st	double	x		The planned costs for all project expenses associated with the activity. This field is named BudgetedExpenseCost in Primavera's Engineering & Construction and Maintenance & Turnaround solutions.
PlannedFinishDate	dateTime		x	The date the activity is scheduled to finish. This date is computed by the project scheduler but can be updated manually by the project manager. This date is not changed by the project scheduler after the activity has been started.
PlannedLaborCost	double			The planned costs for all labor resources assigned to the activity. If no resources are assigned, computed as the activity planned labor units * project default price / time. This field is named BudgetedLaborCost in Primavera's Engineering & Construction and Maintenance & Turnaround solutions.
PlannedLaborUnits	double		x	The planned units for all labor resources assigned to the activity. This field is named BudgetedLaborUnits in Primavera's Engineering & Construction and Maintenance & Turnaround solutions.
PlannedMaterialCo st	double	x		The sum of all material resource costs.
PlannedNonLaborC ost	double			The planned costs for all nonlabor resources assigned to the activity. If no resources are assigned, computed as the activity planned nonlabor units * project default price / time. This field is named BudgetedNonLaborCost in Primavera's Engineering & Construction and Maintenance &

				Turnaround solutions.
PlannedNonLaborU nits	double		x	The planned units for all nonlabor resources assigned to the activity. This field is named BudgetedNonLaborUnits in Primavera's Engineering & Construction and Maintenance & Turnaround solutions.
PlannedStartDate	dateTime		x	The date the activity is scheduled to begin. This date is computed by the project scheduler but can be updated manually by the project manager. This date is not changed by the project scheduler after the activity has been started.
PlannedTotalCost	double	x		The planned total cost for the activity, including labor resources, nonlabor resources, and project expenses. Planned total cost = planned labor cost + planned nonlabor cost + planned material cost + planned expense cost. This field is named BudgetedTotalCost in Primavera's Engineering & Construction and Maintenance & Turnaround solutions.
PlannedTotalUnits	double	x		the sum of Planned Labor Units and Planned Nonlabor Units. This field is named BudgetedTotalUnits in Primavera's Engineering & Construction and Maintenance & Turnaround solutions.
PlannedValueCost	double	x		The portion of the project baseline total cost of the activity that is scheduled to be completed as of the project data date. Computed as BAC * schedule % complete. Also known as the work scheduled to be performed for the activity. The schedule % complete

				specifies how much of the activity's project baseline duration has been completed so far. BAC is computed from the project baseline.
PlannedValueLabor Units	double	x		The portion of the project baseline labor units that is scheduled to be completed as of the project data date. Computed as BL labor units * schedule % complete. The schedule % complete specifies how much of the activity's project baseline duration has been completed so far. BL labor units is taken from the project baseline.
PostRespCriticalityI ndex	double	x	x	The Post Response Criticality Index calculated by Oracle Primavera Cloud during quantitative risk analysis.
PostResponsePessi misticFinish	dateTime		x	The Post Response Pessimistic Finish date calculated by Oracle Primavera Cloud during quantitative risk analysis.
PostResponsePessi misticStart	dateTime		x	The Post Response Pessimistic Start date calculated by Oracle Primavera Cloud during quantitative risk analysis.
PreRespCriticalityIn dex	double	x	x	The Pre Response Criticality Index calculated by Oracle Primavera Cloud during quantitative risk analysis.

[1	1	1	1
PreResponsePessi misticFinish	dateTime		х	The Pre Response Pessimistic Finish date calculated by Oracle Primavera Cloud during quantitative risk analysis.
PreResponsePessi misticStart	dateTime		x	The Pre Response Pessimistic Start date calculated by Oracle Primavera Cloud during quantitative risk analysis.
PrimaryConstraintD ate	dateTime		x	The constraint date for the activity, if the activity has a constraint. The activity's constraint type determines whether this is a start date or finish date. Activity constraints are used by the project scheduler.
PrimaryConstraintT ype	string restricted to " 'Start On' 'Start On or Before' 'Start On or After' 'Finish On' or Before' 'Finish On or After' 'As Late As Possible' 'Mandatory Start' 'Mandatory Finish'		x	The type of constraint applied to the activity start or finish date. Activity constraints are used by the project scheduler. Start date constraints are 'Start On', 'Start On or Before', and 'Start On or After'. Finish date constraints are 'Finish On', 'Finish On or Before', and 'Finish On or After'. Another type of constraint, 'As Late As Possible', schedules the activity as late as possible based on the available free float.
PrimaryResourceId	string restricted to maxLength(255)	x	x	The name of the resource.

PrimaryResourceN ame	string restricted to maxLength(255)	x	x	The name of the resource.
PrimaryResourceO bjectId	int		x	The unique ID of the primary resource for the activity. The primary resource is responsible for the overall work on the activity and updates the activity status using Timesheets.
ProjectFlag	string	x	x	Indicates if this WBS node is a Project/EPS node.
ProjectId	string	х	x	The short code of the associated project.
ProjectName	string	x	x	The name of the associated project.
ProjectObjectId	int		x	The unique ID of the associated project.
ProjectProjectFlag	string	x	x	Indicates if this Project/EPS nose is a Project or EPS.

RemainingDuration	double restricted to minInclusiv e(0.0)		x	The remaining duration of the activity. Remaining duration is the total working time from the activity remaining start date to the remaining finish date. The remaining working time is computed using the activity's calendar. Before the activity is started, the remaining duration is the same as the planned duration. After the activity is completed the remaining duration is zero.
RemainingEarlyFini shDate	dateTime		х	The remaining late end date, which is calculated by the scheduler.
RemainingEarlyStar tDate	dateTime		x	The date the remaining work for the activity is scheduled to begin. This date is computed by the project scheduler but can be updated manually by the project manager. Before the activity is started, the remaining start date is the same as the planned start date. This is the start date that Timesheets users follow.
RemainingExpense Cost	double	x		The remaining costs for all project expenses associated with the activity.
RemainingFloat	double	x		The amount of time remaining by which the activity can be delayed before delaying the project finish date. Computed as late finish - remaining finish. If the remaining finish is the same as the early finish (in general, when the activity is not started), then the remaining float is the same as the total float.

RemainingLaborCo st	double			The remaining costs for all labor resources assigned to the activity. If no resources are assigned, computed as the activity remaining labor units * project default price / time.
RemainingLaborUni ts	double		x	The remaining units for all labor resources assigned to the activity. The remaining units reflects the work remaining to be done for the activity. Before the activity is started, the remaining units are the same as the planned units. After the activity is completed, the remaining units are zero.
RemainingLateFinis hDate	dateTime		x	the remaining late finish date calculated by the scheduler.
RemainingLateStart Date	dateTime		x	the remaining late start date calculated by the scheduler.
RemainingMaterial Cost	double	x		The sum of all material resource remaining costs.
RemainingNonLabo rCost	double			The remaining costs for all nonlabor resources assigned to the activity. If no resources are assigned, computed as the activity remaining nonlabor units * project default price / time.

RemainingNonLabo rUnits	double		x	The remaining units for all nonlabor resources assigned to the activity. The remaining units reflects the work remaining to be done for the activity. Before the activity is started, the remaining units are the same as the planned units. After the activity is completed, the remaining units are zero.
RemainingTotalCos t	double	x		The remaining total cost for the activity, including labor resources, nonlabor resources, and project expenses. Remaining total cost = remaining labor costs + remaining nonlabor costs + remaining expense costs.
RemainingTotalUnit s	double	x	x	the sum of Remaining Labor Units and Remaining Nonlabor Units.
ResumeDate	dateTime		x	The date when a suspended task or resource dependent activity should be resumed. The resume date must be later than the suspend date and earlier than the actual finish date. The Suspend/Resume period behaves like a nonworktime on the activity calendar or resource calendar for task and resource dependent activities.
ReviewFinishDate	dateTime	x	x	The finish date of the activity as proposed by the primary resource using Timesheets, while the activity is in "For Review" state. If the project manager approves the activity completion, the review finish is copied to the actual finish.

ReviewRequired	boolean		x	The indicator that determines whether the activity status updates made in Team Member interfaces must be approved before committing changes.
ReviewStatus	string restricted to 'OK' 'For Review' 'Rejected'		x	The activity review status. Valid values are 'OK', 'For Review', and 'Rejected'. Primary resources set the status to 'For Review' when they believe the activity is completed but are not allowed to mark activities as completed.
SchedulePercentCo mplete	double	x		The activity schedule percent complete, which specifies how much of the activity's project baseline duration has been completed so far. Computed based on where the current data date falls relative to the activity's project baseline start and finish dates. If the data date is earlier than the BL start, the schedule % complete is 0. If the data date is later than the BL finish, the schedule % complete is 100. The schedule % complete indicates how much of the activity duration should be currently completed, relative to the selected project baseline.
SchedulePerforman ceIndex	double	x		The ratio of the earned value of work performed and the work scheduled to be performed. Computed as SPI = earned value/ planned value. A value less than 1 indicates that less work was actually performed than was scheduled.
SchedulePerforman ceIndexLaborUnits	double	x		The ratio of the earned value of labor units and the planned value of labor units. Computed as SPI labor units = earned value labor units / planned value labor units.

ScheduleVariance	double	x		The difference between the earned value of work performed and the work scheduled to be performed. Computed as SV = earned value - planned value. A negative value indicates that less work was actually performed than was scheduled.
ScheduleVarianceIn dex	double	x		The ratio of the schedule variance and the work scheduled to be performed. Computed as SVI = SV / planned value.
ScheduleVarianceIn dexLaborUnits	double	x		The ratio of the schedule variance and the work scheduled to be performed. Computed as SVI labor units = SV labor units / planned value labor units.
ScheduleVarianceL aborUnits	double	x		The difference between the earned value of work performed and the work scheduled to be performed. Computed as SV labor units = earned value labor units - planned value labor units.
ScopePercentComp lete	double			The percent complete for the activity if the percent complete type is set to scope. Scope is calculated in Oracle Primavera Cloud when P6 is integrated with Oracle Primavera Cloud for scope management.
SecondaryConstrai ntDate	dateTime		x	The date to be used for the cstr_type2 assignment, if the activity has a cstr_type2 value. The activity's constraint type determines whether this is a start date or finish date. Activity constraints are used by the project scheduler.

SecondaryConstrai ntType	string restricted to " 'Start On' 'Start On or Before' 'Start On or After' 'Finish On' or Before' 'Finish On or After' 'As Late As Possible' 'Mandatory Start' 'Mandatory Finish'		x	The additional constraint to be used by the scheduler. If more than one constraint is assigned, this value should be restricted to one of the following: "Start On or Before", "Start On or After", "Finish On or Before", or "Finish On or After".
StartDate	dateTime			The start date of the activity. Set to the remaining start date until the activity is started, then set to the actual start date.
StartDate1Variance	double	x		The duration between the start date in the current project and the primary baseline start date. Calculated as start date - primary baseline start date.
StartDate2Variance	double	x		The duration between the start date in the current project and the user's secondary baseline start date. Calculated as start date - secondary baseline start date.
StartDate3Variance	double	x		The duration between the start date in the current project and the user's tertiary baseline start date. Calculated as start date - tertiary baseline start date.

StartDateVariance	double	x		The duration between the start date in the current project and the project baseline start date. Calculated as start date - project baseline start date.
Status	string restricted to 'Not Started' 'In Progress' 'Completed'		x	The current status of the activity, either 'Not Started', 'In Progress', or 'Completed'.
StatusCode	string restricted to 'Planned' 'Active' 'Inactive' 'What-if' 'Requested' 'Templated'	x	x	The project status, either 'Planned', 'Active', 'Inactive', 'What-If', 'Requested', or 'Template'.
SuspendDate	dateTime		x	The start date when the progress of a task or resource dependent activity is delayed from. The suspend date must be later than the actual start date, which the activity must have. The progress of the activity can be resumed by setting the resume date. The Suspend/Resume period behaves like a nonworktime on the activity calendar or resource calendar for task and resource dependent activities.
TaskStatusCompleti on	string restricted to: 'BOTH_NO T_COMPLE TE' 'TASKS_C OMPLETE_ ACTIVITY_ NOT'		x	The completion status of tasks and activities from an integrated Oracle Primavera Cloud project used for lean scheduling. 'BOTH_NOT_COMPLETE' indicates that the activity and all associated tasks are not completed. 'TASKS_COMPLETE_ACTIVITY_ NOT' indicates that the activity is

	'ACTIVITY_ COMPLET E_TASKS_ NOT' 'BOTH_CO MPLETE' 'NO_TASK S'			not complete but all associated tasks are completed. 'ACTIVITY_COMPLETE_TASKS_ NOT' indicates that the activity is complete but all assigned tasks are not completed. 'BOTH_COMPLETE' indicates that the activity and all assigned tasks are completed. If there are no tasks assigned to the activity, this field shows 'NO_TASKS'.
TaskStatusDates	string restricted to: 'AT_LEAST _ONE_OUT SIDE' 'ALL_WITHI N' 'NO_TASK_ DATES'		x	The date status of tasks and activitiesfrom an integrated Oracle Primavera Cloud project used for lean scheduling. 'AT_LEAST_ONE_OUTSIDE' indicates that one or more tasks has a start date earlier than the activity start date, and/or a due date or completed date later than the activity finish date. 'ALL_WITHIN' indicates that no tasks assigned to the activity have start dates earlier than the activity start date, nor due dates or completed dates dates later than the activity finish date. If there are no tasks assigned to the activity, this field shows 'NO_TASK_DATES'.
TaskStatusIndicator	boolean		x	An indicator that determines whether any of the following conditions is true: The task dates are outside of the activity dates, all of the tasks assigned to an activity are complete, but the activity is not complete, or the activity is complete but all of its assigned tasks are not complete.
ToCompletePerfor manceIndex	double	x		The TCPI, which is calculated as (budget at completion - earned value) / (estimate at completion - ACWP).

TotalCost1Variance	double	x		The difference between the primary baseline total cost and the at completion total cost. Calculated as BL total cost - at completion total cost.
TotalCost2Variance	double	x		The difference between the user's secondary baseline total cost and the at completion total cost. Calculated as BL2 total cost - at completion total cost.
TotalCost3Variance	double	x		The difference between the user's tertiary baseline total cost and the at completion total cost. Calculated as BL3 total cost - at completion total cost.
TotalCostVariance	double	x		The difference between the project baseline total cost and the at completion total cost. Calculated as BL total cost - at completion total cost.
TotalFloat	double	x	x	The amount of time the activity can be delayed before delaying the project finish date. Total float can be computed as late start - early start or as late finish - early finish; this option can be set when running the project scheduler.
TotalPastPeriodEar nedValueCostBCW P	double			The total stored period earned value cost for each activity.
TotalPastPeriodEar nedValueLaborUnit s	double			The total stored period earned value labor units for each activity.

TotalPastPeriodExp enseCost	double	The total stored period expense cost for each activity.
TotalPastPeriodLab orCost	double	The total stored period labor cost for each activity.
TotalPastPeriodLab orUnits	double	The total stored period labor units for each activity.
TotalPastPeriodMat erialCost	double	The total stored period material cost for each activity.
TotalPastPeriodNon LaborCost	double	The total stored period non labor cost for each activity.
TotalPastPeriodNon LaborUnits	double	The total stored period non labor units for each activity.
TotalPastPeriodPla nnedValueCost	double	The total stored period planned value cost for each activity.

TotalPastPeriodPla nnedValueLaborUni ts	double		The total stored period planned value labor units for each activity.
Туре	string restricted to 'Task Dependent' 'Resource Dependent' 'Level of Effort' 'Start Milestone' 'WBS Summary'	×	The type of activity, either 'Task Dependent', 'Resource Dependent', 'Level of Effort', 'Start Milestone', 'Finish Milestone', or 'WBS Summary'. A 'Task Dependent' activity is scheduled using the activity's calendar rather than the calendars of the assigned resources. A 'Resource Dependent' activity is scheduled using the calendars of the assigned resources. This type is used when several resources are assigned to the activity, but they may work separately. A 'Start Milestone' or 'Finish Milestone' is a zero-duration activity without resources, marking a significant project event. A 'Level of Effort' activity has a duration that is determined by its dependent activities. Administration-type activities are typically 'Level of Effort'. A 'WBS Summary' comprises a group of activities that share a common WBS level. For example, all activities whose WBS codes start with A (A.1, A.1.1, A.1.1.2, A.2, A.3 and so forth) can be part of one WBS activity whose WBS code is A.
UnitsPercentCompl ete	double		The percent complete of units for all labor and nonlabor resources assigned to the activity. Computed as actual units / at completion units * 100. Always in the range 0 to 100.

	1			1
UnreadCommentCo unt	int	x		The number of Team Member Discussion comments associated with the Activity which have not yet been read.
WBSCode	string restricted to maxLength(40)	x	x	The short code assigned to each WBS element for identification. Each WBS element is uniquely identified by concatenating its own code together with its parents' codes.
WBSName	string restricted to maxLength(100)	x	x	The name of the WBS element.
WBSNamePath	string	x		The hierarchy of the parent WBS Names. WBS Names are listed in order from parent to child and hierarchical levels are separated by dots. For example: WBS_Name_1A.WBS_Name_2A. WBS_Name_3A
WBSObjectId	int		x	The unique ID of the WBS for the activity.
WBSPath	string			The WBS hierarchy of the activity.
WorkPackageId	string		x	The ID of the work package associated with an activity when P6 is integrated with Oracle Primavera Cloud for scope management.

WorkPackageName string	x	The name of the work package associated with an activity when P6 is integrated with Oracle Primavera Cloud for scope management.
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ActivityCodeAssignment Service

Operations:

CreateActivityCodeAssignments Operation (on page 92) ReadActivityCodeAssignments Operation (on page 93) UpdateActivityCodeAssignments Operation (on page 93) DeleteActivityCodeAssignments Operation (on page 94) GetFieldLengthActivityCodeAssignment Operation (on page 94)

WSDL: ActivityCodeAssignment.wsdl

Primary Key Field: A multi-part key comprised of the following elements:

- ActivityObjectId
- ActivityCodeTypeObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/ActivityCodeAssignment/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/ActivityCodeAssignmentService?wsdl https://<hostname>:<port number>/p6ws/services/ActivityCodeAssignmentService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.activitycodeassignment.ActivityCodeAssignmentService

Description:

An activity code assignment business object represents the assignment of an activity code to an activity. For each activity code type, an activity may have zero or one activity codes assigned.

Note that this business object has a multi-part object ID; its object ID is a combination of its activity object ID and its activity code object ID.

CreateActivityCodeAssignments Operation

Description: Creates multiple ActivityCodeAssignment objects in the database. You can create up to 1000 ActivityCodeAssignment objects with a single call.

Service: ActivityCodeAssignment Service (on page 92)

Style: Document/literal wrapped

Input:

Message: CreateActivityCodeAssignments

Elements: ActivityCodeAssignment elements that contain *ActivityCodeAssignment Fields* (on page 95) fields

Required fields:

- ActivityObjectId
- ActivityCodeObjectId

Output:

Message: CreateActivityCodeAssignmentsResponse

Output: A collection of zero to many ObjectId elements containing fields that comprise the primary key.

ReadActivityCodeAssignments Operation

Description: Reads ActivityCodeAssignment objects from the database.

Service: ActivityCodeAssignment Service (on page 92)

Style: Document/literal wrapped

Input:

Message: ReadActivityCodeAssignments

Elements: One to many field names from the *ActivityCodeAssignment Fields* (on page 95) field list

You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadActivityCodeAssignmentsResponse

Output: Zero to many ActivityCodeAssignment elements that contain ActivityCodeAssignment fields.

UpdateActivityCodeAssignments Operation

Description: Updates multiple ActivityCodeAssignment objects in the database. You can update up to 1000 ActivityCodeAssignment objects with a single call.

Service: ActivityCodeAssignment Service (on page 92)

Style: Document/literal wrapped

Input:

Message: UpdateActivityCodeAssignments

Elements: ActivityCodeAssignment elements that contain *ActivityCodeAssignment Fields* (on page 95) fields

Required fields: You must supply both the ActivityCodeObjectId and ActivityObjectId fields when you use the UpdateActivityCodeAssignments operation. All other fields are optional.

Output:

Message: UpdateActivityCodeAssignmentsResponse Output: boolean

DeleteActivityCodeAssignments Operation

Description: Deletes multiple ActivityCodeAssignment objects in the database. You can delete up to 1000 ActivityCodeAssignment objects with a single call.

Service: ActivityCodeAssignment Service (on page 92)

Style: Document/literal wrapped

Input:

Message: DeleteActivityCodeAssignments Elements: One to many ObjectId elements

Output:

Message: DeleteActivityCodeAssignmentsResponse Output: boolean

GetFieldLengthActivityCodeAssignment Operation

Description: Returns length of variable character fields for a BO.

Service: ActivityCodeAssignment Service (on page 92)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthActivityCodeAssignment Elements: FieldLength

Output:

Message: GetFieldLengthActivityCodeAssignmentResponse Elements: One to many FieldLengthActivityCodeAssignments.

ActivityCodeAssignment Fields

		Read	Filterable	
Field	Туре	Only	Orderable	Description
ActivityCode Description	string restricted to maxLength(1 20)	x	x	The description of the associated activity code.
ActivityCode ObjectId	int		x	The unique ID of the associated activity code.
ActivityCode TypeName	string restricted to maxLength(4 0)	x	x	The name of the parent activity code type.
ActivityCode TypeObjectId	int	x	x	The unique ID of the parent activity code type.
ActivityCode TypeScope	string restricted to 'Global' 'EPS' 'Project'	X	X	The scope of the associated activity code type: Global, EPS, or Project. An activity code with Global scope can be assigned to any activity. An activity code with EPS scope can be assigned only to an activity within a project under that particular EPS. Similarly, an activity code with Project scope can be assigned only to an activity within that particular project.
ActivityCode Value	string restricted to maxLength(6	x	х	The value of the associated activity code.

	0)			
ActivityId	string restricted to maxLength(4 0)	x	x	The short ID that uniquely identifies the activity to which the activity code is assigned.
ActivityName	string restricted to maxLength(1 20)	x	x	The name of the activity to which the activity code is assigned.
ActivityObjec tId	int		x	The unique ID of the activity to which the activity code is assigned.
CreateDate	dateTime	х	x	The date this code assignment was created.
CreateUser	string restricted to maxLength(2 55)	x	x	The name of the user that created this code assignment.
IsBaseline	boolean	x	x	The boolean value indicating if this business object is related to a Project or Baseline
IsTemplate	boolean	x	x	The boolean value indicating if this business object is related to a template Project.
LastUpdateD ate	dateTime	x	x	The date this code assignment was last updated.
LastUpdateU ser	string restricted to maxLength(2 55)	x	x	The name of the user that last updated this code assignment.
ProjectId	string	x	x	The short code of the associated project.

ProjectObjec tId	int	x	x	The unique ID of the associated project.
WBSObjectl d	int	x	x	The unique ID of the WBS for the associated activity.

ActivityComment Service

Operations:

CreateActivityComments Operation (on page 97) ReadActivityComments Operation (on page 98) GetFieldLengthActivityComment Operation (on page 98)

WSDL: ActivityComment.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/ActivityComment/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/ActivityCommentService?wsdl https://<hostname>:<port number>/p6ws/services/ActivityCommentService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.activitycomment.ActivityCommentService

Description:

An activity comment business object represents a comment made on an activity.

CreateActivityComments Operation

Description: Creates multiple ActivityComment objects in the database. You can create up to 1000 ActivityComment objects with a single call.

Service: ActivityComment Service (on page 97)

Style: Document/literal wrapped

Input:

Message: CreateActivityComments

Elements: ActivityComment elements that contain *ActivityComment Fields* (on page 99) fields

Required fields: The following fields are required when creating the ActivityComment object:

- ActivityObjectId
- UserObjectId
- CommentText

Output:

Message: CreateActivityCommentsResponse Output: Zero to many ObjectIds

ReadActivityComments Operation

Description: Reads ActivityComment objects from the database.

Service: ActivityComment Service (on page 97)

Style: Document/literal wrapped

Input:

Message: ReadActivityComments

Elements: One to many fields from the *ActivityComment Fields* (on page 99) field list

You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadActivityCommentsResponse Output: Zero to many ActivityComment elements that contain ActivityComment fields.

GetFieldLengthActivityComment Operation

Description: Returns length of variable character fields for a BO.

Service: ActivityComment Service (on page 97)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthActivityComment

Elements: FieldLength

Output:

Message: GetFieldLengthActivityCommentResponse Elements: One to many FieldLengthActivityComments.

ActivityComment Fields

Field	Туре	Read Only	Filterable Orderable	Description
ActivityObje ctId	int		X	The unique ID of the activity to which this comment is added.
CommentD ate	dateTime		x	The date on which this comment was added.
CommentTe xt	string restricted to maxLength(4 000)			The comment.
CreateDate	dateTime	х	x	The date this comment was created.
CreateUser	string restricted to maxLength(2 55)	x	x	The name of the user that created this comment.
DeleteDate	dateTime			The date this comment was deleted.
DeleteUser	string restricted to maxLength(2 55)			The name of the user that deleted this comment.
LastUpdate Date	dateTime	x	x	The date this comment was last updated.
LastUpdate User	string restricted to maxLength(2 55)	x	x	The name of the user that last updated this comment.
ObjectId	int		x	The unique ID generated by the system.

PersonalNa me	string	x	x	The commented user's personal or actual name.
ReadFlag	boolean			The flag that identifies whether a comment is read by a particular user.
TimeDiff	string	x		This field gives the time difference between current and createdate.
UserObjectI d	int		x	The unique ID of the user who added this comment.

ActivityExpense Service

Operations:

CreateActivityExpenses Operation (on page 101) ReadActivityExpenses Operation (on page 101) UpdateActivityExpenses Operation (on page 102) DeleteActivityExpenses Operation (on page 102) ReadAllActivityExpensesByWBS Operation (on page 103) GetFieldLengthActivityExpense Operation (on page 103)

WSDL: ActivityExpense.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/ActivityExpense/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/ActivityExpenseService?wsdl https://<hostname>:<port number>/p6ws/services/ActivityExpenseService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.activityexpense.ActivityExpenseService

Description:

Activity expenses are non-resource costs associated with a project and assigned to a project's activities. They are typically one-time expenditures for non-reusable items. Examples of expenses include materials, facilities, travel, overhead, and training.

You can categorize expenses, indicate a unit of measure for expenses, and specify whether an expense accrues at the start or end of an activity or uniformly over its duration. Each expense has a planned cost, actual cost, and estimated remaining cost.

Expenses are not the same as resources. Resources are time-based and generally extend across multiple activities and/or multiple projects. Examples of resources are personnel and equipment. Unlike resources, expenses are project-specific and they are not time-based. Expenses are not included when resources are leveled.

The ActivityExpense service supports user defined fields (UDFs). To assign UDFs to an activity expense, use the UDFValue service

CreateActivityExpenses Operation

Description: Creates multiple ActivityExpense objects in the database. You can create up to 1000 ActivityExpense objects with a single call.

Service: ActivityExpense Service (on page 100)

Style: Document/literal wrapped

Input:

Message: CreateActivityExpenses

Elements: ActivityExpense elements that contain *ActivityExpense Fields* (on page 103) fields

Required fields:

- Expenseltem
- ActivityObjectId

Output:

Message: CreateActivityExpensesResponse Output: Zero to many ObjectId elements

ReadActivityExpenses Operation

Description: Reads ActivityExpense objects from the database.

Service: ActivityExpense Service (on page 100)

Style: Document/literal wrapped

Input:

Message: ReadActivityExpenses

Elements: One to many field names from the *ActivityExpense Fields* (on page 103) field list

You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadActivityExpensesResponse

Output: Zero to many ActivityExpense elements that contain *ActivityExpense Fields* (on page 103) fields.

UpdateActivityExpenses Operation

Description: Updates multiple ActivityExpense objects in the database. You can update up to 1000 ActivityExpense objects with a single call.

Service: ActivityExpense Service (on page 100)

Style: Document/literal wrapped

Input:

Message: UpdateActivityExpenses

Elements: ActivityExpense elements that contain *ActivityExpense Fields* (on page 103) fields.

Required fields: The ObjectId must be specified.

Output:

Message: UpdateActivityExpensesResponse Output: boolean

DeleteActivityExpenses Operation

Description: Deletes multiple ActivityExpense objects in the database. You can delete up to 1000 ActivityExpense objects with a single call.

Service: ActivityExpense Service (on page 100)

Style: Document/literal wrapped

Input:

Message: DeleteActivityExpenses

Elements: One to many ObjectId elements

Output:

Message: DeleteActivityExpensesResponse Output: boolean

GetFieldLengthActivityExpense Operation

Description: Returns length of variable character fields for a BO.

Service: ActivityExpense Service (on page 100)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthActivityExpense Elements: FieldLength

Output:

Message: GetFieldLengthActivityExpenseResponse Elements: One to many FieldLengthActivityExpenses.

ReadAllActivityExpensesByWBS Operation

Description: Reads ActivityExpense objects from the database.

Service: ActivityExpense Service (on page 100)

Style: Document/literal wrapped

Input:

Message: ReadAllActivityExpensesByWBS Elements:

- One WBSObjectId element
- One to many field names from the ActivityExpense Fields (on page 103) field list You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the P6 EPPM Web Services Programming Guide for additional details.

Output:

Message: ReadAllActivityExpensesByWBSResponse

Output: Zero to many ActivityExpense elements that contain *ActivityExpense Fields* (on page 103) fields.

ActivityExpense Fields

Field	Туре	Read Only	Filterable Orderable	Description
AccrualType	string restricted to 'Start of Activity'		x	The accrual type for the project expense. If the accrual type is

	'End of Activity' 'Uniform Over Activity'			'Start of Activity', the entire expense costs are accrued at the start date of the activity. If the accrual type is 'End of Activity', the entire expense costs are accrued at the finish date of the activity. If the accrual type is 'Uniform over Activity', the expense costs are accrued uniformly over the duration of the activity.
ActivityId	string restricted to maxLength(4 0)	x	x	The short ID that uniquely identifies the activity within the project.
ActivityName	string restricted to maxLength(1 20)	x	x	The name of the activity. The activity name does not have to be unique.
ActivityObject Id	int		X	The unique ID of the activity to which the project expense is linked. Every project expense is associated with one activity in the project.
ActualCost	double		x	The actual cost for the project expense.
ActualUnits	double			The actual units for the project expense.
AtCompletion Cost	double	х		The sum of the actual plus remaining costs

				for the project expense. Computed as actual cost + remaining cost.
AtCompletion Units	double	x		The at completion units for the project expense.
AutoComput eActuals	boolean		X	The flag that identifies whether the actual and remaining costs for the expense are computed automatically using the planned cost and the activity's schedule percent complete. If this option is selected, the actual/remaining costs are automatically updated when project actuals are applied. This assumes the expenses are made according to plan.
CBSCode	string	x		CBS Code.
CBSId	int		x	The unique Id of CBS.
CostAccountl d	string restricted to maxLength(4 0)	x	x	The id of associated cost account.
CostAccount Name	string restricted to maxLength(1 00)	x	x	The name of the associated cost account.

CostAccount ObjectId	int		x	The unique ID of the cost account associated with the project expense.
CreateDate	dateTime	x	x	The date this expense was created.
CreateUser	string restricted to maxLength(2 55)	x	x	The name of the user that created this expense.
DocumentNu mber	string restricted to maxLength(3 2)		x	The document number for the expense. Use this for the purchase order number, invoice number, requisition number, or similar, as needed.
ExpenseCate goryName	string restricted to maxLength(3 6)	x	x	The name of the expense category.
ExpenseCate goryObjectId	int		x	The unique ID of the expense category for the project expense.
ExpenseDes cription	string			The description of the expense.
Expenseltem	string restricted to maxLength(1 20)		x	The name of the project expense.
ExpensePerc entComplete	double			The percent complete of the project expense.
IsBaseline	boolean	x	x	The boolean value indicating if this

				business object is related to a Project or Baseline
IsTemplate	boolean	x	x	The boolean value indicating if this business object is related to a template Project.
LastUpdateD ate	dateTime	x	x	The date this expense was last updated.
LastUpdateU ser	string restricted to maxLength(2 55)	x	x	The name of the user that last updated this expense.
ObjectId	int		x	The unique ID generated by the system.
OverBudget	boolean	x		The indicator that reflects whether the project expense is over budget. An expense is over budget when the actual cost + remaining cost exceeds the planned cost.
PlannedCost	double		X	The planned cost for the project expense. This field is named BudgetedCost in Primavera's Engineering & Construction and Maintenance & Turnaround solutions.
PlannedUnits	double		х	The planned number of units for the project expense. This

				number is multiplied by the price per unit to compute the planned cost. This field is named BudgetedUnits in Primavera's Engineering & Construction and Maintenance & Turnaround solutions.
PricePerUnit	double		x	The planned price per unit for the project expense. This number is multiplied by the planned number of units to compute the planned cost.
ProjectId	string restricted to maxLength(4 0)	x	x	The short code that uniquely identifies the project.
ProjectObject Id	int	x	x	The unique ID of the associated project.
RemainingCo st	double		X	The remaining cost for the project expense. Before actual expenses are made, remaining cost should be the same as planned cost. While the activity is in progress, the remaining cost should be updated to reflect the estimated remaining cost required for the expense. After the

				expense is completed, the remaining cost should be zero.
RemainingUn its	double			The remaining units for the project expense.
UnitOfMeasu re	string restricted to maxLength(3 0)		x	The unit of measure for the project expense.
Vendor	string restricted to maxLength(1 00)		x	The name of the vendor providing the product or service associated with the expense.
WBSObjectId	int	х	x	The unique ID of the WBS for the activity.

ActivityFilter Service

Operations:

CreateActivityFilters Operation (on page 110) ReadActivityFilters Operation (on page 110) UpdateActivityFilters Operation (on page 111) DeleteActivityFilters Operation (on page 111) GetFieldLengthActivityFilter Operation (on page 111)

WSDL: ActivityFilter.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/ActivityFilter/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/ActivityFilterService?wsdl https://<hostname>:<port number>/p6ws/services/ActivityFilterService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.activityfilter.ActivityFilterService

Description:

An activity filter business object represents a filter made for an activity.

CreateActivityFilters Operation

Description: Creates multiple ActivityFilter objects in the database. You can create up to 1000 ActivityFilter objects with a single call.

Service: ActivityFilter Service (on page 109)

Style: Document/literal wrapped

Input:

Message: CreateActivityFilters

Elements: ActivityFilter elements that contain ActivityFilter Fields (on page 112) fields

Required fields: The following fields are required when creating the ActivityFilter object:

- Name
- ActivityObjectId

Output:

Message: CreateActivityFiltersResponse Output: Zero to many ObjectIds

ReadActivityFilters Operation

Description: Reads Activity objects from the database.

Service: ActivityFilter Service (on page 109)

Style: Document/literal wrapped

Input:

Message: ReadActivityFilters

Elements: One to many field names from the ActivityFilter Fields (on page 112) field list

You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadActivityFiltersResponse

Output: Zero to many ActivityFilter elements that contain *ActivityFilter Fields* (on page 112) fields.

UpdateActivityFilters Operation

Description: Updates multiple ActivityFilter objects in the database. You can update up to 1000 ActivityFilter objects with a single call.

Service: ActivityFilter Service (on page 109)

Style: Document/literal wrapped

Input:

Message: UpdateActivityFilters

Elements: ActivityFilters elements that contain *ActivityFilter Fields* (on page 112) fields. Required fields: The ObjectId must be specified.

Output:

Message: UpdateActivityFiltersResponse Output: boolean

DeleteActivityFilters Operation

Description: Deletes multiple ActivityFilter objects in the database. You can delete up to 1000 ActivityFilter objects with a single call.

Service: ActivityFilter Service (on page 109)

Style: Document/literal wrapped

Input:

Message: DeleteActivityFilters Elements: One to many ObjectId elements

Output:

Message: DeleteActivityFiltersResponse Output: boolean

GetFieldLengthActivityFilter Operation

Description: Returns length of variable character fields for a BO.

Service: ActivityFilter Service (on page 109)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthActivityFilter Elements: FieldLength

Output:

Message: GetFieldLengthActivityFilterResponse

Elements: One to many FieldLengthActivityFilters.

ActivityFilter Fields

Field	Туре	Read Only	Filterable Orderable	Description
ActivityFilterI d	int		x	The unique ID generated by the system.
ActivityFilter Name	string restricted to maxLength(4 0)	x	x	The name of the Activity Filter.
FilterCriteria	type	х		Filter criteria for Activity Filter.
FilterCriteria Config	string			The definition of the filter in JSON format.
FilterGroup	string			The filter group for the activity filter.

FilterType	string	X	Determines whether the filter is for the EPS page in P6, Activities page in P6 or the My Activities page in P6 Team Member Web. Valid values are: 'VT_TMUSER_FIL TER' (User Administration - Team Member Filter), 'VT_PROJ_FILTE R_STAND' (EPS Standard Filter), 'VT_ASSGN_FILT _STAND' (Assignments Standard Filter), 'VT_LWF_FILTER' (Activities Page Filter), 'VT_ASSGN_LWF _FILTER' (Assignments Page Filter), 'VT_PROJ_LWF_F ILTER' (EPS Page Filter), 'VT_TM_ACT_FIL TER' (Team Member Activities Filter), 'VT_TM_TS_FILT ER' (Team Member Timesheet Filter)
UserId	int	x	The ID of the user which created the filter.

ActivityNote Service

Operations:

CreateActivityNotes Operation (on page 114) ReadActivityNotes Operation (on page 115) UpdateActivityNotes Operation (on page 115) DeleteActivityNotes Operation (on page 115) GetFieldLengthActivityNote Operation (on page 116)

WSDL: ActivityNote.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/ActivityNote/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/ActivityNoteService?wsdl https://<hostname>:<port number>/p6ws/services/ActivityNoteService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.activitynote.ActivityNoteService

Description:

Use activity notes to specify one or more notes for an activity. You can specify one note on each activity for every notebook topic that exists. Notes can only be set as HTML.

CreateActivityNotes Operation

Description: Creates multiple ActivityNote objects in the database. You can create up to 1000 ActivityNote objects with a single call.

Service: ActivityNote Service (on page 114)

Style: Document/literal wrapped

Input:

Message: CreateActivityNotes

Elements: ActivityNote elements that contain ActivityNote Fields (on page 116) fields

Required fields:

- ActivityObjectId
- NotebookTopicObjectId

Output:

Message: CreateActivityNotesResponse Output: Zero to many ObjectId elements

ReadActivityNotes Operation

Description: Reads ActivityNote objects from the database.

Service: ActivityNote Service (on page 114)

Style: Document/literal wrapped

Input:

Message: ReadActivityNotes

Elements: One to many field names from the ActivityNote Fields (on page 116) field list.

You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadActivityNotesResponse

Output: Zero to many ActivityNote elements that contain *ActivityNote Fields* (on page 116) fields.

UpdateActivityNotes Operation

Description: Updates multiple ActivityNote objects in the database. You can update up to 1000 ActivityNote objects with a single call.

Service: ActivityNote Service (on page 114)

Style: Document/literal wrapped

Input:

Message: UpdateActivityNotes

Elements: ActivityNote elements that contain *ActivityNote Fields* (on page 116) fields. Required fields: The ObjectId must be specified.

Output:

Message: UpdateActivityNotesResponse Output: boolean

DeleteActivityNotes Operation

Description: Deletes multiple ActivityNote objects in the database. You can delete up to 1000 ActivityNote objects with a single call.

Service: ActivityNote Service (on page 114)

Style: Document/literal wrapped

Input:

Message: DeleteActivityNotes Elements: One to many ObjectId elements

Output:

Message: DeleteActivityNotesResponse Output: boolean

GetFieldLengthActivityNote Operation

Description: Returns length of variable character fields for a BO.

Service: ActivityNote Service (on page 114)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthActivityNote Elements: FieldLength

Output:

Message: GetFieldLengthActivityNoteResponse Elements: One to many FieldLengthActivityNotes.

ActivityNote Fields

Field	Туре	Read Only	Filterable Orderable	Description
ActivityId	string restricted to maxLength(4 0)	x	x	The short ID that uniquely identifies the activity to which the activity note is assigned.
ActivityNam e	string restricted to maxLength(1 20)	x	x	The name of the activity to which the activity note is assigned.
ActivityObje ctId	int		x	The unique ID of the activity to which the activity note is assigned.
CreateDate	dateTime	x	x	The date this note was created.
CreateUser	string restricted to	х	х	The name of the user that created

	maxLength(2 55)			this note.
IsBaseline	boolean	x	x	The boolean value indicating if this business object is related to a Project or Baseline
IsTemplate	boolean	x	x	The boolean value indicating if this business object is related to a template Project.
LastUpdate Date	dateTime	x	x	The date this note was last updated.
LastUpdate User	string restricted to maxLength(2 55)	x	x	The name of the user that last updated this note.
Note	string			The information that is associated with the notebook topic.
NotebookTo picName	string	x	x	The name of the associated notebook topic.
NotebookTo picObjectId	int		x	The unique ID of the associated notebook topic.
ObjectId	int		x	The unique ID generated by the system.
ProjectId	string restricted to maxLength(4 0)	x	x	The short code that uniquely identifies the associated project.
ProjectObje ctId	int	х	x	The unique ID of the associated project.
RawTextNot	string	Х		The information

e				that is associated with the notebook topic, without any HTML.
WBSObjectl d	int	x	x	The unique ID of the WBS for the activity.

ActivityOwner Service

Operations:

CreateActivityOwners Operation (on page 118) ReadActivityOwners Operation (on page 119) UpdateActivityOwners Operation (on page 119) DeleteActivityOwners Operation (on page 120) GetFieldLengthActivityOwner Operation (on page 120)

WSDL: ActivityOwner.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/ActivityOwner/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/ActivityOwnerService?wsdl https://<hostname>:<port number>/p6ws/services/ActivityOwnerService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.activityowner.ActivityOwnerService

Description:

Activity owner objects provide a way to specify a user to be in charge of an activity for statusing in P6. Instead of assigning resources to activities, a user is able to assign a specific user to the activity. The activity owner, in conjunction with Contributor module access, gives users similar capabilities as a resource with Contributor module access.

Note that this business object has a multi-part object ID; its object ID is a combination of its activity object ID and its user object ID.

CreateActivityOwners Operation

Description: Creates multiple ActivityOwner objects in the database. You can create up to 1000 ActivityOwner objects with a single call.

Service: ActivityOwner Service (on page 118)

Style: Document/literal wrapped

Input:

Message: CreateActivityOwners

Elements: ActivityOwner elements that contain ActivityOwner Fields (on page 120) fields

Required fields:

- ActivityObjectId
- UserObjectId

Output:

Message: CreateActivityOwnersResponse Output: Zero to many ObjectIds

ReadActivityOwners Operation

Description: Reads ActivityOwner objects from the database.

Service: ActivityOwner Service (on page 118)

Style: Document/literal wrapped

Input:

Message: ReadActivityOwners

Elements: One to many fields from the ActivityOwner Fields (on page 120) field list

You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadActivityOwnersResponse

Output: Zero to many ActivityOwner elements that contain ActivityOwner fields.

UpdateActivityOwners Operation

Description: Updates multiple ActivityOwner objects in the database. You can update up to 1000 ActivityOwner objects with a single call.

Service: ActivityOwner Service (on page 118)

Style: Document/literal wrapped

Input:

Message: UpdateActivityOwners

Elements: ActivityOwner elements that contain ActivityOwner Fields (on page 120) fields

Output:

Message: UpdateActivityOwnersResponse Output: boolean

DeleteActivityOwners Operation

Description: Deletes multiple ActivityOwner objects in the database. You can delete up to 1000 ActivityOwner objects with a single call.

Service: ActivityOwner Service (on page 118)

Style: Document/literal wrapped

Input:

Message: DeleteActivityOwners Elements: One to many ObjectId elements

Output:

Message: DeleteActivityOwnersResponse Output: boolean

GetFieldLengthActivityOwner Operation

Description: Returns length of variable character fields for a BO.

Service: ActivityOwner Service (on page 118)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthActivityOwner Elements: FieldLength

Output:

Message: GetFieldLengthActivityOwnerResponse Elements: One to many FieldLengthActivityOwners.

ActivityOwner Fields

Field	Туре	Read Only	Filterable Orderable	Description
ActivityObje ctId	int		x	The unique ID of the associated activity.
CreateDate	dateTime	х	х	The date this activity owner was

				created.
CreateUser	string restricted to maxLength(2 55)	x	x	The name of the user that created this activity owner.
IsActivityFla gged	boolean		F	The flag that indicates whether the owner of the activity has flagged the activity as important.
IsBaseline	boolean	x	x	The boolean value indicating if this business object is related to a Project or Baseline.
IsTemplate	boolean	x	x	The boolean value indicating if this business object is related to a template Project.
LastUpdate Date	dateTime	x	x	The date this activity owner was last updated.
LastUpdate User	string restricted to maxLength(2 55)	x	x	The name of the user that last updated this activity owner.
ProjectFlag	string	x	х	Indicates if this WBS node is a Project/EPS node.
ProjectObje ctId	int	x	x	The unique ID of the associated project.
ProjectProje ctFlag	string	x	х	Indicates if this Project/EPS node is a Project or EPS.

StatusCode	string	x	x	The project status, either 'Planned', 'Active', 'Inactive', 'What-If', 'Requested', or 'Template'.
UserObjectI d	int		x	The unique ID of the associated user.

ActivityPeriodActual Service

Operations:

CreateActivityPeriodActuals Operation (on page 123) ReadActivityPeriodActuals Operation (on page 124) UpdateActivityPeriodActuals Operation (on page 124) DeleteActivityPeriodActuals Operation (on page 124) GetFieldLengthActivityPeriodActual Operation (on page 125)

WSDL: ActivityPeriodActual.wsdl

Primary Key Field: A multi-part key comprised of the following elements:

- FinancialPeriodObjectId
- ActivityObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/ActivityPeriodActual/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/ActivityPeriodActualService?wsdl https://<hostname>:<port number>/p6ws/services/ActivityPeriodActualService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.activityperiodactual.ActivityPeriodActualService

Description:

Activity period actuals represent the actual values on an activity during a financial period.

The following rules apply to activity period actuals:

- > They can be tracked only for in-progress or completed activities.
- Negative values are allowed.
- If both units and costs are simultaneously updated on a period actual instance, units are the driving value.
- > There is no relation between the units and costs on a period actual instance

- They must have at least one non-zero field value for a corresponding database record to exist
- Costs can be calculated only when a project default price per unit is defined.
- Values for a particular resource type (labor, nonlabor, material) can be tracked at the activity level only if the activity has no resource assignments of the same type. If resource assignments exist, activity period actuals are derived from those assignments and cannot be edited.
- If assignments exist, activity period actual values (labor, non labor, material) are calculated from resource assignments of the corresponding type.
- For material resources, only ActualMaterialCost can be tracked.

Note that this business object has a multi-part object ID, which is a combination of its financial period object ID and its activity object ID.

CreateActivityPeriodActuals Operation

Description: Creates multiple ActivityPeriodActual objects in the database. You can create up to 1000 ActivityPeriodActual objects with a single call.

Service: ActivityPeriodActual Service (on page 122)

Style: Document/literal wrapped

Input:

Message: CreateActivityPeriodActuals

Elements: ActivityPeriodActual elements that contain *ActivityPeriodActual Fields* (on page 125) fields

Required fields: The following fields are required when creating the ActivityPeriodActual object:

- ActivityObjectId
- FinancialPeriodObjectId

You must also supply at least one of the following fields:

- ActualLaborUnits
- ActualLaborCost
- ActualNonLaborUnits
- ActualNonLaborCost
- ActualExpenseCost
- EarnedValueCost
- EarnedValueLaborUnits
- PlannedValueCost
- PlannedValueLaborUnits

Output:

Message: CreateActivityPeriodActualsResponse

Output: A collection of zero to many ObjectId elements containing fields that comprise the primary key.

ReadActivityPeriodActuals Operation

Description: Reads ActivityPeriodActual objects from the database.

Service: ActivityPeriodActual Service (on page 122)

Style: Document/literal wrapped

Input:

Message: ReadActivityPeriodActuals

Elements: One to many field names from the *ActivityPeriodActual Fields* (on page 125) field list.

You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadActivityPeriodActualsResponse

Output: Zero to many ActivityPeriodActual elements that contain *ActivityPeriodActual Fields* (on page 125) fields.

UpdateActivityPeriodActuals Operation

Description: Updates multiple ActivityPeriodActual objects in the database. You can update up to 1000 ActivityPeriodActual objects with a single call.

Service: ActivityPeriodActual Service (on page 122)

Style: Document/literal wrapped

Input:

Message: UpdateActivityPeriodActuals

Elements: ActivityPeriodActual elements that contain *ActivityPeriodActual Fields* (on page 125) fields.

Required fields: The ObjectId must be specified.

Output:

Message: UpdateActivityPeriodActualsResponse Output: boolean

DeleteActivityPeriodActuals Operation

Description: Deletes multiple ActivityPeriodActual objects in the database. You can delete up to 1000 ActivityPeriodActual objects with a single call.

Service: ActivityPeriodActual Service (on page 122)

Style: Document/literal wrapped

Input:

Message: DeleteActivityPeriodActuals Elements: One to many ObjectId elements

Output:

Message: DeleteActivityPeriodActualsResponse Output: boolean

GetFieldLengthActivityPeriodActual Operation

Description: Returns length of variable character fields for a BO.

Service: ActivityPeriodActual Service (on page 122)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthActivityPeriodActual Elements: FieldLength

Output:

Message: GetFieldLengthActivityPeriodActualResponse Elements: One to many FieldLengthActivityPeriodActuals.

ActivityPeriodActual Fields

Field	Туре	R e d O nl y	Filt era ble Ord era ble	Description
ActivityObje ctId	int		х	The unique ID of the associated activity.
ActualExpen seCost	double		x	The actual expense cost on this activity during a financial period.
ActualLabor Cost	double		х	The actual labor cost on this activity during a financial period.
ActualLabor Units	double		х	The actual labor units on this activity during a financial period.

ActualMateri alCost	double	x	х	The actual material cost on this activity during a financial period.
ActualNonLa borCost	double		x	The actual nonlabor cost on this activity during a financial period.
ActualNonLa borUnits	double		x	The actual nonlabor units on this activity during a financial period.
CreateDate	dateTime	х	х	The date this activity period actual was created.
CreateUser	string restricted to maxLength(2 55)	x	х	The name of the user that created this activity period actual.
EarnedValu eCost	double		х	The earned value cost on this activity during a financial period.
EarnedValu eLaborUnits	double		х	The earned value labor units on this activity during a financial period.
FinancialPer iodObjectId	int		х	The unique ID of the associated financial period.
FinancialPer iodTemplate Id	int		х	The id of the financial period template to which the financial period belongs.
IsBaseline	boolean	х	х	The boolean value indicating if this business object is related to a Project or Baseline
IsTemplate	boolean	х	х	The boolean value indicating if this business object is related to a template Project.
LastUpdate Date	dateTime	x	x	The date this activity period actual was last updated.
LastUpdate User	string restricted to	х	х	The name of the user that last updated this activity period actual.

	maxLength(2 55)			
PlannedValu eCost	double		x	The planned value cost on this activity during a financial period.
PlannedValu eLaborUnits	double		x	The planned value labor units on this activity during a financial period.
ProjectObjec tId	int	x	x	The unique ID of the associated project.
WBSObjectI d	int	x	x	The unique ID of the WBS for the activity.

ActivityStep Service

Operations:

CreateActivitySteps Operation (on page 128) ReadActivitySteps Operation (on page 128) UpdateActivitySteps Operation (on page 129) DeleteActivitySteps Operation (on page 129) GetFieldLengthActivityStep Operation (on page 130)

WSDL: ActivityStep.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/ActivityStep/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/ActivityStepService?wsdl https://<hostname>:<port number>/p6ws/services/ActivityStepService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.activitystep.ActivityStepService

Description:

Activity steps provide a way to break activities down into smaller units and track the completion of those units. For example, the activity Prepare for System Integration and Testing might contain the following steps:

- Establish test cases and test procedures
- Create test data
- Update SDFs

You can add as many steps to an activity as you need: some activities will require more steps to complete than others and some activities may require no additional steps at all. If progress occurs on the step, enter a percent complete or set the IsCompleted flag if the step is 100% complete. You can also assign additional information to steps, such as cost, start and finish dates, and text.

Weighted steps

Weighted steps enable you to track the progress of an activity based on the number of steps completed. When activity percent complete is specified to be based on activity steps, and physical is chosen as the activity's percent complete type, activity percent complete is updated based on the weight you assign to each activity step.

For example, in the activity Prepare for System Integration and Testing mentioned above, the steps are assigned weights of 3.0, 2.0, and 1.0 respectively. When you specify the step Establish Test Cases and Test Procedures to be complete, the activity's physical percent complete is updated to 50 percent (because the total weight for the steps in this activity is 6.0 and the weight for this step is 3.0; therefore, half the work on this activity, according to the weight of the steps, has been completed).

The ActivityStep service supports user defined fields (UDFs). Use the UDFValue service to assign UDFs.

CreateActivitySteps Operation

Description: Creates multiple ActivityStep objects in the database. You can create up to 1000 ActivityStep objects with a single call.

Service: ActivityStep Service (on page 127)

Style: Document/literal wrapped

Input:

Message: CreateActivitySteps

Elements: ActivityStep elements that contain ActivityStep Fields (on page 130) fields

Required fields:

- Name
- ActivityObjectId

Output:

Message: CreateActivityStepsResponse Output: Zero to many ObjectId elements

ReadActivitySteps Operation

Description: Reads ActivityStep objects from the database.

Service: ActivityStep Service (on page 127)

Style: Document/literal wrapped

Input:

Message: ReadActivitySteps

Elements: One to many field names from the ActivityStep Fields (on page 130) field list.

You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadActivityStepsResponse

Output: Zero to many ActivityStep elements that contain *ActivityStep Fields* (on page 130) fields.

UpdateActivitySteps Operation

Description: Updates multiple ActivityStep objects in the database. You can update up to 1000 ActivityStep objects with a single call.

Service: ActivityStep Service (on page 127)

Style: Document/literal wrapped

Input:

Message: UpdateActivitySteps

Elements: ActivityStep elements that contain *ActivityStep Fields* (on page 130) fields. Required fields: The ObjectId must be specified.

Output:

Message: UpdateActivityStepsResponse Output: boolean

DeleteActivitySteps Operation

Description: Deletes multiple ActivityStep objects in the database. You can delete up to 1000 ActivityStep objects with a single call.

Service: ActivityStep Service (on page 127)

Style: Document/literal wrapped

Input:

Message: DeleteActivitySteps

Elements: One to many ObjectId elements

Output:

Message: DeleteActivityStepsResponse Output: boolean

GetFieldLengthActivityStep Operation

Description: Returns length of variable character fields for a BO.

Service: ActivityStep Service (on page 127)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthActivityStep Elements: FieldLength

Output:

Message: GetFieldLengthActivityStepResponse Elements: One to many FieldLengthActivitySteps.

ActivityStep Fields

Field	Туре	Rea d Onl y	Filtera ble Ordera ble	Description
ActivityId	string restricted to maxLength(40)	x	x	The short ID that uniquely identifies the activity within the project.
ActivityName	string restricted to maxLength(120)	x	х	The name of the activity. The activity name does not have to be unique.
ActivityObjectId	int		x	The unique ID of the activity to which the steps are assigned.
CreateDate	dateTime	х	x	The date this activity step was created.
CreateUser	string restricted to maxLength(255)	x	x	The name of the user that created this activity step.
Description	string			The description of the activity step.

IsBaseline	boolean	x	x	The boolean value indicating if this business object is related to a Project or Baseline.
IsCompleted	boolean		x	The flag that indicates whether the step has been completed.
IsTemplate	boolean	x	x	The boolean value indicating if this business object is related to a template Project.
LastUpdateDate	dateTime	х	x	The date this activity step was last updated.
LastUpdateUser	string restricted to maxLength(255)	x	x	The name of the user that last updated this activity step.
Name	string restricted to maxLength(120)		x	The name of the activity step.
ObjectId	int		x	The unique ID generated by the system.
PercentComplet e	double restricted to minInclusive(0.0) maxInclusive(1.0)		x	The percent complete for the step.
ProjectId	string restricted to maxLength(40)	x	x	The short code that uniquely identifies the project.
ProjectObjectId	int	x	x	The unique ID of the associated project.
SequenceNumb er	int		x	The sequence number for sorting.
WBSObjectId	int	х	x	The unique ID of the WBS for the activity.
Weight	double restricted to minInclusive(0.0) maxInclusive(9999		x	The weight that is assigned to the step. This is a user defined field that is used to calculate the physical percent complete when

	99.0)		the project option is set.
WeightPercent	double	x	The non-editable field that displays the percentage amount that corresponds to the step. It is calculated by taking the weight of the step and dividing it by the total of all weights for the activity.

ActivityStepTemplate Service

Operations:

CreateActivityStepTemplates Operation (on page 133) ReadActivityStepTemplates Operation (on page 133) UpdateActivityStepTemplates Operation (on page 134) DeleteActivityStepTemplates Operation (on page 134) GetFieldLengthActivityStepTemplate Operation (on page 134)

WSDL: ActivityStepTemplate.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/ActivityStepTemplate/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/ActivityStepTemplateService?wsdl https://<hostname>:<port number>/p6ws/services/ActivityStepTemplateService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.activitysteptemplate.ActivityStepTemplateService

Description:

Activity step templates enable you to define a group of steps common to multiple activities, and then assign the template to activities. Your organization may have several activities that repeat within a project or across projects. For example, every time you start a project, several specifications must be written and approved. Developing a specification is a multi-step process that never changes.

As an example, the "Write Specifications" activity could have the following steps:

- Submit initial spec
- Review initial spec
- Revise initial spec
- Final review

Final revision

These steps may apply to many or all "Write Specifications" activities in a project or across all projects. Rather than manually inputting these steps into each "Write Specifications" activity, you can create an activity step template containing these steps and assign the template to each applicable activity at once. One activity step template may contain several activity steps. Each activity template step is represented by the ActivityStepTemplateItem business object.

CreateActivityStepTemplates Operation

Description: Creates multiple Activity Step Template objects in the database. You can create up to 1000 Activity Step Template objects with a single call.

Service: ActivityStepTemplate Service (on page 132)

Style: Document/literal wrapped

Input:

Message: CreateActivityStepTemplates

Elements: Activity Step Template elements that contain *ActivityStepTemplate Fields* (on page 135) fields

Required fields: Name.

Output:

Message: CreateActivityStepTemplatesResponse Output: Zero to many ObjectId elements

ReadActivityStepTemplates Operation

Description: Reads ActivityStepTemplate objects from the database.

Service: ActivityStepTemplate Service (on page 132)

Style: Document/literal wrapped

Input:

Message: ReadActivityStepTemplates

Elements: One to many field names from the *ActivityStepTemplate Fields* (on page 135) field list

You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadActivityStepTemplatesResponse

Output: Zero to many ActivityStepTemplate elements that contain *ActivityStepTemplate Fields* (on page 135) fields.

UpdateActivityStepTemplates Operation

Description: Updates multiple Activity Step Template objects in the database. You can update up to 1000 Activity Step Template objects with a single call.

Service: ActivityStepTemplate Service (on page 132)

Style: Document/literal wrapped

Input:

Message: UpdateActivityStepTemplates

Elements: ActivityStepTemplate elements that contain *ActivityStepTemplate Fields* (on page 135) fields.

Required fields: The ObjectId must be specified.

Output:

Message: UpdateActivityStepTemplatesResponse Output: boolean

DeleteActivityStepTemplates Operation

Description: Deletes multiple Activity Step Template objects in the database. You can delete up to 1000 Activity Step Template objects with a single call.

Service: ActivityStepTemplate Service (on page 132)

Style: Document/literal wrapped

Input:

Message: DeleteActivityStepTemplates

Elements: One to many ObjectId elements

Output:

Message: DeleteActivityStepTemplatesResponse Output: boolean

GetFieldLengthActivityStepTemplate Operation

Description: Returns length of variable character fields for a BO.

Service: ActivityStepTemplate Service (on page 132)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthActivityStepTemplate Elements: FieldLength

Output:

Message: getFieldLengthActivityStepTemplateResponse Elements: One to many FieldLengthActivityStepTemplates.

ActivityStepTemplate Fields

Field	Туре	Read Only	Filterable Orderable	Description
CreateDate	dateTime	x	x	The date this activity step template was created.
CreateUser	string restricted to maxLength(2 55)	x	x	The name of the user that created this activity step template.
LastUpdate Date	dateTime	x	x	The date this activity step template was last updated.
LastUpdate User	string restricted to maxLength(2 55)	x	x	The name of the user that last updated this activity step template.
Name	string restricted to maxLength(1 20)	x	x	The name of the activity step template.
ObjectId	int	x	х	The unique ID generated by the system.
SequenceN umber	int	x	х	The sequence number for sorting.
StepCount	int	х		The number of items in this activity step template.

ActivityStepTemplateItem Service

Operations:

CreateActivityStepTemplateItems Operation (on page 136) ReadActivityStepTemplateItems Operation (on page 137) UpdateActivityStepTemplateItems Operation (on page 137) DeleteActivityStepTemplateItems Operation (on page 137) GetFieldLengthActivityStepTemplateItem Operation (on page 138)

WSDL: ActivityStepTemplateItem.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/ActivityStepTemplateItem/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/ActivityStepTemplateItemService?wsdl https://<hostname>:<port number>/p6ws/services/ActivityStepTemplateItemService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.activitysteptemplateitem.ActivityStepTemplateItemService

Description:

An activity step template item is one of the defined steps in the associated activity template. See the ActivityStepTemplate Service for more information about activity step templates.

The ActivityStepTemplateItem service supports user defined fields (UDFs). Use the UDFValue Service to read the associated UDF assignments.

CreateActivityStepTemplateItems Operation

Description: Creates multiple Activity Step Template Item objects in the database. You can create up to 1000 Activity Step Template objects with a single call.

Service: ActivityStepTemplateItem Service (on page 136)

Style: Document/literal wrapped

Input:

Message: CreateActivityStepTemplateItems

Elements: Activity Step Template Item elements that contain *ActivityStepTemplateItem Fields* (on page 138) fields

Required fields: Name, ActivityStepTemplateObjectId.

Output:

Message: CreateActivityStepTemplateItemsResponse Output: Zero to many ObjectId elements

ReadActivityStepTemplateItems Operation

Description: Reads ActivityStepTemplateItem objects from the database.

Service: ActivityStepTemplateItem Service (on page 136)

Style: Document/literal wrapped

Input:

Message: ReadActivityStepTemplateItems

Elements: One to many field names from the *ActivityStepTemplateItem Fields* (on page 138) field list

You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadActivityStepTemplateItemsResponse

Output: Zero to many ActivityStepTemplateItem elements that contain *ActivityStepTemplateItem Fields* (on page 138) fields.

UpdateActivityStepTemplateItems Operation

Description: Updates multiple Activity Step Template Item objects in the database. You can update up to 1000 Activity Step Template Item objects with a single call.

Service: ActivityStepTemplateItem Service (on page 136)

Style: Document/literal wrapped

Input:

Message: UpdateActivityStepTemplateItems Elements: Activity Step Template Item elements that contain *ActivityStepTemplateItem Fields* (on page 138) fields.

Required fields: The ObjectId must be specified.

Output:

Message: UpdateActivityStepTemplateItemsResponse Output: boolean

DeleteActivityStepTemplateItems Operation

Description: Deletes multiple Activity Step Template Item objects in the database. You can delete up to 1000 Activity Step Template Item objects with a single call.

Service: ActivityStepTemplateItem Service (on page 136)

Style: Document/literal wrapped

Input:

Message: DeleteActivityStepTemplateItems Elements: One to many ObjectId elements

Output:

Message: DeleteActivityStepTemplateItemsResponse Output: boolean

GetFieldLengthActivityStepTemplateItem Operation

Description: Returns length of variable character fields for a BO.

Service: ActivityStepTemplateItem Service (on page 136)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthActivityStepTemplateItem Elements: FieldLength

Output:

Message: GetFieldLengthActivityStepTemplateItemResponse Elements: One to many FieldLengthActivityStepTemplateItems.

ActivityStepTemplateItem Fields

Field	Туре	Read Only	Filterable Orderable	Description
ActivityStepTe mplateObjectI d	int	x	x	The unique ID of the activity step template to which this item belongs.
CreateDate	dateTime	x	x	The date this activity step template item was created.
CreateUser	string restricted to maxLength(2 55)	x	x	The name of the user that created this activity step template item.
Description	string	x		The description of the activity step.
LastUpdateDa	dateTime	Х	Х	The date this

te				activity step template item was last updated.
LastUpdateUs er	string restricted to maxLength(2 55)	x	x	The name of the user that last updated this activity step template item.
Name	string restricted to maxLength(1 20)	x	x	The name of the activity step template item.
ObjectId	int	x	x	The unique ID generated by the system.
SequenceNu mber	int	x	x	The sequence number for sorting.
Weight	double restricted to minInclusive(0.0) maxInclusive (999999.0)	X	X	The weight that is assigned to the step. This is a user defined field that is used to calculate the physical percent complete when the project option is set.

CBS Service

Operations

CreateCBSs Operation (on page 140) ReadCBSs Operation (on page 140) DeleteCBSs Operation (on page 141) UpdateCBSs Operation (on page 141) GetFieldLengthCBS Operation (on page 142)

WSDL: CBS.wsdl

Primary Key Field:

ObjectID

- ParentObjectID
- ProjectObjectID

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/CBS/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/CBSService?wsdl https://<hostname>:<port number>/p6ws/services/CBSService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.cbs.CBSService

Description:

You can use Primavera Unifier to perform advanced cost, cash flow and earned value analysis on your P6 projects.

If your P6 deployment is integrated with Primavera Unifier, you can send P6 data to Primavera Unifier and import some data from Primavera Unifier back into P6. Once the link between a P6 project and a Primavera Unifier project and schedule sheet or summary sheet is set up, P6 will retrieve the Cost Breakdown Structure (CBS) from the Primavera Unifier project regularly.

CreateCBSs Operation

Description: Creates multiple CBS objects in the database. You can create up to 1000 CBS objects with a single call.

Service: CBS Service (on page 139)

Style: Document/literal wrapped

Input:

Message: CreateCBSs

Elements: One to many field names from the CBS Fields (on page 142) field list.

Required:

- CBSCode
- ProjectObjectId

Output:

Message: ReadCBSsResponse

Output: Zero to many CBS elements that contain CBS fields.

ReadCBSs Operation

Description: Reads CBS objects in the database.

Service: CBS Service (on page 139)

Style: Document/literal wrapped

Input:

Message: ReadCBSs

Elements: One to many field names from the CBS Fields (on page 142) field list.

You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: CreateCBSsResponse

Output: Zero to many CBS Service elements that contain CBS fields.

UpdateCBSs Operation

Description: Updates multiple CBS objects in the database. You can update up to 1000 CBS objects with a single call.

Service: CBS Service (on page 139)

Style: Document/literal wrapped

Input:

Message: UpdateCBSs Elements: CBS elements that contain *CBS Fields* (on page 142) fields.

Required: The ObjectId must be specified

Output:

Message: UpdateCBSsResponse Output: Boolean

DeleteCBSs Operation

Description: Deletes multiple CBS objects in the database. You can delete up to 1000 CBS objects with a single call.

Service: CBS Service (on page 139)

Style: Document/literal wrapped

Input:

Message: DeleteCBSs Elements: One to many ObjectId elements. Output: UpdateCBS Operation

Message: DeleteCBSsResponse Output: Boolean

GetFieldLengthCBS Operation

Description: Returns length of variable character fields for a BO.

Service: CBS Service (on page 139)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthCBS Elements: FieldLength

Output:

Message: GetFieldLengthCBSResponse Elements: One to many FieldLengthCBSs.

CBS Fields

Field	Туре	Read Only	Filter Orderable	Description
CBSCode	string restricted to maxLength(120)		x	The unique name of the Unifier CBS Code. Assign CBS codes to activities so that you can filter which activities you will send to Unifier.
CBSDescripti on	string restricted to maxLength(4000)			The description of the associated CBS.
CBSStatus	string restricted to " 'Active'			Specifies the status of the CBS.

	'In Active'			
CreateDate	dateTime	x	x	The date this activity was created.
CreateUser	string restricted to maxLength(255)	X	X	The name of the user that created this activity.
LastUpdateDa te	dateTime	x	x	The date this activity was last updated.
LastUpdateUs er	string restricted to maxLength(255)	x	x	The name of the user that last updated this activity.
ObjectId	int		x	The unique ID generated by the system.
ParentObjectI d	int		X	The unique ID of the parent CBS for this CBS in the hierarchy.
ProjectObjectI d	int	x	x	The unique ID of the associated project.

CBSDurationSummary Service

Operations:

CreateCBSDurationSummarys Operation (on page 144) ReadCBSDurationSummarys Operation (on page 144) UpdateCBSDurationSummarys Operation (on page 145) DeleteCBSDurationSummarys Operation (on page 145) GetFieldLengthCBSDurationSummary Operation (on page 146)

WSDL: CBSDurationSummary.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/CBSDurationSummary/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/CBSDurationSummarywsdl https://<hostname>:<port number>/p6ws/services/CBSDurationSummary?wsdl

Java Client Stub Class:

com.primavera.ws.p6.cbsdurationsummary.CBSDurationSummary

Description:

Provides a summary of the actual, planned, and remaining: duration, finish date, start date, and percent complete for an activity in a CBS.

CreateCBSDurationSummarys Operation

Description: Creates multiple CBSDurationSummarys objects in the database. You can create up to 1000 CBS objects with a single call.

Service: CBSDurationSummary Service (on page 143)

Style: Document/literal wrapped

Input:

Message: CreateCBSDurationSummarys

Elements: One to many field names from the *CBSDurationSummary Fields* (on page 146) field list.

Required:

- ProjectId
- CBSId

Output:

Message: CreateCBSDurationSummarysResponse

Output: Zero to many CBS elements that contain CBSDurationSummarys Fields fields.

ReadCBSDurationSummarys Operation

Description: Reads multiple CBSDurationSummarys objects in the database.

Service: CBSDurationSummary Service (on page 143)

Style: Document/literal wrapped

Input:

Message: ReadCBSDurationSummarys

Elements: One to many field names from the **CBSDurationSummary Fields** (on page 146) field list.

You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: CreateCBSDurationSummarysResponse

Output: Zero to many CBSDurationSummarys elements that contain CBSDurationSummarys fields.

UpdateCBSDurationSummarys Operation

Description: Updates CBSDurationSummarys objects from the database.You can update up to 1000 CBSDurationSummarys objects with a single call.

Service: CBSDurationSummary Service (on page 143)

Style: Document/literal wrapped

Input:

Message: UpdateCBSDurationSummarys

Elements: One to many fields from the **CBSDurationSummary Fields** (on page 146) field list

Required: The ObjectId must be specified

Output:

Message: UpdateCBSDurationSummarysResponses Output: boolean

DeleteCBSDurationSummarys Operation

Description: Deletes CBSDurationSummarys objects from the database. You can delete up to 1000 CBSDurationSummarys objects with a single call.

Service: CBSDurationSummary Service (on page 143)

Style: Document/literal wrapped

Input:

Message: DeleteCBSDurationSummarys

Elements: One to many fields from the *CBSDurationSummary Fields* (on page 146) field list

Output:

Message: DeleteCBSDurationSummarysResponses Output: boolean

GetFieldLengthCBSDurationSummary Operation

Description: Returns length of variable character fields for a BO.

Service: CBSDurationSummary Service (on page 143)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthCBSDurationSummary Elements: FieldLength

Output:

Message: GetFieldLengthCBSDurationSummaryResponse Elements: One to many FieldLengthCBSDurationSummarys.

CBSDurationSummary Fields

Field	Туре	Read Only	Filterable Orderable	Descriptions
CBSObjectId	int	x	X	The internal CBS ID of the project. This ID cannot be used to load the CBS object directly.
OriginalProject ObjectId	int	x	x	The unique ID of the project from which the project baseline was created, if the current project is a project baseline
ProjectId	restricted to maxLength(40)	x	x	The short code of the associated project.
ProjectName	restricted to maxLength(100)	Х	Х	The name of the associated project.
ProjectObjectId	int		x	The unique ID of the associated project.
SummaryActual Duration	double	x		The actual duration.

SummaryActual FinishDate	dateTime	X	The latest actual finish date of all activities in the CBS.
SummaryActual StartDate	dateTime	x	The earliest actual start date of all activities in the CBS.
SummaryPerce	double	X	The measure that indicates how much of the CBS baseline duration has been completed so far. Computed based on where the current data date falls between the activity's baseline start and finish dates. If the data date is earlier than the baseline start, the schedule % complete is 0. If the data date is later than the baseline finish, the schedule % complete is 100. The schedule % complete indicates how much of the CBS duration should be currently completed, relative to the selected baseline.
SummaryPlann edDuration	double	x	The total working days between planned start and finish dates in the CBS.
SummaryPlann edFinishDate	dateTime	X	The latest planned finish date of all activities in the CBS.

	1	1	
SummaryPlann edStartDate	dateTime	х	The earliest planned start date of all activities in the CBS.
SummaryRemai ningDuration	double	x	The total working time from the CBS remaining start date to the remaining finish date.
SummaryRemai ningFinishDate	dateTime	X	The date the resource is scheduled to finish the remaining work for the activity.
SummaryRemai ningStartDate	dateTime		The earliest remaining start of all activities assigned to the CBS.

EPS Service

Operations:

CreateEPS Operation (on page 149) ReadEPS Operation (on page 149) UpdateEPS Operation (on page 150) DeleteEPS Operation (on page 150) GetFieldLengthEPS Operation (on page 150) ReadProjectEPSPath Operation (on page 151) ReadEPSPath Operation (on page 151)

WSDL: EPS.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/EPS/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/EPSService?wsdl https://<hostname>:<port number>/p6ws/services/EPSService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.eps.EPSService

Description:

EPS (Enterprise Project Structure) is the hierarchical structure of projects in the database. It is used to perform top-down budgeting, manage multiple projects, implement coding standards, and maintain security throughout the enterprise. EPSs are hierarchical objects. EPS objects can only be deleted from the database if they and their EPS children have no child projects. To delete an EPS, you must first move or delete all projects that are children of that EPS or of that EPS node's EPS children.

The EPS service supports user defined fields (UDFs). Use the UDFValue service to assign UDFs.

CreateEPS Operation

Description: Creates multiple EPS objects in the database. You can create up to 1000 EPS objects with a single call.

Service: EPS Service (on page 148)

Style: Document/literal wrapped

Input:

Message: CreateEPS

Elements: EPS elements that contain EPS Fields (on page 152) fields

Required fields: The following fields are required when creating the EPS object:

Id

- Name
- > At least one of the following fields: ParentObjectId or OBSObjectId

Output:

Message: CreateEPSResponse Output: Zero to many ObjectId elements

ReadEPS Operation

Description: Reads EPS objects from the database.

Service: EPS Service (on page 148)

Style: Document/literal wrapped

Input:

Message: ReadEPS

Elements: One to many field names from the *EPS Fields* (on page 152) field list.

You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadEPSResponse

Output: Zero to many EPS elements that contain *EPS Fields* (on page 152) fields.

UpdateEPS Operation

Description: Updates multiple EPS objects in the database. You can update up to 1000 EPS objects with a single call.

Service: EPS Service (on page 148)

Style: Document/literal wrapped

Input:

Message: UpdateEPS Elements: EPS elements that contain *EPS Fields* (on page 152) fields. Required fields: The ObjectId must be specified.

Output:

Message: UpdateEPSResponse Output: boolean

DeleteEPS Operation

Description: Deletes multiple EPS objects in the database. You can delete up to 1000 EPS objects with a single call.

Service: EPS Service (on page 148)

Style: Document/literal wrapped

Input:

Message: DeleteEPS Elements: One to many ObjectId elements

Output:

Message: DeleteEPSResponse Output: boolean

GetFieldLengthEPS Operation

Description: Returns length of variable character fields for a BO.

Service: EPS Service (on page 148)

Style: Document/literal wrapped Input:

Message: GetFieldLengthEPS Elements: FieldLength

Output:

Message: GetFieldLengthEPSResponse Elements: One to many FieldLengthEPSs.

ReadProjectEPSPath Operation

Description: Reads EPS objects from the database.

Service: EPS Service (on page 148)

Style: Document/literal wrapped

Input:

Message: ReadProjectEPSPath Elements:

- One to many ProjectObjectId elements
- One to many field names from the *EPS Fields* (on page 152) field list.

Output:

Message: ReadProjectEPSPathResponse Output: Zero to many EPS elements that contain *EPS Fields* (on page 152) fields.

ReadEPSPath Operation

Description: Reads EPS objects from the database.

Service: EPS Service (on page 148)

Style: Document/literal wrapped

Input:

Message: ReadEPSPath

Elements:

- One to many ObjectId elements
- One to many field names from the *EPS Fields* (on page 152) field list.

Output:

Message: ReadEPSPathResponse

Output: Zero to many EPS elements that contain EPS fields.

EPS Fields

		Read	Filterable	
Field	Туре	Only	Orderable	Descriptio n
AnticipatedFinishD ate	dateTime		X	The anticipated finish date of the EPS. User-enter ed - not dependent upon any other fields. If there are no children, the anticipated finish date will be the finish date displayed in the columns.
AnticipatedStartDat e	dateTime		X	The anticipated start date of the EPS. User-enter ed - not dependent upon any other fields. If there are no children, the anticipated start date will be the start date displayed

				in the columns.
CreateDate	dateTime	x	x	The date this EPS was created.
CreateUser	string restricted to maxLength(255)	x	x	The name of the user that created this EPS.
CurrentBudget	double	X		The sum of the original budget plus the approved and pending budgets from the budget change log.
CurrentVariance	double	x		The difference between the current budget and the total spending plan. Calculated as current budget - total spending plan. Not rolled up
DistributedCurrentB udget	double	x		The current budget values from one level lower.
FinishDate	dateTime	Х		The finish

				date of the EPS.
GUID	string restricted to pattern '\{[0-9a-fA-F]{8}-[0-9a-fA- F]{4}-[0-9a-fA-F]{4}-[0-9a- fA-F]{4}-[0-9a-fA-F]{12}\} '		х	The globally unique ID generated by the system.
Id	string restricted to maxLength(40)		х	The short code assigned to each EPS element for identificatio n.
IndependentETCLa borUnits	double	x	x	The user-enter ed ETC total labor.
IndependentETCTo talCost	double restricted to minInclusive(0.0)	x	x	The user-enter ed ETC total cost.
LastSummarizedDa te	dateTime	x	x	The date the project was last summarize d.
LastUpdateDate	dateTime	x	x	The date this EPS was last updated.
LastUpdateUser	string restricted to maxLength(255)	x	x	The name of the user that last updated this EPS.
Name	string restricted to maxLength(100)		х	The name of the EPS element.

OBSName	string restricted to maxLength(100)	x	x	The name of the person/role in the organizatio n, sometimes referred to as the "responsibl e manager".
OBSObjectId	int		x	The unique ID of the project manager from the project's OBS tree who is responsibl e for the EPS.
ObjectId	int		x	The unique ID generated by the system.
OriginalBudget	double		x	The original budget for the project.
ParentEPSId	string		х	The Id of the parent EPS.
ParentEPSName	string		x	The Name of the parent EPS.
ParentObjectId	int		x	The unique ID of the parent EPS of this EPS in the hierarchy.

PlannedStartDate	dateTime	х	x	The planned start date of the project. Used by the project scheduler.
ProjectObjectId	int	x	x	The internal Project ID of the EPS. This ID cannot be used to load a Project object directly.
ProposedBudget	double	X		The Proposed Budget, which is the sum of the original budget plus the approved and pending budgets from the budget change log.
SequenceNumber	int		x	The sequence number for sorting.
StartDate	dateTime	x		The start date of the EPS.
SummaryAccountin gVarianceByCost	double	x		the Planned Value minus the

			Co ne va ino tha Ac Co ex tho Pla Va	anned alue.
SummaryAccountin gVarianceByLabor Units	double	x	Va La Ur mi Ac Ur Ne va inc tha Ur ex the Pla Va La	anned alue abor nits inus the ctual nits. egative lue dicates at Actual nits have aceeded
SummaryActivityCo unt	int	x	ac tha cu	e Imber of ctivities at are Irrently in ogress.
SummaryActualDur ation	double	x		ne actual Iration.
SummaryActualExp enseCost	double	x	co all ex as	ne actual osts for project penses sociated th the

			EPS.
SummaryActualFini shDate	dateTime	x	The latest actual finish date of all activities in the EPS.
SummaryActualLab orCost	double	x	The actual cost for all labor resources assigned to the activity.
SummaryActualLab orUnits	double	x	The actual labor units.
SummaryActualMat erialCost	double	x	The actual units for all material resources assigned to the activity.
SummaryActualNo nLaborCost	double	x	The actual units for all nonlabor resources assigned to the activity.
SummaryActualNo nLaborUnits	double	x	The actual nonlabor units.
SummaryActualSta rtDate	dateTime	x	The earliest actual start date of all activities in the EPS.
SummaryActualThi sPeriodCost	double	x	The actual this period cost (will be labor or

			nonlabor).
SummaryActualThi sPeriodLaborCost	double	x	The actual this period labor cost
SummaryActualThi sPeriodLaborUnits	double	x	The actual this period labor units.
SummaryActualThi sPeriodMaterialCos t	double	x	The actual this period material cost.
SummaryActualThi sPeriodNonLaborC ost	double	x	The actual this period nonlabor cost.
SummaryActualThi sPeriodNonLaborU nits	double	x	The actual this period nonlabor units.
SummaryActualTot alCost	double	x	The actual labor cost + actual nonlabor cost + actual expense cost as of the project data date.
SummaryActualVal ueByCost	double	X	the actual total cost incurred on the activity as of the project data date, computed as Actual Labor Cost + Actual Nonlabor Cost + Actual

			Material Cost + Actual Expense Cost.
SummaryActualVal ueByLaborUnits	double	x	the actual total labor units for the activity as of the project data date (that is, actual total cost by labor units).
SummaryAtComple tionDuration	double	x	The duration at completion
SummaryAtComple tionExpenseCost	double	X	the sum of the actual plus remaining cost for all project expenses associated with the cost account. Computed as Actual Expense Cost + Remaining Expense Cost.
SummaryAtComple tionLaborCost	double	x	The sum of the actual plus remaining costs for all labor resources assigned

			to the activity. Computed as actual labor cost + remaining labor cost. Same as the planned labor costs if the activity is not started and the actual
			actual labor costs once the activity is completed. The sum of the actual
SummaryAtComple tionLaborUnits	double	x	plus remaining units for all labor resources assigned to the activity. Computed as actual labor units + remaining labor units. Same as the planned
			planned labor units if the activity is not started and the actual labor units once the

			activity is completed.
SummaryAtCompletionMaterialCost	double	X	The material cost at completion . It is the sum of the actual plus remaining costs for all material resources assigned to the activity. Computed as actual material cost + remaining material cost. Same as the planned material costs if the activity is not started and the actual material costs once the activity is completed.
SummaryAtComple tionNonLaborCost	double	x	The nonlabor cost at completion . It is the sum of the actual plus remaining costs for all nonlabor resources

SummaryAtComplet tionNonLaborUnitsdoublexactivity. Computed as actual nonlabor cost + remaining nonlabor cost. Same as the planned nonlabor costs if the activity is not started and the actual nonlabor costs one the activity is sourcest for all nonlabor costs one the activity is nonlabor costs one the activity is sourcest for all nonlabor costs one the activity is nonlabor costs one the activity is sourcest for all nonlabor units of all nonlabor to molecular to molecular to molecularSummaryAtComplet tionNonLaborUnitsdoublexThe nonlabor units for all nonlabor to the activity. Computed as actual nonlabor units t+ remaining nonlabor units. Same as				assigned to the
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tionNonLaborUnits to the activity. Computed as actual nonlabor units + remaining nonlabor units. Same as				
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units + remaining nonlabor units. Same as				
remaining nonlabor units. Same as				
nonlabor units. Same as				remaining
Same as				nonlabor
				Same as the
planned				
nonlabor				

			units if the activity is not started and the actual nonlabor units once the activity is completed.
SummaryAtCompletionTotalCost	double	X	The estimated cost at completion for the activity. Computed as the actual total cost plus the estimate-to -complete cost; EAC = ACWP + ETC. Note that the method for computing ETC depends on the earned-val ue technique selected for the activity's WBS.
SummaryAtComple tionTotalCostVarian ce	double	X	the Baseline Planned Total Cost - At Completio n Total Cost.

SummaryBaseline CompletedActivityC ount	int	х	The number of completed activities in the baseline.
SummaryBaseline Duration	double	X	the planned duration for the activity in the primary baseline. Planned duration is the total working time from the activity current start date to the current finish date. Same as the actual duration plus the remaining duration. The total working time is computed using the activity's calendar.
SummaryBaselineE xpenseCost	double	x	the planned cost for all project expenses associated with the activity in the primary baseline.

			Computed as the baseline actual expense cost plus the baseline remaining expense cost.
SummaryBaselineF inishDate	dateTime	x	The current latest finish date of all activities in the EPS for the current baseline.
SummaryBaselinel nProgressActivityC ount	int	x	the number of activities that should be currently in progress, according to the primary baseline. Computed using the baseline start and finish dates and the current data date.
SummaryBaselineL aborCost	double	x	the planned cost for all labor resources assigned to the activity in

			the primary baseline. Computed from the baseline At Completio n labor units. If no resources are assigned, computed as the activity Baseline Planned Labor Units * Project Default Price / Time.
SummaryBaselineL aborUnits	double	x	the planned units for all labor resources assigned to the activity in the primary baseline. Computed as the baseline actual labor units plus the baseline remaining labor units.
SummaryBaseline MaterialCost	double	x	the planned cost for all material resources assigned to the

			tł b C fr b C n u r c a	activity in the primary paseline. Computed rom the paseline At Completio a nonlabor units. If no esources are assigned.
SummaryBaseline NonLaborCost	double	X	pcn rratt att bCfrbCnurraacaaBFNUPDF	he blanned cost for all conlabor esources issigned of the activity in the primary baseline. Computed rom the baseline At Completio a nonlabor inits. If no esources are assigned, computed as the activity Baseline Planned Nonlabor Jnits * Project Default Price / Time.
SummaryBaseline NonLaborUnits	double	x	p u n re	ne Ilanned Inits for all Ionlabor esources Issigned

			to the activity in the primary baseline. Computed as the baseline actual nonlabor units plus the baseline remaining nonlabor units.
SummaryBaseline NotStartedActivityC ount	int	x	The number of activities not started in the baseline.
SummaryBaselineS tartDate	dateTime	x	The current earliest start date of all activities in the EPS for the current baseline.
SummaryBaselineT otalCost	double	X	the Planned Total Cost for the activity in the primary baseline, including labor resources, nonlabor resources, and project expenses. Baseline Planned

			Total Cost = Baseline Planned Labor Cost + Baseline Planned Nonlabor Cost + Baseline Planned Expense Cost.
SummaryBudgetAt CompletionByCost	double	X	the Planned Total Cost through activity completion Computed as Planned Labor Cost + Planned Nonlabor Cost + Planned Expense Cost, same as the Planned Total Cost.
SummaryBudgetAt CompletionByLabor Units	double	x	the Baseline Labor Units
SummaryComplete dActivityCount	int	x	the number of activities that have an Actual Finish in the EPS.
SummaryCostPerc entComplete	double	x	The percent complete

				of onsis for
				of costs for the
				resource
				assignmen
				ts in the
				EPS.
				Computed
				as Actual
				Units / At
				Complete
				Units *
				100.
				Always in
				the range
				0 to 100.
				The
				activity
				actual cost
				percent of
				planned. Computed
				as actual
				total cost /
				baseline
				total cost *
				100, or
				equivalentl
				y as
				ACWP /
				BAC * 100.
SummaryCostPerc	double	V		The value
entOfPlanned		Х		can
				exceed
				100. The
				baseline
				total cost is the
				activity's at
				completion
				cost from
				the current
				baseline.
				This field is
				named
				SummaryC
				ostPercent
				OfBudget
				in

			Primavera' s Engineerin g & Constructi on and Maintenan ce & Turnaroun d solutions.
SummaryCostPerfo rmanceIndexByCos t	double	X	the Earned Value divided by the Actual Cost. A value less than 1 indicates that the Actual Cost has exceeded the Planned Value.
SummaryCostPerfo rmanceIndexByLab orUnits	double	x	the Earned Value Labor Units / Actual Labor Units.
SummaryCostVaria nceByCost	double	x	the Earned Value minus the Actual Cost. A negative value indicates that the Actual Cost has exceeded the Planned

			N	Value.
SummaryCostVaria nceByLaborUnits	double	x	\ 	the Earned Value Labor Cost minus Actual Value Labor Cost.
SummaryCostVaria nceIndex	double	x	t (() () () () () () () () ()	The value that is calculated as the Cost Variance divided by Earned Value.
SummaryCostVaria nceIndexByCost	double	x		the Cost Variance divided by Earned Value.
SummaryCostVaria nceIndexByLaborU nits	double	x	L L E N	the Cost Variance Labor Units divided by Earned Value Labor Units.
SummaryDurationP ercentComplete	double	X	2 2 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	The activity actual duration bercent of blanned. Computed as (baseline blanned duration - remaining duration) / baseline

			planned duration * 100.
SummaryDurationP ercentOfPlanned	double	X	The summary actual duration percent of planned of all activities under this EPS. Computed as actual duration / baseline duration * 100. The value can exceed 100. The Baseline duration is the activity's at complete duration from the current baseline.
SummaryDurationV ariance	double	x	The duration between the activity's baseline duration and the at complete duration. Computed as baseline duration - at completion

			duration.
SummaryEarnedVa lueByCost	double	X	the Budget at Completio n * Performan ce % Complete. The method for computing the Performan ce Percent Complete depends on the Earned Value technique selected for the activity's WBS. Budget at Completio n is computed from the primary baseline.
SummaryEarnedVa lueByLaborUnits	double	x	the Schedule Variance Labor Units divided by the Planned Value Labor Units.
SummaryEstimate AtCompletionByCo st	double	x	the Actual Cost plus the Estimate to Complete

			Cost. The method for computing Estimate to Complete depends on the Earned Value technique selected for the activity's WBS.
SummaryEstimate AtCompletionByLa borUnits	double	x	the Actual Labor Units + Estimate To Complete Labor Units. (Estimate To Complete Labor Units is calculated based off of the Earned Value setting on the EPS.)
SummaryEstimate AtCompletionHighP ercentByLaborUnits	double	x	the high forecast of Estimate At Completio n (EAC) by labor units.
SummaryEstimate AtCompletionLowP ercentByLaborUnits	double	x	the low forecast of Estimate At Completio n (EAC) by

			labor units.
SummaryEstimateT oCompleteByCost	double	X	the Remaining Total Cost for the activity or the Performan ce Factor * (Budget at Completio n - Earned Value), depending on the Earned Value technique selected for the activity's WBS (calculated from the primary baseline).
SummaryEstimateT oCompleteByLabor Units	double	X	the estimated quantity to complete the activity. Computed as either the remaining total units for the activity, or as Performan ce Factor * (Baseline Planned Labor Units - Planned Quantity of Work

			Performed)
			, depending on the Earned Value Technique selected for the activity's WBS.
SummaryExpense CostPercentCompl ete	double	X	The percent complete of cost for all expenses associated with the EPS. It is computed as Actual Expense Cost / At Complete Expense Cost * 100, and it is always in the range of 0 to 100.
SummaryExpense CostVariance	double	X	the Baseline Planned Expense Cost - At Completio n Expense Cost (At Completio n Expense Cost = Actual Expense Cost + Remaining Expense

			Cost).
SummaryFinishDat eVariance	double	x	The duration between the finish date in the current project and the baseline finish date. Calculated as finish date - baseline finish date.
SummaryInProgres sActivityCount	int	x	the number of activities that are currently in progress.
SummaryLaborCos tPercentComplete	double	x	The percent complete of cost for all labor resources assigned to the EPS. It is computed as Actual Labor Cost / At Complete Labor Cost * 100, and it is always in the range of 0 to 100.
SummaryLaborCos tVariance	double	x	the Baseline Planned Labor Cost - At

			Completio n Labor Cost.
SummaryLaborUnit sPercentComplete	double	X	The percent complete of units for all labor resources for the EPS. Computed as actual labor units / at complete labor units * 100. Always in the range 0 to 100.
SummaryLaborUnit sVariance	double	X	The difference between labor units and at completion labor units. Calculated as Baseline labor units - at completion labor units.
SummaryMaterialC ostPercentComplet e	double	x	The percent complete of cost for all material resources assigned to the EPS. It is computed as Actual

			Material Cost / At Complete Material Cost * 100, and it is always in the range of 0 to 100.
SummaryMaterialC ostVariance	double	x	The variance that is calculated as Baseline Material Cost - At Completio n Material Cost.
SummaryNonLabor CostPercentCompl ete	double	x	The percent complete of cost for all non-labor resources assigned to the EPS. It is computed as Actual Nonlabor Cost / At Complete Nonlabor Cost * 100, and it is always in the range of 0 to 100.
SummaryNonLabor CostVariance	double	x	the Baseline Planned Nonlabor Cost - At Completio

			n Nonla Cost.	abor
SummaryNonLabor UnitsPercentCompl ete	double	X	The percent comple of units all nonlabo resource for the EPS. Comput as Actu Nonlab Cost / A Comple n Nonla Cost * * Always the rand 0 to 100	te for cr ces ted al or At etio abor 100. in ge
SummaryNonLabor UnitsVariance	double	X	The differen betwee baselin nonlabo units ar at comple non lab units. Calcula as Baselin nonlabo units - a comple nonlabo units.	n e or nd tion or ted e or at tion
SummaryNotStarte dActivityCount	int	x	the number activitie that are current not star	es e ly
SummaryPerforma	double	Х	the per- comple	

ncePercentComplet eByCost			of performan ce for all labor resources, nonlabor resources, and expenses. Computed as Earned Value / Budget At Completio n * 100. Always in the range
SummaryPerforma ncePercentComplet eByLaborUnits	double	x	0 to 100. the percent complete of performan ce for all labor resources. Computed as earned value labor units / baseline labor units * 100. Always in the range 0 to 100.
SummaryPlannedC ost	double	x	The sum of all planned expense, non labor, labor, and material costs in the EPS.
SummaryPlannedD uration	double	x	The total working days between

			planned start and finish dates in the EPS.
SummaryPlannedE xpenseCost	double	x	The sum of all planned expense costs in the EPS.
SummaryPlannedFi nishDate	dateTime	x	The latest planned finish date of all activities in the EPS.
SummaryPlannedL aborCost	double	x	The sum of all planned labor costs in the EPS.
SummaryPlannedL aborUnits	double	x	The sum of all planned labor units in the EPS.
SummaryPlannedM aterialCost	double	x	The sum of all planned material costs in the EPS.
SummaryPlannedN onLaborCost	double	x	The sum of all planned non labor costs in the EPS.
SummaryPlannedN onLaborUnits	double	x	The sum of all planned non labor units in the EPS.
SummaryPlannedS tartDate	dateTime	x	The earliest planned start date of all

			activities i the EPS.
SummaryPlannedV alueByCost	double	X	the Budge at Completic n * Schedule % Complete The Schedule % Complete specifies how much of the activity's baseline duration has been completed so far. Budget at Completic n is computed from the primary baseline
SummaryPlannedV alueByLaborUnits	double	X	the portion of the baseline labor units that is scheduled to be completed as of the project data date. Computed as Baseline Labor Units * Schedule % Complete

			The Schedule % Complete specifies how much of the activity's baseline duration has been completed so far. The Baseline Labor Units is taken from the current baseline.
SummaryProgress FinishDate	dateTime	X	the date the activity is expected to be finished according to the progress made on the activity's work products. The expected finish date is entered manually by people familiar with progress of the activity's work products.
SummaryRemainin	double	х	The total working

gDuration			time from
			the EPS remaining start date to the remaining finish date.
SummaryRemainin gExpenseCost	double	x	The remaining costs for all project expenses associated with the activities in the EPS.
SummaryRemainin gFinishDate	dateTime	X	The date the resource is scheduled to finish the remaining work for the activity. This date is computed by the project scheduler but can be updated manually by the project manager. Before the activity is started, the remaining finish date is the same as the planned finish date.

SummaryRemainin gLaborCost	double	x	The remaining costs for all labor resources assigned to the activities. The remaining cost reflects the cost remaining
			for the EPS.
SummaryRemainin gLaborUnits	double	x	The remaining units for all labor resources assigned to the activities. The remaining units reflects the work remaining to be done for the EPS.
SummaryRemainin gMaterialCost	double	x	The remaining material costs for all project expenses associated with the activities in the EPS.
SummaryRemainin gNonLaborCost	double	x	The remaining nonlabor costs for

			all project expenses associated with the activities in the EPS.
SummaryRemainin gNonLaborUnits	double	X	The remaining units for all nonlabor resources assigned to the activities. The remaining units reflects the work remaining to be done for the EPS.
SummaryRemainin gStartDate	dateTime	x	The earliest remaining start of all activities assigned to the EPS.
SummaryRemainin gTotalCost	double	x	The sum of all remaining total costs in the EPS.
SummarySchedule PercentComplete	double	x	The measure that indicates how much of the EPS baseline duration has been completed so far.

		1	1 -
			Computed
			based on
			where the
			current
			data date
			falls
			between
			the
			activity's
			baseline
			start and
			finish
			dates. If
			the data
			date is
			earlier than
			the
			Baseline
			start, the
			schedule
			%
			complete
			is 0. If the
			data date
			is later
			than the
			Baseline
			finish, the
			schedule
			%
			complete
			is 100. The
			schedule
			%
			complete
			indicates
			how much
			of the EPS
			duration
			should be
			currently
			completed,
			relative to
			the
			selected
			baseline.
			the nercent
SummarySchedule	double	X	the percent
PercentCompleteB			complete

yLaborUnits			of units for all labor resources. Computed as Actual Labor Units / At Completio n Labor Units * 100. Always in the range 0 to 100.
SummarySchedule PerformanceIndex ByCost	double	x	the Earned Value divided by the Planned Value. A value less than 1 indicates that less work was actually performed than was scheduled.
SummarySchedule PerformanceIndex ByLaborUnits	double	x	the Earned Value Labor Units divided by Planned Value Labor Units.
SummarySchedule VarianceByCost	double	x	the Earned Value divided by the Planned Value. A negative value indicates

			that less work was actually performed than was scheduled.
SummarySchedule VarianceByLaborU nits	double	x	the Earned Value Labor Units minus the Planned Value Labor Units.
SummarySchedule VarianceIndex	double	X	The value that is calculated as the Schedule Variance Labor Units divided by Planned Value Labor Units.
SummarySchedule VarianceIndexByC ost	double	x	the Schedule Variance divided by the Planned Value.
SummarySchedule VarianceIndexByLa borUnits	double	x	the Schedule Variance Labor Units divided by the Planned Value Labor Units.

SummaryStartDate Variance	double	X	The duration between the start date in the current project and the baseline start date. Calculated as start date - baseline start date.
SummaryToCompl etePerformanceInd exByCost	double	x	the (Budget at Completio n - Earned Value) divided by (Estimate at Completio n - Actual Cost).
SummaryTotalCost Variance	double	x	The value that is calculated as baseline total cost - total cost.
SummaryTotalFloat	double	X	The amount of time the EPS can be delayed before delaying the project finish date. Total float can be computed as late start - early

			start or as late finish - early finish; this option can be set when running the project scheduler.
SummaryUnitsPerc entComplete	double	X	The percent complete of units for the resource assignmen ts in the EPS. Computed as Actual Units / At Complete Units * 100. Always in the range 0 to 100.
SummaryVariance AtCompletionByLa borUnits	double	x	the Baseline Planned Total Labor Units minus Estimate at Completio n Labor Units.
TotalBenefitPlan	double	x	The sum of the monthly benefit plan.
TotalBenefitPlanTal ly	double	x	The sum of the monthly

			benefit plan tally.
TotalFunding	double	x	The total amount of funding contributed to the project by your funding sources.
TotalSpendingPlan	double	x	The sum of the monthly spending plan.
TotalSpendingPlan Tally	double	x	The sum of the monthly spending plan tally.
UnallocatedBudget	double	x	The total current budget minus the distributed current budget.
UndistributedCurre ntVariance	double	x	The total spending plan minus the total spending plan tally.

LeanTask Service

Operations:

CreateLeanTask Operation (on page 196) ReadLeanTask Operation (on page 196) UpdateLeanTask Operation (on page 197) DeleteLeanTasks Operation (on page 197)

GetFieldLengthLeanTask Operation (on page 197)

WSDL: LeanTask.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/LeanTask/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/LeanTaskService?wsdl https://<hostname>:<port number>/p6ws/services/LeanTaskService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.leantask.LeanTaskService

Description:

Use lean tasks to integrate P6 with Oracle Primavera Cloud for lean task integration.

CreateLeanTask Operation

Description: Creates multiple LeanTask objects in the database. You can create up to 1000 LeanTask objects with a single call.

Service: LeanTask Service (on page 195)

Style: Document/literal wrapped

Input:

Message: CreateLeanTask

Elements: LeanTask elements that contain LeanTask Fields (on page 198) fields

Required fields:

LeanTaskObjectId

Output:

Message: CreateLeanTaskResponse Output: Zero to many ObjectId elements

ReadLeanTask Operation

Description: Reads LeanTask objects from the database.

Service: LeanTask Service (on page 195)

Style: Document/literal wrapped

Input:

Message: ReadLeanTask

Elements: One to many field names from the LeanTask Fields (on page 198) field list.

You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadLeanTaskResponse

Output: Zero to many LeanTask elements that contain *LeanTask Fields* (on page 198) fields.

UpdateLeanTask Operation

Description: Updates multiple LeanTask objects in the database. You can update up to 1000 LeanTask objects with a single call.

Service: LeanTask Service (on page 195)

Style: Document/literal wrapped

Input:

Message: UpdateLeanTask

Elements: LeanTask elements that contain *LeanTask Fields* (on page 198) fields. Required fields: The ObjectId must be specified.

Output:

Message: UpdateLeanTaskResponse Output: boolean

DeleteLeanTasks Operation

Description: Deletes multiple LeanTask objects in the database. You can delete up to 1000 LeanTask objects with a single call.

Service: LeanTask Service (on page 195)

Style: Document/literal wrapped

Input:

Message: DeleteLeanTask Elements: One to many ObjectId elements

Output:

Message: DeleteLeanTaskResponse Output: boolean

GetFieldLengthLeanTask Operation

Description: Returns length of variable character fields for a BO.

Service: LeanTask Service (on page 195)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthLeanTask Elements: FieldLength

Output:

Message: GetFieldLengthLeanTaskResponse Elements: One to many FieldLengthLeanTask

LeanTask Fields

Field	Туре	Read Only	Filterable Orderable	Description
ActivityId	string restricted to maxLength(4 0)		x	The short ID that uniquely identifies the activity to which the lean task is assigned.
ActivityNam e	string restricted to maxLength(1 20)		x	The name of the activity to which the lean task is assigned.
ActivityObje ctId	int		x	The unique ID of the activity to which the lean task is assigned.
Company	string		x	The company associated with the lean task in Oracle Primavera Cloud.
CompletedD ate	dateTime		x	The date the lean task was completed.
CreateDate	dateTime	x	x	The date the lean task was created.
CreateUser	string restricted to maxLength(2 55)	x	x	The name of the user that created this lean task.

DueDate	dateTime		x	The date the lean task is due.
Duration	double		х	Number of days required for task to complete
Flag	boolean		x	The indication of whether the lean task is considered high importance.
IsBaseline	boolean		x	Determines whether the object is associated with a baseline (true) or a project (false).
IsOverdue	boolean		x	Shows whether the due date for the lean task is earlier than the current date.
IsTemplate	boolean	x	x	Determines whether the object is associated with a template project in Oracle Primavera Cloud.
IsUseOnlyW orkDays	boolean		x	Determines whether the object is set to use only working days in Oracle Primavera Cloud.
LastUpdate Date	dateTime	x	x	The date the lean task was last updated.
LastUpdate User	string restricted to maxLength(2 55)	x	x	The name of the user that last updated this lean task.

	1	1	1	1
LeanTaskId	string restricted to maxLength(1 20)		x	The short ID that uniquely identifies the lean task.
Name	string restricted to maxLength(1 20)		x	The name of the lean task in Oracle Primavera Cloud.
ObjectId	int		x	The primary key of the lean task in the P6 EPPM database.
ProjectId	string restricted to maxLength(4 0)	x	x	The short ID that uniquely identifies the project to which the lean task is assigned.
ProjectObje ctId	int	x	x	The unique ID of the project to which the lean task is assigned.
ProposedDu eDate	dateTime		x	The proposed due date of the lean task in Oracle Primavera Cloud.
SequenceN umber	int		x	Denotes the creation order of lean tasks relative to each other.
StartDate	dateTime		x	The date the lean task was started or is due to start.
Status	string restricted to 'NEW' 'PENDING' 'COMMITTE D' 'COMPLETE D'		X	The status of the lean task in Oracle Primavera Cloud.

	string restricted to 'BOTH_NOT_ COMPLETE' 'TASK_COM			
StatusComp letion	PLETE_ACTI VITY_NOT' 'ACTIVITY_C OMPLETE_T ASK_NOT' 'BOTH_COM PLETE' 'NO_ACTIVIT Y'		x	The completion status of the lean task in Oracle Primavera Cloud.
StatusDates	string restricted to 'OUTSIDE_A CTIVITY' 'INSIDE_ACT IVITY' 'NO_ACTIVIT Y'		X	A comparison of the dates of the lean task and the activity to which it is assigned.
TaskType	string restricted to 'TASK' 'TASK_MILE STONE'		x	The type of the lean task in Oracle Primavera Cloud.
WBSObjectI d	int	x	x	The unique ID of the WBS to which the lean task is assigned.

Relationship Service

Operations:

CreateRelationships Operation (on page 202) ReadRelationships Operation (on page 202) UpdateRelationships Operation (on page 203) DeleteRelationships Operation (on page 203) GetFieldLengthRelationship Operation (on page 204)

WSDL: Relationship.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/Relationship/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/RelationshipService?wsdl https://<hostname>:<port number>/p6ws/services/RelationshipService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.relationship.RelationshipService

Description:

A relationship defines how an activity relates to the start or finish of another activity or assignment. Add relationships between activities to create a path through your schedule from the first activity to the last activity. These relationships, which form the logic of the project network, are used together with activity durations to determine schedule dates. An activity can have as many relationships as necessary to model the work that must be done. You can also identify relationships between activities that are in different projects; this type of relationship is referred to as an external relationship.

CreateRelationships Operation

Description: Creates multiple Relationship objects in the database. You can create up to 1000 Relationship objects with a single call.

Service: Relationship Service (on page 201)

Style: Document/literal wrapped

Input:

Message: CreateRelationships

Elements: Relationship elements that contain *Relationship Fields* (on page 204) fields

Required fields:

- SuccessorActivityObjectId
- PredecessorActivityObjectId

Output:

Message: CreateRelationshipsResponse Output: Zero to many ObjectId elements

ReadRelationships Operation

Description: Reads Relationship objects from the database.

Service: Relationship Service (on page 201)

Style: Document/literal wrapped

Input:

Message: ReadRelationships

Elements: One to many field names from the *Relationship Fields* (on page 204) field list.

You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadRelationshipsResponse

Output: Zero to many Relationship elements that contain *Relationship Fields* (on page 204) fields.

UpdateRelationships Operation

Description: Updates multiple Relationship objects in the database. You can update up to 1000 Relationship objects with a single call.

Service: Relationship Service (on page 201)

Style: Document/literal wrapped

Input:

Message: UpdateRelationships

Elements: Relationship elements that contain *Relationship Fields* (on page 204) fields. Required fields: The ObjectId must be specified.

Output:

Message: UpdateRelationshipsResponse Output: boolean

DeleteRelationships Operation

Description: Deletes multiple Relationship objects in the database. You can delete up to 1000 Relationship objects with a single call.

Service: Relationship Service (on page 201)

Style: Document/literal wrapped

Input:

Message: DeleteRelationships

Elements: One to many ObjectId elements

Output:

Message: DeleteRelationshipsResponse Output: boolean

GetFieldLengthRelationship Operation

Description: Returns length of variable character fields for a BO.

Service: Relationship Service (on page 201)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthRelationship Elements: FieldLength

Output:

Message: GetFieldLengthRelationshipResponse Elements: One to many FieldLengthRelationships.

Relationship Fields

Field	Туре	Read Only	Filterable Orderable	Description
Aref	dateTime	X		The Adjusted Relationship Early Finish where one of the activities of the relationship is in a project which is not present in this database.
Arls	dateTime	x		The Adjusted Relationship Late Start where one of the activities of the relationship is in a project which is not present in this database.
Comments	string restricted to maxLength(2 50)			The comments entered for the dependency.
CreateDate	dateTime	х	х	The date this dependency was

				created.
CreateUser	string restricted to maxLength(2 55)	x	x	The name of the user that created this dependency.
Driving	boolean	x		The flag indicating if this relationship determines the early dates for the successor activity.
IsPredecesso rBaseline	boolean	x	x	The flag indicating if the predecessor activity is related to a Project or Baseline
IsPredecesso rTemplate	boolean	x	x	The flag ndicating if this business object is related to a template Project.
IsSuccessorB aseline	boolean	x	x	The YesNo value indicating if the successor activity is related to a Project or Baseline
IsSuccessorT emplate	boolean	x	x	The boolean value indicating if this business object is related to a template Project.
Lag	double		X	The time lag of the relationship. This is the time lag between the predecessor activity's start or finish date and the successor activity's start or finish date, depending on the relationship type. The time lag is based on the

				successor activity's calendar. This value is specified by the project manager and is used by the project scheduler when scheduling activities.
LastUpdateD ate	dateTime	x	x	The date this dependency was last updated.
LastUpdateUs er	string restricted to maxLength(2 55)	x	x	The name of the user that last updated this dependency.
ObjectId	int		x	The unique ID generated by the system.
PredecessorA ctivityId	string	x		The activity ID of the predecessor activity.
PredecessorA ctivityName	string	x		The name of the predecessor activity.
PredecessorA ctivityObjectId	int		x	The unique ID of the predecessor activity.

PredecessorA ctivityType	string restricted to 'Task Dependent' 'Resource Dependent' 'Level of Effort' 'Start Milestone' 'Finish Milestone' 'WBS Summary'	X	X	The type of the predecessor activity, either 'Task Dependent', 'Resource Dependent', 'Level of Effort', or 'Milestone'.
PredecessorF inishDate	dateTime			The finish date of the predecessor activity.
PredecessorP rojectId	string	x		The project ID of the project that owns the predecessor activity.
PredecessorP rojectObjectId	int	x	x	The unique ID of the project that owns the predecessor activity.
PredecessorS tartDate	dateTime			The start date of the predecessor activity.
Predecessor WbsName	string restricted to maxLength(1 00)			The name of each WBS element in the predecessor activity.
SuccessorActi vityId	string	x		The activity ID of the successor activity.
SuccessorActi vityName	string	x		The name of the successor activity.

SuccessorActi vityObjectId	int		х	The unique ID of the successor activity.
SuccessorActi vityType	string restricted to 'Task Dependent' 'Resource Dependent' 'Level of Effort' 'Start Milestone' 'Finish Milestone' 'WBS Summary'	x	X	The type of the successor activity, either 'Task Dependent', 'Resource Dependent', 'Level of Effort', or 'Milestone'.
SuccessorFini shDate				The finish date of the successor activity.
SuccessorPro jectId	string	x		The project ID of the project that owns the successor activity.
SuccessorPro jectObjectId	int	x	x	The unique ID of the project that owns the successor activity.
SuccessorSta rtDate	dateTime			The start date of the successor activity.
SuccessorWb sName	string restricted to maxLength(1 00)			The name of each WBS element in the successor activity.

string restricted to 'Finish to Start' 'Finish to Finish' 'Start to Start' 'Start to Finish'	X	The type of relationship: 'Finish to Start', 'Finish to Finish', 'Start to Start', or 'Start to Finish'.
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ResourceAssignment Service

Operations:

CreateResourceAssignments Operation (on page 210) ReadResourceAssignments Operation (on page 210) UpdateResourceAssignments Operation (on page 211) DeleteResourceAssignments Operation (on page 211) ReadAllResourceAssignmentsByWBS Operation (on page 212) GetFieldLengthResourceAssignment Operation (on page 211)

WSDL: ResourceAssignment.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/ResourceAssignment/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/ResourceAssignmentService?wsdl https://<hostname>:<port number>/p6ws/services/ResourceAssignmentService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.resourceassignment.ResourceAssignmentService

Description:

Resource assignments track the work of resources or roles that are performing various activities. A resource may be assigned to the same activity more than once, but performing in different roles.

The ResourceAssignment services supports user defined fields (UDFs). Use the UDFValue Service to assign UDFs.

CreateResourceAssignments Operation

Description: Creates multiple ResourceAssignment objects in the database. You can create up to 1000 ResourceAssignment objects with a single call.

Service: ResourceAssignment Service (on page 209)

Style: Document/literal wrapped

Input:

Message: CreateResourceAssignments

Elements: ResourceAssignment elements that contain *ResourceAssignment Fields* (on page 212) fields

Required fields: The following fields are required when creating the ResourceAssignment object:

ActivityObjectId

and at least one field from the following list:

- ResourceObjectId
- RoleObjectId

Output:

Message: CreateResourceAssignmentsResponse Output: Zero to many ObjectId elements

ReadResourceAssignments Operation

Description: Reads ResourceAssignment objects from the database.

Service: ResourceAssignment Service (on page 209)

Style: Document/literal wrapped

Input:

Message: ReadResourceAssignments

Elements: One to many field names from the *ResourceAssignment Fields* (on page 212) field list.

You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause.

Output:

Message: ReadResourceAssignmentsResponse

Output: Zero to many ResourceAssignment elements that contain *ResourceAssignment Fields* (on page 212) fields.

UpdateResourceAssignments Operation

Description: Updates multiple ResourceAssignment objects in the database. You can update up to 1000 ResourceAssignment objects with a single call.

Service: ResourceAssignment Service (on page 209)

Style: Document/literal wrapped

Input:

Message: UpdateResourceAssignments

Elements: ResourceAssignment elements that contain *ResourceAssignment Fields* (on page 212) fields.

Required fields: The ObjectId must be specified.

Output:

Message: UpdateResourceAssignmentsResponse Output: boolean

DeleteResourceAssignments Operation

Description: Deletes multiple ResourceAssignment objects in the database. You can delete up to 1000 ResourceAssignment objects with a single call.

Service: ResourceAssignment Service (on page 209)

Style: Document/literal wrapped

Input:

Message: DeleteResourceAssignments

Elements: One to many ObjectId elements

Output:

Message: DeleteResourceAssignmentsResponse Output: boolean

GetFieldLengthResourceAssignment Operation

Description: Returns length of variable character fields for a BO.

Service: ResourceAssignment Service (on page 209)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthResourceAssignment Elements: FieldLength

Output:

Message: getFieldLengthResourceAssignmentResponse

Elements: One to many FieldLengthResourceAssignments.

ReadAllResourceAssignmentsByWBS Operation

Description: Reads ResourceAssignment objects from the database.

Service: ResourceAssignment Service (on page 209)

Style: Document/literal wrapped

Input:

Message: ReadAllResourceAssignmentsByWBS Elements:

- One WBSObjectId element
- One to many field names from the *ResourceAssignment Fields* (on page 212) field list You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadAllResourceAssignmentsByWBSResponse

Output: Zero to many ResourceAssignment elements that contain *ResourceAssignment Fields* (on page 212) fields.

Note: The Spread element is not included in the response.

ResourceAssignment Fields

Field	Туре	Rea d Only	Filter able Order able	Description
ActivityActual Finish	dateTime			The date on which the activity was completed.
ActivityId	string restricted to maxLength(40)	x	x	The short ID that uniquely identifies the activity within the project.
ActivityName	string restricted to maxLength(120)	х	х	The name of the activity. The activity name does not have to be unique.

Field	Туре	Rea d Only	Filter able Order able	Description
ActivityObjectI d	int		x	The unique ID of the activity to which the resource is assigned.
ActivityType	string restricted to 'Task Dependent' 'Resource Dependent' 'Level of Effort' 'Start Milestone' 'Finish Milestone' 'WBS Summary'	x	x	Determines how duration and schedule dates are calculated for an activity.
ActualCost	double		x	The actual non-overtime plus overtime cost for the resource assignment on the activity. Computed as actual cost = actual regular cost + actual overtime cost.
ActualCurve	string		x	The curve applied to Actual Units for the resource assignment.
ActualDuratio n	double	x		The actual duration for the resource assignment on the activity.
ActualFinishD ate	dateTime		x	The date the resource actually finished working on the activity.
ActualOvertim eCost	double		x	The actual overtime cost for the resource assignment on the activity. Computed as actual overtime cost = actual overtime units * cost per time * overtime factor.
ActualOvertim eUnits	double		x	The actual overtime units worked by the resource on this activity. This value is computed from timesheets when project actuals are applied or may be entered

Field	Туре	Rea d Only	Filter able Order able	Description
				directly by the project manager.
ActualRegular Cost	double		x	The actual non-overtime cost for the resource assignment on the activity. Computed as actual regular cost = actual regular units * cost per time.
ActualRegular Units	double		x	The actual non-overtime units worked by the resource on this activity. This value is computed from timesheets when project actuals are applied or may be entered directly by the project manager.
ActualStartDa te	dateTime		x	The date the resource actually started working on the activity.
ActualThisPer iodCost	double		x	The actual this period cost (will be labor or nonlabor).
ActualThisPer iodUnits	double		x	The actual this period units (hours) (will be labor or nonlabor).
ActualUnits	double		x	The actual non-overtime plus overtime units worked by the resource on this activity. This value is computed from timesheets when project actuals are applied or may be entered directly by the project manager. Computed as actual units = actual regular units + actual overtime units.
AssignmentP ercentComple te	double			The percent complete of the resource assignment. Required for IPMDAR. If the Activity or Assignment is not

Field	Туре	Rea d Only	Filter able Order able	Description
				 started, the Assignment Percent Complete is 0%. If the Activity or Assignment is complete: If the Actual Units is zero, Assignment Percent Complete is 0%. If the Actual Units is greater than zero, Assignment Percent Complete is 100% If the Activity or Assignment is in progress, the calculation depends on the activity percent complete type. Units Percent Complete: Assignment Percent Complete = Assignment level Actual Units / (Actual Units + Remaining Units) = Assignment level Actual Units / (At Completion Units) Duration Percent Complete: Assignment level Planned Duration – Remaining Duration) / Planned Duration Physical Percent Complete: Assignment Percent Complete = Activity % Complete
AtCompletion Cost	double		х	The sum of the actual plus remaining costs for the resource assignment on the activity.
AtCompletion Duration	double	x		the total working time from the activity's current start date to the current finish date. The current start date is the planned start date until the activity is started, then it is the actual start date. The current finish date is the activity planned finish date while the activity is not started, the

Field	Туре	Rea d Only	Filter able Order able	Description
				remaining finish date while the activity is in progress, and the actual finish date once the activity is completed. The total working time is computed using the activity's calendar.
AtCompletion Units	double		х	The sum of the actual plus remaining units for the resource assignment on the activity.
AutoCompute Actuals	boolean	x	x	The option that determines whether the activity's actual and remaining units, start date, finish date, and percent complete are computed automatically using the planned dates, planned units and the schedule percent complete. If this option is selected, the actual/remaining units and actual dates are automatically updated when project actuals are applied. Use this option to assume that all work for the activity proceeds according to plan.
BudgetAtCom pletionCosts	double			The planned total cost through to the completion of the assignment. Calculated as Planned Cost. Required for IPMDAR.
BudgetAtCom pletionUnits	double			The planned total units through to the completion of the assignment. Calculated as Planned Units. Required for IPMDAR.
CBSCode	string			CBS Code.
CBSId	int			The unique Id of CBS.
CalendarNam e	string	x		The name of the calendar.

Field	Туре	Rea d Only	Filter able Order able	Description
CalendarObje ctId	int	x	х	The unique ID generated by the system for the calendar associated with the resource assignment.
CostAccountl d	string restricted to maxLength(40)	x	х	The id of associated cost account.
CostAccount Name	string restricted to maxLength(100)	x	х	The name of the associated cost account.
CostAccount ObjectId	int		х	The unique ID of the cost account associated with this resource assignment.
CreateDate	dateTime	x	х	The date this assignment was created.
CreateUser	string	x	х	The name of the user that created this assignment.
DrivingActivity DatesFlag	boolean		х	The flag indicating whether new resource/role assignments drive activity dates, by default.
DurationPerc entComplete	double	x		The duration percent complete for the assignment. Required for IPMDAR.
EstimateToCo mpletionCosts	double	x		The estimated cost to complete the assignment. Calculated according to the Technique for computing estimate to complete (ETC) for the WBS. The Project baseline is used for this calculation. Required for IPMDAR.
EstimateToCo mpletionUnits	double	x	x	The estimated units to complete the assignment. Calculated according to the Technique for computing estimate to complete (ETC) for the WBS. The Project baseline is used for this

Field	Туре	Rea d Only	Filter able Order able	Description calculation. Required for IPMDAR.
FinancialPerio dTmpIId	int		x	The unique identifier of the financial period calendar assigned to the project.
FinishDate	dateTime			The finish date of the resource assignment on the activity. Set to the remaining finish date until the activity is completed, then set to the actual finish date.
GUID	string restricted to pattern '\{[0-9a-fA-F]{8}-[0-9a-f A-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA- F]{12}\} '		x	The globally unique ID generated by the system.
HasFutureBu cketData	boolean	х	х	The flag that indicates whether the assignment has future bucket data.
IsActive	boolean	x	x	The flag that indicates whether this resource assignment is active.
IsActivityFlag ged	boolean		F	The flag that indicates whether the resource who is assigned to the activity assignment has flagged the activity as important to the resource.
IsBaseline	boolean	x	x	The boolean value indicating if this business object is related to a Project or Baseline
IsCostUnitsLi nked	boolean		х	The flag that determines whether or not cost should be calculated based on units.
IsOvertimeAll owed	boolean	х	х	The flag that indicates whether the resource is allowed to log

Field	Туре	Rea d Only	Filter able Order able	Description
				overtime nours.
IsPrimaryRes ource	boolean			The flag that indicates whether this resource is the activity's primary resource.
IsTemplate	boolean	x	x	The boolean value indicating if this business object is related to a template Project.
LastUpdateD ate	dateTime	x	x	The date this assignment was last updated.
LastUpdateUs er	string restricted to maxLength(255)	x	х	The name of the user that last updated this assignment.
ObjectId	int		х	The unique ID generated by the system.
OvertimeFact or	double restricted to minInclusive(0.0) maxInclusive(10.0)		x	The overtime factor used to compute the overtime price for the resource assignment on this activity. Overtime price = standard price * overtime factor. When the resource is assigned to the activity, the resource's overtime factor is copied to the assignment. The assignment overtime factor is refreshed from the resource value when resource prices are synchronized for the project.
PendingActua IOvertimeUnit s	double	x	x	The actual overtime units worked by the resource on this activity. This value is computed from values entered by a user in the Progress Reporter application and is applied to the resource assignment when the Apply Actuals service is invoked.

Field	Туре	Rea d Only	Filter able Order able	Description
PendingActua IRegularUnits	double	x	x	The actual nonovertime units worked by the resource on this activity. This value is computed from values entered by a user in the Progress Reporter application and is applied to the resource assignment when the Apply Actuals service is invoked.
PendingPerce ntComplete	double		x	The estimate of the percentage of the resource's units of work completed on this activity. The pending percent complete is entered by each resource using Timesheets. This value is used to compute the resource's remaining units for the activity when project actuals are applied. The project manager specifies whether resources update their percent complete or remaining units for each project.
PendingRema iningUnits	double		x	The estimate of the resource's remaining units on this activity. The pending remaining units is entered by each resource using Timesheets. This value is copied to the resource's remaining units for the activity when project actuals are applied. The project manager specifies whether resources update their percent complete or remaining units for each project.
PercentCompl ete	double	x		The percentage complete for the assignment. Required for IPMDAR.

Field	Туре	Rea d Only	Filter able Order able	Description
PercentComp eleType	string restricted to 'Physical' 'Duration' 'Units' 'Scope'			The percent complete type for the assignment. Required for IPMDAR.
PlannedCost	double		x	The planned cost for the resource assignment on the activity. Computed as planned cost = planned units * price per time. This field is named BudgetedCost in Primavera's Engineering & Construction and Maintenance & Turnaround solutions.
PlannedCurve	string		х	The curve applied to Planned Units for the resource assignment.
PlannedDurati on	double			The planned working time for the resource assignment on the activity, from the resource's planned start date to the planned finish date. This field is named BudgetedDuration in Primavera's Engineering & Construction and Maintenance & Turnaround solutions.
PlannedFinish Date	dateTime		x	The date the resource is scheduled to finish working on the activity. This date is computed by the project scheduler but can be updated manually by the project manager. This date is not changed by the project scheduler after the activity has been started. This is the finish date that Timesheets users follow and schedule variance is measured against.

Field	Туре	Rea d Only	Filter able Order able	Description
PlannedLag	double restricted to minInclusive(0.0)		x	The planned time lag between the activity's planned start date and the resource's planned start date on the activity. If the resource is planned to start work when the activity is planned to start, the planned lag is zero. This field is named BudgetedLag in Primavera's Engineering & Construction and Maintenance & Turnaround solutions.
PlannedStart Date	dateTime		x	The date the resource is scheduled to begin working on the activity. This date is computed by the project scheduler but can be updated manually by the project manager. This date is not changed by the project scheduler after the activity has been started. This is the start date that Timesheets users follow and schedule variance is measured against.
PlannedUnits	double		х	The planned units of work for the resource assignment on the activity. This field is named BudgetedUnits in Primavera's Engineering & Construction and Maintenance & Turnaround solutions.
PlannedUnits PerTime	double		x	The planned units per time at which the resource is to perform work on this activity. For example, a person assigned full time would perform 8 hours of work per day. A department of five people may perform at 5 days per day. This field is named BudgetedUnitsPerTime in Primavera's Engineering & Construction and Maintenance & Turnaround solutions.

Field	Туре	Rea d Only	Filter able Order able	Description
PricePerUnit	double restricted to minInclusive(0.0)			The price per time for the resource on this activity. This price is used to compute the resource's cost for the activity. When the resource is assigned to the activity, the resource's price is copied to the assignment based on the effective date of the price and the activity start date. The assignment price is refreshed whenever resource prices are synchronized for the project.
PriorActualOv ertimeUnits	double	x	x	The difference between the pending quantity value and the actual quantity value for overtime before applying the new actual value.
PriorActualRe gularUnits	double	x	x	The difference between the pending quantity value and the actual quantity value before applying the new actual value.
Proficiency	string restricted to '1 - Master' '2 - Expert' '3 - Skilled' '4 - Proficient' '5 - Inexperienced'			The skill level that is associated with the role. The values are 'Master', 'Expert', 'Skilled', 'Proficient', and 'Inexperienced'. If the current user does not have the ViewResourceRoleProficiency global security privilege, this field may not be accessed.
ProjectFlag	string	x	х	Indicates if this WBS node is a Project/EPS node.
ProjectId	string restricted to maxLength(40)	x	х	The short code that uniquely identifies the project.
ProjectName	string	x	х	The name of the associated project.
ProjectObjectI d	int	х	х	The unique ID of the associated project.

Field	Туре	Rea d Only	Filter able Order able	Description
ProjectProject Flag	string	x	х	Indicates if this Project/EPS nose is a Project or EPS.
RateSource	string restricted to 'Resource' 'Role' 'Override'		x	The value that indicates which price/unit will be used to calculate costs for the assignment, such as 'Resource', 'Role', and 'Override'. When a resource and only a resource is assigned to an activity, the rate source will automatically equal 'Resource'. When a role and only a role is assigned to an activity, the rate source will automatically equal 'Role'. When both a resource and role are assigned to the activity, the rate source can be either 'Resource' or 'Role' determined by the RateSourcePreference. In any case, the 'Override' value allows you to specify any other price/unit.
RateType	string restricted to 'Price / Unit' 'Price / Unit 2' 'Price / Unit 3' 'Price / Unit 4' 'Price / Unit 5'		x	The rate type that determines which of the five prices specified for the resource will be used to calculate the cost for the resource assignment. Valid values are 'Price / Unit', 'Price / Unit2', 'Price / Unit3', 'Price / Unit4', 'Price / Unit5', and 'None'.
RemainingCo st	double		x	The remaining cost for the resource assignment on the activity. Computed as remaining cost = remaining units * cost per time.
RemainingCu rve	string		х	The curve applied to Remaining Units for the resource assignment.

Field	Туре	Rea d Only	Filter able Order able	Description
RemainingDu ration	double restricted to minInclusive(0.0)			The remaining duration of the resource assignment. The remaining duration is the remaining working time for the resource assignment on the activity, from the resource's remaining start date to the remaining finish date. The remaining working time is computed using the calendar determined by the activity Type. Resource Dependent activities use the resource's calendar, other activity types use the activity's calendar. Before the activity is started, the remaining duration is the same as the Original duration. After the activity is completed, the remaining duration is zero.
RemainingFin ishDate	dateTime		x	The date the resource is scheduled to finish the remaining work for the activity. This date is computed by the project scheduler but can be updated manually by the project manager. Before the activity is started, the remaining finish date is the same as the planned finish date.
RemainingLa g	double restricted to minInclusive(0.0)			The time lag between the activity's remaining start date and the resource's remaining start date on the activity. If the resource's remaining work starts on the activity's remaining start date, the lag is zero. Before the activity is started, the remaining lag is the same as the planned lag.
RemainingLat eFinishDate	dateTime	х	х	The remaining late finish date calculated by the scheduler.

		r	r	,
Field	Туре	Rea d Only	Filter able Order able	Description
RemainingLat eStartDate	dateTime	x	x	The remaining late start date calculated by the scheduler.
RemainingSta rtDate	dateTime		x	The date the resource is scheduled to begin the remaining work for the activity. This date is computed by the project scheduler but can be updated manually by the project manager. Before the activity is started, the remaining start date is the same as the planned start date.
RemainingUni ts	double		x	The remaining units of work to be performed by this resource on this activity. Before the activity is started, the remaining units are the same as the planned units. After the activity is completed, the remaining units are zero.
RemainingUni tsPerTime	double		x	The units per time at which the resource will be performing work on the remaining portion of this activity. For example, a person assigned full time would perform 8 hours of work per day. A department of five people may perform at 5 days per day.
ResourceCale ndarName	string	x	x	The name of the calendar for the resource.
ResourceCur veName	string restricted to maxLength(60)	x	x	The name of the resource curve that determines how resources and costs are distributed over time for this activity.
ResourceCur veObjectId	int		x	The unique ID of the resource curve.

Field	Туре	Rea d Only	Filter able Order able	Description
Resourceld	string restricted to maxLength(255)	x	x	The short code that uniquely identifies the resource.
ResourceNa me	string restricted to maxLength(255)	x	х	The name of the resource.
ResourceObj ectId	int		x	The unique ID of the associated resource.
ResourceTyp e	string restricted to 'Labor' 'Nonlabor' 'Material'		х	The resource type: "Labor", "Nonlabor", or "Material".
ReviewRequir ed	+			Determines if all new activities added to the project require approval.
RoleId	string restricted to maxLength(40)	x	x	The short code that uniquely identifies the role.
RoleName	string restricted to maxLength(100)	x	x	The name of the role. The role name uniquely identifies the role.
RoleObjectId	int		x	The unique ID of the role the resource is performing on this activity. A resource may be assigned to the same activity more than once, performing different roles. The project manager controls whether the same resource can be assigned to an activity more than once.
RoleShortNa me	string restricted to maxLength(40)		x	The short code that uniquely identifies a role.

Field	Туре	Rea d	Filter able Order	Description
StaffedRemai ningCost	double	Only X	able	The time distribution of the resource's remaining cost for resource assignments that have filled a role.
StaffedRemai ningUnits	double	x		The time distribution of the resource's remaining units for resource assignments that have filled a role.
StartDate	dateTime			The start date of the resource assignment on the activity. Set to the remaining start date until the activity is started, then set to the actual start date.
StatusCode	string restricted to 'Planned' 'Active' 'Inactive' 'What-If' 'Requested' 'Template'	x	x	The project status, either 'Planned', 'Active', 'Inactive', 'What-If', 'Requested', or 'Template'.
TotalPastPeri odCost	double			The total stored period cost for each assignment.
TotalPastPeri odUnits	double			The total stored period units for each assignment.
UnitsPercent Complete	double			The percent complete of units for the resource assignment on the activity. Computed as actual units / at completion units * 100. Always in the range 0 to 100.
UnreadComm entCount	int	x		The total number of unread comments on this activity for a user.
UnstaffedRe mainingCost	double	x		The time distribution of the resource's remaining cost for resource assignments that have not filled a role.

Field	Туре	Rea d Only	Filter able Order able	Description
UnstaffedRe mainingUnits	double	x		The time distribution of the resource's remaining units for resource assignments that have not filled a role.
WBSNamePa th string X Names. WBŚ N order from pare hierarchical lev by dots. For ex WBS_Name_1		The hierarchy of the parent WBS Names. WBS Names are listed in order from parent to child and hierarchical levels are separated by dots. For example: WBS_Name_1A.WBS_Name_2A. WBS_Name_3A		
WBSObjectId	int	х	х	The unique ID of the WBS for the activity.
UDF	UDFAssignmentType See UDFAssignment Table below.			
Spread	ResourceAssignmentS preadType See ResourceAssignmentS preadType Table below.			
ResourceReq uest	ResourceRequestTyp e See the ResourceRequest table below			The resource request used as a search template to search for a qualified resource.

UDFAssignment Table

TypeObjectl d	int

CodeObjectI d	int
CostValue	double
IntegerValu e	int
IndicatorVal ue	string restricted to 'None' 'Red' 'Yellow' 'Green' 'Blue'
DoubleValu e	double
TextValue	string
StartDateVa lue	dateTime
FinishDateV alue	dateTime

ResourceAssignmentSpreadType Table

StartDate	dateTime
EndDate	dateTime

PeriodType	string restricted to Hour Day Week Month Quarter Year Financial Period
------------	---

Period Table

StartDate	dateTime
EndDate	dateTime
ActualOvertimeUnits	double
CumulativeActualOverti meUnits	double
ActualRegularUnits	double
CumulativeActualRegula rUnits	double
AcutalUnits	double
CumulativeActualUnits	double
AtCompletionUnits	double
CumulativeAtCompletion Units	double

PlannedUnits	double
CumulativePlannedUnits	double
RemainingLateUnits	double
CumulativeRemainingLat eUnits	double
RemainingUnits	double
CumulativeRemainingUn its	double
StaffedRemainingLateUn its	double
CumulativeStaffedRemai ningLateUnits	double
StaffedRemainingUnits	double
CumulativeStaffedRemai ningUnits	double
UnstaffedRemainingLate Units	double
CumulativeUnstaffedRe mainingLateUnits	double
UnstaffedRemainingUnit s	double

CumulativeUnstaffedRe mainingUnits	double
ActualCost	double
CumulativeActualCost	double
ActualOvertimeCost	double
CumulativeActualOverti meCost	double
ActualRegularCost	double
CumulativeActualRegula rCost	double
AtCompletionCost	double
CumulativeAtCompletion Cost	double
PlannedCost	double
CumulativePlannedCost	double
RemainingCost	double
CumulativeRemainingCo st	double
RemainingLateCost	double

CumulativeRemainingLat eCost	double
StaffedRemainingCost	double
CumulativeStaffedRemai ningCost	double
StaffedRemainingLateCo st	double
CumulativeStaffedRemai ningLateCost	double
UnstaffedRemainingCost	double
CumulativeUnstaffedRe mainingCost	double
UnstaffedRemainingLate Cost	double
CumulativeUnstaffedRe mainingLateCost	double

ResourceRequest Table

FinishDate	dateTime
MatchAllCriteria	boolean
Name	string
RequestedUnits	double

SequenceNumber	int	
ShowOnlyLaborRe sources	boolean	
ShowOverallocate dResources	boolean	
SortResultsByAvail ability	boolean	
StartDate	dateTime	
UseActivityDates	boolean	
ResourceRequest Criterion	 CriterionType string restricted to 'Primary Role' 'Role' 'Resource' 'Resource Code' Proficiency string restricted to '1 - Master' '2 - Expert' '3 - Skilled' '4 - Proficient' '5 - Inexperienced' ValueObjectId int 	

ResourceAssignmentCodeAssignment Service

Operations:

CreateResourceAssignmentCodeAssignments Operation (on page 236) ReadResourceAssignmentCodeAssignments Operation (on page 237) UpdateResourceAssignmentCodeAssignments Operation (on page 237) DeleteResourceAssignmentCodeAssignments Operation (on page 237)

GetFieldLengthResourceAssignmentCodeAssignment Operation (on page 238)

WSDL: ResourceAssignmentCodeAssignment.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/ResourceAssignmentCodeAssignment/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/ResourceAssignmentCodeAssignmentService?wsdl https://<hostname>:<port number>/p6ws/services/ResourceAssignmentCodeAssignmentService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.resourceassignmentcodeassignment.ResourceAssignmentCodeAssignmentService

Description:

An assignment code assignment business object represents the assignment of an assignment code to a resource or role assignment. For each assignment code type, an assignment may have zero or one assignment codes assigned.

Note that this business object has a multi-part object ID; its object ID is a combination of its resource assignment object ID and its resource assignment code object ID.

CreateResourceAssignmentCodeAssignments Operation

Description: Creates multiple ResourceAssignmentCodeAssignment objects in the database. You can create up to 1000 ResourceAssignmentCodeAssignment objects with a single call.

Service: ResourceAssignmentCodeAssignment Service (on page 235)

Style: Document/literal wrapped

Input:

Message: CreateResourceAssignmentCodeAssignments Elements: ResourceAssignmentCodeAssignment elements that contain *ResourceAssignmentCodeAssignment Fields* (on page 238) fields

Required fields:

- ResourceAssignmentObjectId
- ResourceAssignmentCodeTypeObjectId

Output:

Message: CreateResourceAssignmentCodeAssignmentsResponse Output: Zero to many ObjectId elements

ReadResourceAssignmentCodeAssignments Operation

Description: Reads ResourceAssignmentCodeAssignment objects from the database.

Service: ResourceAssignmentCodeAssignment Service (on page 235)

Style: Document/literal wrapped

Input:

Message: ReadResourceAssignmentCodeAssignments

Elements: One to many field names from the *ResourceAssignmentCodeAssignment Fields* (on page 238) field list

You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadResourceAssignmentCodeAssignmentsResponse

Output: Zero to many ResourceAssignmentCodeAssignment elements that contain *ResourceAssignmentCodeAssignment Fields* (on page 238).

UpdateResourceAssignmentCodeAssignments Operation

Description: Updates multiple ResourceAssignmentCodeAssignment objects in the database. You can update up to 1000 ResourceAssignmentCodeAssignment objects with a single call.

Service: ResourceAssignmentCodeAssignment Service (on page 235)

Style: Document/literal wrapped

Input:

Message: UpdateResourceAssignmentCodeAssignments Elements: ResourceAssignmentCodeAssignment elements that contain *ResourceAssignmentCodeAssignment Fields* (on page 238) fields. Required fields: The ObjectId must be specified.

Output:

Message: UpdateResourceAssignmentCodeAssignmentsResponse Output: boolean

DeleteResourceAssignmentCodeAssignments Operation

Description: Deletes multiple ResourceAssignmentCodeAssignment objects in the database. You can delete up to 1000 ResourceAssignmentCodeAssignment objects with a single call.

Service: ResourceAssignmentCodeAssignment Service (on page 235)

Style: Document/literal wrapped

Input:

Message: DeleteResourceAssignmentCodeAssignments Elements: One to many ObjectId elements

Output:

Message: DeleteResourceAssignmentCodeAssignmentsResponse Output: boolean

GetFieldLengthResourceAssignmentCodeAssignment Operation

Description: Returns length of variable character fields for a BO.

Service: ResourceAssignmentCodeAssignment Service (on page 235)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthResourceAssignmentCodeAssignment Elements: FieldLength

Output:

Message: GetFieldLengthResourceAssignmentCodeAssignmentResponse Elements: One to many FieldLengthResourceAssignmentCodeAssignments.

ResourceAssignmentCodeAssignment Fields

Field	Туре	Read Only	Filterable Orderable	Description
CreateDate	dateTime	х	х	The date this code assignment was created.
CreateUser	string restricted to maxLength(2 55)	x	x	The name of the user that created this code assignment.
LastUpdateD ate	dateTime	x	x	The date this code assignment was last updated.
LastUpdateUs er	string restricted to maxLength(2 55)	x	x	The name of the user that last updated this code assignment.
ResourceAssi	string	Х	Х	The description of

gnmentCode Description	restricted to maxLength(1 00)			the associated code.
ResourceAssi gnmentCode ObjectId	int		x	The unique ID of the associated code.
ResourceAssi gnmentCodeT ypeName		x	x	The name of the parent code type.
ResourceAssi gnmentCodeT ypeObjectId	int	x	x	The unique ID of the parent code type.
ResourceAssi gnmentCode Value	string restricted to maxLength(4 0)	x	x	The value of the associated code.
ResourceAssi gnmentObject Id	int	x	x	The object ID of the associated resource or role assignment.

ResourceAssignmentCreate Service

Operations:

CreateResourceAssignmentCreate Operation (on page 240) ReadResourceAssignmentCreate Operation (on page 240) UpdateResourceAssignmentCreate Operation (on page 241) DeleteResourceAssignmentCreate Operation (on page 241) GetFieldLengthResourceAssignmentCreate Operation (on page 241)

WSDL: ResourceAssignmentCreate.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/ResourceAssignmentCreate/V1 Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/ResourceAssignmentCreateService?wsdl

https://<hostname>:<port number>/p6ws/services/ResourceAssignmentCreateService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.userfieldtitle.ResourceAssignmentCreateService

Description

Create resource assignments to track the work of resources or roles that perform various activities. The pending number of units, finish date, start date, and duration of a resource assignment may need approval to be overridden so that the resource assignment can reflect its actual values.

CreateResourceAssignmentCreate Operation

Description: Creates multiple ResourceAssignmentCreate objects in the database. You can create up to 1000 ResourceAssignmentCreate objects with a single call.

Service: ResourceAssignmentCreate Service (on page 239)

Style: Document/literal wrapped

Input:

Message: CreateResourceAssignmentCreates

Elements: ResourceAssignmentCreate elements that contain ResourceAssignmentCreate Fields fields

Required fields: The following fields are required when creating the ResourceAssignmentCreate object:

- ResourceObjectId
- ActivityObjectId

Output:

Message: CreateResourceAssignmentsResponse Output: Zero to many ObjectId elements

ReadResourceAssignmentCreate Operation

Description: Reads ResourceAssignmentCreate objects from the database.

Service: ResourceAssignmentCreate Service (on page 239)

Style: Document/literal wrapped

Input:

Message: ReadResourceAssignmentCreates

Elements: One to many field names from the ResourceAssignmentCreate Fields field list.

You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause.

Output:

Message: ReadResourceAssignmentCreatesResponse

Output: Zero to many ResourceAssignmentCreate elements that contain ResourceAssignmentCreate Fields fields.

UpdateResourceAssignmentCreate Operation

Description: Updates multiple ResourceAssignmentCreate objects in the database. You can update up to 1000 ResourceAssignmentCreate objects with a single call.

Service: ResourceAssignmentCreate Service (on page 239)

Style: Document/literal wrapped

Input:

Message: UpdateResourceAssignmentCreates Elements: ResourceAssignmentCreate elements that contain ResourceAssignmentCreate Fields fields.

Required fields: ResourceAssignmentCreateObjectId

Output:

Message: UpdateResourceAssignmentCreatesResponse Output: boolean

DeleteResourceAssignmentCreate Operation

Description: Deletes multiple ResourceAssignmentCreate objects in the database. You can delete up to 1000 ResourceAssignmentCreate objects with a single call.

Service: ResourceAssignmentCreate Service (on page 239)

Style: Document/literal wrapped

Input:

Message: DeleteResourceAssignmentCreates Elements: One to many ObjectId elements

Output:

Message: DeleteResourceAssignmentCreatesResponse Output: boolean

GetFieldLengthResourceAssignmentCreate Operation

Description: Returns length of variable character fields for a BO.

Service: ResourceAssignmentCreate Service (on page 239)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthResourceAssignmentCreate Elements: FieldLength

Output:

Message: GetFieldLengthResourceAssignmentCreateResponse Elements: One to many FieldLengthResourceAssignmentCreates.

ResourceAssignmentCreate Fields

Field	Туре	Read Only	Filterab le Ordera ble	Description
ActivityObjectId	int		х	The unique ID of the activity to which the associated assignment is assigned.
ActualFinishDate	dateTime		х	The date the resource actually finished working on the activity.
ActualStartDate	dateTime		x	The date the resource actually started working on the activity.
ActualUnits	double restricted to minInclusiv e(0.0)		x	The actual units worked by the resource on this activity.
AssignmentIsRead	string restricted to maxLength(10)		x	To determine whether or not the newly created assignment from P6 Team Member Web is viewed by the manager in the Control Status Update.
ChangeSetObjectId	int	х	x	The unique ID of the associated Changeset.
Date	dateTime	х	x	The date of the transaction.

ProjectObjectId	int	х	x	The unique identifier of the project that is associated with the ResourceAssignmentCreate object.
Remaining Duration	double restricted to minInclusiv e(0.0)	x	x	The remaining duration of the resource assignment.
ReamainingFinishD ate	dateTime	x	x	The remaining finish date for the resource working on the activity.
RemainingUnits	double restricted to minInclusiv e(0.0)	x	x	The remaining units of work to be performed by this resource on this activity.
RequestUserObject Id	int	x	x	The unique ID of the user modifying the task, assignment or step.
ResourceAssignme ntCreateObjectId	int	x	x	The unique identifier of the ResourceAssignment that is associated to the ResourceAssignmentCreate.
ResourceAssignme ntObjectId	int	x	x	The unique identifier of the ResourceAssignment that is associated with ResourceAssignmentCreate object.
ResourceObjectId	int		x	The unique identifier of the associated resource.
Status	string restricted to 'Pending' 'Held' 'Approved' 'Rejected' 'Partially Approved' 'Withdrawn'		x	The status of the resource assignment.

ResourceAssignmentPeriodActual Service

Operations:

CreateResourceAssignmentPeriodActuals Operation (on page 245) ReadResourceAssignmentPeriodActuals Operation (on page 245) UpdateResourceAssignmentPeriodActuals Operation (on page 246) DeleteResourceAssignmentPeriodActuals Operation (on page 246) GetFieldLengthResourceAssignmentPeriodActual Operation (on page 246)

WSDL: ResourceAssignmentPeriodActual.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/ResourceAssignmentPeriodActual/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/ResourceAssignmentPeriodActualService?wsdl https://<hostname>:<port number>/p6ws/services/ResourceAssignmentPeriodActualService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.resourceassignmentperiodactual.ResourceAssignmentPeriodActualSe rvice

Description:

Resource assignment period actuals represent the actual values on a resource assignment during a financial period.

The following rules apply for resource assignment period actuals:

- > They can only be tracked for in-progress or completed activities.
- Negative values are allowed.
- If both units and costs are simultaneously updated on a period actual instance, units are the driving value.
- They must have at least one non-zero field value for a corresponding database record to exist
- If activity period actuals exist and have valid values for a particular resource type, resource assignment period actuals are created automatically for the first assignment of the corresponding resource type. Thereafter, period actuals can only be tracked on the resource assignment, not at the activity level.
- Costs can be calculated only when a resource price per unit is defined
- Updating values in assignment period actuals should update the corresponding activity period values. However, for material resource assignments, the update to activity period actuals occurs only when material cost is changed on the assignment.

- Creating an assignment period actual value results in the automatic creation of an activity period actual value if it does not already exist.
- An activity period actual may not exist for a corresponding assignment period actual if only material units are being tracked in the assignment period actual instance.

Note that this business object has a multi-part object ID; its object ID is a combination of its financial period object ID and its resource assignment object ID.

CreateResourceAssignmentPeriodActuals Operation

Description: Creates multiple ResourceAssignmentPeriodActual objects in the database. You can create up to 1000 ResourceAssignmentPeriodActual objects with a single call.

Service: ResourceAssignmentPeriodActual Service (on page 244)

Style: Document/literal wrapped

Input:

Message: CreateResourceAssignmentPeriodActuals Elements: ResourceAssignmentPeriodActual elements that contain *ResourceAssignmentPeriodActual Fields* (on page 247) fields

Required fields: The following fields are required when creating the ResourceAssignmentPeriodActual object:

- ResourceAssignmentObjectId
- FinancialPeriodObjectId
- ActualUnits|ActualCost

Output:

Message: CreateResourceAssignmentPeriodActualsResponse Output: Zero to many ObjectId elements

ReadResourceAssignmentPeriodActuals Operation

Description: Reads ResourceAssignmentPeriodActual objects from the database.

Service: ResourceAssignmentPeriodActual Service (on page 244)

Style: Document/literal wrapped

Input:

Message: ReadResourceAssignmentPeriodActuals

Elements: One to many field names from the *ResourceAssignmentPeriodActual Fields* (on page 247) field list

You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadResourceAssignmentPeriodActualsResponse

Output: Zero to many ResourceAssignmentPeriodActual elements that contain ResourceAssignmentPeriodActual fields.

UpdateResourceAssignmentPeriodActuals Operation

Description: Updates multiple ResourceAssignmentPeriodActual objects in the database. You can update up to 1000 ResourceAssignmentPeriodActual objects with a single call.

Service: ResourceAssignmentPeriodActual Service (on page 244)

Style: Document/literal wrapped

Input:

Message: UpdateResourceAssignmentPeriodActuals Elements: ResourceAssignmentPeriodActual elements that contain **ResourceAssignmentPeriodActual Fields** (on page 247) fields.

Required fields: The ObjectId must be specified.

Output:

Message: UpdateResourceAssignmentPeriodActualsResponse Output: boolean

DeleteResourceAssignmentPeriodActuals Operation

Description: Deletes multiple ResourceAssignmentPeriodActual objects in the database. You can delete up to 1000 ResourceAssignmentPeriodActual objects with a single call.

Service: ResourceAssignmentPeriodActual Service (on page 244)

Style: Document/literal wrapped

Input:

Message: DeleteResourceAssignmentPeriodActuals Elements: One to many ObjectId elements

Output:

Message: DeleteResourceAssignmentPeriodActualsResponse Output: boolean

GetFieldLengthResourceAssignmentPeriodActual Operation

Description: Returns length of variable character fields for a BO.

Service: ResourceAssignmentPeriodActual Service (on page 244)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthResourceAssignmentPeriodActual Elements: FieldLength

Output:

Message: GetFieldLengthResourceAssignmentPeriodActualResponse Elements: One to many FieldLengthResourceAssignmentPeriodActuals.

ResourceAssignmentPeriodActual Fields

Field	Туре	Read Only	Filterable Orderable	Description
ActivityObjectI d	int	x	x	The unique ID of the associated activity.
ActualCost	double		x	The actual cost on this resource assignment during a financial period.
ActualUnits	double		x	The actual units on this resource assignment during a financial period.
CreateDate	dateTime	x	x	The date this resource assignment period actual was created.
CreateUser	string restricted to maxLength(2 55)	x	x	The name of the user that created this resource assignment period actual.
FinancialPerio dObjectId	int		x	The unique ID of the associated financial period.
FinancialPerio dTemplateId	int		x	The id of the financial period template to which the financial period belongs.

IsBaseline	boolean	x	х	The boolean value indicating if this business object is related to a Project or Baseline
IsTemplate	boolean	x	x	The boolean value indicating if this business object is related to a template Project.
LastUpdateDa te	dateTime	x	x	The date this resource assignment period actual was last updated.
LastUpdateUs er	string restricted to maxLength(2 55)	x	x	The name of the user that last updated this resource assignment period actual.
ProjectObjectI d	int	x	x	The unique ID of the associated project.
ResourceAssi gnmentObjectI d	int		x	The unique ID of the associated resource assignment.
ResourceType	string restricted to '' 'Labor' 'Nonlabor' 'Material'	x	х	The resource type: "Labor", "Nonlabor", or "Material".
WBSObjectId	int	x	x	The unique ID of the WBS for the associated activity.

ResourceAssignmentUpdate Service

Operations:

CreateResourceAssignmentUpdates Operation (on page 249) ReadResourceAssignmentUpdates Operation (on page 250) UpdateResourceAssignmentUpdates Operation (on page 250) DeleteResourceAssignmentUpdates Operation (on page 250) GetFieldLengthResourceAssignmentUpdate Operation (on page 251)

WSDL: ResourceAssignmentUpdate.wsdl

Primary Key: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/ResourceAssignmentUpdate/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/ResourceAssignmentUpdate?wsdl https://<hostname>:<port number>/p6ws/services/ResourceAssignmentUpdate?wsdl

Java Client Stub Class

com.primavera.ws.p6.resourceassignmentupdate.ResourceAssignmentUpdate

Description:

Resource assignments track the work of resources or roles that are performing various activities. The pending number of units, finish date, start date, and duration of a resource assignment may need approval to be overridden so that the resource assignment can reflect its actual values.

CreateResourceAssignmentUpdates Operation

Description: Creates multiple ResourceAssignmentUpdate objects in the database. You can create up to 1000 ResourceAssignmentUpdate objects with a single call.

Service: ResourceAssignmentUpdate Service (on page 249)

Style: Document/literal wrapped

Input:

Message: CreateResourceAssignmentUpdates Elements: One to many field names from the **ResourceAssignmentUpdate Fields** (on page 251) field list.

Required fields:

ResourceAssignmentObjectId ChangeSetObjectId

Output:

Message: CreateResourceAssignmentUpdatesResponse

Output: Zero to many ObjectId elements

ReadResourceAssignmentUpdates Operation

Description: Reads ResourceAssignmentUpdate objects from the database.

Service: ResourceAssignmentUpdate Service (on page 249)

Style: Document/literal wrapped

Input:

Message: ReadResourceAssignmentUpdates

Elements: One to many field names from the *ResourceAssignmentUpdate Fields* (on page 251) field list.

You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ResourceAssignmentUpdatesResponse

Output: Zero to many ResourceAssignmentUpdate elements that contain ResourceAssignmentUpdate fields.

UpdateResourceAssignmentUpdates Operation

Description: Updates multiple ResourceAssignmentUpdateobjects in the database. You can update up to 1000 ResourceAssignmentUpdate objects with a single call.

Service: ResourceAssignmentUpdate Service (on page 249)

Style: Document/literal wrapped

Input:

Message: UpdateResourceAssignmentUpdates

Elements: One to many field names from the *ResourceAssignmentUpdate Fields* (on page 251) field list.

Output:

Message: UpdateResourceAssignmentUpdatesResponse Output: boolean

DeleteResourceAssignmentUpdates Operation

Description: Deletes multiple ResourceAssignmentUpdate objects in the database. You can delete up to 1000 ResourceAssignmentUpdate objects with a single call.

Service: ResourceAssignmentUpdate Service (on page 249)

Style: Document/literal wrapped

Input:

Message: DeleteResourceAssignmentUpdates Elements: One to many ObjectId elements

Output:

Message: DeleteResourceAssignmentUpdatesResponse Output: boolean

GetFieldLengthResourceAssignmentUpdate Operation

Description: Returns length of variable character fields for a BO.

Service: ResourceAssignmentUpdate Service (on page 249)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthResourceAssignmentUpdate Elements: FieldLength

Output:

Message: GetFieldLengthResourceAssignmentUpdateResponse Elements: One to many FieldLengthResourceAssignmentUpdates.

ResourceAssignmentUpdate Fields

Field	Туре	Read Only	Filtera ble Ordera ble	Description
ActivityObjectId	int		х	The unique ID of the activity to which the activity code is assigned.
ApprovalDate	dateTime		х	The date that the activity was approved.
ApprovalUserName	string restricted to maxLength(255)			The username of the approved user.

ApprovalUserObjec tld	int	x	The unique ID generated by the system for the approved user.
ChangeSetObjectId	int		The unique ID generated by the system for the change set object.
Date	dateTime	x	The date of the resource assignment update.
HeldDate	dateTime	x	The date of the held resource assignment.
OverrideActualFinis hDate	dateTime	x	The actual finish date for an override activity.
OverrideActualStart Date	dateTime	x	The actual start date for an override activity.
OverrideActualUnit s	double restricted to minInclusiv e(0.0)	x	The number of units for an override activity.
OverrideRemaining Duration	double restricted to minInclusiv e(0.0)	x	The remaining duration for an override activity.
OverrideRemaining FinishDate	dateTime	x	The date that the override activity finishes.
OverrideRemaining StartDate	dateTime	x	The date that the override activity stars.
OverrideRemaining Units	double restricted to minInclusiv e(0.0)	x	The overridden new remaining units of work to be performed by this resource on this activity.

PendingActualFinis	dateTime		x	The date on which the pending
hDate				activity actually finishes if approval is required.
PendingActualStart Date	dateTime		x	The date on which the pending activity actually starts if approval is required.
PendingActualUnits	double restricted to minInclusiv e(0.0)		x	The actual number of units associated with the the pending activity if approval is required.
PendingRemaining Duration	double restricted to minInclusiv e(0.0)		x	The remaining duration that is required to finish a pending activity if approval is required.
PendingRemaining FinishDate	dateTime		x	The remaining finish date of a pending activity if approval is required.
PendingRemaining Units	double restricted to minInclusiv e(0.0)		x	The remaining number of units associated with a pending activity if approval is required.
ProjectObjectId	int	x	x	The unique ID of the associated project.
RejectedBy	string (maximum 255 characters)	x	x	The User Name of the user who rejected the status update.
RejectedDate	dateTime	x	x	The date and time the status update was rejected.
RequestUserObject Id	int		x	The unique ID of the user modifying the task, assignment, or step.

ResourceAssignme ntObjectId	int			The unique identifier for the ResourceAssignment. You can specify one or more ResourceAssignmentObjectID.
ResubmittedBy	string (max 255 characters)	x	x	The User Name of the user who resubmitted the status update.
ResubmittedDate	dateTime	x	x	The date and time the status update was resubmitted.
Status	string restricted to 'Pending' 'Held' 'Approved' 'Partially Approved' 'Withdrawn'		x	The status of this budget change request. Possible values are 'Pending', 'Held', 'Approved', and 'Partially Approved'.

AdminCategory Services

BaselineType Service

Operations:

CreateBaselineTypes Operation (on page 255) ReadBaselineTypes Operation (on page 255) UpdateBaselineTypes Operation (on page 256) DeleteBaselineTypes Operation (on page 256) GetFieldLengthBaselineType Operation (on page 256)

WSDL: BaselineType.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/BaselineType/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/BaselineTypeService?wsdl https://<hostname>:<port number>/p6ws/services/BaselineTypeService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.baselinetype.BaselineTypeService

Description:

Since the large number of baselines per project could be challenging to maintain, baseline types are introduced to help categorize, or track, multiple baselines for a single project. By assigning a type to a baseline that reflects its purpose, baseline types help you to maintain or track a large number of baselines in a project. For example, you could use the baseline types 'initial planning', 'what-if', and 'midproject' to organize a project's baselines. The BaselineType service enables you to create new baseline types or maintain (update, delete) existing ones. The BaselineType Service also allows you to load multiple associated BaselineProject objects from the database.

CreateBaselineTypes Operation

Description: Creates multiple BaselineType objects in the database. You can create up to 1000 BaselineType objects with a single call.

Service: BaselineType Service (on page 254)

Style: Document/literal wrapped

Input:

Message: CreateBaselineTypes

Elements: BaselineType elements that contain **BaselineType Fields** (on page 257) fields.

Required fields: You must supply the Name field when you use the CreateBaselineTypes operation. All other fields are optional.

Output:

Message: CreateBaselineTypesResponse Output: Zero to many ObjectId elements

ReadBaselineTypes Operation

Description: Reads BaselineType objects from the database.

Service: BaselineType Service (on page 254)

Style: Document/literal wrapped

Input:

Message: ReadBaselineTypes

Elements: One to many field names from the **BaselineType Fields** (on page 257) field list You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadBaselineTypesResponse

Output: Zero to many BaselineType elements that contain BaselineType fields.

UpdateBaselineTypes Operation

Description: Updates multiple BaselineType objects in the database. You can update up to 1000 BaselineType objects with a single call.

Service: BaselineType Service (on page 254)

Style: Document/literal wrapped

Input:

Message: UpdateBaselineTypes

Elements: BaselineType elements that contain *BaselineType Fields* (on page 257) fields. Required fields: The ObjectId must be specified.

Output:

Message: UpdateBaselineTypesResponse Output: boolean

DeleteBaselineTypes Operation

Description: Deletes multiple BaselineType objects in the database. You can delete up to 1000 BaselineType objects with a single call.

Service: BaselineType Service (on page 254)

Style: Document/literal wrapped

Input:

Message: DeleteBaselineTypes Elements: One to many ObjectId elements

Output:

Message: DeleteBaselineTypesResponse Output: boolean

GetFieldLengthBaselineType Operation

Description: Returns length of variable character fields for a BO.

Service: BaselineType Service (on page 254)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthBaselineType Elements: FieldLength Output:

Message: GetFieldLengthFieldLengthBaselineTypeResponse Elements: One to many FieldLengthBaselineTypes.

BaselineType Fields

Field	Туре	Read Only	Filterable Orderable	Description
CreateDate	dateTime	x	x	The date this baseline type was created.
CreateUser	string restricted to maxLength(2 55)	x	x	The name of the user that created this baseline type.
LastUpdate Date	dateTime	x	х	The date this baseline type was last updated.
LastUpdate User	string restricted to maxLength(2 55)	x	x	The name of the user that last updated this baseline type.
Name	string restricted to maxLength(4 0)		x	The name of this baseline type.
ObjectId	int		х	The unique ID generated by the system.
SequenceN umber	int		x	The sequence number for sorting.

DocumentCategory Service

Operations:

CreateDocumentCategories Operation (on page 258) ReadDocumentCategories Operation (on page 258) UpdateDocumentCategories Operation (on page 259) DeleteDocumentCategories Operation (on page 259) GetFieldLengthDocumentCategory Operation (on page 260)

WSDL: DocumentCategory.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/DocumentCategory/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/DocumentCategoryService?wsdl https://<hostname>:<port number>/p6ws/services/DocumentCategoryService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.documentcategory.DocumentCategoryService

Description:

Document categories are used to organize and standardize documents across projects.

CreateDocumentCategories Operation

Description: Creates multiple DocumentCategory objects in the database. You can create up to 1000 DocumentCategory objects with a single call.

Service: DocumentCategory Service (on page 257)

Style: Document/literal wrapped

Input:

Message: CreateDocumentCategories

Elements: DocumentCategory elements that contain *DocumentCategory Fields* (on page 260) fields.

Required fields: You must supply a Name field when you use the CreateDocumentCategories operation.

Output:

Message: CreateDocumentCategoriesResponse Output: Zero to many ObjectId elements

ReadDocumentCategories Operation

Description: Reads DocumentCategory objects from the database.

Service: DocumentCategory Service (on page 257)

Style: Document/literal wrapped

Input:

Message: ReadDocumentCategories

Elements: One to many field names from the *DocumentCategory Fields* (on page 260) field list.

You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadDocumentCategoriesResponse

Output: Zero to many DocumentCategory elements that contain *DocumentCategory Fields* (on page 260) fields.

UpdateDocumentCategories Operation

Description: Updates multiple DocumentCategory objects in the database. You can update up to 1000 DocumentCategory objects with a single call.

Service: DocumentCategory Service (on page 257)

Style: Document/literal wrapped

Input:

Message: UpdateDocumentCategories

Elements: DocumentCategory elements that contain *DocumentCategory Fields* (on page 260) fields.

Required fields: The ObjectId must be specified.

Output:

Message: UpdateDocumentCategoriesResponse Output: boolean

DeleteDocumentCategories Operation

Description: Deletes multiple DocumentCategory objects in the database. You can delete up to 1000 DocumentCategory objects with a single call.

Service: DocumentCategory Service (on page 257)

Style: Document/literal wrapped

Input:

Message: DeleteDocumentCategories Elements: One to many ObjectId elements

Output:

Message: DeleteDocumentCategoriesResponse Output: boolean

GetFieldLengthDocumentCategory Operation

Description: Returns length of variable character fields for a BO.

Service: DocumentCategory Service (on page 257)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthDocumentCategory Elements: FieldLength

Output:

Message: GetFieldLengthDocumentCategoryResponse Elements: One to many FieldLengthDocumentCategories.

DocumentCategory Fields

Field	Туре	Read Only	Filterable Orderable	Description
CreateDate	dateTime	x	x	The date this document category was created.
CreateUser	string restricted to maxLength(2 55)	x	x	The name of the user that created this document category.
LastUpdate Date	dateTime	x	x	The date this document category was last updated.
LastUpdate User	string restricted to maxLength(2 55)	x	x	The name of the user that last updated this document category.
Name	string restricted to maxLength(1 00)		x	The name of the document category.
ObjectId	int		х	The unique ID generated by the system.
SequenceN	int		х	The sequence

umber		number for sorting.

DocumentStatusCode Service

proOperations:

CreateDocumentStatusCodes Operation (on page 261) ReadDocumentStatusCodes Operation (on page 262) UpdateDocumentStatusCodes Operation (on page 262) DeleteDocumentStatusCodes Operation (on page 263) GetFieldLengthDocumentStatusCode Operation (on page 263)

WSDL: DocumentStatusCode.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/DocumentStatusCode/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/DocumentStatusCodeService?wsdl https://<hostname>:<port number>/p6ws/services/DocumentStatusCodeService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.documentstatuscode.DocumentStatusCodeService

Description:

Document status codes are used to identify and track the current state of work products and documents.

CreateDocumentStatusCodes Operation

Description: Creates multiple DocumentStatusCode objects in the database. You can create up to 1000 DocumentStatusCode objects with a single call.

Service: DocumentStatusCode Service (on page 261)

Style: Document/literal wrapped

Input:

Message: CreateDocumentStatusCodes

Elements: DocumentStatusCode elements that contain *DocumentStatusCode Fields* (on page 263) fields.

Required fields: You must supply a Name field when you use the CreateDocumentStatusCodes operation.

Output:

Message: CreateDocumentStatusCodesResponse Output: Zero to many ObjectId elements

ReadDocumentStatusCodes Operation

Description: Reads DocumentStatusCode objects from the database.

Service: DocumentStatusCode Service (on page 261)

Style: Document/literal wrapped

Input:

Message: ReadDocumentStatusCodes

Elements: One to many field names from the *DocumentStatusCode Fields* (on page 263) field list.

You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadDocumentStatusCodesResponse

Output: Zero to many DocumentStatusCode elements that contain *DocumentStatusCode Fields* (on page 263) fields.

UpdateDocumentStatusCodes Operation

Description: Updates multiple DocumentStatusCode objects in the database. You can update up to 1000 DocumentStatusCode objects with a single call.

Service: DocumentStatusCode Service (on page 261)

Style: Document/literal wrapped

Input:

Message: UpdateDocumentStatusCodes

Elements: DocumentStatusCode elements that contain *DocumentStatusCode Fields* (on page 263) fields.

Required fields: The ObjectId must be specified.

Output:

Message: UpdateDocumentStatusCodesResponse Output: boolean

DeleteDocumentStatusCodes Operation

Description: Deletes multiple DocumentStatusCode objects in the database. You can delete up to 1000 DocumentStatusCode objects with a single call.

Service: DocumentStatusCode Service (on page 261)

Style: Document/literal wrapped

Input:

Message: DeleteDocumentStatusCodes Elements: One to many ObjectId elements

Output:

Message: DeleteDocumentStatusCodesResponse Output: boolean

GetFieldLengthDocumentStatusCode Operation

Description: Returns length of variable character fields for a BO.

Service: DocumentStatusCode Service (on page 261)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthDocumentStatusCode Elements: FieldLength

Output:

Message: GetFieldLengthDocumentStatusCodeResponse Elements: One to many FieldLengthDocumentStatusCodes.

DocumentStatusCode Fields

Field	Туре	Read Only	Filterable Orderable	Description
CreateDate	dateTime	х	х	The date this document status was created.
CreateUser	string restricted to maxLength(2 55)	x	x	The name of the user that created this document status.
LastUpdate Date	dateTime	x	x	The date this document status

				was last updated.
LastUpdate User	string restricted to maxLength(2 55)	x	x	The name of the user that last updated this document status.
Name	string restricted to maxLength(3 6)		x	The name of the document status code.
ObjectId	int		x	The unique ID generated by the system.
SequenceN umber	int		x	The sequence number for sorting.

ExpenseCategory Service

Operations:

CreateExpenseCategories Operation (on page 265) ReadExpenseCategories Operation (on page 265) UpdateExpenseCategories Operation (on page 265) DeleteExpenseCategories Operation (on page 266) GetFieldLengthExpenseCategory Operation (on page 266)

WSDL: ExpenseCategory.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/ExpenseCategory/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/ExpenseCategoryService?wsdl https://<hostname>:<port number>/p6ws/services/ExpenseCategoryService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.expensecategory.ExpenseCategoryService

Description:

Expense categories are used to categorize project expenses. They are used for standardizing expenses and for rolling up expenses across projects.

CreateExpenseCategories Operation

Description: Creates multiple ExpenseCategory objects in the database. You can create up to 1000 ExpenseCategory objects with a single call.

Service: ExpenseCategory Service (on page 264)

Style: Document/literal wrapped

Input:

Message: CreateExpenseCategories

Elements: ExpenseCategory elements that contain *ExpenseCategory Fields* (on page 267) fields

Required fields: You must supply the Name field when you use the CreateExpenseCategories operation. All other fields are optional.

Output:

Message: CreateExpenseCategoriesResponse Output: Zero to many ObjectId elements

ReadExpenseCategories Operation

Description: Reads ExpenseCategory objects from the database.

Service: ExpenseCategory Service (on page 264)

Style: Document/literal wrapped

Input:

Message: ReadExpenseCategories

Elements: One to many field names from the *ExpenseCategory Fields* (on page 267) field list.

You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadExpenseCategoriesResponse

Output: Zero to many ExpenseCategory elements that contain *ExpenseCategory Fields* (on page 267) fields.

UpdateExpenseCategories Operation

Description: Updates multiple ExpenseCategory objects in the database. You can update up to 1000 ExpenseCategory objects with a single call.

Service: ExpenseCategory Service (on page 264)

Style: Document/literal wrapped

Input:

Message: UpdateExpenseCategories

Elements: ExpenseCategory elements that contain *ExpenseCategory Fields* (on page 267) fields.

Required fields: The ObjectId must be specified.

Output:

Message: UpdateExpenseCategoriesResponse Output: boolean

DeleteExpenseCategories Operation

Description: Deletes multiple ExpenseCategory objects in the database. You can delete up to 1000 ExpenseCategory objects with a single call.

Service: ExpenseCategory Service (on page 264)

Style: Document/literal wrapped

Input:

Message: DeleteExpenseCategories Elements: One to many ObjectId elements

Output:

Message: DeleteExpenseCategoriesResponse Output: boolean

GetFieldLengthExpenseCategory Operation

Description: Returns length of variable character fields for a BO.

Service: ExpenseCategory Service (on page 264)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthExpenseCategory Elements: FieldLength

Output:

Message: GetFieldLengthExpenseCategoryResponse Elements: One to many FieldLengthExpenseCategories.

ExpenseCategory Fields

Field	Туре	Read Only	Filterable Orderable	Description
CreateDate	dateTime	x	х	The date this expense category was created.
CreateUser	string restricted to maxLength(2 55)	x	x	The name of the user that created this expense category.
LastUpdate Date	dateTime	x	x	The date this expense category was last updated.
LastUpdate User	string restricted to maxLength(2 55)	x	x	The name of the user that last updated this expense category.
Name	string restricted to maxLength(3 6)		x	The name of the expense category.
ObjectId	int		x	The unique ID generated by the system.
SequenceN umber	int		x	The sequence number for sorting.

NotebookTopic Service

Operations:

CreateNotebookTopics Operation (on page 268) ReadNotebookTopics Operation (on page 268) UpdateNotebookTopics Operation (on page 269) DeleteNotebookTopics Operation (on page 269) GetFieldLengthNotebookTopic Operation (on page 270)

WSDL: NotebookTopic.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/NotebookTopic/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/NotebookTopicService?wsdl https://<hostname>:<port number>/p6ws/services/NotebookTopicService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.notebooktopic.NotebookTopicService

Description:

Notebook topics are used to categorize notes on EPS, project, WBS, and activity objects. Notebook topics are defined globally, and are usually specified by an administrator.

CreateNotebookTopics Operation

Description: Creates multiple NotebookTopic objects in the database. You can create up to 1000 NotebookTopic objects with a single call.

Service: NotebookTopic Service (on page 267)

Style: Document/literal wrapped

Input:

Message: CreateNotebookTopics

Elements: NotebookTopic elements that contain *NotebookTopic Fields* (on page 270) fields.

Required fields: You must supply the Name field when you use the CreateNotebookTopics operation. All other fields are optional.

Output:

Message: CreateNotebookTopicsResponse Output: Zero to many ObjectId elements

ReadNotebookTopics Operation

Description: Reads NotebookTopic objects from the database.

Service: NotebookTopic Service (on page 267)

Style: Document/literal wrapped

Input:

Message: ReadNotebookTopics

Elements: One to many field names from the *NotebookTopic Fields* (on page 270) field list.

You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadNotebookTopicsResponse

Output: Zero to many NotebookTopic elements that contain *NotebookTopic Fields* (on page 270) fields.

UpdateNotebookTopics Operation

Description: Updates multiple NotebookTopic objects in the database. You can update up to 1000 NotebookTopic objects with a single call.

Service: NotebookTopic Service (on page 267)

Style: Document/literal wrapped

Input:

Message: UpdateNotebookTopics Elements: NotebookTopic elements that contain *NotebookTopic Fields* (on page 270) fields.

Output:

Message: UpdateNotebookTopicsResponse Output: boolean

DeleteNotebookTopics Operation

Description: Deletes multiple NotebookTopic objects in the database. You can delete up to 1000 NotebookTopic objects with a single call.

Service: NotebookTopic Service (on page 267)

Style: Document/literal wrapped

Input:

Message: DeleteNotebookTopics Elements: One to many ObjectId elements

Output:

Message: DeleteNotebookTopicsResponse Output: boolean

GetFieldLengthNotebookTopic Operation

Description: Returns length of variable character fields for a BO.

Service: NotebookTopic Service (on page 267)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthNotebookTopic Elements: FieldLength

Output:

Message: GetFieldLengthNotebookTopicResponse Elements: One to many FieldLengthNotebookTopics.

NotebookTopic Fields

				1
Field	Туре	Read Only	Filterable Orderable	Description
AvailableFo rActivity	boolean		x	The flag indicating that the topic will be available to assign to activities.
AvailableFo rEPS	boolean		x	The flag indicating that the topic will be available to assign to EPS.
AvailableFo rProject	boolean		x	The flag indicating that the topic will be available to assign to projects.
AvailableFo rWBS	boolean		x	The flag indicating that the topic will be available to assign to WBS.
CreateDate	dateTime	x	x	The date this notebook topic was created.
CreateUser	string restricted to maxLength(2 55)	x	x	The name of the user that created this notebook topic.
LastUpdate	dateTime	X	X	The date this

Date				notebook topic was last updated.
LastUpdate User	string restricted to maxLength(2 55)	x	x	The name of the user that last updated this notebook topic.
Name	string restricted to maxLength(4 0)		x	The name of the notebook topic.
ObjectId	int		х	The unique ID generated by the system.
SequenceN umber	int		x	The sequence number for sorting.

ProjectResourceCategory Service

Operations:

CreateProjectResourceCategories Operation (on page 272) ReadProjectResourceCategories Operation (on page 272) UpdateProjectResourceCategories Operation (on page 272) DeleteProjectResourceCategories Operation (on page 273) GetFieldLengthProjectResourceCategory Operation (on page 273)

WSDL: ProjectResourceCategory.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/ProjectResourceCategory/V1 Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/ProjectResourceCategoryService?wsdl https://<hostname>:<port number>/p6ws/services/ProjectResourceCategoryService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.projectresourcecategory.ProjectResourceCategoryService

Description:

Project resource categories are used to categorize resource planning assignments.

CreateProjectResourceCategories Operation

Description: Creates multiple ProjectResourceCategory objects in the database. You can create up to 1000 ProjectResourceCategory objects with a single call.

Service: ProjectResourceCategory Service (on page 271)

Style: Document/literal wrapped

Input:

Message: CreateProjectResourceCategories

Elements: ProjectResourceCategory elements that contain *ProjectResourceCategory Fields* (on page 274) fields

Required fields: You must supply the Name field when you use the CreateProjectResourceCategories operation. All other fields are optional.

Output:

Message: CreateProjectResourceCategoriesResponse Output: Zero to many ObjectId elements

ReadProjectResourceCategories Operation

Description: Reads ProjectResourceCategory objects from the database.

Service: ProjectResourceCategory Service (on page 271)

Style: Document/literal wrapped

Input:

Message: ReadProjectResourceCategories

Elements: One to many field names from the *ProjectResourceCategory Fields* (on page 274) field list.

You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadProjectResourceCategoriesResponse

Output: Zero to many ProjectResourceCategory elements that contain *ProjectResourceCategory Fields* (on page 274) fields.

UpdateProjectResourceCategories Operation

Description: Updates multiple ProjectResourceCategory objects in the database. You can update up to 1000 ProjectResourceCategory objects with a single call.

Service: ProjectResourceCategory Service (on page 271)

Style: Document/literal wrapped

Input:

Message: UpdateProjectResourceCategories Elements: ProjectResourceCategory elements that contain *ProjectResourceCategory Fields* (on page 274) fields. Required fields: The ObjectId must be specified.

Output:

Message: UpdateProjectResourceCategoriesResponse Output: boolean

DeleteProjectResourceCategories Operation

Description: Deletes multiple ProjectResourceCategory objects in the database. You can delete up to 1000 ProjectResourceCategory objects with a single call.

Service: ProjectResourceCategory Service (on page 271)

Style: Document/literal wrapped

Input:

Message: DeleteProjectResourceCategories Elements: One to many ObjectId elements

Output:

Message: DeleteProjectResourceCategoriesResponse Output: boolean

GetFieldLengthProjectResourceCategory Operation

Description: Returns length of variable character fields for a BO.

Service: ProjectResourceCategory Service (on page 271)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthProjectResourceCategory Elements: FieldLength

Output:

Message: GetFieldLengthProjectResourceCategoryResponse Elements: One to many FieldLengthProjectResourceCategories.

ProjectResourceCategory Fields

■ @ Field	Туре	Read Only	Filterable Orderable	Description
CreateDate	dateTime	x	x	The date this project resource category was created.
CreateUser	string restricted to maxLength(2 55)	x	x	The name of the user that created this project resource category.
LastUpdate Date	dateTime	x	x	The date this document status was last updated.
LastUpdate User	string restricted to maxLength(2 55)	x	x	The name of the user that last updated this project resource category.
Name	string restricted to maxLength(3 6)		x	The name of the project resource category.
ObjectId	int		x	The unique ID generated by the system.

RiskCategory Service

Operations:

CreateRiskCategories Operation (on page 275) ReadRiskCategories Operation (on page 275) UpdateRiskCategories Operation (on page 276) DeleteRiskCategories Operation (on page 276) GetFieldLengthRiskCategory Operation (on page 276)

WSDL: RiskCategory.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/RiskCategory/V2

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/RiskCategoryService?wsdl https://<hostname>:<port number>/p6ws/services/RiskCategoryService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.riskcategory.RiskCategoryService

Description:

The risk category object is used to categorize and organize project risks. A risk can only be associated with a single category. Categories help ensure a comprehensive and systematic way of identifying risks to a consistent level of detail and completeness. Technical, Operational, External are examples of risk categories that might apply to a typical project. Categories are global objects and are usually defined by an administrator.

CreateRiskCategories Operation

Description: Creates multiple RiskCategory objects in the database. You can create up to 1000 RiskCategory objects with a single call.

Service: RiskCategory Service (on page 274)

Style: Document/literal wrapped

Input:

Message: CreateRiskCategories

Elements: RiskCategory elements that contain *RiskCategory Fields* (on page 277) fields.

Required fields: You must supply the Name field.

Output:

Message: CreateRiskCategoriesResponse

Output: Zero to many ObjectId elements

ReadRiskCategories Operation

Description: Reads RiskCategory objects from the database.

Service: RiskCategory Service (on page 274)

Style: Document/literal wrapped

Input:

Message: ReadRiskCategories

Elements: One to many field names from the RiskCategory Fields (on page 277) field list

You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadRiskCategoriesResponse

Output: Zero to many RiskCategory elements that contain *RiskCategory Fields* (on page 277) fields.

UpdateRiskCategories Operation

Description: Updates multiple RiskCategory objects in the database. You can update up to 1000 RiskCategory objects with a single call.

Service: RiskCategory Service (on page 274)

Style: Document/literal wrapped

Input:

Message: UpdateRiskCategories

Elements: RiskCategory elements that contain *RiskCategory Fields* (on page 277) fields Required fields: The ObjectId must be specified.

Output:

Message: UpdateRiskCategoriesResponse Output: boolean

DeleteRiskCategories Operation

Description: Deletes multiple RiskCategory objects in the database. You can delete up to 1000 RiskCategory objects with a single call.

Service: RiskCategory Service (on page 274)

Style: Document/literal wrapped

Input:

Message: DeleteRiskCategories Elements: One to many ObjectId elements

Output:

Message: DeleteRiskCategoriesResponse Output: boolean

GetFieldLengthRiskCategory Operation

Description: Returns length of variable character fields for a BO.

Service: RiskCategory Service (on page 274)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthRiskCategory Elements: FieldLength

Output:

Message: GetFieldLengthRiskCategoryResponse Elements: One to many FieldLengthRiskCategories.

RiskCategory Fields

Field	Туре	Read Only	Filterable Orderable	Description
CreateDate	dateTime	x	x	The date this risk category was created.
CreateUser	string	x	x	The name of the user that created this risk category.
LastUpdate Date	dateTime	x	x	The date this risk category was last updated.
LastUpdate User	string	x	x	The name of the user that last updated this risk category.
Name	string restricted to maxLength(4 0)		x	The name of the risk category.
ObjectId	int		х	The unique ID generated by the system.
ParentObje ctId	int		x	The unique ID of the parent risk type of this risk type in the hierarchy.
SequenceN umber	int		x	The sequence number for sorting.

ThresholdParameter Service

Operations:

ReadThresholdParameters Operation (on page 278) **GetFieldLengthThresholdParameter Operation** (on page 279)

WSDL: ThresholdParameter.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/ThresholdParameter/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/ThresholdParameterService?wsdl https://<hostname>:<port number>/p6ws/services/ThresholdParameterService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.thresholdparameter.ThresholdParameterService

Description:

A threshold parameter is a measurement that is applied to activities or work breakdown structure (WBS) elements in a project to identify potential issues. To identify issues that you want to track, you can monitor a specific threshold parameter in the Project Management application and specify a lower and/or upper threshold value against which project data is evaluated. When a threshold parameter is equal to or less than the lower threshold value, or equal to or greater than the upper threshold value, an issue is automatically generated.

You use this service to read the parameters relating to a specific threshold.

ReadThresholdParameters Operation

Description: Reads ThresholdParameter objects from the database.

Service: ThresholdParameter Service (on page 278)

Style: Document/literal wrapped

Input:

Message: ReadThresholdParameters

Elements: One to many field names from the *ThresholdParameter Fields* (on page 279) field list

You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the *P6 EPPM Web Services Programming Guide* Filters topic in the for additional details.

Output:

Message: ReadThresholdParametersResponse

Output: Zero to many ThresholdParameter elements that contain *ThresholdParameter Fields* (on page 279) fields.

GetFieldLengthThresholdParameter Operation

Description: Returns length of variable character fields for a BO.

Service: ThresholdParameter Service (on page 278)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthThresholdParameter Elements: FieldLength

Output:

Message: GetFieldLengthThresholdParameterResponse Elements: One to many FieldLengthThresholdParameters.

ThresholdParameter Fields

Field	Туре	Read Only	Filterable Orderable	Description
CreateDate	dateTime	x	x	The date this threshold parameter was created.
CreateUser	string restricted to maxLength(2 55)	x	x	The name of the user that created this threshold parameter.
LastUpdate Date	dateTime	x	x	The date this threshold parameter was last updated.
LastUpdate User	string restricted to maxLength(2	x	x	The name of the user that last updated this

	55)			threshold parameter.
Name	string restricted to maxLength(8 0)	x	x	The name of the threshold parameter.
ObjectId	int	х	х	The unique ID generated by the system.
Туре	string restricted to " 'AV - Accounting Variance (Cost)' 'CV - Cost Variance (Cost)' 'SV - Schedule Variance (Cost)' 'VAC - Variance at Completion (Cost)' 'VAC - Variance at Completion (Cost)' 'CAC - Variance Index (Ratio)' 'SPI - Schedule Performance Index (Ratio)' 'SVI - Schedule Variance Index (Ratio)' 'SVI - Schedule Variance Index (Ratio)' 'Duration Percent of	X	X	The field name for the threshold parameter. For example, "CPI - Cost Performance Index (Ratio)", "SPI - Schedule Performance Index (Ratio)", etc.

Planned		
(Percent)'		
'Start Date		
Variance (In		
Days)'		
'Finish Date		
Variance (In		
Days)'		
'Total Float		
(In Days)'		
'Free Float (In		
Days)'		

UnitOfMeasure Service

Operations:

CreateUnitOfMeasures Operation (on page 282) ReadUnitOfMeasures Operation (on page 282) UpdateUnitOfMeasures Operation (on page 282) DeleteUnitOfMeasures Operation (on page 283) GetFieldLengthUnitOfMeasure Operation (on page 283)

WSDL: UnitOfMeasure.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/UnitOfMeasure/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/UnitOfMeasureService?wsdl https://<hostname>:<port number>/p6ws/services/UnitOfMeasureService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.unitofmeasure.UnitOfMeasureService

Description:

The unit of measure provides definitions of units of measure for material resources. There are three types of resources. The unit of measure for labor and nonlabor resources is time. The unit of measure for material resources is defined by the UnitOfMeasure object.

CreateUnitOfMeasures Operation

Description: Creates multiple UnitOfMeasure objects in the database. You can create up to 1000 UnitOfMeasure objects with a single call.

Service: UnitOfMeasure Service (on page 281)

Style: Document/literal wrapped

Input:

Message: CreateUnitOfMeasures

Elements: UnitOfMeasure elements that contain UnitOfMeasure Fields (on page 284) fields

Required fields:

- Abbreviation
- Name

Output:

Message: CreateUnitOfMeasuresResponse Output: Zero to many ObjectId elements

ReadUnitOfMeasures Operation

Description: Reads UnitOfMeasure objects from the database.

Service: UnitOfMeasure Service (on page 281)

Style: Document/literal wrapped

Input:

Message: ReadUnitOfMeasures

Elements: One to many field names from the **UnitOfMeasure Fields** (on page 284) field list You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadUnitOfMeasuresResponse

Output: Zero to many UnitOfMeasure elements that contain *UnitOfMeasure Fields* (on page 284) fields.

UpdateUnitOfMeasures Operation

Description: Updates multiple UnitOfMeasure objects in the database. You can update up to 1000 UnitOfMeasure objects with a single call.

Service: UnitOfMeasure Service (on page 281)

Style: Document/literal wrapped

Input:

Message: UpdateUnitOfMeasures

Elements: UnitOfMeasure elements that contain *UnitOfMeasure Fields* (on page 284) fields. Required fields: The ObjectId must be specified.

Output:

Message: UpdateUnitOfMeasuresResponse Output: boolean

DeleteUnitOfMeasures Operation

Description: Deletes multiple UnitOfMeasure objects in the database. You can delete up to 1000 UnitOfMeasure objects with a single call.

Service: UnitOfMeasure Service (on page 281)

Style: Document/literal wrapped

Input:

Message: DeleteUnitOfMeasures Elements: One to many ObjectId elements

Output:

Message: DeleteUnitOfMeasuresResponse Output: boolean

GetFieldLengthUnitOfMeasure Operation

Description: Returns length of variable character fields for a BO.

Service: UnitOfMeasure Service (on page 281)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthUnitOfMeasure

Elements: FieldLength

Output:

Message: GetFieldLengthUnitOfMeasureResponse Elements: One to many FieldLengthUnitOfMeasures.

UnitOfMeasure Fields

Field	Туре	Read Only	Filterable Orderable	Description
Abbreviatio n	string restricted to maxLength(1 6)		x	The abbreviation of the unit of measure.
CreateDate	dateTime	х	x	The date this unit of measure was created.
CreateUser	string restricted to maxLength(2 55)	x	x	The name of the user that created this unit of measure.
LastUpdate Date	dateTime	x	x	The date this unit of measure was last updated.
LastUpdate User	string restricted to maxLength(2 55)	x	x	The name of the user that last updated this unit of measure.
Name	string restricted to maxLength(1 00)		x	The name of the unit of measure.
ObjectId	int		x	The unique ID generated by the system.
SequenceN umber	int		x	The sequence number for sorting.

UserFieldTitle Service

Operations:

ReadUserFieldTitles Operation (on page 285) UpdateUserFieldTitles Operation (on page 286)

GetFieldLengthUserFieldTitle Operation (on page 286)

WSDL: UserFieldTitle.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/UserFieldTitle/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/UserFieldTitleService?wsdl https://<hostname>:<port number>/p6ws/services/UserFieldTitleService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.userfieldtitle.UserFieldTitleService

Description:

User fields enable you to add your own custom fields and values to the project database. For example, you can track additional activity data, such as delivery dates and purchase order numbers, or resource and cost-related data, such as profit, variances, and revised budgets.

In the Project Management application you can display custom user fields in the columns of the Activity Table and then print the layout. You can also group, sort, filter, and summarize by user field, as well as add user fields to reports you create. Use Global Change to assign values to Activity and Activity Resource Assignments type user fields.

You may not create or delete user field titles; they may only be loaded and updated.

ReadUserFieldTitles Operation

Description: Reads UserFieldTitle objects from the database.

Service: UserFieldTitle Service (on page 284)

Style: Document/literal wrapped

Input:

Message: ReadUserFieldTitles

Elements: One to many field names from the **UserFieldTitle Fields** (on page 286) field list You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadUserFieldTitlesResponse

Output: Zero to many UserFieldTitle elements that contain *UserFieldTitle Fields* (on page 286) fields.

UpdateUserFieldTitles Operation

Description: Updates multiple UserFieldTitle objects in the database. You can update up to 1000 UserFieldTitle objects with a single call.

Service: UserFieldTitle Service (on page 284)

Style: Document/literal wrapped

Input:

Message: UpdateUserFieldTitles

Elements: UserFieldTitle elements that contain *UserFieldTitle Fields* (on page 286) fields. Required fields: The ObjectId must be specified.

Output:

Message: UpdateUserFieldTitlesResponse Output: boolean

GetFieldLengthUserFieldTitle Operation

Description: Returns length of variable character fields for a BO.

Service: UserFieldTitle Service (on page 284)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthUserFieldTitle Elements: FieldLength

Output:

Message: GetFieldLengthUserFieldTitleResponse Elements: One to many FieldLengthUserFieldTitles.

UserFieldTitle Fields

Field	Туре	Read Only	Filterable Orderable	Description
CreateDate	dateTime	x	x	The date this user field title was created.
CreateUser	string restricted to maxLength(2 55)	x	x	The name of the user that created this user field title.
DefaultTitle	string	Х	Х	The default title of

	restricted to maxLength(3 2)			the column name.
LastUpdate Date	dateTime	x	x	The date this user field title was last updated.
LastUpdate User	string restricted to maxLength(2 55)	x	x	The name of the user that last updated this user field title.
ObjectId	int	х	x	The unique ID generated by the system.
ObjectName	string	x		The name of the business object to which this user defined column belongs.
UserDefined Title	string restricted to maxLength(4 0)		x	The user defined column name.
UserTableN ame	string restricted to maxLength(1 6)	x	x	The table name of the user defined column.

WBSCategory Service

Operations:

CreateWBSCategories Operation (on page 288) ReadWBSCategories Operation (on page 288) UpdateWBSCategories Operation (on page 289) DeleteWBSCategories Operation (on page 289) GetFieldLengthWBSCategory Operation (on page 289)

WSDL: WBSCategory.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/WBSCategory/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/WBSCategoryService?wsdl https://<hostname>:<port number>/p6ws/services/WBSCategoryService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.wbscategory.WBSCategoryService

Description:

As their name implies, WBS categories are used to categorize WBS elements. They are defined globally.

CreateWBSCategories Operation

Description: Creates multiple WBSCategory objects in the database. You can create up to 1000 WBSCategory objects with a single call.

Service: WBSCategory Service (on page 287)

Style: Document/literal wrapped

Input:

Message: CreateWBSCategories

Elements: WBSCategory elements that contain WBSCategory Fields (on page 290) fields

Required fields: You must supply the Name field.

Output:

Message: CreateWBSCategoriesResponse Output: Zero to many ObjectId elements

ReadWBSCategories Operation

Description: Reads WBSCategory objects from the database.

Service: WBSCategory Service (on page 287)

Style: Document/literal wrapped

Input:

Message: ReadWBSCategories

Elements: One to many field names from the **WBSCategory Fields** (on page 290) field list You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadWBSCategoriesResponse

Output: Zero to many WBSCategory elements that contain *WBSCategory Fields* (on page 290) fields.

UpdateWBSCategories Operation

Description: Updates multiple WBSCategory objects in the database. You can update up to 1000 WBSCategory objects with a single call.

Service: WBSCategory Service (on page 287)

Style: Document/literal wrapped

Input:

Message: UpdateWBSCategories

Elements: WBSCategory elements that contain *WBSCategory Fields* (on page 290) fields. Required fields: The ObjectId must be specified.

Output:

Message: UpdateWBSCategoriesResponse Output: boolean

DeleteWBSCategories Operation

Description: Deletes multiple WBSCategory objects in the database. You can delete up to 1000 WBSCategory objects with a single call.

Service: WBSCategory Service (on page 287)

Style: Document/literal wrapped

Input:

Message: DeleteWBSCategories Elements: One to many ObjectId elements

Output:

Message: DeleteWBSCategoriesResponse Output: boolean

GetFieldLengthWBSCategory Operation

Description: Returns length of variable character fields for a BO.

Service: WBSCategory Service (on page 287)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthWBSCategory Elements: FieldLength

Output:

Message: GetFieldLengthWBSCategoryResponse Elements: One to many FieldLengthWBSCategories.

WBSCategory Fields

Field	Туре	Read Only	Filterable Orderable	Description
CreateDate	dateTime	x	x	The date this phase was created.
CreateUser	string restricted to maxLength(2 55)	x	x	The name of the user that created this phase.
LastUpdate Date	dateTime	x	x	The date this phase was last updated.
LastUpdate User	string restricted to maxLength(2 55)	x	x	The name of the user that last updated this phase.
Name	string restricted to maxLength(1 00)		x	The name of the WBS category. Note that the label used for WBS category is dynamic; the system administrator controls it.
ObjectId	int		x	The unique ID generated by the system.
SequenceN umber	int		x	The sequence number for sorting.

Authentication Service (On-Premises Only)

Operations:

Login Operation (on page 291) Logout Operation (on page 292) ReadDatabaseInstances Operation (on page 292) ReadSessionProperties Operation (on page 293) UpdateSessionProperties Operation (on page 294)

WSDL: Authentication.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/Authentication/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/AuthenticationService?wsdl https://<hostname>:<port number>/p6ws/services/AuthenticationService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.authentication.AuthenticationService

Description:

The Authentication service enables you to login and logout of the application and establish your credentials with the server using HTTP cookies.

Login Operation

Description: This operation uses the elements in the table below.

Service: Authentication Service (On-Premises Only) (on page 291)

Style: Document/literal wrapped

Input:

Message: LoginRequest

Elements: Authentication elements that contain Authentication fields:

Field	Туре	Description
UserName	string	The UserName of the user logging into the application.
Password	string	The Password of the user logging into the application.
DatabaseInst anceld	int	The unique identifier of the database instance.

Required Fields: You must supply a username when you use the Login operation.

Output:

Message: LoginResponse Elements: boolean

Logout Operation

Description: Logout action.

Service: Authentication Service (On-Premises Only) (on page 291)

Style: Document/literal wrapped

Input:

Message: LogoutRequest Elements: None Required fields: None

Output:

Message: LogoutResponse Elements: boolean

ReadDatabaseInstances Operation

Description: The ReadDatabaseInstances operation enables you to read multiple DatabaseInstance objects from the database. You can call the ReadDatabaseInstances operation without first logging in. DatabaseInstance objects contain information about a database instances, specifically the ID and name. The ID can be used at login time to specify which database instance to connect to. The name is more descriptive and can be presented to a graphical user interface (GUI). The P6 EPPM Web Services setup application ensures that a configuration exists in your primary database. This configuration is created with one database instance by default. To add other instances, use the Administrator application. See the *P6 EPPM Web Services Programming Guide* for more information.

Service: Authentication Service (On-Premises Only) (on page 291)

Style: Document/literal wrapped

Input:

Message: ReadDatabaseInstances Elements: None

Output:

Message: ReadDatabaseInstancesResponse Output: One to many DatabaseInstances containing the following fields:

Fields	Туре	Description
DatabaseInstanceId	int	The unique identifier of the database instance.
DatabaseEncoding	string	The method used to encode data in the database.
DatabaseName	string	The database name associated with the connection.
DatabaseType	string	 The database type associated with the connection. Currently restricted to the following values: Oracle SQL Server
DatabaseUrl	string	The Universal Resource Locator (URL) associated with the connection

ReadSessionProperties Operation

Description: The ReadSessionProperties operation enables you to read the session properties.

Service: Authentication Service (On-Premises Only) (on page 291)

Style: Document/literal wrapped

Input:

Message: ReadSessionProperties Elements: None

Output:

Message: ReadSessionPropertiesResponse

Output: Elements from the following list:

Element	Туре	Description
IsValid	boolean	Indicates whether the session is valid
UserObje ctId	int	The unique identifier of the user associated with the session.

UserNam e	String	The user's login name.
Databasel nstanceld	int	The unique identifier of the database instance that this session is logged into.
Database Encoding	string	The method used to encode data in the database.
Database Name	string	The database name that this session is logged into.
Database Type	Database TypeType string	 The database type associated with the connection. Currently restricted to the following values: Oracle SQL Server
Database Url	string	The Universal Resource Locator (URL) associated with the connection.
IgnoreNull ComplexF ields	boolean	Ignores any complex fields that have null field values. Complex fields are fields that have a structure that includes child elements. An example of a complex field is the StandardWorkWeek field that is used in the Calendar service. The default value of IgnoreNullComplexFields is true.

UpdateSessionProperties Operation

Description: Updates multiple Authentication objects in the database. You can update up to 1000 Authentication objects with a single call.

Service: Authentication Service (On-Premises Only) (on page 291)

Style: Document/literal wrapped

Input:

Message: UpdateSessionPropertiesRequest

Elements: UpdateSessionProperties elements from the following table.

Parameter Typ s e Description

IgnoreNull ComplexF ields	bool	Ignores any complex fields that have null field values. Complex fields are fields that have a structure that includes child elements. An example of a complex field is the StandardWorkWeek field that is used in the Calendar service.
		The default value of IgnoreNullComplexFields is true.

Output:

Message: UpdateSessionPropertiesResponse Output: boolean

Code Services

ActivityCode Service

Operations:

CreateActivityCodes Operation (on page 296) ReadActivityCodes Operation (on page 297) UpdateActivityCodes Operation (on page 297) DeleteActivityCodes Operation (on page 296) ReadActivityCodePath Operation (on page 297) LoadActivities Operation (on page 298) GetFieldLengthActivityCode Operation (on page 298)

WSDL: ActivityCode.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/ActivityCode/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/ActivityCodeService?wsdl https://<hostname>:<port number>/p6ws/services/ActivityCodeService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.activitycode.ActivityCodeService

Description:

Activity codes are user-defined codes to classify and categorize activities according to the organization's and project's needs. They can be defined by project as well as globally across all projects. Activity codes are hierarchical objects.

For example, if your organization has more than one location, you can create a Location code type with values such as New York, Los Angeles, and Chicago. You can then associate activities with a specific location, such as New York.

You can define three types of activity codes, global activity codes, EPS activity codes, and project activity codes. You can assign global activity codes and values to activities in all projects. You can assign EPS activity codes and values to activities only in projects in the EPS for which the codes were created. You can assign project activity codes and values to activities only in the project for which the codes were created. Each activity code can have an unlimited number of values.

CreateActivityCodes Operation

Description: Creates multiple ActivityCode objects in the database. You can create up to 1000 ActivityCode objects with a single call.

Service: ActivityCode Service (on page 295)

Style: Document/literal wrapped

Input:

Message: CreateActivityCodes

Elements: ActivityCode elements that contain ActivityCode Fields (on page 299) fields

Required fields:

- CodeTypeObjectId
- CodeValue

Output:

Message: CreateActivityCodesResponse Output: Zero to many ObjectId elements

DeleteActivityCodes Operation

Description: Deletes multiple ActivityCode objects in the database. You can delete up to 1000 ActivityCode objects with a single call.

Service: ActivityCode Service (on page 295)

Style: Document/literal wrapped

Input:

Message: DeleteActivityCodes

Elements: One to many ObjectId elements

Output:

Message: DeleteActivityCodesResponse Output: boolean

UpdateActivityCodes Operation

Description: Updates multiple ActivityCode objects in the database. You can update up to 1000 ActivityCode objects with a single call.

Service: ActivityCode Service (on page 295)

Style: Document/literal wrapped

Input:

Message: UpdateActivityCodes

Elements: ActivityCode elements that contain *ActivityCode Fields* (on page 299) fields. Required fields: The ObjectId must be specified.

Output:

Message: UpdateActivityCodesResponse Output: boolean

ReadActivityCodePath Operation

Description: Reads ActivityCode objects from the database.

Service: ActivityCode Service (on page 295)

Style: Document/literal wrapped

Input:

Message: ReadActivityCodePath Elements:

- One to many ObjectId elements
- > One to many field names from the ActivityCode Fields (on page 299) field list

Output:

Message: ReadActivityCodePathResponse

Output: Zero to many ActivityCode elements that contain *ActivityCode Fields* (on page 299) fields.

ReadActivityCodes Operation

Description: Reads ActivityCode objects from the database.

Service: ActivityCode Service (on page 295)

Style: Document/literal wrapped

Input:

Message: ReadActivityCodes

Elements: One to many field names from the ActivityCode Fields (on page 299) field list

You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadActivityCodesResponse

Output: Zero to many ActivityCode elements that contain *ActivityCode Fields* (on page 299) fields.

GetFieldLengthActivityCode Operation

Description: Returns length of variable character fields for a BO.

Service: ActivityCode Service (on page 295)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthActivityCode Elements: FieldLength

Output:

Message: GetFieldLengthActivityCodeResponse Elements: One to many FieldLengthActivityCodes.

LoadActivities Operation

Description: Load the Activity objects to which this activity code is assigned.

Service: ActivityCode Service (on page 295)

Style: Document/literal wrapped

Input:

Message: LoadActivities

Elements:

Name	Туре	Description	Required
ObjectId	int	The unique identifier for the activity code.	Yes

Fields	string	ActivityCode ele ments that contain <i>ActivityCode</i> <i>Fields</i> (on page 299) fields.	Yes
WhereClause	string	Optional clause used to filter results.	No
OrderBy	string	Optional clause to specify the order in which results are returned.	No

Output:

Message: LoadActivitiesResponse

Elements: Zero to many ActivityObjectId elements.

Name	Туре	Description
ActivityObjectIds	int	Unique identifiers for the activities returned on operation success.

ActivityCode Fields

Field	Туре	Read Only	Filterable Orderable	Description
CodeConcat Name	string	x		The activity code name with its associated hierarchy. Required for IPMDAR.
CodeTypeN ame	string restricted to maxLength(4 0)	x	x	The name of the parent code type for this code.
CodeTypeO bjectId	int		X	The unique ID of the parent activity code type.

CodeTypeS cope	string restricted to 'Global' 'EPS' 'Project'	x	x	the scope of the parent activity code type: Global, EPS, or Project. An activity code with Global scope can be assigned to any activity. An activity code with EPS scope can be assigned only to an activity within a project under that particular EPS. Similarly, an activity code with Project scope can be assigned only to an activity within that particular project.
CodeValue	string restricted to maxLength(6 0)		x	The value of the activity code.
Color	string restricted to pattern '#[A-Fa-f0-9]{ 6} '		x	The Hex representation for the color e.g. 0xFFFFFF.
CreateDate	dateTime	x	x	The date this activity code was created.
CreateUser	string restricted to maxLength(2 55)	x	x	The name of the user that created this activity code.
Description	string restricted to maxLength(1 20)		x	The description of the activity code.
LastUpdate	dateTime	Х	Х	The date this

Date				activity code was last updated.
LastUpdate User	string restricted to maxLength(2 55)	x	x	The name of the user that last updated this activity code.
ObjectId	int		х	The unique ID generated by the system.
ParentObjec tId	int		x	The unique ID of the parent activity code of this activity code in the hierarchy.
ProjectObje ctId	int	X	X	The unique project ID of the parent code type for this code if code type scope is 'Project' or 'EPS', null for code types with scope 'Global'.
SequenceN umber	int		x	The sequence number for sorting.

ActivityCodeType Service

Operations:

CreateActivityCodeTypes Operation (on page 302) ReadActivityCodeTypes Operation (on page 302) UpdateActivityCodeTypes Operation (on page 303) DeleteActivityCodeTypes Operation (on page 303) GetFieldLengthActivityCodeType Operation (on page 304)

WSDL: ActivityCodeType.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/ActivityCodeType/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/ActivityCodeTypeService?wsdl https://<hostname>:<port number>/p6ws/services/ActivityCodeTypeService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.activitycodetype.ActivityCodeTypeService

Description:

Activity code types provide a way of classifying activity codes. Activity codes are user-defined codes to classify and categorize activities according to the organization's and project's needs. For example, if your organization has more than one location, you can create a Location code type with values such as New York, Los Angeles, and Chicago. You can then associate activities with a specific location, such as New York. You can define activity codes at three different scopes: global activity codes, EPS activity codes, and project activity codes. You can assign global activity codes and values to activities in all projects. You can assign EPS and project activity codes and values to activities only in the EPS and project for which the codes were created. Each ActivityCode can have an unlimited number of values. You can change the scope of an ActivityCodeType from project to EPS, project to Global, and EPS to global. However, you cannot change the scope from EPS to project or from global to anything else. Within the EPS scope, you can always move an ActivityCodeType to a higher level in the EPS structure. However, moving it to a lower level or outside of the EPS hierarchy is possible only if the ActivityCodeType's values are not assigned to any activities. If the ActivityCodeType value assignment exists, an exception will be thrown.

CreateActivityCodeTypes Operation

Description: Creates multiple ActivityCodeType objects in the database. You can create up to 1000 ActivityCodeType objects with a single call.

Service: ActivityCodeType Service (on page 301)

Style: Document/literal wrapped

Input:

Message: CreateActivityCodeTypes

Elements: ActivityCodeType elements that contain *ActivityCodeType Fields* (on page 304) fields

Required fields: You must supply the Name field.

Output:

Message: CreateActivityCodeTypesResponse Output: Zero to many ObjectId elements

ReadActivityCodeTypes Operation

Description: Reads ActivityCodeType objects from the database.

Service: ActivityCodeType Service (on page 301)

Style: Document/literal wrapped

Input:

Message: ReadActivityCodeTypes

Elements: One to many field names from the *ActivityCodeType Fields* (on page 304) field list

You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadActivityCodeTypesResponse

Output: Zero to many ActivityCodeType elements that contain ActivityCodeType fields.

UpdateActivityCodeTypes Operation

Description: Updates multiple ActivityCodeType objects in the database. You can update up to 1000 ActivityCodeType objects with a single call.

Service: ActivityCodeType Service (on page 301)

Style: Document/literal wrapped

Input:

Message: UpdateActivityCodeTypes

Elements: ActivityCodeType elements that contain *ActivityCodeType Fields* (on page 304) fields.

Required fields: The ObjectId must be specified.

Output:

Message: UpdateActivityCodeTypesResponse Output: boolean

DeleteActivityCodeTypes Operation

Description: Deletes multiple ActivityCodeType objects in the database. You can delete up to 1000 ActivityCodeType objects with a single call.

Service: ActivityCodeType Service (on page 301)

Style: Document/literal wrapped

Input:

Message: DeleteActivityCodeTypes Elements: One to many ObjectId elements

Output:

Message: DeleteActivityCodeTypesResponse Output: boolean

GetFieldLengthActivityCodeType Operation

Description: Returns length of variable character fields for a BO.

Service: ActivityCodeType Service (on page 301)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthActivityCodeType Elements: FieldLength

Output:

Message: GetFieldLengthActivityCodeTypeResponse Elements: One to many FieldLengthActivityCodeTypes.

ActivityCodeType Fields

Field	Туре	Read Only	Filterable Orderable	Description
CreateDate	dateTime	х	х	The date this Activity Code Type was created.
CreateUser	string restricted to maxLength(2 55)	x	x	The name of the user that created this ActivityCodeType.
EPSCodeTy peHierarchy	string	x		The field that maintains the EPS Activity Code Type Hierarchy.
EPSObjectI d	int		Orderable only	The unique ID of the associated EPS.
IsBaseline	boolean	x	x	The boolean value indicating if this business object is related to a Project or Baseline

IsSecureCo de	boolean		x	the flag indicating whether this is a secure Activity Code Type.
IsTemplate	boolean	x	x	The boolean value indicating if this business object is related to a template Project.
LastUpdate Date	dateTime	x	x	The date this Activity Code Type was last updated.
LastUpdate User	string restricted to maxLength(2 55)	x	x	The name of the user that last updated this ActivityCodeType.
Length	int restricted to minInclusive(1) maxInclusive(60)		x	The maximum number of characters allowed for values of this activity code.
Name	string restricted to maxLength(4 0)		x	The name of the activity code type.
ObjectId	int		x	The unique ID generated by the system.
ProjectObje ctId	int		x	The unique ID of the associated project.
RefProjectO bjectIds	string			The unique ID associated with a project whose activities have this code assigned. This data is only exported if more than one project is included in the export and if more

			than one project contains activities to which the EPS scoped activity code is assigned.
Scope	string restricted to 'Global' 'EPS' 'Project'	x	The scope of the code type: Global, EPS, or Project. An activity code with Global scope can be assigned to any activity. An activity code with EPS scope can be assigned only to an activity within a project under that particular EPS. Similarly, an activity code with Project scope can be assigned only to an activity within that particular project.
SequenceN umber	int	x	The sequence number for sorting.

ProjectCode Service

Operations:

CreateProjectCodes Operation (on page 307) ReadProjectCodes Operation (on page 308) UpdateProjectCodes Operation (on page 308) DeleteProjectCodes Operation (on page 308) ReadProjectCodePath Operation (on page 309) LoadProjects Operation (on page 309) GetFieldLengthProjectCode Operation (on page 309)

WSDL: ProjectCode.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/ProjectCode/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/ProjectCodeService?wsdl https://<hostname>:<port number>/p6ws/services/ProjectCodeService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.projectcode.ProjectCodeService

Description:

Project codes are user-defined codes to classify and categorize projects across the enterprise. They are defined globally. Project codes are hierarchical objects.

You can organize the projects in your EPS in groups according to specific categories, such as location and manager, using project codes. You can define unlimited hierarchical project codes to fulfill the filtering, sorting, and reporting requirements for your projects, and arrange them hierarchically for easier management and assignment.

The Project Codes dictionary is global to the entire enterprise. Assign a project code value to projects for each project code you create.

Use project codes to group projects, consolidate large amounts of information, and to distinguish one project from another. All projects assigned a value for a code are grouped by their corresponding values when you group and sort by project code in the Project Management application.

CreateProjectCodes Operation

Description: Creates multiple ProjectCode objects in the database. You can create up to 1000 ProjectCode objects with a single call.

Service: ProjectCode Service (on page 306)

Style: Document/literal wrapped

Input:

Message: CreateProjectCodes

Elements: ProjectCode elements that contain *ProjectCode Fields* (on page 310) fields

Required fields:

- CodeTypeObjectId
- CodeValue

Output:

Message: CreateProjectCodesResponse Output: Zero to many ObjectId elements

ReadProjectCodes Operation

Description: Reads ProjectCode objects from the database.

Service: ProjectCode Service (on page 306)

Style: Document/literal wrapped

Input:

Message: ReadProjectCodes

Elements: One to many field names from the *ProjectCode Fields* (on page 310) field list You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadProjectCodesResponse

Output: Zero to many ProjectCode elements that contain *ProjectCode Fields* (on page 310) fields.

UpdateProjectCodes Operation

Description: Updates multiple ProjectCode objects in the database. You can update up to 1000 ProjectCode objects with a single call.

Service: ProjectCode Service (on page 306)

Style: Document/literal wrapped

Input:

Message: UpdateProjectCodes

Elements: ProjectCode elements that contain *ProjectCode Fields* (on page 310) fields. Required fields: The ObjectId must be specified.

Output:

Message: UpdateProjectCodesResponse Output: boolean

DeleteProjectCodes Operation

Description: Deletes multiple ProjectCode objects in the database. You can delete up to 1000 ProjectCode objects with a single call.

Service: ProjectCode Service (on page 306)

Style: Document/literal wrapped

Input:

Message: DeleteProjectCodes Elements: One to many ObjectId elements

Output:

Message: DeleteProjectCodesResponse Output: boolean

GetFieldLengthProjectCode Operation

Description: Returns length of variable character fields for a BO.

Service: ProjectCode Service (on page 306)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthProjectCode Elements: FieldLength

Output:

Message: GetFieldLengthProjectCodeResponse Elements: One to many FieldLengthProjectCodes.

ReadProjectCodePath Operation

Description: Reads ProjectCode objects from the database.

Service: ProjectCode Service (on page 306)

Style: Document/literal wrapped

Input:

Message: ReadProjectCodePath Elements:

One to many ObjectId elements

• One to many field names from the *ProjectCode Fields* (on page 310) field list.

Output:

Message: ReadProjectCodePathResponse

Output: Zero to many ProjectCode elements that contain ProjectCode fields. Returns the ProjectCode element that you specify and all of its ancestor elements.

LoadProjects Operation

Description: Loads projects to which the specified project code is assigned.

Service: ProjectCode Service (on page 306)

Input:

Message: LoadProjects Elements:

Name	Туре	Description	Required
ObjectId	int	Unique identifier for the project code.	Yes
Fields	string	One or more Project Fields (on page 597) from the project fields list.	Yes
WhereClause	string	Optional clause used to filter results.	No
OrderBy	string	Optional clause used to specify the order in which results are returned.	No

Output:

Message:LoadProjectsResponse

Elements:

Name	Туре	Description
ProjectObjectIds	string	Unique identifiers for the projects returned on operation success.

ProjectCode Fields

Field	Туре	Read Only	Filterable Orderable	Description
CodeTypeN ame	string restricted to maxLength(6 0)	x	x	The name of the parent code type for this code.

CodeTypeO bjectId	int		х	The unique ID of the parent project code type.
CodeValue	string restricted to maxLength(6 0)		x	The value of the project code.
CreateDate	dateTime	х	x	The date this project code was created.
CreateUser	string restricted to maxLength(2 55)	x	x	The name of the user that created this project code.
Description	string restricted to maxLength(1 00)		x	The description of the project code.
LastUpdate Date	dateTime	x	x	The date this project code was last updated.
LastUpdate User	string restricted to maxLength(2 55)	x	x	The name of the user that last updated this project code.
ObjectId	int		х	The unique ID generated by the system.
ParentObje ctId	int		x	The unique ID of the parent project code of this project code in the hierarchy.
SequenceN umber	int		x	The sequence number for sorting.
Weight	double restricted to minInclusive(0.0)		x	The weight for this code value.

maxInclusive(
999999.0)		

ProjectCodeType Service

Operations:

CreateProjectCodeTypes Operation (on page 312) ReadProjectCodeTypes Operation (on page 313) UpdateProjectCodeTypes Operation (on page 313) DeleteProjectCodeTypes Operation (on page 314) GetFieldLengthProjectCodeType Operation (on page 314)

WSDL: ProjectCodeType.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/ProjectCodeType/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/ProjectCodeTypeService?wsdl https://<hostname>:<port number>/p6ws/services/ProjectCodeTypeService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.projectcodetype.ProjectCodeTypeService

Description:

Project code types provide a way of classifying project codes. Project codes are user-defined codes to classify and categorize projects across the enterprise. They are defined globally.

You can organize the projects in your EPS in groups according to specific categories, such as location and manager, using project codes. You can define unlimited hierarchical project codes to fulfill the filtering, sorting, and reporting requirements for your projects, and arrange them hierarchically for easier management and assignment.

The Project Codes dictionary is global to the entire enterprise. Assign a project code value to projects for each project code you create.

Use project codes to group projects, consolidate large amounts of information, and to distinguish one project from another. All projects assigned a value for a code are grouped by their corresponding values when you group and sort by project code in the Project Management application.

CreateProjectCodeTypes Operation

Description: Creates multiple ProjectCodeType objects in the database. You can create up to 1000 ProjectCodeType objects with a single call.

Service: ProjectCodeType Service (on page 312)

Style: Document/literal wrapped

Input:

Message: CreateProjectCodeTypes

Elements: ProjectCodeType elements that contain *ProjectCodeType Fields* (on page 314) fields

Required fields: You must supply the Name field.

Output:

Message: CreateProjectCodeTypesResponse Output: Zero to many ObjectId elements

ReadProjectCodeTypes Operation

Description: Reads ProjectCodeType objects from the database.

Service: ProjectCodeType Service (on page 312)

Style: Document/literal wrapped

Input:

Message: ReadProjectCodeTypes

Elements: One to many field names from the *ProjectCodeType Fields* (on page 314) field list

You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadProjectCodeTypesResponse

Output: Zero to many ProjectCodeType elements that contain *ProjectCodeType Fields* (on page 314) fields.

UpdateProjectCodeTypes Operation

Description: Updates multiple ProjectCodeType objects in the database. You can update up to 1000 ProjectCodeType objects with a single call.

Service: ProjectCodeType Service (on page 312)

Style: Document/literal wrapped

Input:

Message: UpdateProjectCodeTypes

Elements: ProjectCodeType elements that contain *ProjectCodeType Fields* (on page 314) fields.

Required fields: The ObjectId must be specified.

Output:

Message: UpdateProjectCodeTypesResponse Output: boolean

DeleteProjectCodeTypes Operation

Description: Deletes multiple ProjectCodeType objects in the database. You can delete up to 1000 ProjectCodeType objects with a single call.

Service: ProjectCodeType Service (on page 312)

Style: Document/literal wrapped

Input:

Message: DeleteProjectCodeTypes Elements: One to many ObjectId elements

Output:

Message: DeleteProjectCodeTypesResponse Output: boolean

GetFieldLengthProjectCodeType Operation

Description: Returns length of variable character fields for a BO.

Service: ProjectCodeType Service (on page 312)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthProjectCodeType Elements: FieldLength

Output:

Message: GetFieldLengthProjectCodeTypeResponse Elements: One to many FieldLengthProjectCodeTypes.

ProjectCodeType Fields

Field	Туре	Read Only	Filterable Orderable	Description
CreateDate	dateTime	x	х	The date this project code type

				was created.
CreateUser	string	x	x	The name of the user that created this project code type.
IsSecureCo de	boolean		x	the flag indicating whether this is a secure Project Code Type.
LastUpdate Date	dateTime	x	x	The date this project code type was last updated.
LastUpdate User	string	x	x	The name of the user that last updated this project code type.
Length	int restricted to minInclusive(1) maxInclusive(60)		x	The maximum number of characters allowed for values of this project code.
MaxCodeVa lueWeight	double restricted to minInclusive(0.0) maxInclusive(999999.0)		x	The maximum weight of the code values for this project code type.
Name	string restricted to maxLength(6 0)		x	The name of the project code type.
ObjectId	int		x	The unique ID generated by the system.
SequenceN umber	int		x	The sequence number for sorting.
Weight	double restricted to minInclusive(x	The weight for this project code type.

maxInclusive(0.0)	
		maxInclusive(
999999.0)		999999.0)	

ResourceCode Service

Operations:

CreateResourceCodes Operation (on page 316) ReadResourceCodes Operation (on page 317) UpdateResourceCodes Operation (on page 317) DeleteResourceCodes Operation (on page 318) ReadResourceCodePath Operation (on page 318) LoadResources Operation (on page 319) GetFieldLengthResourceCode Operation (on page 318)

WSDL: ResourceCode.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/ResourceCode/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/ResourceCodeService?wsdl https://<hostname>:<port number>/p6ws/services/ResourceCodeService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.resourcecode.ResourceCodeService

Description:

Resource codes are user-defined codes to classify and categorize resources across the enterprise. They are defined globally.

With potentially hundreds of resources being used across an enterprise of projects, codes provide another method for filtering the resources you need to access quickly, or for grouping resources for analysis and summarization in layouts. You can also use resource codes to group, sort, and filter resources in profiles and spreadsheets.

CreateResourceCodes Operation

Description: Creates multiple ResourceCode objects in the database. You can create up to 1000 ResourceCode objects with a single call.

Service: ResourceCode Service (on page 316)

Style: Document/literal wrapped

Input:

Message: CreateResourceCodes

Elements: ResourceCode elements that contain *ResourceCode Fields* (on page 320) fields Required fields:

CodeTypeObjectId

CodeValue

Output:

Message: CreateResourceCodesResponse Output: Zero to many ObjectId elements

ReadResourceCodes Operation

Description: Reads ResourceCode objects from the database.

Service: ResourceCode Service (on page 316)

Style: Document/literal wrapped

Input:

Message: ReadResourceCodes

Elements: One to many field names from the **ResourceCode Fields** (on page 320) field list You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadResourceCodesResponse Output: Zero to many ResourceCode elements that contain ResourceCode fields.

UpdateResourceCodes Operation

Description: Updates multiple ResourceCode objects in the database. You can update up to 1000 ResourceCode objects with a single call.

Service: ResourceCode Service (on page 316)

Style: Document/literal wrapped

Input:

Message: UpdateResourceCodes

Elements: ResourceCode elements that contain *ResourceCode Fields* (on page 320) fields. Required fields: The ObjectId must be specified.

Output:

Message: UpdateResourceCodesResponse

Output: boolean

DeleteResourceCodes Operation

Description: Deletes multiple ResourceCode objects in the database. You can delete up to 1000 ResourceCode objects with a single call.

Service: ResourceCode Service (on page 316)

Style: Document/literal wrapped

Input:

Message: DeleteResourceCodes Elements: One to many ObjectId elements

Output:

Message: DeleteResourceCodesResponse Output: boolean

GetFieldLengthResourceCode Operation

Description: Returns length of variable character fields for a BO.

Service: ResourceCode Service (on page 316)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthResourceCode Elements: FieldLength

Output:

Message: GetFieldLengthResourceCodeResponse Elements: One to many FieldLengthResourceCodes.

ReadResourceCodePath Operation

Description: Reads ResourceCode objects from the database.

Service: ResourceCode Service (on page 316)

Style: Document/literal wrapped

Input:

Message: ReadResourceCodePath Elements:

- One to many ObjectId elements
- One to many field names from the *ResourceCode Fields* (on page 320) field list.

Output:

Message: ReadResourceCodePathResponse

Output: Zero to many ResourceCode elements that contain *ResourceCode Fields* (on page 320) fields.

LoadResources Operation

Description: Loads resources associated to the specified resource code.

Input:

Message: LoadResources

Elements:

Name	Туре	Description	Required
ObjectId	int	The unique identifier for the resource code.	Yes
Fields	string	One or more ResourceCode Fields (on page 320) from the Resource Codes field list.	Yes
WhereClause	string	Optional clause used to filter results.	No
OrderBy	string	Optional clause used to specify the order in which results are returned.	No

Output:

Message: LoadResourcesResponse Elements:

NameTypeDescriptionResourceObjectIdsstringOne or more unique
identifiers for resources
returned on operation
completion.

ResourceCode Fields

Field	Туре	Read Only	Filterable Orderable	Description
CodeConcat Name	string	x		The resource code name with its associated hierarchy. Required for IPMDAR.
CodeTypeN ame	string restricted to maxLength(4 0)	x	x	The name of the parent code type for this code.
CodeTypeO bjectId	int		x	The unique ID of the parent resource code type.
CodeValue	string restricted to maxLength(3 2)		x	The value of the resource code.
CreateDate	dateTime	x	x	The date this resource code was created.
CreateUser	string	x	x	The name of the user that created this resource code.
Description	string restricted to maxLength(1 00)		x	The description of the resource code.
LastUpdate Date	dateTime	х	x	The date this resource code was last updated.
LastUpdate User	string	x	x	The name of the user that last updated this resource code.
ObjectId	int		x	The unique ID generated by the system.

ParentObjec tId	int	x	The unique ID of the parent resource code of this resource code in the hierarchy.
SequenceN umber	int	х	The sequence number for sorting.

ResourceCodeType Service

Operations:

CreateResourceCodeTypes Operation (on page 322) ReadResourceCodeTypes Operation (on page 322) UpdateResourceCodeTypes Operation (on page 322) DeleteResourceCodeTypes Operation (on page 323) GetFieldLengthResourceCodeType Operation (on page 323)

WSDL: ResourceCodeType.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/ResourceCodeType/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/ResourceCodeTypeService?wsdl https://<hostname>:<port number>/p6ws/services/ResourceCodeTypeService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.resourcecodetype.ResourceCodeTypeService

Description:

Resource code types provide a way of classifying resource codes. Resource codes are user-defined codes to classify and categorize resources across the enterprise. They are defined globally.

With potentially hundreds of resources being used across an enterprise of projects, codes provide another method for filtering the resources you need to access quickly, or for grouping resources for analysis and summarization in layouts. You can also use resource codes to group, sort, and filter resources in profiles and spreadsheets.

CreateResourceCodeTypes Operation

Description: Creates multiple ResourceCodeType objects in the database. You can create up to 1000 ResourceCodeType objects with a single call.

Service: ResourceCodeType Service (on page 321)

Style: Document/literal wrapped

Input:

Message: CreateResourceCodeTypes

Elements: ResourceCodeType elements that contain *ResourceCodeType Fields* (on page 324) fields

Required fields: You must supply the Name field.

Output:

Message: CreateResourceCodeTypesResponse Output: Zero to many ObjectId elements

ReadResourceCodeTypes Operation

Description: Reads ResourceCodeType objects from the database.

Service: ResourceCodeType Service (on page 321)

Style: Document/literal wrapped

Input:

Message: ReadResourceCodeTypes

Elements: One to many field names from the *ResourceCodeType Fields* (on page 324) field list.

You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadResourceCodeTypesResponse

Output: Zero to many ResourceCodeType elements that contain *ResourceCodeType Fields* (on page 324) fields.

UpdateResourceCodeTypes Operation

Description: Updates multiple ResourceCodeType objects in the database. You can update up to 1000 ResourceCodeType objects with a single call.

Service: ResourceCodeType Service (on page 321)

Style: Document/literal wrapped

Input:

Message: UpdateResourceCodeTypes

Elements: ResourceCodeType elements that contain *ResourceCodeType Fields* (on page 324) fields.

Required fields: The ObjectId must be specified.

Output:

Message: UpdateResourceCodeTypesResponse Output: boolean

DeleteResourceCodeTypes Operation

Description: Deletes multiple ResourceCodeType objects in the database. You can delete up to 1000 ResourceCodeType objects with a single call.

Service: ResourceCodeType Service (on page 321)

Style: Document/literal wrapped

Input:

Message: DeleteResourceCodeTypes Elements: One to many ObjectId elements

Output:

Message: DeleteResourceCodeTypesResponse Output: boolean

GetFieldLengthResourceCodeType Operation

Description: Returns length of variable character fields for a BO.

Service: ResourceCodeType Service (on page 321)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthResourceCodeType Elements: FieldLength

Output:

Message: GetFieldLengthResourceCodeTypeResponse Elements: One to many FieldLengthResourceCodeTypes.

ResourceCodeType Fields

Field	Туре	Read Only	Filterable Orderable	Description
CreateDate	dateTime	x	x	The date this resource code type was created.
CreateUser	string restricted to maxLength(2 55)	x	x	The name of the user that created this resource code type.
IsSecureCo de	boolean		x	the flag indicating whether this is a secure Resource Code Type.
LastUpdate Date	dateTime	x	x	The date this resource code type was last updated.
LastUpdate User	string restricted to maxLength(2 55)	x	x	The name of the user that last updated this resource code type.
Length	int restricted to minInclusive(1) maxInclusive(40)		x	The maximum number of characters allowed for values of this resource code.
Name	string restricted to maxLength(3 2)		x	The name of the resource code type.
ObjectId	int		х	The unique ID generated by the system.
SequenceN umber	int		x	The sequence number for sorting.

RoleCode Service

Operations:

CreateRoleCodes Operation (on page 325) ReadRoleCodes Operation (on page 326) UpdateRoleCodes Operation (on page 326) DeleteRoleCodes Operation (on page 327) ReadRoleCodePath Operation (on page 327) LoadRoles Operation (on page 328) GetFieldLengthRoleCode Operation (on page 327)

WSDL: RoleCode.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/RoleCode/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/RoleCodeService?wsdl https://<hostname>:<port number>/p6ws/services/RoleCodeService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.rolecode.RoleCodeService

Description:

Role codes are user-defined codes to classify and categorize roles across the enterprise. They are defined globally.

With potentially hundreds of roles being used across an enterprise of projects, codes provide another method for filtering the roles you need to access quickly, or for grouping roles for analysis and summarization in layouts. You can also use role codes to group, sort, and filter roles in profiles and spreadsheets.

CreateRoleCodes Operation

Description: Creates multiple RoleCode objects in the database. You can create up to 1000 RoleCode objects with a single call.

Service: RoleCode Service (on page 325)

Style: Document/literal wrapped

Input:

Message: CreateRoleCodes

Elements: RoleCode elements that contain RoleCode Fields (on page 329) fields

Required fields:

- CodeTypeObjectId
- CodeValue

Output:

Message: CreateRoleCodesResponse Output: Zero to many ObjectId elements

ReadRoleCodes Operation

Description: Reads RoleCode objects from the database.

Service: RoleCode Service (on page 325)

Style: Document/literal wrapped

Input:

Message: ReadRoleCodes

Elements: One to many field names from the **RoleCode Fields** (on page 329) field list You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadRoleCodesResponse

Output: Zero to many RoleCode elements that contain RoleCode fields.

UpdateRoleCodes Operation

Description: Updates multiple RoleCode objects in the database. You can update up to 1000 RoleCode objects with a single call.

Service: RoleCode Service (on page 325)

Style: Document/literal wrapped

Input:

Message: UpdateRoleCodes

Elements: RoleCode elements that contain *RoleCode Fields* (on page 329) fields.

Required fields: The ObjectId must be specified.

Output:

Message: UpdateRoleCodesResponse Output: boolean

DeleteRoleCodes Operation

Description: Deletes multiple RoleCode objects in the database. You can delete up to 1000 RoleCode objects with a single call.

Service: RoleCode Service (on page 325)

Style: Document/literal wrapped

Input:

Message: DeleteRoleCodes Elements: One to many ObjectId elements

Output:

Message: DeleteRoleCodesResponse Output: boolean

GetFieldLengthRoleCode Operation

Description: Returns length of variable character fields for a BO.

Service: RoleCode Service (on page 325)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthRoleCode Elements: FieldLength

Output:

Message: GetFieldLengthRoleCodeResponse Elements: One to many FieldLengthRoleCodes.

ReadRoleCodePath Operation

Description: Reads RoleCode objects from the database.

Service: RoleCode Service (on page 325)

Style: Document/literal wrapped

Input:

Message: ReadRoleCodePath Elements:

- One to many ObjectId elements
- One to many field names from the *RoleCode Fields* (on page 329) field list.

Output:

Message: ReadRoleCodePathResponse

Output: Zero to many RoleCode elements that contain *RoleCode Fields* (on page 329) fields.

LoadRoles Operation

Description: Loads roles associated to the specified role code.

Input:

Message: LoadRoles

Elements:

Name	Туре	Description	Required
ObjectId	int	The unique identifier for the role code.	Yes
Fields	string	One or more RoleCode Fields (on page 329) from the Role Codes field list.	Yes
WhereClause	string	Optional clause used to filter results.	No
OrderBy	string	Optional clause used to specify the order in which results are returned.	No

Output:

Message: LoadRolesResponse

Elements:

Name	Туре	Description
RoleObjectIds	string	One or more unique identifiers for roles returned on operation completion.

RoleCode Fields

Field	Туре	Read Only	Filterable Orderable	Description
CodeTypeN ame	string restricted to maxLength(4 0)	X	X	The name of the parent code type for this code.
CodeTypeO bjectId	int		x	The unique ID of the parent resource code type.
CodeValue	string restricted to maxLength(3 2)		x	The value of the resource code.
CreateDate	dateTime	х	х	The date this resource code was created.
CreateUser	string	х	х	The name of the user that created this resource code.
Description	string restricted to maxLength(1 00)		x	The description of the resource code.
LastUpdate Date	dateTime	x	x	The date this resource code was last updated.
LastUpdate User	string	x	x	The name of the user that last updated this resource code.
ObjectId	int		х	The unique ID generated by the system.
ParentObjec tId	int		x	The unique ID of the parent resource code of this resource code in the hierarchy.

SequenceN umber	int		*	The sequence number for sorting.
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RoleCodeType Service

Operations:

CreateRoleCodeTypes Operation (on page 330) ReadRoleCodeTypes Operation (on page 331) UpdateRoleCodeTypes Operation (on page 331) DeleteRoleCodeTypes Operation (on page 332) GetFieldLengthRoleCodeType Operation (on page 332)

WSDL: RoleCodeType.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/RoleCodeType/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/RoleCodeTypeService?wsdl https://<hostname>:<port number>/p6ws/services/RoleCodeTypeService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.Rolecodetype.RoleCodeTypeService

Description:

Role code types provide a way of classifying role codes. Role codes are user-defined codes to classify and categorize roles across the enterprise. They are defined globally.

With potentially hundreds of roles being used across an enterprise of projects, codes provide another method for filtering the roles you need to access quickly, or for grouping roles for analysis and summarization in layouts. You can also use role codes to group, sort, and filter roles in profiles and spreadsheets.

CreateRoleCodeTypes Operation

Description: Creates multiple RoleCodeType objects in the database. You can create up to 1000 RoleCodeType objects with a single call.

Service: RoleCodeType Service (on page 330)

Style: Document/literal wrapped

Input:

Message: CreateRoleCodeTypes

Elements: RoleCodeType elements that contain RoleCodeType Fields (on page 332) fields

Required fields: You must supply the Name field.

Output:

Message: CreateRoleCodeTypesResponse Output: Zero to many ObjectId elements

ReadRoleCodeTypes Operation

Description: Reads RoleCodeType objects from the database.

Service: RoleCodeType Service (on page 330)

Style: Document/literal wrapped

Input:

Message: ReadRoleCodeTypes

Elements: One to many field names from the *RoleCodeType Fields* (on page 332) field list. You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadRoleCodeTypesResponse

Output: Zero to many RoleCodeType elements that contain *RoleCodeType Fields* (on page 332) fields.

UpdateRoleCodeTypes Operation

Description: Updates multiple RoleCodeType objects in the database. You can update up to 1000 RoleCodeType objects with a single call.

Service: RoleCodeType Service (on page 330)

Style: Document/literal wrapped

Input:

Message: UpdateRoleCodeTypes

Elements: RoleCodeType elements that contain *RoleCodeType Fields* (on page 332) fields. Required fields: The ObjectId must be specified.

Output:

Message: UpdateRoleCodeTypesResponse Output: boolean

DeleteRoleCodeTypes Operation

Description: Deletes multiple RoleCodeType objects in the database. You can delete up to 1000 RoleCodeType objects with a single call.

Service: RoleCodeType Service (on page 330)

Style: Document/literal wrapped

Input:

Message: DeleteRoleCodeTypes Elements: One to many ObjectId elements

Output:

Message: DeleteRoleCodeTypesResponse Output: boolean

GetFieldLengthRoleCodeType Operation

Description: Returns length of variable character fields for a BO.

Service: RoleCodeType Service (on page 330)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthRoleCodeType Elements: FieldLength

Output:

Message: GetFieldLengthRoleCodeTypeResponse Elements: One to many FieldLengthRoleCodeTypes.

RoleCodeType Fields

Field	Туре	Read Only	Filterable Orderable	Description
CreateDate	dateTime	x	х	The date this role code type was created.
CreateUser	string restricted to maxLength(2 55)	x	x	The name of the user that created this role code type.
IsSecureCo de	boolean		x	the flag indicating whether this is a

				secure role code type.
LastUpdate Date	dateTime	x	x	The date this role code type was last updated.
LastUpdate User	string restricted to maxLength(2 55)	x	x	The name of the user that last updated this role code type.
Length	int restricted to minInclusive(1) maxInclusive(40)		x	The maximum number of characters allowed for values of this role code.
Name	string restricted to maxLength(3 2)		x	The name of the role code type.
ObjectId	int		x	The unique ID generated by the system.
SequenceN umber	int		x	The sequence number for sorting.

ResourceAssignmentCode Service

Operations:

CreateResourceAssignmentCodes Operation (on page 334) ReadResourceAssignmentCodes Operation (on page 334) UpdateResourceAssignmentCodes Operation (on page 335) DeleteResourceAssignmentCodes Operation (on page 335) ReadResourceAssignmentCodePath Operation (on page 336) LoadResourceAssignments Operation (on page 336) GetFieldLengthResourceAssignmentCode Operation (on page 336)

WSDL: ResourceAssignmentCode.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/ResourceAssignmentCode/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/ResourceAssignmentCodeService?wsdl https://<hostname>:<port number>/p6ws/services/ResourceAssignmentCodeService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.resourcecode.ResourceAssignmentCodeService

Description:

Resource and role assignment codes are user-defined codes to classify and categorize resource and role assignments across the enterprise. They are defined globally.

With potentially hundreds of resources and roles being assigned to activities across an enterprise of projects, assignment codes provide another method for filtering the assignments you need to access quickly, or for grouping assignments for analysis and summarization in layouts. You can also use assignment codes to group, sort, and filter assignments in profiles and spreadsheets.

CreateResourceAssignmentCodes Operation

Description: Creates multiple ResourceAssignmentCode objects in the database. You can create up to 1000 ResourceAssignmentCode objects with a single call.

Service: ResourceAssignmentCode Service (on page 333)

Style: Document/literal wrapped

Input:

Message: CreateResourceAssignmentCodes

Elements: ResourceAssignmentCode elements that contain *ResourceAssignmentCode Fields* (on page 337) fields

Required fields:

- CodeTypeObjectId
- CodeValue

Output:

Message: CreateResourceAssignmentCodesResponse Output: Zero to many ObjectId elements

ReadResourceAssignmentCodes Operation

Description: Reads ResourceAssignmentCode objects from the database.

Service: ResourceAssignmentCode Service (on page 333)

Style: Document/literal wrapped

Input:

Message: ReadResourceAssignmentCodes

Elements: One to many field names from the *ResourceAssignmentCode Fields* (on page 337) field list

You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadResourceAssignmentCodesResponse Output: Zero to many ResourceAssignmentCode elements that contain **ResourceAssignmentCode Fields** (on page 337).

UpdateResourceAssignmentCodes Operation

Description: Updates multiple ResourceAssignmentCode objects in the database. You can update up to 1000 ResourceAssignmentCode objects with a single call.

Service: ResourceAssignmentCode Service (on page 333)

Style: Document/literal wrapped

Input:

Message: UpdateResourceAssignmentCodes Elements: ResourceAssignmentCode elements that contain *ResourceAssignmentCode Fields* (on page 337) fields.

Required fields: The ObjectId must be specified.

Output:

Message: UpdateResourceAssignmentCodesResponse Output: boolean

DeleteResourceAssignmentCodes Operation

Description: Deletes multiple ResourceAssignmentCode objects in the database. You can delete up to 1000 ResourceAssignmentCode objects with a single call.

Service: ResourceAssignmentCode Service (on page 333)

Style: Document/literal wrapped

Input:

Message: DeleteResourceAssignmentCodes Elements: One to many ObjectId elements

Output:

Message: DeleteResourceCodesAssignmentResponse Output: boolean

GetFieldLengthResourceAssignmentCode Operation

Description: Returns length of variable character fields for a BO.

Service: ResourceAssignmentCode Service (on page 333)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthResourceAssignmentCode Elements: FieldLength

Output:

Message: GetFieldLengthResourceAssignmentCodeResponse Elements: One to many FieldLengthResourceAssignmentCodes.

ReadResourceAssignmentCodePath Operation

Description: Reads ResourceAssignmentCode objects from the database.

Service: ResourceAssignmentCode Service (on page 333)

Style: Document/literal wrapped

Input:

Message: ReadResourceAssignmentCodePath Elements:

- One to many ObjectId elements
- One to many field names from the *ResourceAssignmentCode Fields* (on page 337) field list.

Output:

Message: ReadResourceAssignmentCodePathResponse Output: Zero to many ResourceAssignmentCode elements that contain *ResourceAssignmentCode Fields* (on page 337) fields.

LoadResourceAssignments Operation

Description: Loads resource and role assignments associated to the specified resource assignment code.

Input:

Message: LoadResourceAssignments

Elements:

Name	Туре	Description	Required
ObjectId	int	The unique identifier for the resource assignment code.	Yes
Fields	string	One or more ResourceAssig nmentCode Fields (on page 337) from the Resource Assignment Codes field list.	Yes
WhereClause	string	Optional clause used to filter results.	No
OrderBy	string	Optional clause used to specify the order in which results are returned.	No

Output:

 $Message: \ LoadResourceAssignmentsResponse$

Elements:

Name	Туре	Description
ResourceAssignmentOb jectIds	string	One or more unique identifiers for resource and role assignments returned on operation completion.

ResourceAssignmentCode Fields

Field	Туре	Read Only	Filterable Orderable	Description
CodeTypeN ame	string restricted to	x	Δ	The name of the parent code type

	maxLength(4 0)			for this code.
CodeTypeO bjectId	int		x	The unique ID of the parent code type.
CodeValue	string restricted to maxLength(3 2)		x	The value of the resource assignment code.
CreateDate	dateTime	x	x	The date this code was created.
CreateUser	string	х	х	The name of the user that created this code.
Description	string restricted to maxLength(1 00)		x	The description of the code.
LastUpdate Date	dateTime	х	х	The date this code was last updated.
LastUpdate User	string	x	x	The name of the user that last updated this code.
ObjectId	int		х	The unique ID generated by the system.
ParentObjec tld	int		x	The unique ID of the parent code of this code in the hierarchy.
SequenceN umber	int		x	The sequence number for sorting.

ResourceAssignmentCodeType Service

Operations:

CreateResourceAssignmentCodeTypes Operation (on page 339) ReadResourceAssignmentCodeTypes Operation (on page 340) UpdateResourceAssignmentCodeTypes Operation (on page 340) DeleteResourceAssignmentCodeTypes Operation (on page 341) GetFieldLengthResourceAssignmentCodeType Operation (on page 341)

WSDL: ResourceAssignmentCodeType.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/ResourceAssignmentCodeType/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/ResourceAssignmentCodeTypeService?wsdl https://<hostname>:<port number>/p6ws/services/ResourceAssignmentCodeTypeService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.resourcecodetype.ResourceAssignmentCodeTypeService

Description:

Resource and role assignment code types provide a way of classifying assignment codes. Assignment codes are user-defined codes to classify and categorize resource and role assignments across the enterprise. They are defined globally.

With potentially hundreds of resources and roles being assigned to activities across an enterprise of projects, codes provide another method for filtering the assignments you need to access quickly, or for grouping assignments for analysis and summarization in layouts. You can also use assignment codes to group, sort, and filter assignments in profiles and spreadsheets.

CreateResourceAssignmentCodeTypes Operation

Description: Creates multiple ResourceAssignmentCodeType objects in the database. You can create up to 1000 ResourceAssignmentCodeType objects with a single call.

Service: ResourceAssignmentCodeType Service (on page 339)

Style: Document/literal wrapped

Input:

Message: CreateResourceAssignmentCodeTypes Elements: ResourceAssignmentCodeType elements that contain *ResourceAssignmentCodeType Fields* (on page 341) fields Required fields: You must supply the Name field.

Output:

Message: CreateResourceAssignmentCodeTypesResponse Output: Zero to many ObjectId elements

ReadResourceAssignmentCodeTypes Operation

Description: Reads ResourceAssignmentCodeType objects from the database.

Service: ResourceAssignmentCodeType Service (on page 339)

Style: Document/literal wrapped

Input:

Message: ReadResourceAssignmentCodeTypes

Elements: One to many field names from the *ResourceAssignmentCodeType Fields* (on page 341) field list.

You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadResourceAssignmentCodeTypesResponse

Output: Zero to many ResourceAssignmentCodeType elements that contain *ResourceAssignmentCodeType Fields* (on page 341) fields.

UpdateResourceAssignmentCodeTypes Operation

Description: Updates multiple ResourceAssignmentCodeType objects in the database. You can update up to 1000 ResourceAssignmentCodeType objects with a single call.

Service: ResourceAssignmentCodeType Service (on page 339)

Style: Document/literal wrapped

Input:

Message: UpdateResourceAssignmentCodeTypes Elements: ResourceAssignmentCodeType elements that contain *ResourceAssignmentCodeType Fields* (on page 341) fields. Required fields: The ObjectId must be specified.

Output:

Message: UpdateResourceAssignmentCodeTypesResponse Output: boolean

DeleteResourceAssignmentCodeTypes Operation

Description: Deletes multiple ResourceAssignmentCodeType objects in the database. You can delete up to 1000 ResourceAssignmentCodeType objects with a single call.

Service: ResourceAssignmentCodeType Service (on page 339)

Style: Document/literal wrapped

Input:

Message: DeleteResourceAssignmentCodeTypes Elements: One to many ObjectId elements

Output:

Message: DeleteResourceAssignmentCodeTypesResponse Output: boolean

GetFieldLengthResourceAssignmentCodeType Operation

Description: Returns length of variable character fields for a BO.

Service: ResourceAssignmentCodeType Service (on page 339)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthResourceAssignmentCodeType Elements: FieldLength

Output:

Message: GetFieldLengthResourceAssignmentCodeTypeResponse Elements: One to many FieldLengthResourceAssignmentCodeTypes.

ResourceAssignmentCodeType Fields

Field	Туре	Read Only	Filterable Orderable	Description
CreateDate	dateTime	x	x	The date this code type was created.
CreateUser	string restricted to maxLength(2 55)	x	x	The name of the user that created this code type.
IsSecureCo de	boolean		x	The flag indicating whether this is a secure Resource

				Assignment Code Type.
LastUpdate Date	dateTime	x	x	The date this code type was last updated.
LastUpdate User	string restricted to maxLength(2 55)	x	x	The name of the user that last updated this code type.
Length	int restricted to minInclusive(1) maxInclusive(40)		x	The maximum number of characters allowed for values of this code.
Name	string restricted to maxLength(3 2)		x	The name of the code type.
ObjectId	int		x	The unique ID generated by the system.
SequenceN umber	int		x	The sequence number for sorting.

UDFCode Service

Operations:

CreateUDFCodes Operation (on page 343) ReadUDFCodes Operation (on page 343) UpdateUDFCodes Operation (on page 344) DeleteUDFCodes Operation (on page 344) GetFieldLengthUDFCode Operation (on page 345)

WSDL: UDFCode.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/UDFCode/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/UDFCodeService?wsdl https://<hostname>:<port number>/p6ws/services/UDFCodeService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.udfcode.UDFCodeService

Description:

UDF codes, also known as issue codes, allow you to organize and categorize project issues in a way that is meaningful to you. Their UDF type is 'Code.' For example, you can create a UDF Code, Severity, and subsequently create code values: 'High', 'Medium', and 'Low'. You can assign each of these code values to project issues across multiple projects, enabling you to categorize each project issue according how severe it is. UDF codes are stored in a non-hierarchical list.

CreateUDFCodes Operation

Description: Creates multiple UDFCode objects in the database. You can create up to 1000 UDFCode objects with a single call.

Service: UDFCode Service (on page 342)

Style: Document/literal wrapped

Input:

Message: CreateUDFCodes

Elements: UDFCode elements that contain UDFCode Fields (on page 345) fields

Required fields: The following fields are required when creating the UDFCode object:

- CodeTypeObjectId
- CodeValue
- Description

Output:

Message: CreateUDFCodesResponse Output: Zero to many ObjectId elements

ReadUDFCodes Operation

Description: Reads UDFCode objects from the database.

Service: UDFCode Service (on page 342)

Style: Document/literal wrapped

Input:

Message: ReadUDFCodes

Elements: One to many field names from the UDFCode Fields (on page 345) field list.

You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadUDFCodesResponse

Output: Zero to many UDFCode elements that contain *UDFCode Fields* (on page 345) fields.

UpdateUDFCodes Operation

Description: Updates multiple UDFCode objects in the database. You can update up to 1000 UDFCode objects with a single call.

Service: UDFCode Service (on page 342)

Style: Document/literal wrapped

Input:

Message: UpdateUDFCodes

Elements: UDFCode elements that contain *UDFCode Fields* (on page 345) fields. Required fields: The ObjectId must be specified.

Output:

Message: UpdateUDFCodesResponse Output: boolean

DeleteUDFCodes Operation

Description: Deletes multiple UDFCode objects in the database. You can delete up to 1000 UDFCode objects with a single calll.

Service: UDFCode Service (on page 342)

Style: Document/literal wrapped

Input:

Message: DeleteUDFCodes

Elements: One to many ObjectId elements

Output:

Message: DeleteUDFCodesResponse Output: boolean

GetFieldLengthUDFCode Operation

Description: Returns length of variable character fields for a BO.

Service: UDFCode Service (on page 342)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthUDFCode Elements: FieldLength

Output:

Message: GetFieldLengthUDFCodeResponse Elements: One to many FieldLengthUDFCodes.

UDFCode Fields

Field	Туре	Read Only	Filterable Orderable	Description
CodeTypeO bjectId	int		x	The unique ID of the code type.
CodeTypeTi tle	string	x	x	The title of the parent code type for this code.
CodeValue	string restricted to maxLength(6 0)		x	The short ID that uniquely identifies the code within the code type.
CreateDate	dateTime	x	x	The date this code was created.
CreateUser	string restricted to maxLength(2 55)	x	x	The name of the user that created this code.
Description	string restricted to maxLength(1 20)		x	The description of the code.
LastUpdate	dateTime	Х	Х	The date this code

Date				was last updated.
LastUpdate User	string restricted to maxLength(2 55)	x	x	The name of the user that last updated this code.
ObjectId	int		x	The unique ID generated by the system.
SequenceN umber	int		x	The sequence number for sorting.

UDFType Service

Operations:

CreateUDFTypes Operation (on page 347) ReadUDFTypes Operation (on page 347) UpdateUDFTypes Operation (on page 348) DeleteUDFTypes Operation (on page 348) GetFieldLengthUDFType Operation (on page 348) GetUDFFieldName Operation (on page 349)

WSDL: UDFType.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/UDFType/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/UDFTypeService?wsdl https://<hostname>:<port number>/p6ws/services/UDFTypeService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.udftype.UDFTypeService

Description:

User-defined fields (UDFs) enable users to add custom fields and values to the project database. For example, additional activity data, such as delivery dates and purchase order numbers, can be tracked. Business objects that support UDFs are Activity, ActivityExpense, ActivityStep, ActivityStepTemplateItem, Document, Project, ProjectIssue, ProjectRisk, Resource, ResourceAssignment, and WBS. Note that UDFs with a data type of Code may only be assigned to ProjectIssues.

Use the UDFValue Service to assign a UDF to a particular business object.

CreateUDFTypes Operation

Description: Creates multiple UDFType objects in the database. You can create up to 1000 UDFType objects with a single call.

Service: UDFType Service (on page 346)

Style: Document/literal wrapped

Input:

Message: CreateUDFTypes

Elements: UDFType elements that contain UDFType Fields (on page 349) fields

Required fields:

- SubjectArea
- Title
- DataType

Output:

Message: CreateUDFTypesResponse Output: Zero to many ObjectId elements

ReadUDFTypes Operation

Description: Reads UDFType objects from the database.

Service: UDFType Service (on page 346)

Style: Document/literal wrapped

Input:

Message: ReadUDFTypes

Elements: One to many field names from the **UDFType Fields** (on page 349) field list You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadUDFTypesResponse

Output: Zero to many UDFType elements that contain UDFType fields.

UpdateUDFTypes Operation

Description: Updates multiple UDFType objects in the database. You can update up to 1000 UDFType objects with a single call.

Service: UDFType Service (on page 346)

Style: Document/literal wrapped

Input:

Message: UpdateUDFTypes

Elements: UDFType elements that contain *UDFType Fields* (on page 349) fields. Required fields: The ObjectId must be specified.

Output:

Message: UpdateUDFTypesResponse Output: boolean

DeleteUDFTypes Operation

Description: Deletes multiple UDFType objects in the database. You can delete up to 1000 UDFType objects with a single call.

Service: UDFType Service (on page 346)

Style: Document/literal wrapped

Input:

Message: DeleteUDFTypes Elements: One to many ObjectId elements

Output:

Message: DeleteUDFTypesResponse Output: boolean

GetFieldLengthUDFType Operation

Description: Returns length of variable character fields for a BO.

Service: UDFType Service (on page 346)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthUDFType Elements: FieldLength Output:

Message: GetFieldLengthUDFTypeResponse Elements: One to many FieldLengthUDFTypes.

GetUDFFieldName Operation

Description: Gets composed field names that are used for loading UDF data.

Service: UDFType Service (on page 346)

Style: Document/literal wrapped

Input:

Message: GetUDFFieldName Element: ObjectId

Output:

Message: GetUDFFieldNameResponse Element: UDFFieldName

UDFType Fields

Field	Туре	Read Only	Filterable Orderable	Description
CreateDate	dateTime	x	x	The date this user-defined field was created.
CreateUser	string restricted to maxLength(2 55)	x	x	The name of the user that created this user-defined field.
DataType	string restricted to 'Text' 'Start Date' 'Finish Date' 'Cost' 'Double' 'Integer' 'Indicator' 'Code'		X	The data type of the user-defined field: "Text", "Start Date", "Finish Date", "Cost", "Double", "Integer", "Indicator", or "Code".
Formula	string restricted to	x	x	The formula used to calculate a formula type

	maxLength(4 000)			user-defined field. This field is not valid for a manual type user-defined field.
IsCalculated	boolean	x	x	The flag indicating whether this is a calculated user defined field type.
IsConditiona I	boolean	x	x	The flag indicating whether this is a indicator user defined field type.
IsSecureCo de	boolean		x	the flag indicating whether this is a secure code type.
LastUpdate Date	dateTime	x	х	The date this user-defined field was last updated.
LastUpdate User	string restricted to maxLength(2 55)	x	x	The name of the user that last updated this user-defined field.
ObjectId	int		x	The unique ID generated by the system.
SubjectArea	string restricted to 'Activity' 'Activity Expense' 'Activity Step' 'Project' 'Project Issue' 'Project Risk' 'Resource' 'Resource' 'Resource Assignment' 'WBS' 'Work Products and Documents' 'Activity Step		X	The subject area of the user-defined field.

	Template Item' 'Lean Task' 'Roles'			
SummaryM ethod	string restricted to maxLength(6 0)	x	x	Determines how a UDF is summarized in grouping bands.
Title	string restricted to maxLength(4 0)		x	The name/title of the user-defined field.

UDFValue Service

Operations:

CreateUDFValues Operation (on page 352) ReadUDFValues Operation (on page 352) UpdateUDFValues Operation (on page 353) DeleteUDFValues Operation (on page 353) GetFieldLengthUDFValue Operation (on page 353) ReadCalculatedUDFValues Operation (on page 354)

WSDL: UDFValue.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/UDFValue/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/UDFValueService?wsdl https://<hostname>:<port number>/p6ws/services/UDFValueService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.udfvalue.UDFValueService

Description:

A user defined field value represents the value of a particular user defined field when assigned to another business object. The ForeignObjectId field represents the ObjectId of the business object to which the UDF is assigned. Note that the type of the foreign business object must match the subject area of the associated UDFType.

Note that this business object has a multi-part object ID; its object ID is a combination of its UDF type object ID and its foreign object ID.

CreateUDFValues Operation

Description: Creates multiple UDFValue objects in the database. You can create up to 1000 UDFValue objects with a single call.

Service: UDFValue Service (on page 351)

Style: Document/literal wrapped

Input:

Message: CreateUDFValues

Elements: UDFValue elements that contain UDFValue Fields (on page 355) fields.

Required fields:

- UDFTypeObjectId
- ForeignObjectId

Output:

Message: CreateUDFValuesResponse

Output: A collection of zero to many ObjectId elements containing fields that comprise the primary key.

ReadUDFValues Operation

Description: Reads UDFValue objects from the database.

Service: UDFValue Service (on page 351)

Style: Document/literal wrapped

Input:

Message: ReadUDFValues

Elements: One to many field names from the UDFValue Fields (on page 355) field list.

You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadUDFValuesResponse

Output: Zero to many UDFValue elements that contain *UDFValue Fields* (on page 355) fields.

UpdateUDFValues Operation

Description: Updates multiple UDFValue objects in the database. You can update up to 1000 UDFValue objects with a single call.

Service: UDFValue Service (on page 351)

Style: Document/literal wrapped

Input:

Message: UpdateUDFValues

Elements: UDFValue elements that contain UDFValue Fields (on page 355) fields.

Required fields:

- UDFTypeObjectId
- ForeignObjectId

Output:

Message: UpdateUDFValuesResponse Output: boolean

DeleteUDFValues Operation

Description: Deletes multiple UDFValue objects in the database. You can delete up to 1000 UDFValue objects with a single call.

Service: UDFValue Service (on page 351)

Style: Document/literal wrapped

Input:

Message: DeleteUDFValues Elements: One to many ObjectId elements

Output:

Message: DeleteUDFValuesResponse Output: boolean

GetFieldLengthUDFValue Operation

Description: Returns length of variable character fields for a BO.

Service: UDFValue Service (on page 351)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthUDFValue Elements: FieldLength

Output:

Message: GetFieldLengthUDFValueResponse Elements: One to many FieldLengthUDFValues.

ReadCalculatedUDFValues Operation

Description: Reads UDFValue objects from the database.

Service: UDFValue Service (on page 351)

Style: Document/literal wrapped

Input:

Message: ReadCalculatedUDFValues Elements: One of the following elements:

Field	Туре	Description
CalculatedUDFValue FieldType	 A string restricted to the following values: ConditionalIndicato r Cost Double FinishDate Integer ProjectObjectId StartDate UDFTypeDataType UDFTypeObjectId 	Specifies which CalculatedUDFValue field(s) to read.
UDFTypeObjectId	int	The unique ID of the associated UDF type.
ProjectObjectId	int	The unique ID of the associated project.

Required fields:

- UDFTypeObjectId
- ForeignObjectId

Output:

Message: ReadCalculatedUDFValuesResponse

Output: Zero to many UDFValue elements that contain UDFValue fields.

UDFValue Fields

Field	Туре	Read Only	Filterable Orderable	Description
CodeValue	string restricted to maxLength(6 0)	x	x	The short ID that uniquely identifies the associated UDF code within the UDF code type.
Conditionall ndicator	int	X		The conditional indicator of the user defined field, obtained by evaluating the conditional expression.
Cost	double		x	The value of the cost UDF.
CreateDate	dateTime	x	x	The date this UDF value was created.
CreateUser	string restricted to maxLength(2 55)	x	x	The name of the user that created this UDF value.
Description	string restricted to maxLength(2 55)	x	x	The description of the associated UDF code.
Double	double restricted to minInclusive(- 1.0E12) maxInclusive(1.0E12)		x	The value of the double UDF.
FinishDate	dateTime		x	The value of the finish date UDF.
ForeignObje ctId	int		х	The unique ID of the business object

				to which the UDF is assigned: ProjectObjectId, ActivityObjectId, ResourceObjectId, etc.
Indicator	string restricted to " 'None' 'Red' 'Yellow' 'Green' 'Blue'		x	The value of the indicator UDF.
Integer	int		х	The value of the integer UDF.
IsBaseline	boolean	x	x	The boolean value indicating if this business object is related to a Project or Baseline
IsTemplate	boolean	x	x	The boolean value indicating if this business object is related to a template Project.
IsUDFType Calculated	boolean	x	x	The flag indicating whether this is a value associated with a calculated user defined field type.
IsUDFType Conditional	boolean	x	x	The flag indicating whether this is a value associated with a user defined field type having a conditional expression.
LastUpdate Date	dateTime	x	x	The date this UDF value was last updated.

			1	,
LastUpdate User	string restricted to maxLength(2 55)	x	x	The name of the user that last updated this UDF value.
ProjectObje ctId	int	x	x	The unique ID of the associated project.
StartDate	dateTime		x	The value of the start date UDF.
Text	string restricted to maxLength(2 55)		x	The value of the text UDF.
UDFCodeO bjectId	int		x	The unique ID of the associated UDF code.
UDFTypeDa taType	string restricted to 'Text' 'Start Date' 'Finish Date' 'Cost' 'Double' 'Integer' 'Indicator' 'Code'	X	X	The data type of the associated user-defined field type: "Text", "Start Date", "Finish Date", "Cost", "Double", "Integer", "Indicator", or "Code".
UDFTypeOb jectld	int		х	The unique ID of the associated UDF type.
UDFTypeSu bjectArea	string restricted to 'Activity' 'Activity Expense' 'Activity Step' 'Project' 'Project Issue' 'Project Risk' 'Resource'	X	X	The subject area of the associated user-defined field type.

	'Resource Assignment' 'WBS' 'Work Products and Documents' 'Activity Step Template Item' 'Lean Task' 'Roles'			
UDFTypeTitl e	string restricted to maxLength(4 0)	x	x	The name/title of the associated user-defined field type.

EPS Services

EPSBudgetChangeLog Service

Operations:

CreateEPSBudgetChangeLogs Operation (on page 359) ReadEPSBudgetChangeLogs Operation (on page 359) UpdateEPSBudgetChangeLogs Operation (on page 360) DeleteEPSBudgetChangeLogs Operation (on page 360) GetFieldLengthEPSBudgetChangeLog Operation (on page 360)

WSDL: EPSBudgetChangeLog.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/EPSBudgetChangeLog/V1 Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/EPSBudgetChangeLogService?wsdl https://<hostname>:<port number>/p6ws/services/EPSBudgetChangeLogService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.epsbudgetchangelog.EPSBudgetChangeLogService

Description:

The EPS budget change log is used to track changes made from the original budget. You can set the status of the change as pending, approve or not approved, assign a responsible person, and specify the amount of the change. The EPS budget change log applies to EPS.

CreateEPSBudgetChangeLogs Operation

Description: Creates multiple EPSBudgetChangeLog objects in the database. You can create up to 1000 EPSBudgetChangeLog objects with a single call.

Service: EPSBudgetChangeLog Service (on page 358)

Style: Document/literal wrapped

Input:

Message: CreateEPSBudgetChangeLogs

Elements: EPSBudgetChangeLog elements that contain *EPSBudgetChangeLog Fields* (on page 361) fields

Required fields: The following fields are required when creating the EPSBudgetChangeLog object:

- EPSObjectId
- ChangeNumber

Output:

Message: CreateEPSBudgetChangeLogsResponse Output: Zero to many ObjectId elements

ReadEPSBudgetChangeLogs Operation

Description: Reads EPSBudgetChangeLog objects from the database.

Service: EPSBudgetChangeLog Service (on page 358)

Style: Document/literal wrapped

Input:

Message: ReadEPSBudgetChangeLogs

Elements: One to many field names from the *EPSBudgetChangeLog Fields* (on page 361) field list.

You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadEPSBudgetChangeLogsResponse

Output: Zero to many EPSBudgetChangeLog elements that contain *EPSBudgetChangeLog Fields* (on page 361) fields.

UpdateEPSBudgetChangeLogs Operation

Description: Updates multiple EPSBudgetChangeLog objects in the database. You can update up to 1000 EPSBudgetChangeLog objects with a single call.

Service: EPSBudgetChangeLog Service (on page 358)

Style: Document/literal wrapped

Input:

Message: UpdateEPSBudgetChangeLogs

Elements: EPSBudgetChangeLog elements that contain *EPSBudgetChangeLog Fields* (on page 361) fields.

Required fields: The ObjectId must be specified.

Output:

Message: UpdateEPSBudgetChangeLogsResponse Output: boolean

DeleteEPSBudgetChangeLogs Operation

Description: Deletes multiple EPSBudgetChangeLog objects in the database. You can delete up to 1000 EPSBudgetChangeLog objects with a single call.

Service: EPSBudgetChangeLog Service (on page 358)

Style: Document/literal wrapped

Input:

Message: DeleteEPSBudgetChangeLogs Elements: One to many ObjectId elements

Output:

Message: DeleteEPSBudgetChangeLogsResponse Output: boolean

GetFieldLengthEPSBudgetChangeLog Operation

Description: Returns length of variable character fields for a BO.

Service: EPSBudgetChangeLog Service (on page 358)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthEPSBudgetChangeLog

Elements: FieldLength

Output:

Message: GetFieldLengthEPSBudgetChangeLogResponse Elements: One to many FieldLengthEPSBudgetChangeLogs.

EPSBudgetChangeLog Fields

Field	Туре	Read Only	Filterable Orderable	Description
Amount	double restricted to minInclusive(- 1.0E14)		x	The amount of budget change.
ChangeNu mber	string restricted to maxLength(3 2)		x	The change number that is automatically incremented according to when changes are added. This can be changed to any number.
CreateDate	dateTime	x	x	The date this epsbudgetchangelo g was created.
CreateUser	string restricted to maxLength(2 55)	x	x	The name of the user that created this epsbudgetchangelo g.
Date	dateTime		x	The date of this budget change entry.
EPSId	string restricted to maxLength(4 0)	x	x	The short code assigned to the associated EPS.
EPSName	string restricted to maxLength(1	x	x	The name of the EPS element associated with this budget change log.

	00)			
EPSObjectI d	int		x	The unique ID of the EPS element to which the budget change log applies.
LastUpdate Date	dateTime	х	x	The date this epsbudgetchangelo g was last updated.
LastUpdate User	string restricted to maxLength(2 55)	x	x	The name of the user that last updated this epsbudgetchangelo g.
ObjectId	int		x	The unique ID generated by the system.
Reason	string restricted to maxLength(1 30)		x	The description of the reason for the budget change request.
Responsible	string restricted to maxLength(2 55)		x	The person responsible for the change.
Status	string restricted to '' 'Pending' 'Approved' 'Not Approved'		x	The status of this budget change request.

EPSFunding Service

Operations:

CreateEPSFundings Operation (on page 363) ReadEPSFundings Operation (on page 363) UpdateEPSFundings Operation (on page 364) DeleteEPSFundings Operation (on page 364) GetFieldLengthEPSFunding Operation (on page 365)

WSDL: EPSFunding.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/EPSFunding/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/EPSFundingService?wsdl https://<hostname>:<port number>/p6ws/services/EPSFundingService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.epsfunding.EPSFundingService

Description:

An EPS funding represents the assignment of a funding source to a particular EPS. The assigned funding source has an amount and fund share, or percentage.

CreateEPSFundings Operation

Description: Creates multiple EPSFunding objects in the database. You can create up to 1000 EPSFunding objects with a single call.

Service: EPSFunding Service (on page 362)

Style: Document/literal wrapped

Input:

Message: CreateEPSFundings

Elements: EPSFunding elements that contain *EPSFunding Fields* (on page 365) fields Required fields: The following fields are required when creating the EPSFunding object:

- FundingSourceObjectId
- EPSObjectId

Output:

Message: CreateEPSFundingsResponse Output: Zero to many ObjectId elements

ReadEPSFundings Operation

Description: Reads EPSFunding objects from the database.

Service: EPSFunding Service (on page 362)

Style: Document/literal wrapped

Input:

Message: ReadEPSFundings

Elements: One to many field names from the *EPSFunding Fields* (on page 365) field list You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadEPSFundingsResponse

Output: Zero to many EPSFunding elements that contain *EPSFunding Fields* (on page 365) fields.

UpdateEPSFundings Operation

Description: Updates multiple EPSFunding objects in the database. You can update up to 1000 EPSFunding objects with a single call.

Service: EPSFunding Service (on page 362)

Style: Document/literal wrapped

Input:

Message: UpdateEPSFundings

Elements: EPSFunding elements that contain *EPSFunding Fields* (on page 365) fields. Required fields: The ObjectId must be specified.

Output:

Message: UpdateEPSFundingsResponse Output: boolean

DeleteEPSFundings Operation

Description: Deletes multiple EPSFunding objects in the database. You can delete up to 1000 EPSFunding objects with a single call.

Service: EPSFunding Service (on page 362)

Style: Document/literal wrapped

Input:

Message: DeleteEPSFundings Elements: One to many ObjectId elements

Output:

Message: DeleteEPSFundingsResponse Output: boolean

GetFieldLengthEPSFunding Operation

Description: Returns length of variable character fields for a BO.

Service: EPSFunding Service (on page 362)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthEPSFunding Elements: FieldLength

Output:

Message: GetFieldLengthEPSFundingResponse Elements: One to many FieldLengthEPSFundings.

EPSFunding Fields

Field	Туре	Read Only	Filterable Orderable	Description
Amount	double		x	The amount of a funding source that is allocated to the EPS.
CreateDate	dateTime	x	x	The date this epsfunding was created.
CreateUser	string restricted to maxLength(2 55)	x	x	The name of the user that created this epsfunding.
EPSId	string restricted to maxLength(4 0)	x	x	The short code assigned to the associated EPS.
EPSName	string restricted to maxLength(1 00)	x	x	The name of the EPS element associated with this funding.
EPSObjectl d	int		x	The unique ID of the associated EPS for this EPS funding.

FundShare	double		x	The percentage of the total fund that is allocated to the EPS.
FundingSou rceObjectId	int		x	The unique ID of the associated funding source for this EPS funding.
LastUpdate Date	dateTime	x	x	The date this epsfunding was last updated.
LastUpdate User	string restricted to maxLength(2 55)	x	x	The name of the user that last updated this epsfunding.
ObjectId	int		х	The unique ID generated by the system.

EPSNote Service

Operations:

CreateEPSNotes Operation (on page 367) ReadEPSNotes Operation (on page 367) UpdateEPSNotes Operation (on page 368) DeleteEPSNotes Operation (on page 368) GetFieldLengthEPSNote Operation (on page 368)

WSDL: EPSNote.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/EPSNote/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/EPSNoteService?wsdl https://<hostname>:<port number>/p6ws/services/EPSNoteService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.epsnote.EPSNoteService

Description:

EPS notes are used as a way of specifying one or more notes on an EPS element. You may specify one note on each EPS for every notebook topic that exists.

CreateEPSNotes Operation

Description: Creates multiple EPSNote objects in the database. You can create up to 1000 EPSNote objects with a single call.

Service: EPSNote Service (on page 366)

Style: Document/literal wrapped

Input:

Message: CreateEPSNotes

Elements: EPSNote elements that contain EPSNote Fields (on page 369) fields

Required fields: The following fields are required when creating the EPSNote object:

- EPSObjectId
- NotebookTopicObjectId

Output:

Message: CreateEPSNotesResponse Output: Zero to many ObjectId elements

ReadEPSNotes Operation

Description: Reads EPSNote objects from the database.

Service: EPSNote Service (on page 366)

Style: Document/literal wrapped

Input:

Message: ReadEPSNotes

Elements: One to many field names from the **EPSNote Fields** (on page 369) field list.

You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadEPSNotesResponse

Output: Zero to many EPSNote elements that contain *EPSNote Fields* (on page 369) fields.

UpdateEPSNotes Operation

Description: Updates multiple EPSNote objects in the database. You can update up to 1000 EPSNote objects with a single call.

Service: EPSNote Service (on page 366)

Style: Document/literal wrapped

Input:

Message: UpdateEPSNotes Elements: EPSNote elements that contain *EPSNote Fields* (on page 369) fields. Required fields: The ObjectId must be specified.

Output:

Message: UpdateEPSNotesResponse Output: boolean

DeleteEPSNotes Operation

Description: Deletes multiple EPSNote objects in the database. You can delete up to 1000 EPSNote objects with a single call.

Service: EPSNote Service (on page 366)

Style: Document/literal wrapped

Input:

Message: DeleteEPSNotes Elements: One to many ObjectId elements

Output:

Message: DeleteEPSNotesResponse Output: boolean

GetFieldLengthEPSNote Operation

Description: Returns length of variable character fields for a BO.

Service: EPSNote Service (on page 366)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthEPSNote Elements: FieldLength

Output:

Message: GetFieldLengthEPSNoteResponse

Elements: One to many FieldLengthEPSNotes.

EPSNote Fields

Field	Туре	Read Only	Filterable Orderable	Description
CreateDate	dateTime	x	x	The date this EPS Note was created.
CreateUser	string restricted to maxLength(2 55)	x	x	The name of the user that created this EPS Note.
EPSId	string restricted to maxLength(4 0)	x	x	The short code assigned to the associated EPS.
EPSName	string restricted to maxLength(1 00)	x	x	The name of the EPS element associated with this note.
EPSObjectI d	int		x	The unique ID of the associated EPS.
LastUpdate Date	dateTime	x	x	The date this EPS Note was last updated.
LastUpdate User	string restricted to maxLength(2 55)	x	x	The name of the user that last updated this EPS Note.
Note	string			The information that is associated with the notebook topic.
NotebookTo picName	string restricted to maxLength(4 0)	x	x	The name of the associated notebook topic.

NotebookTo picObjectId	int		x	The unique ID of the associated notebook topic.
ObjectId	int		x	The unique ID generated by the system.
RawTextNot e	string	x		The information that is associated with the notebook topic, without any HTML.

EPSSpendingPlan Service

Operations:

CreateEPSSpendingPlans Operation (on page 370) ReadEPSSpendingPlans Operation (on page 371) UpdateEPSSpendingPlans Operation (on page 371) DeleteEPSSpendingPlans Operation (on page 372) GetFieldLengthEPSSpendingPlan Operation (on page 372)

WSDL: EPSSpendingPlan.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/EPSSpendingPlan/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/EPSSpendingPlanService?wsdl https://<hostname>:<port number>/p6ws/services/EPSSpendingPlanService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.epsspendingplan.EPSSpendingPlanService

Description:

EPS spending plans represent monthly spending amounts for an EPS.

CreateEPSSpendingPlans Operation

Description: Creates multiple EPSSpendingPlan objects in the database. You can create up to 1000 EPSSpendingPlan objects with a single call.

Service: EPSSpendingPlan Service (on page 370)

Style: Document/literal wrapped

Input:

Message: CreateEPSSpendingPlans

Elements: EPSSpendingPlan elements that contain *EPSSpendingPlan Fields* (on page 373) fields

Required fields: The following fields are required when creating the EPSSpendingPlan object:

- EPSObjectId
- Date

Output:

Message: CreateEPSSpendingPlansResponse Output: Zero to many ObjectId elements

ReadEPSSpendingPlans Operation

Description: Reads EPSSpendingPlan objects from the database.

Service: EPSSpendingPlan Service (on page 370)

Style: Document/literal wrapped

Input:

Message: ReadEPSSpendingPlans

Elements: One to many field names from the *EPSSpendingPlan Fields* (on page 373) field list

You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadEPSSpendingPlansResponse

Output: Zero to many EPSSpendingPlan elements that contain *EPSSpendingPlan Fields* (on page 373) fields.

UpdateEPSSpendingPlans Operation

Description: Updates multiple EPSSpendingPlan objects in the database. You can update up to 1000 EPSSpendingPlan objects with a single call.

Service: EPSSpendingPlan Service (on page 370)

Style: Document/literal wrapped

Input:

Message: UpdateEPSSpendingPlans

Elements: EPSSpendingPlan elements that contain *EPSSpendingPlan Fields* (on page 373) fields.

Required fields: The ObjectId must be specified.

Output:

Message: UpdateEPSSpendingPlansResponse Output: boolean

DeleteEPSSpendingPlans Operation

Description: Deletes multiple EPSSpendingPlan objects in the database. You can delete up to 1000 EPSSpendingPlan objects with a single call.

Service: EPSSpendingPlan Service (on page 370)

Style: Document/literal wrapped

Input:

Message: DeleteEPSSpendingPlans Elements: One to many ObjectId elements

Output:

Message: DeleteEPSSpendingPlansResponse Output: boolean

GetFieldLengthEPSSpendingPlan Operation

Description: Returns length of variable character fields for a BO.

Service: EPSSpendingPlan Service (on page 370)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthEPSSpendingPlan Elements: FieldLength

Output:

Message: GetFieldLengthEPSSpendingPlanResponse Elements: One to many FieldLengthEPSSpendingPlans.

EPSSpendingPlan Fields

Field	Туре	Read Only	Filterable Orderable	Description
BenefitPlan	double restricted to minInclusive(-9.9 99999999999999 13) maxInclusive(9.9 99999999999999 13)		x	The editable monthly profit portion for each month for the EPS.
CreateDate	dateTime	x	x	The date this EPS Spending plan was created.
CreateUser	string restricted to maxLength(255)	x	x	The name of the user that created this EPS Spending plan.
Date	dateTime		x	The start of a spending/benefit plan time period for the EPS.
EPSId	string restricted to maxLength(40)	x	x	The short code assigned to the associated EPS.
EPSName	string restricted to maxLength(100)	x	x	The name of the EPS element associated with this spending plan.
EPSObjectI d	int		x	The unique ID of the associated EPS for this EPS spending plan.
LastUpdate Date	dateTime	x	x	The date this EPS Spending plan was last updated.
LastUpdate User	string restricted to maxLength(255)	x	x	The name of the user that last updated this EPS Spending plan.

ObjectId	int	x	The unique ID generated by the system.
SpendingPl an	double restricted to minInclusive(-9.9 9999999999999 13) maxInclusive(9.9 9999999999999 13)	x	The editable total monthly expenditure for the EPS.

Export Service

Operations:

ExportProject Operation (on page 375) *ExportProjects Operation* (on page 376) *DownloadFiles Operation* (on page 379)

WSDL: Export.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/WSExport/V2

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/ExportService?wsdl https://<hostname>:<port number>/p6ws/services/ExportService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.export.ExportService

Description:

This service lets you export one or more projects to XML. The ExportProject operation exports one project to XML, and the ExportProjects operation exports one or more projects to XML. For each project, the export includes the project and all related business objects supported by the exporter and in use in the project. For example, the project's activities, resource assignments, and associated resources are included. The Export service uses MTOM (Message Transmission Optimization Mechanism) to send the output files as attachments.

The schema of the output file is contained in the p6apibo.xsd file located in P6 EPPM Web Services schema folder and is the same schema used by the Integration API's XMLExporter.

ExportProject Operation

Description: Exports a project to an XML file.

Service: Export Service (on page 374)

Style: Document/literal wrapped

Input:

Г

Message: ExportProject

Elements: ExportProject elements that contain the following elements:

Field	Туре	Description
Encoding	string	Specifies the encoding of the XML file that is exported, e.g., UTF-8.
FileType	FileTypeType string restricted to GZIP XML ZIP	Specifies the file type that the system exports. If GZIP or ZIP is specified as the FileType, the exported XML file is compressed using the respective compression format.
LineSepar ator	LineSeparator string restricted to Windows Unix	Specifies whether the Windows ("\r\n") or Unix ("\n") line endings will be used.
ProjectObj ectId	int	The unique identifier project that is to be exported.
SpreadPer iodType	string restricted to Hour Day Week Month Quarter Year FinancialPeriod	Specifies the spread interval for the Activity. Specifying the SpreadPeriodType displays Future Bucket Planning data in the export file. It should only be specified if needed, as there are both performance and size implications of using this parameter.

Spacing	string	Specifies the indentation between the elements in the XML export file. For example, use " " to specify 5 spaces of indentation.
		Specifies which business objects to export according to the following rules:
BusinessO bjectOptio ns	 BusinessObjectOptions Element (on page 380) 	If no BusinessObjectOptions are specified, then all of the business objects in the project are exported. If any BusinessObjectOptions are specified, then only those business objects specified by the BusinessObjectOptions element are exported.

Output:

Message: ExportProjectResponse Elements:

The XML file containing the exported project data.

Field	Туре	Description
ProjectData	base64Binary	The XML file containing the exported project data.

ExportProjects Operation

Description: Exports one or more projects to an XML file. When you call the ExportProjects operation, you can specify one to many ProjectObjectID elements.

Service: Export Service (on page 374)

Style: Document/literal wrapped

Input:

Message: ExportProjects Elements: ExportProject elements that contain the following elements:

	_	
Field Encoding	Type string	Description Specifies the encoding of the XML file
Encoung	Sung	that is exported, e.g., UTF-8.
FileType	FileTypeType string restricted to GZIP XML ZIP	Specifies the file type that the system exports. If GZIP or ZIP is specified as the FileType, the exported XML file is compressed using the respective compression format.
LineSepar ator	LineSeparator string restricted to Windows Unix	Specifies whether the Windows ("\r\n") or Unix ("\n") line endings will be used.
ProjectObj ectId	int	The unique identifier project that is to be exported. This operation can contain one to many ProjectObjectID elements. List of int is used for returning Project Object Ids.
SpreadPer iodType	string restricted to Hour Day Week Month Quarter Year FinancialPeriod	Specifies the spread interval for the Activity. Specifying the SpreadPeriodType displays Future Bucket Planning data in the export file. It should only be specified if needed, as there are both performance and size implications of using this parameter.
Spacing	string	Specifies the indentation between the elements in the XML export file. For example, use " " to specify 5 spaces of indentation.
BusinessO	BusinessObjectOptions	Specifies which business objects to

bjectOptio	Element (on page 380)	export according to the following rules:
ns		If no BusinessObjectOptions are specified, then all of the business objects in the project are exported. If any BusinessObjectOptions are specified, then only those business objects specified by the BusinessObjectOptions element are exported.

Output:

Message: ExportProjectsResponse Elements:

The XML file containing the exported project data.

Field	Туре	Description
ProjectData	base64Binary	The XML file containing the exported project data.

ExportIpmdarProject Operation

Description: Exports a project in IPMDAR format to a zip file containing a collection of JSON files.

Service: Export Service (on page 374)

Style: Document/literal wrapped

Input:

Message: ExportIpmdarProject

Elements: ExportIpmdarProject elements that contain the following elements:

Field	Туре	Description
Templatel d	string	The unique identifier for the IPMDAR Export template.
ProjectId	string	The unique identifier project that is to be exported.

Output:

Message: ExportIpmdarProjectResponse Elements:

The zip file containing the exported project data.

Field	Туре	Description
ProjectData	base64Binary	The zip file containing the exported project data.

DownloadFiles Operation

Description: Downloads one or more files.

Service: Export Service (on page 374)

Style: Document/literal wrapped

Input:

Message: DownloadFiles

Elements: DownloadFiles elements that contain the following elements:

Field	Туре	Description
JobType	string restricted to ASAP' 'Schedule'	Specifies the job type.
JobName	string	Specifies the job name.
StartDate	dateTime	The start date of the file download.
EndDate	dateTime	The end date of the file download.

Output:

Message: DownloadFilesResponse Elements:

Field	Туре	Description
NumberOfFiles	int	The number of files.

BusinessObjectOptions Element

Each BusinessObjectOptions element contains an optional Include element that indicates whether the associated object is to be exported. The default value of the Include element is true. To exclude a business object from the XML export file, specify false in the Include element for that business object.

For example, to exclude the ActivityCode business object, specify the following:

```
<BusinessObjectOptions>
```

<ActivityCode> <Include>false</Include> </ActivityCode>

</BusinessObjectOptions>

Include zero to many BusinessObjectOptions elements in the input message of the ExportProject operation from the following list:

Activity

- Include
- Field
 - AccountingVariance
 - AccountingVarianceLaborUnits
 - ActivityOwnerUserId
 - ActualDuration
 - ActualExpenseCost
 - ActualFinishDate
 - ActualLaborCost
 - ActualLaborUnits
 - ActualMaterialCost
 - ActualNonLaborCost
 - ActualNonLaborUnits
 - ActualStartDate
 - ActualThisPeriodLaborCost
 - ActualThisPeriodLaborUnits

- ActualThisPeriodMaterialCost
- ActualThisPeriodNonLaborCost
- ActualThisPeriodNonLaborUnits
- ActualTotalCost
- ActualTotalUnits
- AtCompletionDuration
- AtCompletionExpenseCost
- AtCompletionLaborCost
- AtCompletionLaborUnits
- AtCompletionLaborUnitsVariance
- AtCompletionMaterialCost
- AtCompletionNonLaborCost
- AtCompletionNonLaborUnits
- AtCompletionTotalCost
- AtCompletionTotalUnits
- AtCompletionVariance
- AutoComputeActuals
- Baseline1Duration
- Baseline1FinishDate
- Baseline1PlannedDuration
- Baseline1PlannedExpenseCost
- Baseline1PlannedLaborCost
- Baseline1PlannedLaborUnits
- Baseline1PlannedMaterialCost
- Baseline1PlannedNonLaborCost
- Baseline1PlannedNonLaborUnits
- Baseline1PlannedTotalCost
- Baseline1StartDate
- Baseline2Duration
- Baseline2FinishDate
- Baseline2PlannedDuration
- Baseline2PlannedExpenseCost
- Baseline2PlannedLaborCost
- Baseline2PlannedLaborUnits
- Baseline2PlannedMaterialCost
- Baseline2PlannedNonLaborCost
- Baseline2PlannedNonLaborUnits
- Baseline2PlannedTotalCost
- Baseline2StartDate

- Baseline3Duration
- Baseline3FinishDate
- Baseline3PlannedDuration
- Baseline3PlannedExpenseCost
- Baseline3PlannedLaborCost
- Baseline3PlannedLaborUnits
- Baseline3PlannedMaterialCost
- Baseline3PlannedNonLaborCost
- Baseline3PlannedNonLaborUnits
- Baseline3PlannedTotalCost
- Baseline3StartDate
- BaselineDuration
- BaselineFinishDate
- BaselinePlannedDuration
- BaselinePlannedExpenseCost
- BaselinePlannedLaborCost
- BaselinePlannedLaborUnits
- BaselinePlannedMaterialCost
- BaselinePlannedNonLaborCost
- BaselinePlannedNonLaborUnits
- BaselinePlannedTotalCost
- BaselineStartDate
- BudgetAtCompletion
- CBSCode
- CBSId
- CBSObjectId
- CalendarName
- CalendarObjectId
- CostPercentComplete
- CostPercentOfPlanned
- CostPerformanceIndex
- CostPerformanceIndexLaborUnits
- CostVariance
- CostVarianceIndex
- CostVarianceIndexLaborUnits
- CostVarianceLaborUnits
- CreateDate
- CreateUser
- DataDate

- Duration1Variance
- Duration2Variance
- Duration3Variance
- DurationPercentComplete
- DurationPercentOfPlanned
- DurationType
- DurationVariance
- EarlyFinishDate
- EarlyStartDate
- EarnedValueCost
- EarnedValueLaborUnits
- EstimateAtCompletionCost
- EstimateAtCompletionLaborUnits
- EstimateToComplete
- EstimateToCompleteLaborUnits
- EstimatedWeight
- ExpectedFinishDate
- ExpenseCost1Variance
- ExpenseCost2Variance
- ExpenseCost3Variance
- ExpenseCostPercentComplete
- ExpenseCostVariance
- ExternalEarlyStartDate
- ExternalLateFinishDate
- Feedback
- FinancialPeriodTmplld
- FinishDate
- FinishDate1Variance
- FinishDate2Variance
- FinishDate3Variance
- FinishDateVariance
- FloatPath
- FloatPathOrder
- FreeFloat
- GUID
- HasFutureBucketData
- Id
- IsBaseline
- IsCritical

- IsLongestPath
- IsNewFeedback
- IsStarred
- IsTemplate
- IsWorkPackage
- LaborCost1Variance
- LaborCost2Variance
- LaborCost3Variance
- LaborCostPercentComplete
- LaborCostVariance
- LaborUnits1Variance
- LaborUnits2Variance
- LaborUnits3Variance
- LaborUnitsPercentComplete
- LaborUnitsVariance
- LastUpdateDate
- LastUpdateUser
- LateFinishDate
- LateStartDate
- LevelingPriority
- LocationName
- LocationObjectId
- MaterialCost1Variance
- MaterialCost2Variance
- MaterialCost3Variance
- MaterialCostPercentComplete
- MaterialCostVariance
- MaximumDuration
- MinimumDuration
- MostLikelyDuration
- Name
- NonLaborCost1Variance
- NonLaborCost2Variance
- NonLaborCost3Variance
- NonLaborCostPercentComplete
- NonLaborCostVariance
- NonLaborUnits1Variance
- NonLaborUnits2Variance
- NonLaborUnits3Variance

- NonLaborUnitsPercentComplete
- NonLaborUnitsVariance
- NotesToResources
- ObjectId
- PercentComplete
- PercentCompleteType
- PerformancePercentComplete
- PerformancePercentCompleteByLaborUnits
- PhysicalPercentComplete
- PlannedDuration
- PlannedExpenseCost
- PlannedFinishDate
- PlannedLaborCost
- PlannedLaborUnits
- PlannedMaterialCost
- PlannedNonLaborCost
- PlannedNonLaborUnits
- PlannedStartDate
- PlannedTotalCost
- PlannedTotalUnits
- PlannedValueCost
- PlannedValueLaborUnits
- PostRespCriticalityIndex
- PostResponsePessimisticFinish
- PostResponsePessimisticStart
- PreRespCriticalityIndex
- PreResponsePessimisticFinish
- PreResponsePessimisticStart
- PrimaryConstraintDate
- PrimaryConstraintType
- PrimaryResourceId
- PrimaryResourceName
- PrimaryResourceObjectId
- ProjectFlag
- ProjectId
- ProjectName
- ProjectObjectId
- ProjectProjectFlag
- RemainingDuration

- RemainingEarlyFinishDate
- RemainingEarlyStartDate
- RemainingExpenseCost
- RemainingFloat
- RemainingLaborCost
- RemainingLaborUnits
- RemainingLateFinishDate
- RemainingLateStartDate
- RemainingMaterialCost
- RemainingNonLaborCost
- RemainingNonLaborUnits
- RemainingTotalCost
- RemainingTotalUnits
- ResumeDate
- ReviewFinishDate
- ReviewRequired
- ReviewStatus
- SchedulePercentComplete
- SchedulePerformanceIndex
- SchedulePerformanceIndexLaborUnits
- ScheduleVariance
- ScheduleVarianceIndex
- ScheduleVarianceIndexLaborUnits
- ScheduleVarianceLaborUnits
- ScopePercentComplete
- SecondaryConstraintDate
- SecondaryConstraintType
- StartDate
- StartDate1Variance
- StartDate2Variance
- StartDate3Variance
- StartDateVariance
- Status
- StatusCode
- SuspendDate
- TaskStatusCompletion
- TaskStatusDates
- TaskStatusIndicator
- ToCompletePerformanceIndex

- TotalCost1Variance
- TotalCost2Variance
- TotalCost3Variance
- TotalCostVariance
- TotalFloat
- TotalPastPeriodEarnedValueCostBCWP
- TotalPastPeriodEarnedValueLaborUnits
- TotalPastPeriodExpenseCost
- TotalPastPeriodLaborCost
- TotalPastPeriodLaborUnits
- TotalPastPeriodMaterialCost
- TotalPastPeriodNonLaborCost
- TotalPastPeriodNonLaborUnits
- TotalPastPeriodPlannedValueCost
- TotalPastPeriodPlannedValueLaborUnits
- Type
- UnitsPercentComplete
- UnreadCommentCount
- WBSCode
- WBSName
- WBSObjectId
- WBSPath
- WBSNamePath
- WorkPackageId
- WorkPackageName

ActivityCode

- Include
- Field
 - CodeConcatName
 - CodeTypeName
 - CodeTypeObjectId
 - CodeTypeScope
 - CodeValue
 - Color
 - CreateDate
 - CreateUser
 - Description
 - LastUpdateDate
 - LastUpdateUser

- ObjectId
- ParentObjectId
- ProjectObjectId
- RefProjectObjectIds
- SequenceNumber

ActivityCodeAssignment

Include

ActivityCodeType

- Include
- Field
 - CreateDate
 - CreateUser
 - EPSCodeTypeHierarchy
 - EPSObjectId
 - IsBaseline
 - IsSecureCode
 - IsTemplate
 - LastUpdateDate
 - LastUpdateUser
 - Length
 - Name
 - ObjectId
 - ProjectObjectId
 - RefProjectObjectId
 - Scope
 - SequenceNumber

ActivityExpense

- Include
- Field
 - AccrualType
 - ActivityId
 - ActivityName
 - ActivityObjectId
 - ActualCost
 - ActualUnits
 - AtCompletionCost
 - AtCompletionUnits
 - AutoComputeActuals

- CBSCode
- CBSId
- CostAccountId
- CostAccountName
- CostAccountObjectId
- CreateDate
- CreateUser
- DocumentNumber
- ExpenseCategoryName
- ExpenseCategoryObjectId
- ExpenseDescription
- Expenseltem
- ExpensePercentComplete
- IsBaseline
- IsTemplate
- LastUpdateDate
- LastUpdateUser
- ObjectId
- OverBudget
- PlannedCost
- PlannedUnits
- PricePerUnit
- ProjectId
- ProjectObjectId
- RemainingCost
- RemainingUnits
- UnitOfMeasure
- Vendor
- WBSObjectId

ActivityNote

- Include
- Field
 - ActivityId
 - ActivityName
 - ActivityObjectId
 - CreateDate
 - CreateUser
 - IsBaseline
 - IsTemplate

- LastUpdateDate
- LastUpdateUser
- Note
- NotebookTopicName
- NotebookTopicObjectId
- ObjectId
- ProjectId
- ProjectObjectId
- RawTextNote
- WBSObjectId

ActivityPeriodActual

- Include
- Field
 - ActivityObjectId
 - ActualExpenseCost
 - ActualLaborCost
 - ActualLaborUnits
 - ActualMaterialCost
 - ActualNonLaborCost
 - ActualNonLaborUnits
 - CreateDate
 - CreateUser
 - EarnedValueCost
 - EarnedValueLaborUnits
 - FinancialPeriodObjectId
 - FinancialPeriodTemplateId
 - IsBaseline
 - IsTemplate
 - LastUpdateDate
 - LastUpdateUser
 - PlannedValueCost
 - PlannedValueLaborUnits
 - ProjectObjectId
 - WBSObjectId

ActivityRisk

- Include
- Field
 - ActivityId

- ActivityName
- ActivityObjectId
- CreateDate
- CreateUser
- IsBaseline
- IsTemplate
- LastUpdateDate
- LastUpdateUser
- ProjectId
- ProjectName
- ProjectObjectId
- Riskld
- RiskName
- RiskObjectId

ActivityStep

- Include
- Field
 - ActivityId
 - ActivityName
 - ActivityObjectId
 - CreateDate
 - CreateUser
 - Description
 - IsBaseline
 - IsCompleted
 - IsTemplate
 - LastUpdateDate
 - LastUpdateUser
 - Name
 - ObjectId
 - PercentComplete
 - ProjectId
 - ProjectObjectId
 - SequenceNumber
 - WBSObjectId
 - Weight
 - WeightPercent

Calendar

- Include
- Field
 - BaseCalendarObjectId
 - CreateDate
 - CreateUser
 - HoursPerDay
 - HoursPerMonth
 - HoursPerWeek
 - HoursPerYear
 - IsBaseline
 - IsDefault
 - IsPersonal
 - IsTemplate
 - LastUpdateDate
 - LastUpdateUser
 - Name
 - ObjectId
 - ProjectId
 - ProjectObjectId
 - Type

CostAccount

- Include
- Field
 - CreateDate
 - CreateUser
 - Description
 - ld 🖌
 - LastUpdateDate
 - LastUpdateUser
 - Name
 - ObjectId
 - ParentObjectId
 - SequenceNumber

Currency

- Include
- Field
 - CreateDate

- CreateUser
- DecimalPlaces
- DecimalSymbol
- DigitGroupingSymbol
- ExchangeRate
- ld 🖌
- IsBaseCurrency
- LastUpdateDate
- LastUpdateUser
- Name
- NegativeSymbol
- ObjectId
- PositiveSymbol
- Symbol

Document

- Include
- Field
 - ActivityObjectId
 - Author
 - ContentRepositoryDocumentInternalId
 - CreateDate
 - CreateUser
 - Deliverable
 - Description
 - DocumentCategoryName
 - DocumentCategoryObjectId
 - DocumentStatusCodeName
 - DocumentStatusName
 - DocumentStatusCodeObjectId
 - DocumentType
 - GUID
 - IsBaseline
 - IsTemplate
 - LastUpdateDate
 - LastUpdateUser
 - ObjectId
 - ParentObjectId
 - PrivateLocation
 - ProjectId

- ProjectObjectId
- PublicLocation
- ReferenceNumber
- Resourceld
- ResourceName
- ResourceObjectId
- RevisionDate
- SequenceNumber
- Title
- Version

DocumentCategory

- Include
- Field
 - CreateDate
 - CreateUser
 - LastUpdateDate
 - LastUpdateUser
 - Name
 - ObjectId
 - SequenceNumber

DocumentStatusCode

- Include
- Field
 - CreateDate
 - CreateUser
 - LastUpdateDate
 - LastUpdateUser
 - Name
 - ObjectId
 - SequenceNumber

EPS

- Include
- Field
 - AnticipatedFinishDate
 - AnticipatedStartDate
 - CreateDate
 - CreateUser
 - CurrentBudget

- CurrentVariance
- DistributedCurrentBudget
- FinishDate
- GUID
- ld 🖌
- IndependentETCLaborUnits
- IndependentETCTotalCost
- LastSummarizedDate
- LastUpdateDate
- LastUpdateUser
- Name
- OBSName
- OBSObjectId
- ObjectId
- OriginalBudget
- ParentEPSId
- ParentEPSName
- ParentObjectId
- PlannedStartDate
- ProjectObjectId
- ProposedBudget
- SequenceNumber
- StartDate
- SummaryAccountingVarianceByCost
- SummaryAccountingVarianceByLaborUnits
- SummaryActivityCount
- SummaryActualDuration
- SummaryActualExpenseCost
- SummaryActualFinishDate
- SummaryActualLaborCost
- SummaryActualLaborUnits
- SummaryActualMaterialCost
- SummaryActualNonLaborCost
- SummaryActualNonLaborUnits
- SummaryActualStartDate
- SummaryActualThisPeriodCost
- SummaryActualThisPeriodLaborCost
- SummaryActualThisPeriodLaborUnits
- SummaryActualThisPeriodMaterialCost

- SummaryActualThisPeriodNonLaborCost
- SummaryActualThisPeriodNonLaborUnits
- SummaryActualTotalCost
- SummaryActualValueByCost
- SummaryActualValueByLaborUnits
- SummaryAtCompletionDuration
- SummaryAtCompletionExpenseCost
- SummaryAtCompletionLaborCost
- SummaryAtCompletionLaborUnits
- SummaryAtCompletionMaterialCost
- SummaryAtCompletionNonLaborCost
- SummaryAtCompletionNonLaborUnits
- SummaryAtCompletionTotalCost
- SummaryAtCompletionTotalCostVariance
- SummaryBaselineCompletedActivityCount
- SummaryBaselineDuration
- SummaryBaselineExpenseCost
- SummaryBaselineFinishDate
- SummaryBaselineInProgressActivityCount
- SummaryBaselineLaborCost
- SummaryBaselineLaborUnits
- SummaryBaselineMaterialCost
- SummaryBaselineNonLaborCost
- SummaryBaselineNonLaborUnits
- SummaryBaselineNotStartedActivityCount
- SummaryBaselineStartDate
- SummaryBaselineTotalCost
- SummaryBudgetAtCompletionByCost
- SummaryBudgetAtCompletionByLaborUnits
- SummaryCompletedActivityCount
- SummaryCostPercentComplete
- SummaryCostPercentOfPlanned
- SummaryCostPerformanceIndexByCost
- SummaryCostPerformanceIndexByLaborUnits
- SummaryCostVarianceByCost
- SummaryCostVarianceByLaborUnits
- SummaryCostVarianceIndex
- SummaryCostVarianceIndexByCost
- SummaryCostVarianceIndexByLaborUnits

- SummaryDurationPercentComplete
- SummaryDurationPercentOfPlanned
- SummaryDurationVariance
- SummaryEarnedValueByCost
- SummaryEarnedValueByLaborUnits
- SummaryEstimateAtCompletionByCost
- SummaryEstimateAtCompletionByLaborUnits
- SummaryEstimateAtCompletionHighPercentByLaborUnits
- SummaryEstimateAtCompletionLowPercentByLaborUnits
- SummaryEstimateToCompleteByCost
- SummaryEstimateToCompleteByLaborUnits
- SummaryExpenseCostPercentComplete
- SummaryExpenseCostVariance
- SummaryFinishDateVariance
- SummaryInProgressActivityCount
- SummaryLaborCostPercentComplete
- SummaryLaborCostVariance
- SummaryLaborUnitsPercentComplete
- SummaryLaborUnitsVariance
- SummaryMaterialCostPercentComplete
- SummaryMaterialCostVariance
- SummaryNonLaborCostPercentComplete
- SummaryNonLaborCostVariance
- SummaryNonLaborUnitsPercentComplete
- SummaryNonLaborUnitsVariance
- SummaryNotStartedActivityCount
- SummaryPerformancePercentCompleteByCost
- SummaryPerformancePercentCompleteByLaborUnits
- SummaryPlannedCost
- SummaryPlannedDuration
- SummaryPlannedExpenseCost
- SummaryPlannedFinishDate
- SummaryPlannedLaborCost
- SummaryPlannedLaborUnits
- SummaryPlannedMaterialCost
- SummaryPlannedNonLaborCost
- SummaryPlannedNonLaborUnits
- SummaryPlannedStartDate
- SummaryPlannedValueByCost

- SummaryPlannedValueByLaborUnits
- SummaryProgressFinishDate
- SummaryRemainingDuration
- SummaryRemainingExpenseCost
- SummaryRemainingFinishDate
- SummaryRemainingLaborCost
- SummaryRemainingLaborUnits
- SummaryRemainingMaterialCost
- SummaryRemainingNonLaborCost
- SummaryRemainingNonLaborUnits
- SummaryRemainingStartDate
- SummaryRemainingTotalCost
- SummarySchedulePercentComplete
- SummarySchedulePercentCompleteByLaborUnits
- SummarySchedulePerformanceIndexByCost
- SummarySchedulePerformanceIndexByLaborUnits
- SummaryScheduleVarianceByCost
- SummaryScheduleVarianceByLaborUnits
- SummaryScheduleVarianceIndex
- SummaryScheduleVarianceIndexByCost
- SummaryScheduleVarianceIndexByLaborUnits
- SummaryStartDateVariance
- SummaryToCompletePerformanceIndexByCost
- SummaryTotalCostVariance
- SummaryTotalFloat
- SummaryUnitsPercentComplete
- SummaryVarianceAtCompletionByLaborUnits
- TotalBenefitPlan
- TotalBenefitPlanTally
- TotalFunding
- TotalSpendingPlan
- TotalSpendingPlanTally
- UnallocatedBudget
- UndistributedCurrentVariance

ExpenseCategory

- Include
- Field
 - CreateDate
 - CreateUser

- LastUpdateDate
- LastUpdateUser
- Name
- ObjectId
- SequenceNumber

FinancialPeriod

- Include
- Field
 - CreateDate
 - CreateUser
 - EndDate
 - FinancialPeriodTmplld
 - LastUpdateDate
 - LastUpdateUser
 - Name
 - ObjectId
 - StartDate

FundingSource

- Include
- Field
 - CreateDate
 - CreateUser
 - Description
 - LastUpdateDate
 - LastUpdateUser
 - Name
 - ObjectId
 - ParentObjectId
 - SequenceNumber

NotebookTopic

- Include
- Field
 - AvailableForActivity
 - AvailableForEPS
 - AvailableForProject
 - AvailableForWBS
 - CreateDate
 - CreateUser

- LastUpdateDate
- LastUpdateUser
- Name
- ObjectId
- SequenceNumber

OBS

- Include
- Field
 - CreateDate
 - CreateUser
 - Description
 - GUID
 - LastUpdateDate
 - LastUpdateUser
 - Name
 - ObjectId
 - ParentObjectId
 - SequenceNumber

Project

- Include
- Field
 - ActivityDefaultActivityType
 - ActivityDefaultCalendarName
 - ActivityDefaultCalendarObjectId
 - ActivityDefaultCostAccountObjectId
 - ActivityDefaultDurationType
 - ActivityDefaultPercentCompleteType
 - ActivityDefaultPricePerUnit
 - ActivityDefaultReviewRequired
 - ActivityIdBasedOnSelectedActivity
 - ActivityIdIncrement
 - ActivityIdPrefix
 - ActivityIdSuffix
 - ActivityPercentCompleteBasedOnActivitySteps
 - AddActualToRemaining
 - AddedBy
 - AllowNegativeActualUnitsFlag
 - AllowStatusReview

- AnnualDiscountRate
- AnticipatedFinishDate
- AnticipatedStartDate
- AssignmentDefaultDrivingFlag
- AssignmentDefaultRateType
- CalculateFloatBasedOnFinishDate
- CheckOutDate
- CheckOutStatus
- CheckOutUserObjectId
- ComputeTotalFloatType
- ContainsSummaryData
- ContractManagementGroupName
- ContractManagementProjectName
- CostQuantityRecalculateFlag
- CreateDate
- CreateUser
- CriticalActivityFloatLimit
- CriticalActivityFloatThreshold
- CriticalActivityPathType
- CriticalFloatThreshold
- CurrentBaselineProjectObjectId
- CurrentBudget
- CurrentVariance
- DataDate
- DateAdded
- DefaultPriceTimeUnits
- Description
- DiscountApplicationPeriod
- DistributedCurrentBudget
- EarnedValueComputeType
- EarnedValueETCComputeType
- EarnedValueETCUserValue
- EarnedValueUserPercent
- EnablePublication
- EnableSummarization
- EtlInterval
- FinancialPeriodTmplld
- FinishDate
- FiscalYearStartMonth

- ForecastFinishDate
- ForecastStartDate
- GUID
- HasFutureBucketData
- HistoryInterval
- HistoryLevel
- ld 🖌
- IgnoreOtherProjectRelationships
- IndependentETCLaborUnits
- IndependentETCTotalCost
- IntegratedType
- IntegratedWBS
- IsTemplate
- LastApplyActualsDate
- LastFinancialPeriodObjectId
- LastLevelDate
- LastPublishedOn
- LastScheduleDate
- LastSummarizedDate
- LastUpdateDate
- LastUpdateUser
- Latitude
- LevelAllResources
- LevelDateFlag
- LevelFloatThresholdCount
- LevelOuterAssign
- LevelOuterAssignPriority
- LevelOverAllocationPercent
- LevelPriorityList
- LevelResourceList
- LevelWithinFloat
- LevelingPriority
- LimitMultipleFloatPaths
- LinkActualToActualThisPeriod
- LinkPercentCompleteWithActual
- LinkPlannedAndAtCompletionFlag
- LocationName
- LocationObjectId
- Longitude

- MakeOpenEndedActivitiesCritical
- MaximumMultipleFloatPaths
- MultipleFloatPathsEnabled
- MultipleFloatPathsEndingActivityObjectId
- MultipleFloatPathsUseTotalFloat
- MustFinishByDate
- Name
- NetPresentValue
- OBSName
- OBSObjectId
- ObjectId
- OriginalBudget
- OutOfSequenceScheduleType
- OverallProjectScore
- OwnerResourceObjectId
- ParentEPSId
- ParentEPSName
- PaybackPeriod
- PerformancePercentCompleteByLaborUnits
- ParentEPSObjectId
- PlannedStartDate
- PostResponsePessimisticFinish
- PostResponsePessimisticStart
- PreResponsePessimisticFinish
- PreResponsePessimisticStart
- PricePerUnit
- PrimaryResourcesCanMarkActivitiesAsCompleted
- PrimaryResourcesCanUpdateActivityDates
- ProjectForecastStartDate
- ProjectScheduleType
- PropertyType
- ProposedBudget
- PublicationPriority
- PublishLevel
- RelationshipLagCalendar
- RelationshipLagCalendar
- ResetPlannedToRemainingFlag
- ResourceCanBeAssignedToSameActivityMoreThanOnce
- ResourceName

- ResourcesCanAssignThemselvesToActivities
- ResourcesCanAssignThemselvesToActivitiesOutsideOBSAccess
- ResourcesCanEditAssignmentPercentComplete
- ResourcesCanMarkAssignmentAsCompleted
- ResourcesCanStaffRoleAssignment
- ResourcesCanViewInactiveActivities
- ReturnOnInvestment
- ReviewRequired
- ReviewType
- RiskExposure
- RiskLevel
- RiskMatrixName
- RiskMatrixObjectId
- RiskScore
- ScheduleWBSHierarchyType
- ScheduledFinishDate
- SourceProjectObjectId
- StartDate
- StartToStartLagCalculationType
- Status
- StatusReviewerName
- StatusReviewerObjectId
- StrategicPriority
- SummarizeResourcesRolesByWBS
- SummarizeToWBSLevel
- SummarizedDataDate
- SummaryAccountingVarianceByCost
- SummaryAccountingVarianceByLaborUnits
- SummaryActivityCount
- SummaryActualDuration
- SummaryActualExpenseCost
- SummaryActualFinishDate
- SummaryActualLaborCost
- SummaryActualLaborUnits
- SummaryActualMaterialCost
- SummaryActualNonLaborCost
- SummaryActualNonLaborUnits
- SummaryActualStartDate
- SummaryActualThisPeriodCost

- SummaryActualThisPeriodLaborCost
- SummaryActualThisPeriodLaborUnits
- SummaryActualThisPeriodMaterialCost
- SummaryActualThisPeriodNonLaborCost
- SummaryActualThisPeriodNonLaborUnits
- SummaryActualTotalCost
- SummaryActualValueByCost
- SummaryActualValueByLaborUnits
- SummaryAtCompletionDuration
- SummaryAtCompletionExpenseCost
- SummaryAtCompletionLaborCost
- SummaryAtCompletionLaborUnits
- SummaryAtCompletionMaterialCost
- SummaryAtCompletionNonLaborCost
- SummaryAtCompletionNonLaborUnits
- SummaryAtCompletionTotalCost
- SummaryAtCompletionTotalCostVariance
- SummaryBaselineCompletedActivityCount
- SummaryBaselineDuration
- SummaryBaselineExpenseCost
- SummaryBaselineFinishDate
- SummaryBaselineInProgressActivityCount
- SummaryBaselineLaborCost
- SummaryBaselineLaborUnits
- SummaryBaselineMaterialCost
- SummaryBaselineNonLaborCost
- SummaryBaselineNonLaborUnits
- SummaryBaselineNotStartedActivityCount
- SummaryBaselineStartDate
- SummaryBaselineTotalCost
- SummaryBudgetAtCompletionByCost
- SummaryBudgetAtCompletionByLaborUnits
- SummaryCompletedActivityCount
- SummaryCostPercentComplete
- SummaryCostPercentOfPlanned
- SummaryCostPerformanceIndexByCost
- SummaryCostPerformanceIndexByLaborUnits
- SummaryCostVarianceByCost
- SummaryCostVarianceByLaborUnits

- SummaryCostVarianceIndex
- SummaryCostVarianceIndexByCost
- SummaryCostVarianceIndexByLaborUnits
- SummaryDurationPercentComplete
- SummaryDurationPercentOfPlanned
- SummaryDurationVariance
- SummaryEarnedValueByCost
- SummaryEarnedValueByLaborUnits
- SummaryEstimateAtCompletionByCost
- SummaryEstimateAtCompletionByLaborUnits
- SummaryEstimateAtCompletionHighPercentByLaborUnits
- SummaryEstimateAtCompletionLowPercentByLaborUnits
- SummaryEstimateToCompleteByCost
- SummaryEstimateToCompleteByLaborUnits
- SummaryExpenseCostPercentComplete
- SummaryExpenseCostVariance
- SummaryFinishDateVariance
- SummaryInProgressActivityCount
- SummaryLaborCostPercentComplete
- SummaryLaborCostVariance
- SummaryLaborUnitsPercentComplete
- SummaryLaborUnitsVariance
- SummaryLevel
- SummaryMaterialCostPercentComplete
- SummaryMaterialCostVariance
- SummaryNonLaborCostPercentComplete
- SummaryNonLaborCostVariance
- SummaryNonLaborUnitsPercentComplete
- SummaryNonLaborUnitsVariance
- SummaryNotStartedActivityCount
- SummaryPerformancePercentCompleteByCost
- SummaryPerformancePercentCompleteByLaborUnits
- SummaryPlannedCost
- SummaryPlannedDuration
- SummaryPlannedExpenseCost
- SummaryPlannedFinishDate
- SummaryPlannedLaborCost
- SummaryPlannedLaborUnits
- SummaryPlannedMaterialCost

- SummaryPlannedNonLaborCost
- SummaryPlannedNonLaborUnits
- SummaryPlannedStartDate
- SummaryPlannedValueByCost
- SummaryPlannedValueByLaborUnits
- SummaryProgressFinishDate
- SummaryRemainingDuration
- SummaryRemainingExpenseCost
- SummaryRemainingFinishDate
- SummaryRemainingLaborCost
- SummaryRemainingLaborUnits
- SummaryRemainingMaterialCost
- SummaryRemainingNonLaborCost
- SummaryRemainingNonLaborUnits
- SummaryRemainingStartDate
- SummaryRemainingTotalCost
- SummarySchedulePercentComplete
- SummarySchedulePercentCompleteByLaborUnits
- SummarySchedulePerformanceIndexByCost
- SummarySchedulePerformanceIndexByLaborUnits
- SummaryScheduleVarianceByCost
- SummaryScheduleVarianceByLaborUnits
- SummaryScheduleVarianceIndex
- SummaryScheduleVarianceIndexByCost
- SummaryScheduleVarianceIndexByLaborUnits
- SummaryStartDateVariance
- SummaryToCompletePerformanceIndexByCost
- SummaryTotalCostVariance
- SummaryTotalFloat
- SummaryUnitsPercentComplete
- SummaryVarianceAtCompletionByLaborUnits
- SyncWbsHierarchyFlag
- TeamMemberActivityFields
- TeamMemberAddNewActualUnits
- TeamMemberAssignmentOption
- TeamMemberAssignmentProficiencyFlag
- TeamMemberCanStatusOtherResources
- TeamMemberCanUpdateNotebooks
- TeamMemberDisplayBaselineDatesFlag

- TeamMemberDisplayPlannedUnits
- TeamMemberDisplayTotalFloatFlag
- TeamMemberIncludePrimaryResources
- TeamMemberReadOnlyActivityFields
- TeamMemberCanStatusOtherResources
- TeamMemberCanUpdateNotebooks
- TeamMemberDisplayPlannedUnits
- TeamMemberIncludePrimaryResources
- TeamMemberResourceAssignmentFields
- TeamMemberStepUDFViewableFields
- TeamMemberStepsAddDeletable
- TeamMemberViewableFields
- TotalBenefitPlan
- TotalBenefitPlanTally
- TotalFunding
- TotalSpendingPlan
- TotalSpendingPlanTally
- UnallocatedBudget
- UndistributedCurrentVariance
- UnifierCBSTasksOnlyFlag
- UnifierDataMappingName
- UnifierDeleteActivitiesFlag
- UnifierEnabledFlag
- UnifierProjectName
- UnifierProjectNumber
- UnifierScheduleSheetName
- UnitPerTimeOvertimeFactor
- UseExpectedFinishDates
- UseProjectBaselineForEarnedValue
- WBSCategoryObjectId
- WBSCodeSeparator
- WBSHierarchyLevels
- WBSMilestonePercentComplete
- WBSObjectId
- WebSiteRootDirectory
- WebSiteURL

ProjectBudgetChangeLog

- Include
- Field

- Amount
- ChangeNumber
- CreateDate
- CreateUser
- Date
- IsBaseline
- IsTemplate
- LastUpdateDate
- LastUpdateUser
- ObjectId
- ProjectId
- ProjectObjectId
- Reason
- Responsible
- Status
- WBSCode
- WBSName
- WBSObjectId

ProjectCode

- Include
- Field
 - CodeTypeName
 - CodeTypeObjectId
 - CodeValue
 - CreateDate
 - CreateUser
 - Description
 - LastUpdateDate
 - LastUpdateUser
 - ObjectId
 - ParentObjectId
 - SequenceNumber
 - Weight

ProjectCodeAssignment

Include

ProjectCodeType

- Include
- Field

- CreateDate
- CreateUser
- IsSecureCode
- LastUpdateDate
- LastUpdateUser
- Length
- MaxCodeValueWeight
- Name
- ObjectId
- SequenceNumber
- Weight

ProjectDocument

- Include
- Field
 - ActivityId
 - ActivityName
 - ActivityObjectId
 - CreateDate
 - CreateUser
 - DocumentCategoryName
 - DocumentObjectId
 - DocumentStatusName
 - DocumentTitle
 - IsBaseline
 - IsTemplate
 - IsWorkProduct
 - LastUpdateDate
 - LastUpdateUser
 - ObjectId
 - ParentWBSObjectId
 - ProjectId
 - ProjectObjectId
 - WBSCode
 - WBSName
 - WBSObjectId

ProjectFunding

- Include
- Field

- Amount
- CreateDate
- CreateUser
- FundShare
- FundingSourceName
- FundingSourceObjectId
- IsBaseline
- IsTemplate
- LastUpdateDate
- LastUpdateUser
- ObjectId
- ProjectId
- ProjectObjectId

ProjectIssue

- Include
- Field
 - ActivityId
 - ActivityName
 - ActivityObjectId
 - ActualValue
 - CreateDate
 - CreateUser
 - DateIdentified
 - IdentifiedBy
 - IsBaseline
 - IsTemplate
 - LastUpdateDate
 - LastUpdateUser
 - LowerThreshold
 - Name
 - Notes
 - OBSName
 - OBSObjectId
 - ObjectId
 - Priority
 - ProjectId
 - ProjectName
 - ProjectObjectId
 - ProjectThresholdObjectId

- RawTextNote
- ResolutionDate
- Resourceld
- ResourceName
- ResourceObjectId
- Status
- ThresholdParameterObjectId
- UpperThreshold
- WBSCode
- WBSName
- WBSObjectId

ProjectNote

- Include
- Field
 - AvailableForActivity
 - AvailableForEPS
 - AvailableForProject
 - AvailableForWBS
 - CreateDate
 - CreateUser
 - IsBaseline
 - IsTemplate
 - LastUpdateDate
 - LastUpdateUser
 - Note
 - NotebookTopicName
 - NotebookTopicObjectId
 - ObjectId
 - ProjectId
 - ProjectObjectId
 - RawTextNote
 - WBSCode
 - WBSName
 - WBSObjectId

ProjectResource

- Include
- Field
 - CommittedFlag

- CreateDate
- CreateUser
- FinishDate
- IsBaseline
- IsTemplate
- LastUpdateDate
- LastUpdateUser
- LifeOfProjectFlag
- ObjectId
- ProjectId
- ProjectObjectId
- ProjectResourceCategoryName
- ProjectResourceCategoryObjectId
- ResourceName
- ResourceObjectId
- ResourceRequest
- RoleName
- RoleObjectId
- StartDate
- Status
- TotalUnits
- WBSCode
- WBSObjectId

ProjectResourceCategory

- Include
- Field
 - CreateDate
 - CreateUser
 - LastUpdateDate
 - LastUpdateUser
 - Name
 - ObjectId

ProjectResourceQuantity

- Include
- Field
 - CommittedFlag
 - CreateDate
 - CreateUser

- FinancialPeriod1ObjectId
- FinancialPeriod1Quantity
- FinancialPeriod2ObjectId
- FinancialPeriod2Quantity
- FinancialPeriodTmplId
- IsBaseline
- IsTemplate
- LastUpdateDate
- LastUpdateUser
- MonthStartDate
- ProjectObjectId
- ProjectResourceObjectId
- Quantity
- ResourceObjectId
- RoleObjectId
- WBSObjectId
- WeekStartDate

ProjectSpendingPlan

- Include
- Field
 - BenefitPlan
 - CreateDate
 - CreateUser
 - Date
 - IsBaseline
 - IsTemplate
 - LastUpdateDate
 - LastUpdateUser
 - ObjectId
 - ProjectId
 - ProjectObjectId
 - SpendingPlan
 - WBSCode
 - WBSName
 - WBSObjectId

ProjectThreshold

- Include
- Field

- CreateDate
- CreateUser
- DetailToMonitor
- FromDate
- FromDateExpression
- IsBaseline
- IsTemplate
- IssuePriority
- LastUpdateDate
- LastUpdateUser
- LowerThreshold
- OBSObjectId
- ObjectId
- ProjectId
- ProjectObjectId
- Status
- ThresholdParameterObjectId
- ToDate
- ToDateExpression
- UpperThreshold
- WBSCode
- WBSName
- WBSObjectId

Relationship

- Include
- Field
 - Aref
 - Arls
 - Comments
 - CreateDate
 - CreateUser
 - Driving
 - IsPredecessorBaseline
 - IsPredecessorTemplate
 - IsSuccessorBaseline
 - IsSuccessorTemplate
 - Lag
 - LastUpdateDate
 - LastUpdateUser

- ObjectId
- PredecessorActivityId
- PredecessorActivityName
- PredecessorActivityObjectId
- PredecessorActivityType
- PredecessorFinishDate
- PredecessorProjectId
- PredecessorProjectObjectId
- PredecessorStartDate
- PredecessorWbsName
- SuccessorActivityId
- SuccessorActivityName
- SuccessorActivityObjectId
- SuccessorActivityType
- SuccessorFinishDate
- SuccessorProjectId
- SuccessorProjectObjectId
- SuccessorStartDate
- SuccessorWbsName
- Type

Resource

- Include
- Field
 - AutoComputeActuals
 - CalculateCostFromUnits
 - CalendarName
 - CalendarObjectId
 - CreateDate
 - CreateUser
 - Currencyld
 - CurrencyName
 - CurrencyObjectId
 - DefaultUnitsPerTime
 - EffectiveDate
 - EmailAddress
 - Employeeld
 - GUID
 - Id
 - IntegratedType

- IsActive
- IsOverTimeAllowed
- LastUpdateDate
- LastUpdateUser
- Latitude
- LocationName
- LocationObjectId
- Longitude
- MaxUnitsPerTime
- Name
- ObjectId
- OfficePhone
- OtherPhone
- OvertimeFactor
- ParentObjectId
- PricePerUnit
- PrimaryRoleId
- PrimaryRoleName
- PrimaryRoleObjectId
- ResourceNotes
- ResourceType
- SequenceNumber
- ShiftObjectId
- TimesheetApprovalManager
- TimesheetApprovalManagerObjectId
- Title
- UnitOfMeasureAbbreviation
- UnitOfMeasureName
- UnitOfMeasureObjectId
- UseTimesheets
- UserName
- UserObjectId

ResourceAssignment

- Include
- Field
 - ActivityActualFinish
 - ActivityId
 - ActivityName
 - ActivityObjectId

- ActivityType
- ActualCost
- ActualCurve
- ActualDuration
- ActualFinishDate
- ActualOvertimeCost
- ActualOvertimeUnits
- ActualRegularCost
- ActualRegularUnits
- ActualStartDate
- ActualThisPeriodCost
- ActualThisPeriodUnits
- ActualUnits
- ResourceAssignmentFieldType
- AtCompletionCost
- AtCompletionDuration
- AtCompletionUnits
- AutoComputeActuals
- BudgetAtCompletionCosts
- BudgetAtCompletionUnits
- CBSId
- CBSCode
- CalendarName
- CalendarObjectId
- CostAccountId
- CostAccountName
- CostAccountObjectId
- CreateDate
- CreateUser
- DrivingActivityDatesFlag
- DurationPercentComplete
- EstimateToCompletionCosts
- EstimateToCompletionUnits
- FinancialPeriodTmpIId
- FinishDate
- GUID
- HasFutureBucketData
- IsActive
- IsActivityFlagged

- IsBaseline
- IsCostUnitsLinked
- IsOvertimeAllowed
- IsPrimaryResource
- IsTemplate
- LastUpdateDate
- LastUpdateUser
- ObjectId
- OvertimeFactor
- PendingActualOvertimeUnits
- PendingActualRegularUnits
- PendingPercentComplete
- PendingRemainingUnits
- PercentComplete
- PercentCompeleType
- PlannedCost
- PlannedCurve
- PlannedDuration
- PlannedFinishDate
- PlannedLag
- PlannedStartDate
- PlannedUnits
- PlannedUnitsPerTime
- PricePerUnit
- PriorActualOvertimeUnits
- PriorActualRegularUnits
- Proficiency
- ProjectFlag
- ProjectId
- ProjectName
- ProjectObjectId
- ProjectProjectFlag
- RateSource
- RateType
- RemainingCost
- RemainingCurve
- RemainingDuration
- RemainingFinishDate
- RemainingLag

- RemainingLateFinishDate
- RemainingLateStartDate
- RemainingStartDate
- RemainingUnits
- RemainingUnitsPerTime
- ResourceCalendarName
- ResourceCurveName
- ResourceCurveObjectId
- Resourceld
- ResourceName
- ResourceObjectId
- ResourceRequest
- ResourceType
- ReviewRequired
- RoleId
- RoleName
- RoleObjectId
- RoleShortName
- StaffedRemainingCost
- StaffedRemainingUnits
- StartDate
- StatusCode
- UnitsPercentComplete
- UnreadCommentCount
- UnstaffedRemainingCost
- UnstaffedRemainingUnits
- WBSObjectId

ResourceAssignmentPeriodActual

- Include
- Field
 - ActivityObjectId
 - ActualCost
 - ActualUnits
 - CreateDate
 - CreateUser
 - FinancialPeriodObjectId
 - IsBaseline
 - IsTemplate
 - LastUpdateDate

- LastUpdateUser
- ProjectObjectId
- ResourceAssignmentObjectId
- ResourceType
- WBSObjectId

ResourceCode

- Include
- Field
 - CodeConcatName
 - CodeTypeName
 - CodeTypeObjectId
 - CodeValue
 - CreateDate
 - CreateUser
 - Description
 - LastUpdateDate
 - LastUpdateUser
 - ObjectId
 - ParentObjectId
 - SequenceNumber

ResourceCodeAssignment

Include

ResourceCodeType

- Include
- Field
 - CreateDate
 - CreateUser
 - IsSecureCode
 - LastUpdateDate
 - LastUpdateUser
 - Length
 - Name
 - ObjectId
 - SequenceNumber

ResourceCurve

- Include
- Field

- CreateDate
- CreateUser
- IsDefault
- LastUpdateDate
- LastUpdateUser
- Name
- ObjectId

ResourceRate

- Include
- Field
 - CreateDate
 - CreateUser
 - EffectiveDate
 - LastUpdateDate
 - LastUpdateUser
 - MaxUnitsPerTime
 - ObjectId
 - PricePerUnit
 - PricePerUnit2
 - PricePerUnit3
 - PricePerUnit4
 - PricePerUnit5
 - Resourceld
 - ResourceName
 - ResourceObjectId
 - ShiftPeriodObjectId

ResourceRole

- Include
- Field
 - CreateDate
 - CreateUser
 - LastUpdateDate
 - LastUpdateUser
 - Proficiency
 - Resourceld
 - ResourceName
 - ResourceObjectId
 - RoleId

- RoleName
- RoleObjectId

Risk

- Include
- Field
 - Cause
 - CostThresholdId
 - CreateDate
 - CreateUser
 - Description
 - Effect
 - Exposure
 - ExposureFinishDate
 - ExposureStartDate
 - ld 🖌
 - IdentifiedByResourceId
 - IdentifiedByResourceName
 - IdentifiedByResourceObjectId
 - IdentifiedDate
 - ImpactThresholdValues
 - IsBaseline
 - IsTemplate
 - LastUpdateDate
 - LastUpdateUser
 - Name
 - Note
 - ObjectId
 - ParentObjectId
 - ProbabilityThresholdId
 - ProjectId
 - ProjectName
 - ProjectObjectId
 - Resourceld
 - ResourceName
 - ResourceObjectId
 - ResponseTotalCost
 - RiskCategoryName
 - RiskCategoryObjectId
 - ScheduleThresholdId

- Score
- ScoreColor
- ScoreText
- Status
- Type

RiskCategory

- Include
- Field
 - CreateDate
 - CreateUser
 - LastUpdateDate
 - LastUpdateUser
 - Name
 - ObjectId
 - ParentObjectId
 - SequenceNumber

RiskImpact

- Include
- Field
 - CreateDate
 - CreateUser
 - IsBaseline
 - IsTemplate
 - LastUpdateDate
 - LastUpdateUser
 - ProjectId
 - ProjectName
 - ProjectObjectId
 - Riskld
 - RiskName
 - RiskObjectId
 - RiskThresholdLevelCode
 - RiskThresholdLevelName
 - RiskThresholdLevelObjectId
 - RiskThresholdName
 - RiskThresholdObjectId

RiskMatrixScore

Include

- Field
 - CreateDate
 - CreateUser
 - LastUpdateDate
 - LastUpdateUser
 - ObjectId
 - ProbabilityThresholdLevel
 - RiskMatrixName
 - RiskMatrixObjectId
 - Severity1
 - Severity1Label
 - Severity2
 - Severity2Label
 - Severity3
 - Severity3Label
 - Severity4
 - Severity4Label
 - Severity5
 - Severity5Label
 - Severity6
 - Severity6Label
 - Severity7
 - Severity7Label
 - Severity8
 - Severity8Label
 - Severity9
 - Severity9Label

RiskMatrixThreshold

- Include
- Field
 - CreateDate
 - CreateUser
 - LastUpdateDate
 - LastUpdateUser
 - RiskMatrixName
 - RiskMatrixObjectId
 - RiskThresholdName
 - RiskThresholdObjectId

RiskResponseAction

- Include
- Field
 - ActivityId
 - ActivityName
 - ActivityObjectId
 - ActualCost
 - CreateDate
 - CreateUser
 - FinishDate
 - ld 🖌
 - IsBaseline
 - IsTemplate
 - LastUpdateDate
 - LastUpdateUser
 - Name
 - ObjectId
 - PlannedCost
 - PlannedFinishDate
 - PlannedStartDate
 - ProjectId
 - ProjectName
 - ProjectObjectId
 - RemainingCost
 - Resourceld
 - ResourceName
 - ResourceObjectId
 - Riskld
 - RiskObjectId
 - RiskResponsePlanId
 - RiskResponsePlanName
 - RiskResponsePlanObjectId
 - Score
 - ScoreColor
 - ScoreText
 - StartDate
 - Status

RiskResponseActionImpact

Include

- Field
 - CreateDate
 - CreateUser
 - IsBaseline
 - IsTemplate
 - LastUpdateDate
 - LastUpdateUser
 - ProjectId
 - ProjectName
 - ProjectObjectId
 - Riskld
 - RiskObjectId
 - RiskResponseActionId
 - RiskResponseActionName
 - RiskResponseActionObjectId
 - RiskThresholdLevelCode
 - RiskThresholdLevelName
 - RiskThresholdLevelObjectId
 - RiskThresholdName
 - RiskThresholdObjectId

RiskResponsePlan

- Include
- Field
 - ActualCost
 - CreateDate
 - CreateUser
 - FinishDate
 - ▶ Id
 - IsActive
 - IsBaseline
 - IsTemplate
 - LastUpdateDate
 - LastUpdateUser
 - Name
 - ObjectId
 - PlannedCost
 - PlannedFinishDate
 - PlannedStartDate
 - ProjectId

- ProjectName
- ProjectObjectId
- RemainingCost
- ResponseType
- Riskld
- RiskName
- RiskObjectId
- Score
- ScoreColor
- ScoreText
- StartDate

RiskMatrix

- Include
- Field
 - CreateDate
 - CreateUser
 - Description
 - ImpactThresholdLevel
 - LastUpdateDate
 - LastUpdateUser
 - Name
 - ObjectId
 - ProbabilityThresholdLevel
 - RiskScoringMethod

RiskThresholdLevel

- Include
- Field
 - Code
 - Color
 - CostRange
 - CreateDate
 - CreateUser
 - LastUpdateDate
 - LastUpdateUser
 - Level
 - Name
 - ObjectId
 - ProbabilityRange

- Range
- RiskThresholdName
- RiskThresholdObjectId
- ScheduleRange
- ThresholdType
- ToleranceRange

RiskThreshold

- Include
- Field
 - CreateDate
 - CreateUser
 - LastUpdateDate
 - LastUpdateUser
 - Level
 - Name
 - ObjectId
 - ThresholdType

Role

- Include
- Field
 - CalculateCostFromUnits
 - CreateDate
 - CreateUser
 - Id
 - LastUpdateDate
 - LastUpdateUser
 - Name
 - ObjectId
 - ParentObjectId
 - Responsibilities
 - SequenceNumber

RoleCode

- Include
- Field
 - CodeTypeName
 - CodeTypeObjectId
 - CodeValue
 - CreateDate

- CreateUser
- Description
- LastUpdateDate
- LastUpdateUser
- ObjectId
- ParentObjectId
- SequenceNumber

RoleCodeAssignment

Include

RoleCodeType

- Include
- Field
 - CreateDate
 - CreateUser
 - IsSecureCode
 - LastUpdateDate
 - LastUpdateUser
 - Length
 - Name
 - ObjectId
 - SequenceNumber

RoleRate

- Include
- Field
 - CreateDate
 - CreateUser
 - EffectiveDate
 - LastUpdateDate
 - LastUpdateUser
 - MaxUnitsPerTime
 - ObjectId
 - PricePerUnit
 - PricePerUnit2
 - PricePerUnit3
 - PricePerUnit4
 - PricePerUnit5
 - RoleId
 - RoleName

RoleObjectId

Shift

- Include
- Field
 - CreateDate
 - CreateUser
 - LastUpdateDate
 - LastUpdateUser
 - Name
 - ObjectId

ThresholdParameter

- Include
- Field
 - CreateDate
 - CreateUser
 - LastUpdateDate
 - LastUpdateUser
 - Name
 - ObjectId
 - Type

UDFCode

- Include
- Field
 - CodeTypeObjectId
 - CodeTypeTitle
 - CodeValue
 - CreateDate
 - CreateUser
 - Description
 - LastUpdateDate
 - LastUpdateUser
 - ObjectId
 - SequenceNumber

UDFType

- Include
- Field
 - CreateDate

- CreateUser
- DataType
- Formula
- IsCalculated
- IsConditional
- IsSecureCode
- LastUpdateDate
- LastUpdateUser
- ObjectId
- SubjectArea
- SummaryMethod
- Title

UDFValue

Include

UnitOfMeasure

- Include
- Field
 - Abbreviation
 - CreateDate
 - CreateUser
 - LastUpdateDate
 - LastUpdateUser
 - Name
 - ObjectId
 - SequenceNumber

WBS

- Include
- Field
 - AnticipatedFinishDate
 - AnticipatedStartDate
 - Code
 - ContainsSummaryData
 - CreateDate
 - CreateUser
 - CurrentBudget
 - CurrentVariance
 - DistributedCurrentBudget
 - EarnedValueComputeType

- EarnedValueETCComputeType
- EarnedValueETCUserValue
- EarnedValueUserPercent
- FinishDate
- ForecastFinishDate
- ForecastStartDate
- GUID
- IndependentETCLaborUnits
- IndependentETCTotalCost
- IntegratedType
- IntegratedWBS
- IsBaseline
- IsTemplate
- IsWorkPackage
- LastUpdateDate
- LastUpdateUser
- Name
- OBSName
- OBSObjectId
- ObjectId
- OriginalBudget
- ParentObjectId
- ProjectId
- ProjectObjectId
- ProposedBudget
- RolledUpFinishDate
- RolledUpStartDate
- SequenceNumber
- StartDate
- Status
- StatusReviewerName
- StatusReviewerObjectId
- SummaryAccountingVarianceByCost
- SummaryAccountingVarianceByLaborUnits
- SummaryActivityCount
- SummaryActualDuration
- SummaryActualExpenseCost
- SummaryActualFinishDate
- SummaryActualLaborCost

- SummaryActualLaborUnits
- SummaryActualMaterialCost
- SummaryActualNonLaborCost
- SummaryActualNonLaborUnits
- SummaryActualStartDate
- SummaryActualThisPeriodCost
- SummaryActualThisPeriodLaborCost
- SummaryActualThisPeriodLaborUnits
- SummaryActualThisPeriodMaterialCost
- SummaryActualThisPeriodNonLaborCost
- SummaryActualThisPeriodNonLaborUnits
- SummaryActualTotalCost
- SummaryActualValueByCost
- SummaryActualValueByLaborUnits
- SummaryAtCompletionDuration
- SummaryAtCompletionExpenseCost
- SummaryAtCompletionLaborCost
- SummaryAtCompletionLaborUnits
- SummaryAtCompletionMaterialCost
- SummaryAtCompletionNonLaborCost
- SummaryAtCompletionNonLaborUnits
- SummaryAtCompletionTotalCost
- SummaryAtCompletionTotalCostVariance
- SummaryBaselineCompletedActivityCount
- SummaryBaselineDuration
- SummaryBaselineExpenseCost
- SummaryBaselineFinishDate
- SummaryBaselineInProgressActivityCount
- SummaryBaselineLaborCost
- SummaryBaselineLaborUnits
- SummaryBaselineMaterialCost
- SummaryBaselineNonLaborCost
- SummaryBaselineNonLaborUnits
- SummaryBaselineNotStartedActivityCount
- SummaryBaselineStartDate
- SummaryBaselineTotalCost
- SummaryBudgetAtCompletionByCost
- SummaryBudgetAtCompletionByLaborUnits
- SummaryCompletedActivityCount

- SummaryCostPercentComplete
- SummaryCostPercentOfPlanned
- SummaryCostPerformanceIndexByCost
- SummaryCostPerformanceIndexByLaborUnits
- SummaryCostVarianceByCost
- SummaryCostVarianceByLaborUnits
- SummaryCostVarianceIndex
- SummaryCostVarianceIndexByCost
- SummaryCostVarianceIndexByLaborUnits
- SummaryDurationPercentComplete
- SummaryDurationPercentOfPlanned
- SummaryDurationVariance
- SummaryEarnedValueByCost
- SummaryEarnedValueByLaborUnits
- SummaryEstimateAtCompletionByCost
- SummaryEstimateAtCompletionByLaborUnits
- SummaryEstimateAtCompletionHighPercentByLaborUnits
- SummaryEstimateAtCompletionLowPercentByLaborUnits
- SummaryEstimateToCompleteByCost
- SummaryEstimateToCompleteByLaborUnits
- SummaryExpenseCostPercentComplete
- SummaryExpenseCostVariance
- SummaryFinishDateVariance
- SummaryInProgressActivityCount
- SummaryLaborCostPercentComplete
- SummaryLaborCostVariance
- SummaryLaborUnitsPercentComplete
- SummaryLaborUnitsVariance
- SummaryMaterialCostPercentComplete
- SummaryMaterialCostVariance
- SummaryNonLaborCostPercentComplete
- SummaryNonLaborCostVariance
- SummaryNonLaborUnitsPercentComplete
- SummaryNonLaborUnitsVariance
- SummaryNotStartedActivityCount
- SummaryPerformancePercentCompleteByCost
- SummaryPerformancePercentCompleteByLaborUnits
- SummaryPlannedCost
- SummaryPlannedDuration

- SummaryPlannedExpenseCost
- SummaryPlannedFinishDate
- SummaryPlannedLaborCost
- SummaryPlannedLaborUnits
- SummaryPlannedMaterialCost
- SummaryPlannedNonLaborCost
- SummaryPlannedNonLaborUnits
- SummaryPlannedStartDate
- SummaryPlannedValueByCost
- SummaryPlannedValueByLaborUnits
- SummaryProgressFinishDate
- SummaryRemainingDuration
- SummaryRemainingExpenseCost
- SummaryRemainingFinishDate
- SummaryRemainingLaborCost
- SummaryRemainingLaborUnits
- SummaryRemainingMaterialCost
- SummaryRemainingNonLaborCost
- SummaryRemainingNonLaborUnits
- SummaryRemainingStartDate
- SummaryRemainingTotalCost
- SummarySchedulePercentComplete
- SummarySchedulePercentCompleteByLaborUnits
- SummarySchedulePerformanceIndexByCost
- SummarySchedulePerformanceIndexByLaborUnits
- SummaryScheduleVarianceByCost
- SummaryScheduleVarianceByLaborUnits
- SummaryScheduleVarianceIndex
- SummaryScheduleVarianceIndexByCost
- SummaryScheduleVarianceIndexByLaborUnits
- SummaryStartDateVariance
- SummaryToCompletePerformanceIndexByCost
- SummaryTotalCostVariance
- SummaryTotalFloat
- SummaryUnitsPercentComplete
- SummaryVarianceAtCompletionByLaborUnits
- TotalBenefitPlan
- TotalBenefitPlanTally
- TotalSpendingPlan

- TotalSpendingPlanTally
- UnallocatedBudget
- UndistributedCurrentVariance
- WBSCategoryObjectId
- WBSMilestonePercentComplete

WBSCategory

- Include
- Field
 - CreateDate
 - CreateUser
 - LastUpdateDate
 - LastUpdateUser
 - Name
 - ObjectId
 - SequenceNumber

WBSMilestone

- Include
- Field
 - CreateDate
 - CreateUser
 - IsBaseline
 - IsCompleted
 - IsTemplate
 - LastUpdateDate
 - LastUpdateUser
 - Name
 - ObjectId
 - ProjectId
 - ProjectObjectId
 - SequenceNumber
 - WBSCode
 - WBSName
 - WBSObjectId
 - Weight

Note: Although you can specify the **LocationName** and **LocationObjectId** as fields to be exported, these fields cannot be imported by design.

Global Services

Calendar Service

Operations:

CreateCalendars Operation (on page 439) ReadCalendars Operation (on page 442) UpdateCalendars Operation (on page 442) DeleteCalendars Operation (on page 443) GetFieldLengthCalendar Operation (on page 443) GetStandardTotalWorkHours Operation (on page 443) GetTotalWorkHours Operation (on page 444) GetHolidayExceptionDates Operation (on page 444) SetStandardDetailedWorkHours Operation (on page 439) GetStandardDetailedWorkHours Operation (on page 440) SetDetailedWorkHours Operation (on page 441)

WSDL: Calendar.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/Calendar/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/CalendarService?wsdl https://<hostname>:<port number>/p6ws/services/CalendarService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.calendar.CalendarService

Description:

Calendars defined the available work hours in each calendar day. Three types exist: global, resource, and project. Either resource or global calendars can be assigned to resources, and either global or project calendars can be assigned to activities.

You can specify national holidays, your organization's holidays, project-specific work/nonworkdays, and resource vacation days. Calendar assignments are used for activity scheduling, tracking, and resource leveling. Whether an activity uses its assigned calendar or the calendar of an assigned resource depends on the activity type you specify.

You can link resource and project calendars to global calendars. Then, if you make changes to a global calendar, your changes apply to all resource and project calendars that are linked to the modified global calendar.

CreateCalendars Operation

Description: Creates multiple Calendar objects in the database. You can create up to 1000 Calendar objects with a single call.

Service: Calendar Service (on page 438)

Style: Document/literal wrapped

Input:

Message: CreateCalendars

Elements: Calendar elements that contain Calendar Fields (on page 444) fields

Required fields:

- Type
- Name

Output:

Message: CreateCalendarsResponse Output: Zero to many ObjectId elements

SetStandardDetailedWorkHours Operation

Description: Sets the standard detailed work hours for the given date. Detailed work hours provide information on specific worktime during the day, in half hour increments.

Service: Calendar Service (on page 438)

Input:

Message: SetStandardDetailedWorkHours

Elements:

Name	Туре	Description	Required
CalendarObjectId	int	The unique identifier of the calender object.	Yes
IDayOfWeek	int	The day of the week (from 1 to 7).	Yes
DetailedWorkHours	string	Standard detailed time hours for the day of the week.	Yes

Output:

Message: SetStandardDetailedWorkHoursResponse

Elements:

Name	Туре	Description
Success	boolean	Indicates whether the option succeeded or failed.

GetStandardDetailedWorkHours Operation

Description: Gets the standard detailed work hours for the given day of week. Detailed work hours provide information on specific worktime during the day, in half hour increments.

Service: Calendar Service (on page 438)

Input:

Message: GetStandardDetailedWorkHours

Elements:

Name	Туре	Description	Required
CalendarObjectl d	int	The unique identifier for the calendar object.	Yes
IDayOfWeek	int	The day of the week (from 1 to 7).	Yes

Output:

Message:GetStandardDetailedWorkHoursResponse Elements:

Name	Туре	Description
DetailedWorkHours	string	The standard detailed work hours for the queried day of the week.

SetDetailedWorkHours Operation

Description: Sets the detailed work hours for the specified date. Detailed work hours provide information on specific worktime during the day, in half hour increments.

Service: Calendar Service (on page 438)

Input:

Message: SetDetailedWorkHours Elements:

Name	Туре	Description	Required
CalendarObjectl d	int	The unique identifier for the calendar object.	Yes
Date	dateTime	Date on which detailed work hours will be set.	Yes
DetailedWorkHo urs	string	The detailed work hours to set for the specified date.	Yes

Output:

Message: SetDetailedWorkHoursResponse Elements:

Name	Туре	Description
Success	boolean	Indicates whether the operation succeeded or failed.

GetDetailedWorkHours Operation

Description: Gets the detailed work hours for the specified date. Detailed work hours provide information on specific worktime during the day, in half hour increments.

Service: Relationship Service (on page 201)

Input:

Message: GetDetailedWorkHours

Elements:

Name	Туре	Description	Required
CalendarObjectI d	int	The unique identifier for the calendar object.	Yes
Date	dateTime	Date with set detailed work hours.	Yes

Output:

Message: GetDetailedWorkHoursResponse Elements:

Name	Туре	Description
DetailedWorkHours	string	The detailed work hours retrieved from the queried date.

ReadCalendars Operation

Description: Reads Calendar objects from the database.

Service: Calendar Service (on page 438)

Style: Document/literal wrapped

Input:

Message: ReadCalendars

Elements: One to many field names from the Calendar Fields (on page 444) field list

You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadCalendarsResponse

Output: Zero to many Calendar elements that contain Calendar fields.

UpdateCalendars Operation

Description: Updates multiple Calendar objects in the database. You can update up to 1000 Calendar objects with a single call.

Service: Calendar Service (on page 438)

Style: Document/literal wrapped

Input:

Message: UpdateCalendars

Elements: Calendar elements that contain *Calendar Fields* (on page 444) fields. Required fields: The ObjectId must be specified.

Output:

Message: UpdateCalendarsResponse Output: boolean

DeleteCalendars Operation

Description: Deletes multiple Calendar objects in the database. You can delete up to 1000 Calendar objects with a single call.

Service: Calendar Service (on page 438)

Style: Document/literal wrapped

Input:

Message: DeleteCalendars

Elements: One to many ObjectId elements.

You can also optionally specify one to many DeleteWithReplacement elements that contain ObjectId and ReplacementObjectId elements.

Output:

Message: DeleteCalendarsResponse Output: boolean

GetFieldLengthCalendar Operation

Description: Returns length of variable character fields for a BO.

Service: Calendar Service (on page 438)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthCalendar Elements: FieldLength

Output:

Message: GetFieldLengthCalendarResponse Elements: One to many FieldLengthCalendars.

GetStandardTotalWorkHours Operation

Description: Gets the standard total work hours for a given day of the week.

Service: Calendar Service (on page 438)

Style: Document/literal wrapped

Input:

Message:GetStandardTotalWorkHours Elements:

- CalendarObjectId
- IDayOfWeek

Output:

Message:GetStandardTotalWorkHoursResponse Element: StandardTotalWorkHours

GetTotalWorkHours Operation

Description: Gets the total work hours for a given date.

Service: Calendar Service (on page 438)

Style: Document/literal wrapped

Input:

Message: GetTotalWorkHours Elements:

- CalendarObjectId
- Date

Output:

Message: GetTotalWorkHoursResponse Output: TotalWorkHours

GetHolidayExceptionDates Operation

Description: Gets a list of all dates on a calendar that has either a holiday or an exception.

Service: Calendar Service (on page 438)

Style: Document/literal wrapped

Input:

Message: GetHolidayExceptionDates Elements:

CalendarObjectId

Output:

Message: GetHolidayExceptionDatesResponse Elements: HolidaExceptionDates

Calendar Fields

Field	Туре	Read Only	Filterable Orderable	Description
BaseCalend arObjectId	int			The unique ID of the global calendar to which this

				calendar is linked. Any changes to the global calendar are automatically propagated to this calendar.
CreateDate	dateTime	х	x	The date this calendar was created.
CreateUser	string restricted to maxLength(25 5)	x	x	The name of the user that created this calendar.
HolidayOrE xceptions	See the HolidayOrExce ption table below			
HoursPerDa y	double restricted to minInclusive(1. 0) maxInclusive(2 4.0)		x	The number of work hours per day. This conversion factor is used for displaying time units and durations in the user's selected display formats.
HoursPerM onth	double restricted to minInclusive(1. 0) maxInclusive(7 44.0)		x	The number of work hours per month. This conversion factor is used for displaying time units and durations in the user's selected display formats.
HoursPerW eek	double restricted to minInclusive(1. 0) maxInclusive(1		x	The number of work hours per week. This conversion factor is used for displaying time

	68.0)			units and durations in the user's selected display formats.
HoursPerYe ar	double restricted to minInclusive(1. 0) maxInclusive(8 784.0)		x	The number of work hours per year. This conversion factor is used for displaying time units and durations in the user's selected display formats.
IsBaseline	boolean	x	x	The boolean value indicating if this business object is related to a Project or Baseline
IsDefault	boolean		x	The flag that identifies the default global calendar (applies to global calendars only).
IsPersonal	boolean		x	The flag indicating if this calendar is a personal calendar (applies to resource calendars only).
IsTemplate	boolean	x	x	The boolean value indicating if this business object is related to a template Project.
LastUpdate Date	dateTime	x	x	The date this calendar was last updated.

LastUpdate User	string restricted to maxLength(25 5)	x	x	The name of the user that last updated this calendar.
Name	string restricted to maxLength(25 5)		x	The name of the calendar.
ObjectId	int		x	The unique ID generated by the system.
ProjectId	string restricted to maxLength(40)		x	The ID for the project for which this change request is associated.
ProjectObje ctId	int		x	The unique ID of the associated project.
StandardW orkWeek	See the StandardWork Hours table below			
Туре	string restricted to 'Global' 'Project' 'Resource'		X	The calendar type - either 'Global', 'Resource', or 'Project'. 'Global' calendars can be assigned to projects and resources. 'Resource' calendars can be assigned only to resources. 'Project' calendars are specific to projects.

HolidayOrException Table

Element	Туре
Date	dateTime
WorkTime	
Finish	time
Start	time

StandardWorkHours table

Element	Туре
Date	DayOfWeek string restricted to 'Sunday' 'Monday' 'Tuesday' Wednesday' 'Thursday' 'Friday' 'Saturday'
WorkTime	
Finish	time
Start	time

CostAccount Service

Operations:

CreateCostAccounts Operation (on page 449) ReadCostAccounts Operation (on page 449) UpdateCostAccounts Operation (on page 450) DeleteCostAccounts Operation (on page 450) GetFieldLengthCostAccount Operation (on page 451) ReadCostAccountPath Operation (on page 451)

WSDL: CostAccount.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/CostAccount/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/CostAccountService?wsdl https://<hostname>:<port number>/p6ws/services/CostAccountService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.costaccount.CostAccountService

Description:

Cost accounts contain the organization's cost account IDs. Available across all projects, they support tracking of costs and earned value based on the organization's cost account IDs. Cost accounts are hierarchical objects.

You can specify a project's default cost account. This cost account is used for resource assignments to activities and project expenses in the open project.

CreateCostAccounts Operation

Description: Creates multiple CostAccount objects in the database. You can create up to 1000 CostAccount objects with a single call.

Service: CostAccount Service (on page 448)

Style: Document/literal wrapped

Input:

Message: CreateCostAccounts

Elements: CostAccount elements that contain CostAccount Fields (on page 451) fields

Required fields:

- Id
- Name

Output:

Message: CreateCostAccountsResponse Output: Zero to many ObjectId elements

ReadCostAccounts Operation

Description: Reads CostAccount objects from the database.

Service: CostAccount Service (on page 448)

Style: Document/literal wrapped

Input:

Message: ReadCostAccounts

Elements: One to many field names from the CostAccount Fields (on page 451) field list.

You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadCostAccountsResponse

Output: Zero to many CostAccount elements that contain **CostAccount Fields** (on page 451) fields.

UpdateCostAccounts Operation

Description: Updates multiple CostAccount objects in the database. You can update up to 1000 CostAccount objects with a single call.

Service: CostAccount Service (on page 448)

Style: Document/literal wrapped

Input:

Message: UpdateCostAccounts

Elements: CostAccount elements that contain *CostAccount Fields* (on page 451) fields. Required fields: The ObjectId must be specified.

Output:

Message: UpdateCostAccountsResponse Output: boolean

DeleteCostAccounts Operation

Description: Deletes multiple CostAccount objects in the database. You can delete up to 1000 CostAccount objects with a single call.

Service: CostAccount Service (on page 448)

Style: Document/literal wrapped

Input:

Message: DeleteCostAccounts

Elements: One to many ObjectId DeleteWithReplacements

Output:

Message: DeleteCostAccountsResponse Output: boolean

GetFieldLengthCostAccount Operation

Description: Returns length of variable character fields for a BO.

Service: CostAccount Service (on page 448)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthCostAccount Elements: FieldLength

Output:

Message: GetFieldLengthCostAccountResponse Elements: One to many FieldLengthCostAccounts.

ReadCostAccountPath Operation

Description: Reads CostAccount objects from the database.

Service: CostAccount Service (on page 448)

Style: Document/literal wrapped

Input:

Message: ReadCostAccountPath Elements:

- One to many ObjectId elements
- One to many field names from the **CostAccount Fields** (on page 451) field list.

Output:

Message: ReadCostAccountPathResponse

Output: Zero to many CostAccount elements that contain CostAccount fields.

CostAccount Fields

Field	Туре	Read Only	Filterable Orderable	Description
CreateDate	dateTime	x	x	The date this account was created.
CreateUser	string restricted to	x	x	The name of the user that created

	maxLength(2 55)			this account.
Description	string			The description of the cost account.
Id	string restricted to maxLength(4 0)		X	The short ID assigned to each cost account for identification. Each cost account is uniquely identified by concatenating its own ID together with its parents' IDs.
LastUpdate Date	dateTime	x	x	The date this account was last updated.
LastUpdate User	string restricted to maxLength(2 55)	x	x	The name of the user that last updated this account.
Name	string restricted to maxLength(1 00)		x	The name of the cost account.
ObjectId	int		x	The unique ID generated by the system.
ParentObje ctId	int		x	The unique ID of the parent cost account of this cost account in the hierarchy.
SequenceN umber	int		x	The sequence number for sorting.

Currency Service

Operations:

CreateCurrencies Operation (on page 453) ReadCurrencies Operation (on page 454) UpdateCurrencies Operation (on page 454) DeleteCurrencies Operation (on page 454) GetFieldLengthCurrency Operation (on page 455)

WSDL: Currency.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/Currency/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/CurrencyService?wsdl https://<hostname>:<port number>/p6ws/services/CurrencyService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.currency.CurrencyService

Description:

Currencies allow you to specify the types of currencies you want to use for costs. A currency type is set for every database. The user is able to specify the currency, its symbol, decimal symbol, number of decimal places, the positive and negative currency format and the digit grouping symbol.

CreateCurrencies Operation

Description: Creates multiple Currency objects in the database. You can create up to 1000 Currency objects with a single call.

Service: Currency Service (on page 453)

Style: Document/literal wrapped

Input:

Message: CreateCurrencies

Elements: Currency elements that contain Currency Fields (on page 455) fields

Required fields:

- Name
- Id
- Symbol

Output:

Message: CreateCurrenciesResponse Output: Zero to many ObjectId elements

ReadCurrencies Operation

Description: Reads Currency objects from the database.

Service: Currency Service (on page 453)

Style: Document/literal wrapped

Input:

Message: ReadCurrencies

Elements: One to many field names from the *Currency Fields* (on page 455) field list. You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadCurrenciesResponse

Output: Zero to many Currency elements that contain *Currency Fields* (on page 455) fields.

UpdateCurrencies Operation

Description: Updates multiple Currency objects in the database. You can update up to 1000 Currency objects with a single call.

Service: Currency Service (on page 453)

Style: Document/literal wrapped

Input:

Message: UpdateCurrencies

Elements: Currency elements that contain *Currency Fields* (on page 455) fields. Required fields: The ObjectId must be specified.

Output:

Message: UpdateCurrenciesResponse Output: boolean

DeleteCurrencies Operation

Description: Deletes multiple Currency objects in the database. You can delete up to 1000 Currency objects with a single call.

Service: Currency Service (on page 453)

Style: Document/literal wrapped

Input:

Message: DeleteCurrencies Elements: One to many ObjectId elements

Output:

Message: DeleteCurrenciesResponse Output: boolean

GetFieldLengthCurrency Operation

Description: Returns length of variable character fields for a BO.

Service: Currency Service (on page 453)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthCurrency Elements: FieldLength

Output:

Message: GetFieldLengthCurrencyResponse Elements: One to many FieldLengthCurrencies.

Currency Fields

93802 Field	Туре	Read Only	Filterable Orderable	Description
CreateDate	dateTime	x	х	The date this currency was created.

CreateUser	string restricted to maxLength(255)	x	x	The name of the user that created this currency.
DecimalPla ces	int restricted to minInclusive(0) maxInclusive(2)		X	The number of decimal places displayed.

DecimalSy mbol	string restricted to 'Period' 'Comma'	x	The decimal symbol displayed.
DigitGroupi ngSymbol	string restricted to 'Period' 'Comma'	X	The symbol used to group the numbers.

ExchangeR ate	double restricted to minInclusive(1.0 E-6) maxInclusive(9.9 99999999999999 E8)	x	The exchange rate against the base currency.
Id	string restricted to maxLength(6)	X	The unique currency abbreviation for each currency.

IsBaseCurr ency	boolean	X		The currency used to store cost in the Project Management database. The exchange rate for the base currency is always 1.0. The base currency ID, name, and symbol default to U.S. dollars and can be edited but never deleted.
LastUpdate Date	dateTime	x	X	The date this currency was last updated.

LastUpdate User	string restricted to maxLength(255)	x	x	The name of the user that last updated this currency.
Name	string restricted to maxLength(80)		X	The name of the currency.

NegativeSy mbol	string restricted to '(#1.1)' '-#1.1' '#-1.1' '#1.1-' '(1.1#)' '-1.1#' '1.1#-' '-1.1 #' '-# 1.1' '# 1.1-' '# 1.1-' '# -1.1' '1.1-#' '(# 1.1)' '(1.1 #)'	X	The symbol used to display a negative currency.
ObjectId	int	X	The unique ID generated by the system.

PositiveSy mbol	string restricted to '#1.1' '1.1#' '# 1.1' '1.1 #'	x	The symbol used to display a positive currency.
Symbol	string restricted to maxLength(3)	X	The currency symbol displayed.

Document Service

Operations:

CreateDocuments Operation (on page 463) ReadDocuments Operation (on page 464) UpdateDocuments Operation (on page 464) DeleteDocuments Operation (on page 465) GetFieldLengthDocument Operation (on page 465) ReadDocumentPath Operation (on page 465)

WSDL: Document.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/Document/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/DocumentService?wsdl https://<hostname>:<port number>/p6ws/services/DocumentService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.document.DocumentService

Description:

Documents are guidelines, procedures, standards, plans, design templates, worksheets, or other information related to a project. A document, or work product, can provide standards and guidelines for performing project work, or it can be formally identified as a project standard. Documents can be identified as project deliverables that will be given to the end user or customer at the end of the project. Documents can be assigned to activities and to work breakdown structure (WBS) elements. You can maintain general information about documents, such as revision date, location, and author. Documents are hierarchical objects.

The Document service supports user defined fields (UDFs). Use the UDFValue service to assign UDFs.

Note: This service provides create, read, update, and delete operations that apply to WP and Docs. You cannot assign external documents to an activity or WBS using this service.

CreateDocuments Operation

Description: Creates multiple Document objects in the database. You can create up to 1000 Document objects with a single call.

Service: Document Service (on page 463)

Style: Document/literal wrapped

Input:

Message: CreateDocuments

Elements: Document elements that contain *Document Fields* (on page 466) fields.

Required fields: The following fields are required when creating the Document object:

- Title
- ProjectObjectId

Output:

Message: CreateDocumentsResponse Output: Zero to many ObjectId elements

ReadDocuments Operation

Description: Reads Document objects from the database.

Service: Document Service (on page 463)

Style: Document/literal wrapped

Input:

Message: ReadDocuments

Elements: One to many field names from the **Document Fields** (on page 466) field list You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadDocumentsResponse Output: Zero to many Document elements that contain Document fields.

UpdateDocuments Operation

Description: Updates multiple Document objects in the database. You can update up to 1000 Document objects with a single call.

Service: Document Service (on page 463)

Style: Document/literal wrapped

Input:

Message: UpdateDocuments

Elements: Document elements that contain *Document Fields* (on page 466) fields.

Required fields: The ObjectId must be specified.

Output:

Message: UpdateDocumentsResponse

Output: boolean

DeleteDocuments Operation

Description: Deletes multiple Document objects in the database. You can delete up to 1000 Document objects with a single call.

Service: Document Service (on page 463)

Style: Document/literal wrapped

Input:

Message: DeleteDocuments Elements: One to many ObjectId elements

Output:

Message: DeleteDocumentsResponse Output: boolean

GetFieldLengthDocument Operation

Description: Returns length of variable character fields for a BO.

Service: Document Service (on page 463)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthDocument Elements: FieldLength

Output:

Message: GetFieldLengthDocumentResponse Elements: One to many FieldLengthDocuments.

ReadDocumentPath Operation

Description: Reads Document objects from the database.

Service: Document Service (on page 463)

Style: Document/literal wrapped

Input:

Message: ReadDocumentPath Elements:

- One to many ObjectId elements
- One to many field names from the *Document Fields* (on page 466) field list.

Output:

Message: ReadDocumentPathResponse

Output: Zero to many Document elements that contain Document fields.

Document Fields

Field	Туре	Rea d Onl y	Filte rabl e Orde rabl e	Description
ActivityObjectI D	int		х	The activity to which the document is assigned.
Author	string restricted to maxLength(255)		x	The person who created the work product or document.
ContentRepos itoryDocument InternalId	string restricted to maxLength(4000)		x	The internal ID of the content repository document.
CreateDate	dateTime	х	х	The date this document was created.
CreateUser	string restricted to maxLength(255)	x	x	The name of the user that created this document.
Deliverable	boolean		x	The flag that indicates that the work product or document is a project deliverable.
Description	string			The narrative description of the work product or document.
DocumentCat egoryName	string restricted to maxLength(100)	x	x	The name of the associated document category.
DocumentCat egoryObjectId	int		x	The unique ID of the associated document category.
DocumentStat	string	Х	Х	The name of the associated

usCodeName	restricted to maxLength(36)			document status code.
DocumentStat usCodeObject Id	int		x	The unique ID of the associated document status code.
DocumentStat usName	string restricted to " 'Not Started' 'Under Review' 'In Progress' 'Completed' 'On Hold'			The description of the document status type.
DocumentTyp e	string restricted to 'Non-Collaboration Document' 'Collaboration Document' 'Repository Document'		x	The type of document: 'Non-Collaboration' or 'Collaboration'.
GUID	string restricted to pattern '\{[0-9a-fA-F]{8}-[0-9a-fA-F]{ 4}-[0-9a-fA-F]{4}-[0-9a-fA-F] {4}-[0-9a-fA-F]{12}\} '		x	The globally unique ID generated by the system.
IsBaseline	boolean	х	x	The boolean value indicating if this business object is related to a Project or Baseline
IsTemplate	boolean	х	x	The boolean value indicating if this business object is related to a template Project.
LastUpdateDa te	dateTime	x	x	The date this document was last updated.
LastUpdateUs er	string restricted to maxLength(255)	x	x	The name of the user that last updated this document.

ObjectId	int		x	The unique ID generated by the system.
ParentObjectI d	int		x	The unique ID of the parent document of this document in the hierarchy.
PrivateLocatio n	string restricted to maxLength(255)		x	The work product or document's private file location.
ProjectId	string restricted to maxLength(40)	x	x	The short code that uniquely identifies the project.
ProjectObjectI d	int		x	The unique ID of the associated project.
PublicLocation	string restricted to maxLength(255)		x	The work product or document's publicly-accessible file location.
ReferenceNu mber	string restricted to maxLength(32)		x	The work product or document's reference or catalog number.
Resourceld	string restricted to maxLength(20)	x	x	The short code that uniquely identifies the associated resource.
ResourceNam e	string restricted to maxLength(100)	x	x	The name of the associated resource.
ResourceObje ctId	int		x	The unique ID of the associated resource.
RevisionDate	dateTime		x	The date of the work product or document's last update.
SequenceNu mber	int		x	The sequence number for sorting.
Title	string restricted to		х	The title or name of a project work product or document.

	maxLength(120)		
Version	string restricted to maxLength(20)	x	The work product or document's version number.

FinancialPeriod Service

Operations:

CreateFinancialPeriods Operation (on page 470) ReadFinancialPeriods Operation (on page 470) UpdateFinancialPeriods Operation (on page 471) DeleteFinancialPeriods Operation (on page 471) GetFieldLengthFinancialPeriod Operation (on page 471)

WSDL: FinancialPeriod.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/FinancialPeriod/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/FinancialPeriodService?wsdl https://<hostname>:<port number>/p6ws/services/FinancialPeriodService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.financialperiod.FinancialPeriodService

Description:

Use customized financial periods to provide accurate display and reporting of actual units and costs. Rather than spreading costs evenly throughout the length of a project, users can view how actual costs were incurred by defining customized financial periods with a StartDate and EndDate. The minimum financial period duration is one day. Financial periods cannot overlap each other and do not have to be contiguous.

Past period actuals are stored at the activity and resource/role assignment level using the ActivityPeriodActual and ResourceAssignmentPeriodActual services.

You can not delete a financial period if there are existing activity or resource assignment period actual values stored. To delete a financial period with stored actual values, first use the ReadResourceAssignmentPeriodActuals operation of the ResourceAssignmentPeriodActual Service to load all resource assignment period actuals for that financial period, then delete each instance. Repeat the process for activity period actuals using the ReadActivityPeriodActuals operation of the ActivityPeriodActual Service.

CreateFinancialPeriods Operation

Description: Creates multiple FinancialPeriod objects in the database. You can create up to 1000 FinancialPeriod objects with a single call.

Service: FinancialPeriod Service (on page 469)

Style: Document/literal wrapped

Input:

Message: CreateFinancialPeriods

Elements: FinancialPeriod elements that contain *FinancialPeriod Fields* (on page 472) fields

Required fields: The following fields are required when creating the FinancialPeriod object:

- StartDate
- EndDate
- Name

Output:

Message: CreateFinancialPeriodsResponse Output: Zero to many ObjectId elements

ReadFinancialPeriods Operation

Description: Reads FinancialPeriod objects from the database.

Service: FinancialPeriod Service (on page 469)

Style: Document/literal wrapped

Input:

Message: ReadFinancialPeriods

Elements: One to many field names from the *FinancialPeriod Fields* (on page 472) field list.

You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadFinancialPeriodsResponse

Output: Zero to many FinancialPeriod elements that contain *FinancialPeriod Fields* (on page 472) fields.

UpdateFinancialPeriods Operation

Description: Updates multiple FinancialPeriod objects in the database. You can update up to 1000 FinancialPeriod objects with a single call.

Service: FinancialPeriod Service (on page 469)

Style: Document/literal wrapped

Input:

Message: UpdateFinancialPeriods

Elements: FinancialPeriod elements that contain *FinancialPeriod Fields* (on page 472) fields.

Required fields: The ObjectId must be specified.

Output:

Message: UpdateFinancialPeriodsResponse Output: boolean

DeleteFinancialPeriods Operation

Description: Deletes multiple FinancialPeriod objects in the database. You can delete up to 1000 FinancialPeriod objects with a single call.

Service: FinancialPeriod Service (on page 469)

Style: Document/literal wrapped

Input:

Message: DeleteFinancialPeriods

Elements: One to many ObjectId elements

Output:

Message: DeleteFinancialPeriodsResponse Output: boolean

GetFieldLengthFinancialPeriod Operation

Description: Returns length of variable character fields for a BO.

Service: FinancialPeriod Service (on page 469)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthFinancialPeriod Elements: FieldLength

Output:

Message: GetFieldLengthFinancialPeriodResponse Elements: One to many FieldLengthFinanicalPeriods.

FinancialPeriod Fields

Field	Туре	Read Only	Filterable Orderable	Description
CreateDate	dateTime	x	x	The date this financial period was created.
CreateUser	string restricted to maxLength(2 55)	x	x	The name of the user that created this financial period.
EndDate	dateTime		x	The end date of the period.
FinancialPe riodTmpIId	int		x	The unique identifier of the financial period calendar to which the period belongs.
LastUpdate Date	dateTime	x	x	The date this financial period was last updated.
LastUpdate User	string restricted to maxLength(2 55)	x	x	The name of the user that last updated this financial period.
Name	string restricted to maxLength(6 0)		x	The name of the financial period.
ObjectId	int		x	The unique ID generated by the system.
StartDate	dateTime		x	The start date of the period

FinancialPeriodTemplate Service

Operations:

CreateFinancialPeriodTemplates Operation (on page 473) ReadFinancialPeriodTemplates Operation (on page 474) UpdateFinancialPeriodTemplates Operation (on page 474) DeleteFinancialPeriodTemplates Operation (on page 475) GetFieldLengthFinancialPeriodTemplate Operation (on page 475)

WSDL: FinancialPeriod.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/FinancialPeriodTemplate/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/FinancialPeriodTemplateService?wsdl https://<hostname>:<port number>/p6ws/services/FinancialPeriodTemplateService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.financialperiod.FinancialPeriodTemplateService

Description:

Use customized financial period calendars to measure and compare financial data when projects have different financial periods. You can create multiple financial period calendars using different periods and different period lengths.

Past period actuals are stored at the activity and resource/role assignment level using the ActivityPeriodActual and ResourceAssignmentPeriodActual services.

You can not delete a financial period calendar if there are existing activity or resource assignment period actual values stored for a project using the calendar. To delete a financial period calendar with stored actual values, first use the ReadResourceAssignmentPeriodActuals operation of the ResourceAssignmentPeriodActual Service to load all resource assignment period actuals for that financial period, then delete each instance. Repeat the process for activity period actuals using the ReadActivityPeriodActuals operation of the ActivityPeriodActual Service. Then delete the relevant financial period calendar using the DeleteFinancialPeriodTemplate operation of the FinancialPeriodTemplate service.

CreateFinancialPeriodTemplates Operation

Description: Creates multiple FinancialPeriodTemplate objects in the database. You can create up to 20 FinancialPeriod objects with a single call.

Service: FinancialPeriodTemplate Service (on page 473)

Style: Document/literal wrapped

Input:

Message: CreateFinancialPeriodTemplates

Elements: FinancialPeriodTemplate elements that contain *FinancialPeriodTemplate Fields* (on page 475) fields

Required fields: The following fields are required when creating the FinancialPeriodTemplate object:

FinancialPeriodTemplateName

Output:

Message: CreateFinancialPeriodTemplatesResponse Output: Zero to many ObjectId elements

ReadFinancialPeriodTemplates Operation

Description: Reads FinancialPeriodTemplate objects from the database.

Service: FinancialPeriodTemplate Service (on page 473)

Style: Document/literal wrapped

Input:

Message: ReadFinancialPeriodTemplates

Elements: One to many field names from the *FinancialPeriodTemplate Fields* (on page 475) field list.

You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadFinancialPeriodTemplatesResponse

Output: Zero to many FinancialPeriodTemplate elements that contain *FinancialPeriodTemplate Fields* (on page 475) fields.

UpdateFinancialPeriodTemplates Operation

Description: Updates multiple FinancialPeriodTemplate objects in the database. You can update up to 20 FinancialPeriodTempate objects with a single call.

Service: FinancialPeriodTemplate Service (on page 473)

Style: Document/literal wrapped

Input:

Message: UpdateFinancialPeriodTemplates

Elements: FinancialPeriodTemplate elements that contain *FinancialPeriodTemplate Fields* (on page 475) fields.

Required fields: The ObjectId must be specified.

Output:

Message: UpdateFinancialPeriodTemplatesResponse Output: boolean

DeleteFinancialPeriodTemplates Operation

Description: Deletes multiple FinancialPeriodTemplate objects in the database. You can delete up to 20 FinancialPeriodTemplate objects with a single call.

Service: FinancialPeriodTemplate Service (on page 473)

Style: Document/literal wrapped

Input:

Message: DeleteFinancialPeriodTemplates Elements: One to many ObjectId elements

Output:

Message: DeleteFinancialPeriodTemplatesResponse Output: boolean

GetFieldLengthFinancialPeriodTemplate Operation

Description: Returns length of variable character fields for a BO.

Service: FinancialPeriodTemplate Service (on page 473)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthFinancialPeriodTemplates Elements: FieldLength

Output:

Message: GetFieldLengthFinancialPeriodTemplateResponse Elements: One to many FieldLengthFinanicalPeriodTemplates.

FinancialPeriodTemplate Fields

Field	Туре	Read Only	Filterable Orderable	Description
CreateDate	dateTime	x	x	The date this financial period template was created.
CreateUser	string	X	X	The name of the

	restricted to maxLength(2 55)			user that created this financial period template.
DefaultFlag	boolean			The flag that marks this financial period calendar as the default calendar to use for new projects and imported projects without a financial period calendar.
FinancialPe riodTemplat eName	string restricted to maxLength(2 55)		x	The name of the financial period calendar.
IsShortFina ncialPeriod	boolean	x		The flag that shows the financial period is shorter than seven days.
LastUpdate Date	dateTime	x	x	The date this financial period calendar was last updated.
LastUpdate User	string restricted to maxLength(2 55)	x	x	The name of the user that last updated this financial period calendar.
ObjectId	int	x		The unique ID generated by the system.
UsedByCou nt	dateTime	x		The number of projects assigned this financial period calendar.

FundingSource Service

Operations:

CreateFundingSources Operation (on page 477)

ReadFundingSources Operation (on page 477) UpdateFundingSources Operation (on page 478) DeleteFundingSources Operation (on page 478) GetFieldLengthFundingSource Operation (on page 479) ReadFundingSourcePath Operation (on page 479)

WSDL: FundingSource.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/FundingSource/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/FundingSourceService?wsdl https://<hostname>:<port number>/p6ws/services/FundingSourceService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.fundingsource.FundingSourceService

Description:

Funding sources are hierarchical objects used to specify the names and descriptions of nonprofit, government-allocated, or other funding sources. You can assign funding sources to budgets as you develop projects.

CreateFundingSources Operation

Description: Creates multiple FundingSource objects in the database. You can create up to 1000 FundingSource objects with a single call.

Service: FundingSource Service (on page 476)

Style: Document/literal wrapped

Input:

Message: CreateFundingSources

Elements: FundingSource elements that contain FundingSource Fields (on page 479) fields

Required fields: You must supply the Name field.

Output:

Message: CreateFundingSourcesResponse Output: Zero to many ObjectId elements

ReadFundingSources Operation

Description: Reads FundingSource objects from the database.

Service: FundingSource Service (on page 476)

Style: Document/literal wrapped

Input:

Message: ReadFundingSources

Elements: One to many field names from the *FundingSource Fields* (on page 479) field list.

You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadFundingSourcesResponse

Output: Zero to many FundingSource elements that contain *FundingSource Fields* (on page 479) fields.

UpdateFundingSources Operation

Description: Updates multiple FundingSource objects in the database. You can update up to 1000 FundingSource objects with a single call.

Service: FundingSource Service (on page 476)

Style: Document/literal wrapped

Input:

Message: UpdateFundingSources

Elements: FundingSource elements that contain *FundingSource Fields* (on page 479) fields.

Required fields: The ObjectId must be specified.

Output:

Message: UpdateFundingSourcesResponse Output: boolean

DeleteFundingSources Operation

Description: Deletes multiple FundingSource objects in the database. You can delete up to 1000 FundingSource objects with a single call.

Service: FundingSource Service (on page 476)

Style: Document/literal wrapped

Input:

Message: DeleteFundingSources Elements: One to many ObjectId DeleteWithReplacements Output:

Message: DeleteFundingSourcesResponse Output: boolean

GetFieldLengthFundingSource Operation

Description: Returns length of variable character fields for a BO.

Service: FundingSource Service (on page 476)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthFundingSource Elements: FieldLength

Output:

Message: GetFieldLengthFundingSourceResponse Elements: One to many FieldLengthFundingSources.

ReadFundingSourcePath Operation

Description: Reads FundingSource objects from the database.

Service: FundingSource Service (on page 476)

Style: Document/literal wrapped

Input:

Message: ReadFundingSourcePath Elements:

- One to many ObjectId elements
- One to many field names from the *FundingSource Fields* (on page 479) field list.

Output:

Message: ReadFundingSourcePathResponse

Output: Zero to many FundingSource elements that contain FundingSource fields.

FundingSource Fields

Field	Туре	Read Only	Filterable Orderable	Description
CreateDate	dateTime	x	x	The date this funding source was created.
CreateUser	string	X	X	The name of the

	restricted to maxLength(2 55)			user that created this funding source.
Description	string			The description of the funding source.
LastUpdate Date	dateTime	x	x	The date this funding source was last updated.
LastUpdate User	string restricted to maxLength(2 55)	x	x	The name of the user that last updated this funding source.
Name	string restricted to maxLength(1 00)		x	The name of the funding source.
ObjectId	int		x	The unique ID generated by the system.
ParentObje ctId	int		x	The unique ID of the parent funding source of this funding source in the hierarchy.
SequenceN umber	int		x	The sequence number for sorting.

GlobalPreferences Service

Operations:

ReadGlobalPreferences Operation (on page 481) UpdateGlobalPreferences Operation (on page 481) GetFieldLengthGlobalPreferences Operation (on page 482)

WSDL: GlobalPreferences.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/GlobalPreferences/V2

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/GlobalPreferencesService?wsdl https://<hostname>:<port number>/p6ws/services/GlobalPreferencesService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.globalpreferences.GlobalPreferencesService

Description:

Global preferences are generally established by an administrator. There is only one global preferences object in the database and it cannot be deleted.

ReadGlobalPreferences Operation

Description: Reads GlobalPreferences objects from the database.

Service: GlobalPreferences Service (on page 480)

Style: Document/literal wrapped

Input:

Message: ReadGlobalPreferences

Elements: One to many field names from the *GlobalPreferences Fields* (on page 482) field list.

You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadGlobalPreferencesResponse

Output: Zero to many GlobalPreferences elements that contain *GlobalPreferences Fields* (on page 482) fields.

UpdateGlobalPreferences Operation

Description: Updates multiple GlobalPreferences objects in the database. You can update up to 1000 GlobalPreferences objects with a single call.

Service: GlobalPreferences Service (on page 480)

Style: Document/literal wrapped

Input:

Message: UpdateGlobalPreferences

Elements: GlobalPreferences elements that contain *GlobalPreferences Fields* (on page 482) fields.

Required fields: The ObjectId must be specified.

Output:

Message: UpdateGlobalPreferencesResponse Output: boolean

GetFieldLengthGlobalPreferences Operation

Description: Returns length of variable character fields for a BO.

Service: GlobalPreferences Service (on page 480)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthGlobalPreferences Element:

Field	Туре	Description
Field	string	The variable character field.

Output:

Message: GetFieldLengthGlobalPreferencesResponse Element: Return Output: int

GlobalPreferences Fields

Field	Туре	Read Only	Filtera ble Ordera ble	Description
AllowApprovedTSR ejection	boolean			The flag indicating the status of the Prevent users from rejecting approved timesheets setting on the Timesheets page of Application Settings.
AlwaysLaunchOnlin eHelp	boolean			The flag indicating that Online Help should be launched whenever a user accesses help.
BaseCurrencyObjec tId	int			The unique ID of the currency.

CreateDate	dateTime	х	The date this global preferences was created.
CreateUser	string restricted to maxLength(255)	x	The name of the user that created this global preferences.
CustomLabel1	string restricted to maxLength(255)		The custom (user-defined) text that will be inserted into any report containing the Custom Label 1 global variable text cell, when printed.
CustomLabel2	string restricted to maxLength(255)		The custom (user-defined) text that will be inserted into any report containing the Custom Label 2 global variable text cell, when printed.
CustomLabel3	string restricted to maxLength(255)		the custom (user-defined) text that will be inserted into any report containing the Custom Label 3 global variable text cell, when printed.
DayAbbreviation	string restricted to maxLength(4)		The abbreviation character for time periods of days. This abbreviation is used for displaying time units and durations in the user's selected display formats.
DefaultDuration	double restricted to minInclusiv e(0.0)		The planned duration assigned to new activities by default.
DefaultTimesheetAp provalManager	int		The unique ID of the resource manager assigned to approve timesheets for new resources by default.
EnableWhatsNewDi alog	boolean		The flag indicating the status of the Display What's New Dialog option on the General page of Application Settings.

EPPMConsentMess age	string	The text of the consent message shown to EPPM users.
EPPMEnableConse nt	string	A comma separated list of integers representing the types of consent enabled in P6 EPPM. 1 = Login page consent 2 = Add user consent 3 = Add resource consent 4 = Add module consent 5 = Download consent 7 = Visualizer consent
EVEstimateToComp leteFactor	double restricted to minInclusiv e(0.0)	The user-defined performance factor, PF, for computing earned-value estimate-to-complete. ETC is computed as PF * (BAC - earned value). This value is assigned to new projects by default. It can be modified for each project WBS element.
EVEstimateToComp leteTechnique	string restricted to " 'ETC = Remaining Cost for Activity' 'PF = 1' 'PF = Custom Value' 'PF = 1 / CPI' 'PF = 1 / (CPI * SPI)'	The technique for computing earned-value estimate-to-complete. This setting is assigned to new projects by default. It can be modified for each project WBS element.
EVPerformancePct CompleteCustomPc t	double	The user-defined percent complete for computing earned value for activities within the WBS. A value of, say, 25 means that 25% of the planned amount is earned when the activity is started and the remainder is earned when the

		activity is completed. This value is assigned to new projects by default. It can be modified for each project WBS element.
EVPerformancePct CompleteTechnique	string restricted to " 'Activity Percent Complete' '0 / 100' '50 / 50' 'Custom Percent Complete' 'WBS Milestones Percent Complete' 'Activity Percent Complete Using Resource Curves'	The technique used for computing earned-value percent complete. This setting is assigned to new projects by default. It can be modified for each project WBS element.
EarnedValueCalcul ation	string restricted to 'At Completion Values with Current Dates' 'Planned Values with Planned Dates' 'Planned Values with Current Dates'	The flag indicating which values to use when calculating earned value when using a primary baseline. Valid values are 'At Completion Values with Current Dates', 'Planned Values with Planned Dates', and 'Planned Values with Current Dates'.
EmailNotifyTSRejec tion	boolean	The flag that indicates the status of the 'Enable email notifications' option in the Timesheets page of Application Settings.

EnablePasswordPol icy	boolean	The flag that indicates whether the password policy is enforced.
EnableTSAudit	boolean	The flag indicating whether to track timesheet submission, approval, and rejection. When you set this option, the application saves each user who reviews a timesheet, and when the timesheet was reviewed. This information can be viewed by loading TimesheetAudit business objects.
EnableWebServices IPCheck	boolean	The flag indicating whether to allow web services to access P6. If this flag is set to on, the IP addresses for the services allowed must be specified with IPSiteList.
FooterLabel1	string restricted to maxLength(255)	the first footer for reports. The Project Management application allows up to three different footer text strings that can be optionally placed at the bottom of all reports using the report writer.
FooterLabel2	string restricted to maxLength(255)	the second footer for reports. The Project Management application allows up to three different footer text strings that can be optionally placed at the bottom of all reports using the report writer.
FooterLabel3	string restricted to maxLength(255)	the third footer for reports. The Project Management application allows up to three different footer text strings that can be optionally placed at the bottom of all reports using the report writer.
GatewayApiUrl	string	The Primavera Gateway URL that will allow you to integrate other products with P6 and P6 Professional.
GatewayExportERP SyncName	string	The synchronization for exporting to ERP.

	1	
GatewayExportUnifi erSyncName	string	The synchronization for exporting to Primavera Unifier.
GatewayImportERP SyncName	string	The synchronization for importing to ERP.
GatewayImportUnifi erSyncName	string	The synchronization for importing to Primavera Unifier.
GatewayP6Deploy mentName	string	The name for the P6 deployment to be integrated with Primavera Gateway.
GatewayPassword	string	The password for integration.
GatewayUnifierEna bled	boolean	This is the flag to enable Unifier through Gateway.
GatewayUsername	string	The username for integration.
HeaderLabel1	string restricted to maxLength(255)	the first header for reports. The Project Management application allows up to three different header text strings that can be optionally placed at the top of all reports using the report writer.
HeaderLabel2	string restricted to maxLength(255)	the second header for reports. The Project Management application allows up to three different header text strings that can be optionally placed at the top of all reports using the report writer.
HeaderLabel3	string restricted to maxLength(255)	the third header for reports. The Project Management application allows up to three different header text strings that can be optionally placed at the top of all reports using the report writer.
HourAbbreviation	string restricted to	The abbreviation character for time periods of hours. This abbreviation

	maxLength(4)		is used for displaying time units and durations in the user's selected display formats.
HoursPerDay	double restricted to minInclusiv e(1.0) maxInclusiv e(24.0)		The number of work hours per day. This conversion factor is used for displaying time units and durations in the user's selected display formats.
HoursPerMonth	double restricted to minInclusiv e(1.0) maxInclusiv e(744.0)		The number of work hours per month. This conversion factor is used for displaying time units and durations in the user's selected display formats.
HoursPerWeek	double restricted to minInclusiv e(1.0) maxInclusiv e(168.0)		The number of work hours per week. This conversion factor is used for displaying time units and durations in the user's selected display formats.
HoursPerYear	double restricted to minInclusiv e(1.0) maxInclusiv e(8784.0)		The number of work hours per year. This conversion factor is used for displaying time units and durations in the user's selected display formats.
LastUpdateDate	dateTime	х	The date this global preferences was last updated.
LastUpdateUser	string restricted to maxLength(255)	x	The name of the user that last updated this global preferences.
LogHoursAfterActua IFinish	boolean		The flag that indicates whether timesheet application users are allowed to log timesheet hours on activities for dates after the

		activities' actual finish dates.
LogHoursBeforeAct ualStart	boolean	The flag that indicates whether timesheet application users are allowed to log timesheet hours on activities for dates prior to the activities' actual start dates.
LogHoursComplete dActivities	boolean	The flag that indicates whether timesheet application users are allowed to log timesheet hours on activities that are already marked as completed.
LogHoursInFuture	boolean	The flag that indicates whether the user can log hours in the future.
LogHoursNotStarte dActivities	boolean	The flag that indicates whether timesheet application users are allowed to log timesheet hours on activities that are still marked as Not started.
MaxActivityCodeTre eLevels	int restricted to minInclusiv e(1) maxInclusiv e(25)	The maximum number of levels that can be created in activity code hierarchies in the Project Management application. The API ignores this setting when creating activity codes.
MaxActivityCodesP erProject	int	The maximum number of project-level activity user codes that can be created per project.
MaxActivityIdLength	int restricted to minInclusiv e(1) maxInclusiv e(40)	The maximum number of characters allowed for activity IDs.
MaxAssignmentCod eTreeLevelCnt	int restricted to minInclusiv e(1) maxInclusiv e(25)	The maximum number of levels that can be created in assignment code hierarchies in the Project Management application.

MaxBaselinesPerPr oject	int restricted to minInclusiv e(1)		The maximum number of baselines that can be created per project.
MaxCostAccountLe ngth	int restricted to minInclusiv e(1) maxInclusiv e(40)		The maximum number of characters allowed for cost account IDs (at each level in the cost account tree).
MaxCostAccountTre eLevels	int restricted to minInclusiv e(1) maxInclusiv e(25)		The maximum number of levels that can be created in the cost account hierarchy in the Project Management application. The API ignores this setting when creating cost accounts.
MaxFPCalendarCou nt	int restricted to minInclusiv e(1) maxInclusiv e(20)	x	The maximum number of financial period calendars that can be created.
MaxOBSTreeLevels	int restricted to minInclusiv e(1) maxInclusiv e(25)		The maximum number of levels that can be created in OBS hierarchies in the Project Management application. The API ignores this setting when creating OBS objects.
MaxProjectCodeTre eLevels	int restricted to minInclusiv e(1) maxInclusiv e(25)		The maximum number of levels in the project category hierarchy in the Project Management application. The API ignores this setting when creating project codes.
MaxProjectIdLength	int		The maximum number characters

	restricted to minInclusiv e(1) maxInclusiv e(40)	allowed for project IDs.
MaxResourceCode TreeLevels	int restricted to minInclusiv e(1) maxInclusiv e(25)	The maximum number of levels in the resource code hierarchy in the Project Management application. The API ignores this setting when creating resource codes.
MaxResourceIdLen gth	int restricted to minInclusiv e(1) maxInclusiv e(255)	The maximum number of characters allowed for resource IDs (at each level in the resource tree).
MaxResourceTreeL evels	int restricted to minInclusiv e(1) maxInclusiv e(25)	The maximum number of levels that can be created in the resource hierarchy.
MaxRoleCodeTreeL evelCnt	int restricted to minInclusiv e(1) maxInclusiv e(25)	The maximum number of levels in the role code hierarchy in the Project Management application. The API ignores this setting when creating role codes.
MaxRoleIdLength	int restricted to minInclusiv e(1) maxInclusiv e(40)	The maximum number characters allowed for role IDs.
MaxRoleTreeLevels	int restricted to minInclusiv	The maximum number of levels in the role hierarchy in the Project Management application. The API

	e(1) maxInclusiv e(25)	ignores this setting when creating roles.
MaxTimesheetReso urceHours	double restricted to minInclusiv e(1.0) maxInclusiv e(24.0)	The maximum hours a resource can enter per day for all of their assigned activities.
MaxWBSCodeLengt h	int restricted to minInclusiv e(1) maxInclusiv e(40)	The maximum number of characters allowed for WBS codes (at each level in the WBS tree).
MaxWBSTreeLevel s	int restricted to minInclusiv e(1) maxInclusiv e(50)	The maximum number of levels that can be created in WBS hierarchies.
MaximumBaselines CopiedWithProject	int restricted to minInclusiv e(1) maxInclusiv e(50)	The number of baseline projects that can be copied with a project.
MinuteAbbreviation	string restricted to maxLength(4)	The abbreviation character for time periods of minutes. This abbreviation is used for displaying time units and durations in the user's selected display formats.
MonthAbbreviation	string restricted to maxLength(4)	The abbreviation character for time periods of months. This abbreviation is used for displaying time units and durations in the user's selected display formats.

NumberOfAccessibl eFutureTimesheets	int restricted to minInclusiv e(0) maxInclusiv e(200)		The number of future timesheets that timesheet application users are allowed to access.
NumberOfAccessibl ePastTimesheets	int restricted to minInclusiv e(0) maxInclusiv e(200)		The number of past timesheets that can be accessed.
PrivateIPAllowList	string		The list of IP addresses that will be allowed access to Web Services.
ResourcesCanAssig nThemselvesToActi vities	boolean	x	The flag that indicates whether timesheet application users are allowed to assign themselves to activities in this project.
ResourcesCanAssig nThemselvesToActi vitiesOutsideOBSAc cess	boolean	x	The flag that indicates whether timesheet application users are allowed to assign themselves to activities in this project even if the resource does not have access to the relevant OBS for the activity.
StartDayOfWeek	int restricted to minInclusiv e(1) maxInclusiv e(7)		The starting day of the week as displayed in all calendars.
SummarizeByCalen dar	boolean		The flag indicating whether to summarize by calendar .
SummarizeByFinan cialPeriods	boolean		The flag indicating whether to summarize the EPS, project or WBS by financial periods.
SummaryResource SpreadInterval	string restricted to		The interval in which resource and role level spreads are summarized

	'Month' 'Week'	and stored. Valid values are 'Month' and 'Week'. This setting is used by the Summarizer job service.
SummaryWBSSpre adInterval	string restricted to 'Month' 'Week'	The interval in which WBS level spreads are summarized and stored. Valid values are 'Month' and 'Week'. This setting is used by the Summarizer job service.
TeamMemberCons entMessage	string	The text of the consent message shown to Team Member users.
TeamMemberEnabl eConsent	string	A comma separated list of integers representing the types of consent enabled in P6 Team Member applications, including Team Member Web, P6 for Android, and P6 for iOS. 6 = Team Member consent
TimeWindowCompl etedActivities	int	The time window (days) to access completed activities in the timesheet application, assigned to new resources by default.
TimeWindowNotSta rtedActivities	int	The time window (days) to access not started activities in the timesheet application, assigned to new resources by default.
TimesheetApproval Level	int	The number of approval levels required for timesheets (0, 1, or 2) before timesheets hours are applied to activities as actuals.
TimesheetDecimalD igits	int	The number of decimal digits for recording hours in timesheets.
TimesheetInterval	boolean	The flag that indicates whether timesheet application users enter timesheet hours daily or by entire timesheet reporting period.
TimesheetPeriodEn dsOnDay	string restricted to 'Sunday' 'Monday' 'Tuesday'	The end day of time sheet period used in time sheet application. Valid values are: 'Sunday', 'Monday', 'Tuesday', 'Wednesday', 'Thursday', 'Friday' and 'Saturday'.

	'Wednesda y' 'Thursday' 'Friday' 'Saturday'	
TimesheetPeriodTy pe	string restricted to 'Every Week' 'Every Two Weeks' 'Every Four Weeks' 'Every Month'	The time period used in time sheet application. Valid values are: 'Every Week', 'Every Two Weeks', 'Every Four Weeks' and 'Every Month'.
UnifierAuthCode		The Authentication Code for connecting P6 to Unifier.
UnifierCompanySho rtName		The Company Short Name for connecting P6 to Unifier.
UnifierIntegrationPa ssword		The password defined in Unifier for integration with P6 via REST Web Services.
UnifierIntegrationUs erName		The user name defined in Unifier for integration with P6 via REST Web Services.
UnifierWebServiceU RL		The user name for integrating P6 with Unifier.
UseCalendarTimeP eriodsFlag	boolean	The flag that indicates whether the system uses the hours per time period defined in the calendar.If this flag is true, the system uses the hours per time period settings that are defined in the calendar.If this flag is false, the system uses the hours per time period from the global preferences.
UseMaxTimesheetR esourceHours	boolean	The flag indicating whether to restrict the number of hours a user can enter to the limit specified in MaxTimesheetResourceHours.

UseProjectManager Approval	string restricted to maxLength(20)	The flag that indicates the approval sequence, if any, required for level 2 timesheet approvals. For example, project managers must approve before resource manager do, or vice versa.
UseTimesheets	boolean	The flag that indicates whether new resources use timesheets by default.
VersionForWhatsNe w	string	Determines the version of What's New descriptions to be shown to users.
WBSCategoryLabel	string restricted to maxLength(40)	The dynamic label used for the WBS category. Project Planner allows the system administrator to dynamically label the WBS category.
WBSCodeSeparator	string restricted to maxLength(2)	The character used for separating code fields for the cost account tree. This is also the WBS code separator for new projects by default.
WeekAbbreviation	string restricted to maxLength(4)	The abbreviation character for time periods of weeks. This abbreviation is used for displaying time units and durations in the user's selected display formats.
YearAbbreviation	string restricted to maxLength(4)	The abbreviation character for time periods of years. This abbreviation is used for displaying time units and durations in the user's selected display formats.

GlobalReplace Service

Operations:

ReadGlobalReplace Operation (on page 497) UpdateGlobalReplace Operation (on page 497) GetFieldLengthGlobalReplace Operation (on page 498)

WSDL: GlobalReplace.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/GlobalReplace/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/GlobalReplaceService?wsdl https://<hostname>:<port number>/p6ws/services/GlobalReplaceService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.userfieldtitle.GlobalReplaceService

Description:

P6 provides a way to replace data in multiple activities, WBS elements, and projects. You can configure a Global Search & Replace template to determine the data which will be replaced.

You can create a template to filter the data to be changed and specify what changes to make. You can save templates to be used later, and modify or delete templates. You can apply the changes and review the data before committing to the change. At the review stage, you can exclude certain rows from being changed and modify data in one or more rows before applying the change.

ReadGlobalReplace Operation

Description:Reads GlobalReplace objects from the database.

Service: GlobalReplace Service (on page 496)

Style: Document/literal wrapped

Input:

Message: ReadGlobalReplace

Elements: One to many field names from the GlobalReplace Fields field list

You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadGlobalReplacesRespons

Output: Zero to many GlobalReplace elements that contain GlobalReplace fields

UpdateGlobalReplace Operation

Description:Updates multiple GlobalReplace objects in the database. You can update up to 1000 GlobalReplace objects with a single call.

Service: GlobalReplace Service (on page 496)

Style: Document/literal wrapped

Input:

Message: UpdateGlobalReplace

Elements: One to many field names from the GlobalReplace Fields field list

Output:

Message: UpdateGlobalReplaceResponse Output: boolean

GetFieldLengthGlobalReplace Operation

Description: Returns length of variable character fields for a BO.

Service: GlobalReplace Service (on page 496)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthGlobalReplace Elements: FieldLength

Output:

Message: GetFieldLengthGlobalReplaceResponse Elements: One to many FieldLengthGlobalReplaces.

GlobalReplace Fields

Field	Туре	Read Only	Filterab le Ordera ble	Description
AllProjects	boolean			The option used to set all of projects to which a user has access.
GReplaceData	string			The Global Replace template.
GReplaceName	string restricted to maxLength(255)		x	The Global Replace template name.

GReplaceObjectId	int	Filterab le only	The unique id of the Global Replace template.
ProjectIdName	string		Project ids and names that are separated by commas.
ProjectIds	string		Project ids that are separated by commas.
ReplaceFieldName One	string		First field name the user has selected to replace.
SearchCriteria	type		The criteria that is used to search and load business objects.
SubjectAreaType	string restricted to maxLength(255)		The name of the object to be updated.
UserObjectType	int	х	The unique id of the associated user.

Location Service

Operations:

CreateLocations Operation (on page 500) ReadLocations Operation (on page 500) UpdateLocations Operation (on page 501) DeleteLocations Operation (on page 501) GetFieldLengthLocation Operation (on page 501)

WSDL: Location.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/Location/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/LocationService?wsdl https://<hostname>:<port number>/p6ws/services/LocationService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.location.LocationService

Description:

The location dictionary is used to store address locations including latitude and longitude. These locations can be assigned to resources, projects and/or activities.

CreateLocations Operation

Description: Creates multiple Location objects in the database. You can create up to 1000 Location objects with a single call.

Service: Location Service (on page 499)

Style: Document/literal wrapped

Input:

Message: CreateLocations

Elements: Location elements that contain Location Fields (on page 502) fields

Required fields: The following fields are required when creating the Location object:

- Name
- Latitude
- Longitude

Output:

Message: CreateLocationsResponse Output: Zero to many ObjectIds

ReadLocations Operation

Description: Reads Location objects from the database.

Service: Location Service (on page 499)

Style: Document/literal wrapped

Input:

Message: ReadLocations

Elements: One to many fields from the Location Fields (on page 502) field list

You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadLocationsResponse

Output: Zero to many Location elements that contain Location fields.

UpdateLocations Operation

Description: Updates multiple Location objects in the database. You can update up to 1000 Location objects with a single call.

Service: Location Service (on page 499)

Style: Document/literal wrapped

Input:

Message: UpdateLocations

Elements: Location elements that contain Location Fields (on page 502) fields

Output:

Message: UpdateLocationsResponse Output: boolean

DeleteLocations Operation

Description: Deletes multiple Location objects in the database. You can delete up to 1000 Location objects with a single call.

Service: Location Service (on page 499)

Style: Document/literal wrapped

Input:

Message: DeleteLocations Elements: One to many ObjectIds

Output:

Message: DeleteLocationsResponse Output: boolean

GetFieldLengthLocation Operation

Description: Returns length of variable character fields for a BO.

Service: Location Service (on page 499)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthLocation Elements: FieldLength

Output:

Message: GetFieldLengthLocationResponse Elements: One to many FieldLengthLocations.

Location Fields

Field	Туре	Read Only	Filterable Orderable	Description
AddressLine 1	string restricted to maxLength(20 0)		x	The first line of the address with street number and street name.
AddressLine 2	string restricted to maxLength(20 0)		x	The second line of the address with street number and street name.
City	string restricted to maxLength(20 0)		x	The city name of the address.
Country	string restricted to maxLength(20 0)		x	The country of the address.
CountryCod e	string restricted to maxLength(3)		x	The country code of the address.
CreateDate	dateTime	Х	х	The creation date of the Location.
CreateUser	string	х	х	The name of the user that created this location.
LastUpdate Date	dateTime	x	x	The date this location was last updated.
LastUpdate User	string	x	x	The name of the user that last updated this location.

Latitude	string restricted to maxLength(40)	x	The latitude of the address.
Longitude	string restricted to maxLength(40)	x	The longitude of the address.
Municipality	string restricted to maxLength(20 0)	x	The municipality name of the address.
Name	string restricted to maxLength(25 5)	x	The name of the location.
ObjectId	int	x	The unique ID of the location.
PostalCode	string restricted to maxLength(20)	x	The postal code of the address.
State	string restricted to maxLength(20 0)	x	The state name of the address.
StateCode	string restricted to maxLength(2)	x	The state abbreviation of the address.

OBS Service

Operations:

CreateOBS Operation (on page 504) ReadOBS Operation (on page 504) UpdateOBS Operation (on page 505) DeleteOBS Operation (on page 505)

GetFieldLengthOBS Operation (on page 506) *ReadOBSPath Operation* (on page 506)

WSDL: OBS.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/OBS/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/OBSService?wsdl https://<hostname>:<port number>/p6ws/services/OBSService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.obs.OBSService

Description:

The Organizational Breakdown Structure (OBS) is a hierarchical arrangement of an organization's management structure. User access and privileges to nodes and projects within the Enterprise Project Structure (EPS) hierarchy are implemented via a responsible manager defined in the enterprise-wide OBS hierarchy.

CreateOBS Operation

Description: Creates multiple OBS objects in the database. You can create up to 1000 OBS objects with a single call.

Service: OBS Service (on page 503)

Style: Document/literal wrapped

Input:

Message: CreateOBS Elements: OBS elements that contain **OBS Fields** (on page 506) fields.

Required fields: You must supply the Name field.

Output:

Message: CreateOBSResponse Output: Zero to many ObjectId elements

ReadOBS Operation

Description: Reads OBS objects from the database.

Service: OBS Service (on page 503)

Style: Document/literal wrapped Input:

Message: ReadOBS

Elements: One to many field names from the **OBS Fields** (on page 506) field list.

You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadOBSResponse

Output: Zero to many OBS elements that contain OBS Fields (on page 506) fields.

UpdateOBS Operation

Description: Updates multiple OBS objects in the database. You can update up to 1000 OBS objects with a single call.

Service: OBS Service (on page 503)

Style: Document/literal wrapped

Input:

Message: UpdateOBS Elements: OBS elements that contain **OBS Fields** (on page 506) fields. Required fields: The ObjectId must be specified.

Output:

Message: UpdateOBSResponse Output: boolean

DeleteOBS Operation

Description: Deletes multiple OBS objects in the database. You can delete up to 1000 OBS objects with a single call.

Service: OBS Service (on page 503)

Style: Document/literal wrapped

Input:

Message: DeleteOBS

Elements: One to many ObjectId elements.

You can also optionally specify one to many DeleteWithReplacement elements that contain ObjectId and ReplacementObjectId elements

Output:

Message: DeleteOBSResponse Output: boolean

GetFieldLengthOBS Operation

Description: Returns length of variable character fields for a BO.

Service: OBS Service (on page 503)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthOBS Elements: FieldLength

Output:

Message: GetFieldLengthOBSResponse Elements: One to many FieldLengthOBSs.

ReadOBSPath Operation

Description: Returns an OBS element and all of its ancestor elements to provide hierarchical information about the OBS object.

Service: OBS Service (on page 503)

Style: Document/literal wrapped

Input:

Message: ReadOBSPath Elements:

- One to many ObjectId elements
- One to many field names from the **OBS Fields** (on page 506) field list.

Output:

Message: ReadOBSPathResponse

Output: Zero to many OBS elements that contain OBS fields. Returns the OBS element that you specify and all of its ancestor elements.

OBS Fields

Field	Туре	Read Only	Filterable Orderable	Description
CreateDa te	dateTime	x	x	The date this OBS was created.
CreateUs er	string restricted to	x	x	The name of the user that created this

	maxLength(255)			OBS.
Descriptio n	string			The description of the person/role in the organization.
GUID	string restricted to pattern '\{[0-9a-fA-F]{8}-[0-9a-fA-F]{4} -[0-9a-fA-F]{4}-[0-9a-fA-F]{4}- [0-9a-fA-F]{12}\} '		х	The globally unique ID generated by the system.
LastUpda teDate	dateTime	x	x	The date this OBS was last updated.
LastUpda teUser	string restricted to maxLength(255)	x	x	The name of the user that last updated this OBS.
Name	string restricted to maxLength(100)		x	The name of the person/role in the organization, sometimes referred to elsewhere as the "responsible manager".
ObjectId	int		x	The unique ID generated by the system.
ParentOb jectId	int		Х	The unique ID of the parent OBS of this OBS in the hierarchy.
Sequenc	int		Х	The

eNumber		sequence number for
		sorting.

ProjectDocument Service

Operations:

CreateProjectDocuments Operation (on page 509) ReadProjectDocuments Operation (on page 509) UpdateProjectDocuments Operation (on page 509) DeleteProjectDocuments Operation (on page 510) GetFieldLengthProjectDocument Operation (on page 510)

WSDL: ProjectDocument.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/ProjectDocument/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/ProjectDocumentService?wsdl https://<hostname>:<port number>/p6ws/services/ProjectDocumentService?wsdl

Client Stub Class:

Java com.primavera.ws.p6.projectdocument.ProjectDocumentService .NET Primavera.Ws.P6.ProjectDocument.ProjectDocumentPortBinding

Description:

Documents are guidelines, procedures, standards, plans, design templates, worksheets, or other information related to a project. A document, or work product, can provide standards and guidelines for performing project work, or it can be formally identified as a project standard. Documents can be identified as project deliverables that will be given to the end user or customer at the end of the project. Documents can be assigned to activities and to work breakdown structure (WBS) elements. You can maintain general information about documents, such as revision date, location, and author. Documents are hierarchical objects.

This business object supports user defined fields (UDFs). Use the UDFValue business object to assign UDFs.

CreateProjectDocuments Operation

Description: Creates multiple ProjectDocument objects in the database. You can create up to 1000 ProjectDocument objects with a single call.

Service: ProjectDocument Service (on page 508)

Style: Document/literal wrapped

Input:

Message: CreateProjectDocuments

Elements: ProjectDocument elements that contain *ProjectDocument Fields* (on page 511) fields

Required fields: The following fields are required when creating the ProjectDocument object:

- ProjectObjectId|WBSObjectId|ActivityObjectId
- DocumentObjectId

Output:

Message: CreateProjectDocumentsResponse Output: Zero to many ObjectId elements

ReadProjectDocuments Operation

Description: Reads ProjectDocument objects from the database.

Service: ProjectDocument Service (on page 508)

Style: Document/literal wrapped

Input:

Message: ReadProjectDocuments

Elements: One to many field names from the *ProjectDocument Fields* (on page 511) field list

You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadProjectDocumentsResponse Output: Zero to many ProjectDocument elements that contain ProjectDocument fields.

UpdateProjectDocuments Operation

Description: Updates multiple ProjectDocument objects in the database. You can update up to 1000 ProjectDocument objects with a single call.

Service: ProjectDocument Service (on page 508)

Style: Document/literal wrapped

Input:

Message: UpdateProjectDocuments

Elements: ProjectDocument elements that contain *ProjectDocument Fields* (on page 511) fields.

Required fields: The ObjectId must be specified.

Output:

Message: UpdateProjectDocumentsResponse Output: boolean

DeleteProjectDocuments Operation

Description: Deletes multiple ProjectDocument objects in the database. You can delete up to 1000 ProjectDocument objects with a single call.

Service: ProjectDocument Service (on page 508)

Style: Document/literal wrapped

Input:

Message: DeleteProjectDocuments Elements: One to many ObjectId elements

Output:

Message: DeleteProjectDocumentsResponse Output: boolean

GetFieldLengthProjectDocument Operation

Description: Returns length of variable character fields for a BO.

Service: ProjectDocument Service (on page 508)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthProjectDocument Elements: FieldLength

Output:

Message: GetFieldLengthProjectDocumentResponse Elements: One to many FieldLengthProjectDocuments.

ProjectDocument Fields

		Read	Filtera ble	
Field	Туре	Only	Order able	Description
ActivityId	string restricted to maxLength(4 0)	x	x	The short ID that uniquely identifies the activity within the project.
ActivityNam e	string restricted to maxLength(1 20)	x	x	The name of the activity. The activity name does not have to be unique.
ActivityObje ctId	int		x	The unique ID of the activity to which the activity document applies.
CreateDate	dateTime	х	х	The date this document was created.
CreateUser	string restricted to maxLength(2 55)	x	x	The name of the user that created this document.
DocumentC ategoryNam e	string	x	x	The name of the category associated with the document.
DocumentO bjectId	int		x	The unique ID of the document to which the activity document applies.
DocumentSt atusName	string	x		The description of the document status.
DocumentTi tle	string restricted to maxLength(1 20)	x	x	The title or name of a document assigned to a WBS or activity within a project.
IsBaseline	boolean	x	x	The boolean value indicating if this business object is related to a Project or Baseline

				The boolean value indicating if this
IsTemplate	boolean	Х	Х	business object is related to a template Project.
IsWorkProd uct	boolean		x	The flag that indicates whether the document is a work product.
LastUpdate Date	dateTime	x	x	The date this document was last updated.
LastUpdate User	string restricted to maxLength(2 55)	x	x	The name of the user that last updated this document.
ObjectId	int		x	The unique ID generated by the system.
ParentWBS ObjectId	int	х	x	The parent id of the WBS element to which the document is assigned.
ProjectId	string restricted to maxLength(4 0)	x	x	The short code that uniquely identifies the project.
ProjectObje ctId	int		x	The unique ID of the project to which the activity document applies.
WBSCode	string restricted to maxLength(4 0)	x	x	The short code assigned to each WBS element for identification. Each WBS element is uniquely identified by concatenating its own code together with its parents' codes.
WBSName	string restricted to maxLength(1 00)	x	x	The name of the WBS element.
WBSObjectI d	int		x	The unique ID of the WBS to which the activity document applies.

ResourceLocation Service

Operations:

CreateResourceLocations Operation (on page 513) ReadResourceLocations Operation (on page 514) UpdateResourceLocations Operation (on page 514) DeleteResourceLocations Operation (on page 514) GetFieldLengthResourceLocation Operation (on page 515)

WSDL: ResourceLocation.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/ResourceLocation/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/ResourceLocationService?wsdl https://<hostname>:<port number>/p6ws/services/ResourceLocationService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.resourcelocation.ResourceLocationService

Description:

The resource location is used to store the current location information including latitude and longitude for the resource. The current location of the Resource could be different from the Location indicated by the LocationObjectId field in Resource for a mobile resource. There can be only one resource location for each Resource for now.

CreateResourceLocations Operation

Description: Creates multiple ResourceLocation objects in the database. You can create up to 1000 ResourceLocation objects with a single call.

Service: ResourceLocation Service (on page 513)

Style: Document/literal wrapped

Input:

Message: CreateResourceLocations

Elements: ResourceLocation elements that contain *ResourceLocation Fields* (on page 515) fields

Required fields: The following fields are required when creating the ResourceLocation object:

- ResourceObjectId
- Latitude
- Longitude

Output:

Message: CreateResourceLocationsResponse Output: Zero to many ObjectIds

ReadResourceLocations Operation

Description: Reads ResourceLocation objects from the database.

Service: ResourceLocation Service (on page 513)

Style: Document/literal wrapped

Input:

Message: ReadResourceLocations

Elements: One to many fields from the **ResourceLocation Fields** (on page 515) field list You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadResourceLocationsResponse

Output: Zero to many ResourceLocation elements that contain ResourceLocation fields.

UpdateResourceLocations Operation

Description: Updates multiple ResourceLocation objects in the database. You can update up to 1000 ResourceLocation objects with a single call.

Service: ResourceLocation Service (on page 513)

Style: Document/literal wrapped

Input:

Message: UpdateResourceLocations

Elements: ResourceLocation elements that contain *ResourceLocation Fields* (on page 515) fields

Output:

Message: UpdateResourceLocationsResponse Output: boolean

DeleteResourceLocations Operation

Description: Deletes multiple ResourceLocation objects in the database. You can delete up to 1000 ResourceLocation objects with a single call.

Service: ResourceLocation Service (on page 513)

Style: Document/literal wrapped

Input:

Message: DeleteResourceLocations Elements: One to many ObjectIds

Output:

Message: DeleteResourceLocationsResponse Output: boolean

GetFieldLengthResourceLocation Operation

Description: Returns length of variable character fields for a BO.

Service: ResourceLocation Service (on page 513)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthResourceLocation Elements: FieldLength

Output:

Message: getFieldLengthResourceLocationResponse Elements: One to many FieldLengthResourceLocations.

ResourceLocation Fields

Field	Туре	Read Only	Filterable Orderable	Description
CreateDate	dateTime	x	x	The date this resource location was created.
CreateUser	string restricted to maxLength(2 55)	x	x	The name of the user that created this resource location.
LastUpdateDate	dateTime	х	x	The date this resource location was last updated.
LastUpdateUser	string restricted to maxLength(2 55)	x	x	The name of the user that last updated this resource location.
Latitude	double		х	The latitude of the resource location.

Field	Туре	Read Only	Filterable Orderable	Description
Longitude	double		х	The longitude of the resource location.
ObjectId	int		х	The unique ID of the resource location.
ResourceObjectI d	int		x	The unique ID of the associated resource.

Job Service

Operations:

UpdateBaseline Operation (on page 517) ApplyActuals Operation (on page 519) CancelJob Operation (on page 521) GetCurrentJobs Operation (on page 521) Level Operation (on page 523) ReadJobLog Operation (on page 524) ReadJobStatus Operation (on page 525) RecalculateAssignmentCosts Operation (on page 526) Schedule Operation (on page 527) ScheduleCheck Operation (on page 528) StorePeriodPerformance Operation (on page 529) SummarizeCBS Operation (on page 531) SummarizeEPS Operation (on page 532) SummarizeProject Operation (on page 533) SendToUnifier Operation (on page 534)

WSDL: Job.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/Job/V2

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/JobService?wsdl https://<hostname>:<port number>/p6ws/services/JobService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.job.JobService

Description:

The Job service enables you to initiate and process specialized jobs asynchronously. You can check the status of a job by using the ReadJobStatus operation. To cancel a job, use the CancelJob operation. Note that cancelling the job has no effect if the job has already run.

UpdateBaseline Operation

Description: Updates the baseline of a project.

Service: Job Service (on page 516)

Style: Document/literal wrapped

Input:

Message: UpdateBaseline Elements:

Field	Туре	Description
Jobld	string	The unique identifier for the job.
BaselineProjId	int	The unique identifier for the baseline project.
Timeout	int	The amount of time in seconds that the server side will wait for the job service to complete before it returns with the current job status. The Timeout parameter is optional. When this operation is used without specifying a Timeout parameter or with a Timeout of 0, the server immediately returns without waiting for the job service to complete.

Output:

Message: UpdateBaselineResponse Elements:

Field	Туре	Description
JobStatus	JobStatusType string restricted to 'Pending' 'Running' 'Complete' 'Failed' 'Cancelled' 'Completed With Errors'	Specifies the status of the job.

UpdateBaseline Operation

Description: Updates the baseline of a project.

Service: Job Service (on page 516)

Style: Document/literal wrapped

Input:

Message: UpdateBaseline Elements:

Field	Туре	Description
Jobld	string	The unique identifier for the job.
BaselineProjId	int	The unique identifier for the baseline project.

Timeout	int	The amount of time in seconds that the server side will wait for the job service to complete before it returns with the current job status. The Timeout parameter is optional. When this operation is used without specifying a Timeout parameter or with a Timeout of 0, the server immediately returns without waiting for the job service to complete.
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Output:

Message: UpdateBaselineResponse Elements:

Field	Туре	Description
JobStatus	JobStatusType string restricted to 'Pending' 'Running' 'Complete' 'Failed' 'Cancelled' 'Completed With Errors'	Specifies the status of the job.

ApplyActuals Operation

Description: Asynchronously applies actuals to a project.

Service: Job Service (on page 516)

Style: Document/literal wrapped

Input:

Message: ApplyActuals Elements:

Field	Туре	Description
ProjectObjectId	int	The unique identifier for the project.
NewDataDate	dateTime	The new data date.
Timeout	int	The amount of time in seconds that the server side will wait for the job service to complete before it returns with the current job status. The Timeout parameter is optional. When this operation is used without specifying a Timeout parameter or with a Timeout of 0, the server immediately returns without waiting for the job service to complete.

Output:

Message: ApplyActualsResponse Elements:

Field	Type	Description
Jobld	string	Specifies the unique identifier for the job.
JobStatus	JobStatusType string restricted to 'Pending' 'Running' 'Complete' 'Failed' 'Cancelled' 'Completed With Errors'	Specifies the status of the job.

CancelJob Operation

Description: Cancels an asynchronous job initiated by P6 EPPM Web Services or the P6 Integration API.

Service: Job Service (on page 516)

Style: Document/literal wrapped

Input:

Message: CancelJob

Elements:

Field	Туре	Description
Jobld	string	The unique identifier for the job.

Output:

Message: CancelJobResponse

Elements:

Field	Туре	Description
JobStatus	JobStatusType JobStatusType string restricted to 'Pending' 'Running' 'Complete' 'Failed' 'Cancelled' 'Completed With Errors'	Specifies the status of the job.

GetCurrentJobs Operation

Description: Retrieves job information for current asynchronous jobs of this user.

Service: Job Service (on page 516)

Style: Document/literal wrapped

Input:

Message: GetCurrentJobs Elements: None

Output:

Message: GetCurrentJobsResponse Elements: Jobinfo Element that contains:

Field	Туре	Description
Jobld	string	The unique identifier of the job.
JobType	string restricted to 'Apply Actuals' 'Level', 'Recalculate Assignment Costs' 'Schedule' 'Store Period Performance' 'Summarize' 'Sync Actual This Period'	Specifies the JobType.
JobStatus	string restricted to 'Pending' 'Running' 'Complete' 'Failed' 'Cancelled' 'Completed With Errors'	Specifies the status of the job.
SubmittedDate	dateTime	The date and time that the job was submitted.
LastRunDate	dateTime	The date and time the job was run.
ProjectObjectId	int	The unique identifier of the project. This field does not apply to all jobs.
EPSObjectId	int	The unique identifier of the EPS. This field does not apply to all jobs.

WorkerHost	string	The name of the host machine that ran
		the job.

Level Operation

Description: Asynchronously levels a project. Resource leveling is a process that helps you identify overallocated resources. Then you can reassign work to other resources if necessary to ensure that sufficient resources are available to perform the activities in your project according to the plan.

Service: Job Service (on page 516)

Style: Document/literal wrapped

Input:

Message: Level

Elements:

Field	Туре	Description
ProjectObjectId	int	The unique identifier of the project.
Timeout	int	The amount of time in seconds that the server side will wait for the job service to complete before it returns with the current job status. The Timeout parameter is optional. When you use this operation without specifying a Timeout parameter or with a Timeout of 0, the server immediately returns without waiting for the job service to complete.

Output:

Message: LevelResponse

Elements:

Field	Туре	Description
Jobld	string	The unique identifier of the job.

JobStatus	JobStatusType JobStatusType string restricted to 'Pending' 'Running' 'Complete' 'Failed' 'Cancelled' 'Completed With Errors'	Specifies the status of the job.
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ReadJobLog Operation

Description: Retrieves the log of an asynchronous job initiated by P6 EPPM Web Services or the Integration API.

Service: Job Service (on page 516)

Style: Document/literal wrapped

Input:

Message: ReadJobLog

Elements:

Field	Туре	Description
Jobld	string	The unique identifier for the job.

Output:

Message: ReadJobLogResponse

Elements:

Field	Туре	Description
JobLog	string	Contains the log from the job.

ReadJobStatus Operation

Description: Retrieves the status of an asynchronous job initiated by P6 EPPM Web Services or the Integration API.

Service: Job Service (on page 516)

Style: Document/literal wrapped

Input:

Message: ReadJobStatus

Elements:

Field	Туре	Description
Jobld	string	The unique identifier for the job.

Output:

Message: ReadJobStatusResponse Elements:

Field	Туре	Description
JobStatus	JobStatusType JobStatusType string restricted to 'Pending' 'Running' 'Complete' 'Failed' 'Cancelled' 'Completed With Errors'	Specifies the status of the job.

RecalculateAssignmentCosts Operation

Description: Asynchronously updates the resource and role assignment costs for the activities in the specified project.

Service: Job Service (on page 516)

Style: Document/literal wrapped

Input:

Message: RecalculateAssignmentCosts Elements:

Field	Туре	Description
ProjectObjectId	int	The unique ID of the associated project.
SynchronizeOvertim eFactor	boolean	Flag that indicates that the overtime factor for the resource should be included when recalculating cost
Timeout	int	The amount of time in seconds that the server side will wait for the job service to complete before it returns with the current job status. The Timeout parameter is optional. When this operation is used without specifying a Timeout parameter or with a Timeout of 0, the server immediately returns without waiting for the job service to complete.

Output:

Message: RecalculateAssignmentCostsResponse Elements:

Field	Type	Description
Jobld	string	Specifies the unique identifier for the job.
JobStatus	JobStatusType JobStatusType string	Specifies the status of the job.

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Schedule Operation

Description: Asynchronously schedules a project.

Service: Job Service (on page 516)

Style: Document/literal wrapped

Input:

Message: Schedule Elements:

Field	Туре	Description
ProjectObjectId	int	The unique identifier of the project.
NewDataDate	dateTime	The new data date.
Timeout	int	The amount of time in seconds that the server side will wait for the job service to complete before it returns with the current job status. The Timeout parameter is optional. When you use this operation without specifying a Timeout parameter or with a Timeout of 0, the server immediately returns without waiting for the job service to complete.

Output:

Message: ScheduleResponse Elements:

Field	Type	Description
Jobld	string	The unique identifier of the job.
JobStatus	JobStatusType JobStatusType string restricted to 'Pending' 'Running' 'Complete' 'Failed' 'Cancelled' 'Completed With Errors'	Specifies the status of the job.

ScheduleCheck Operation

Description: Starts the Check Schedule job service on a project.

Service: Job Service (on page 516)

Style: Document/literal wrapped

Input:

Message: ScheduleCheck Elements:

Field	Туре	Description
ProjectObjectId	int	The unique identifier of the project in P6.
Timeout	int	The amount of time in seconds that the server side will wait for the job service to complete before it returns with the current job status. The Timeout parameter is optional. When this operation is used without specifying a Timeout parameter or with a Timeout of 0, the server immediately returns without

waiting for the job service to complete.

Output:

Message: ScheduleCheckResponse Elements:

Field	Type	Description
Jobld	string	The unique identifier of the job.
JobStatus	JobStatusType JobStatusType string restricted to 'Pending' 'Running' 'Complete' 'Failed' 'Cancelled' 'Completed With Errors'	Specifies the status of the job.

StorePeriodPerformance Operation

Description: Asynchronously stores period performance for a single project.

Service: Job Service (on page 516)

Style: Document/literal wrapped

Input:

Message: StorePeriodPerformance Elements:

Field	Туре	Description
ProjectObjectId	int	The unique identifier of the associated project.
FinancialPeriodObj ectId	int	The unique identifier of the associated financial period.
Timeout	int	The amount of time in seconds that the server side will wait for the job service to complete before it returns with the current job status. The Timeout parameter is optional. When you use this operation without specifying a Timeout parameter or with a Timeout of 0, the server immediately returns without waiting for the job service to complete.

Output:

Message: StorePeriodPerformanceResponse Elements:

Field	Type	Description
Jobld	string	The unique identifier of the job.
JobStatus	JobStatusType JobStatusType string restricted to 'Pending' 'Running' 'Complete' 'Failed' 'Cancelled' 'Completed With Errors'	Specifies the status of the job.

SummarizeCBS Operation

Description: Summarizes CBS for a project.

Service: Job Service (on page 516)

Style: Document/literal wrapped Input:

Message: SummarizeCBS Elements:

Field	Туре	Description
ProjectObjectId	int	The unique identifier of the project that you want to send to Primavera Unifier.
Timeout	int	The amount of time in seconds that the server side will wait for the job service to complete before it returns with the current job status. The Timeout parameter is optional. When this operation is used without specifying a Timeout parameter or with a Timeout of 0, the server immediately returns without waiting for the job service to complete.

Output:

Message: SummarizeCBSResponse Elements:

Field	Type	Description
Jobld	string	The unique identifier of the job.
JobStatus	JobStatusType JobStatusType string restricted to 'Pending' 'Running' 'Complete' 'Failed'	Specifies the status of the job.

'Con	ncelled' npleted Errors'		

SummarizeEPS Operation

Description: Asynchronously summarizes an EPS node.

Service: Job Service (on page 516)

Style: Document/literal wrapped Input:

Message: SummarizeEPS Elements:

Field	Туре	Description
ObjectId	int	The unique identifier of the EPS you want to summarize.
Timeout	int	The amount of time in seconds that the server side will wait for the job service to complete before it returns with the current job status. The Timeout parameter is optional. When you use this operation without specifying a Timeout parameter or with a Timeout of 0, the server immediately returns without waiting for the job service to complete.

Output:

Message: SummarizeEPSResponse Elements:

Field	Туре	Description
JobId	string	The unique identifier of the job.
JobStatus	JobStatusType	Specifies the status of the job.

	JobStatusType string restricted to 'Pending' 'Running' 'Complete' 'Failed' 'Cancelled' 'Completed With Errors'		
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SummarizeProject Operation

Description: Asynchronously summarizes a project.

Service: Job Service (on page 516)

Style: Document/literal wrapped

Input:

Message: SummarizeProject Elements:

Field	Туре	Description	
ObjectId	int	The unique identifier of the project you want to summarize.	
Timeout	int	The amount of time in seconds that the server side will wait for the job service to complete before it returns with the current job status. The Timeout parameter is optional. When this operation is used without specifying a Timeout parameter or with a Timeout of 0, the server immediately returns without waiting for the job service to complete.	

Output:

Message: SummarizeProjectResponse Elements:

Field	Type	Description
Jobld	string	The unique identifier of the job.
JobStatus	JobStatusType JobStatusType string restricted to 'Pending' 'Running' 'Complete' 'Failed' 'Cancelled' 'Completed With Errors'	Specifies the status of the job.

SendToUnifier Operation

Description: Asynchronously summarizes a project.

Service: Job Service (on page 516)

Style: Document/literal wrapped

Input:

Message: SendToUnifier Elements:

Field	Туре	Description
ProjectObjectId	int	The unique identifier of the project that you want to send to Primavera Unifier.
Timeout	int	The amount of time in seconds that the server side will wait for the job service to complete before it returns with the current job status. The Timeout parameter is optional. When this operation is used without specifying a Timeout parameter or with a

	Timeout of 0, the server immediately returns without
	waiting for the job service to complete.

Output:

Message: SendToUnifierResponse Elements:

Field	Type	Description		
Jobld	string	The unique identifier of the job.		
JobStatus	JobStatusType JobStatusType string restricted to 'Pending' 'Running' 'Complete' 'Failed' 'Cancelled' 'Completed With Errors'	Specifies the status of the job.		

JobService Service

Operations:

CreateJobServices Operation (on page 536) ReadJobServices Operation (on page 536) UpdateJobServices Operation (on page 537) DeleteJobServices Operation (on page 537) GetFieldLengthJobService Operation (on page 538)

WSDL: JobService.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/JobService/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/JobService?wsdl https://<hostname>:<port number>/p6ws/services/JobService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.jobservice.JobService

Description:

You can import the byte array and data for the following job types:

- Schedule
- Summarize
- Apply Actuals
- Store Period Performance
- Sync Actual This Period
- Level
- Recalculate Assignment Costs
- Send To Unifier
- Update Baseline
- Import Project
- ScheduleCheck
- ExportCheck

CreateJobServices Operation

Description: Creates multiple JobService objects in the database. You can create up to 1000 JobService objects with a single call.

Service: JobService Service (on page 535)

Style: Document/literal wrapped

Input:

Message: CreateJobServices

Elements: One to many field names from the JobService Fields (on page 538) field list.

Required: JobType

Output:

Message: CreateJobServicesResponse

Output: Zero to many JobService elements that contain JobService fields.

ReadJobServices Operation

Description: Reads multiple JobService objects in the database.

Service: JobService Service (on page 535)

Style: Document/literal wrapped

Input:

Message: ReadJobServices

Elements: One to many field names from the **JobService Fields** (on page 538) field list. You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadJobServicesResponse

Output: Zero to many JobService elements that contain JobService fields.

UpdateJobServices Operation

Description: Updates JobService objects from the database.You can update up to 1000 JobService objects with a single call.

Service: JobService Service (on page 535)

Style: Document/literal wrapped

Input:

Message: UpdateJobServices

Elements: One to many fields from the JobService Fields (on page 538) field list

Output:

Message: UpdateJobServicesResponses Output: boolean

DeleteJobServices Operation

Description: Deletes JobService objects from the database. You can delete up to 1000 JobService objects with a single call.

Service: JobService Service (on page 535)

Style: Document/literal wrapped

Input:

Message: DeleteJobServices

Elements: One to many fields from the JobService Fields (on page 538) field list

Output:

Message: DeleteJobServicesResponses Output: boolean

GetFieldLengthJobService Operation

Description: Gets an array of project IDs that are contained in the project portfolios.

Service: JobService Service (on page 535)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthJobService Elements: FieldLength

Output:

Message: GetFieldLengthJobServiceResponse Elements: One to many FieldLengthJobServices.

JobService Fields

Field	Туре	Read Only	Filterable Orderable	Descriptions
ExportFilePath	string			Exported file path.
FileName	string		х	Exported File Name.
ImportXMLByte	string		х	Import byte array
JobData	string		х	The job data for the job service.
JobDataX	string		х	The job data X for the job service.
JobRecurringTy pe	string restricted to 'Enabled' 'Disabled' 'WeASAP' 'None'		x	JobRecurringType for job service

JobStatus	enum restricted to 'Pending' 'Running' 'Complete' 'Failed' 'Cancelled' 'Delegated' 'Completed With Errors'	X	X	The status of the job.
JobType	enum restricted to 'Schedule' 'Summarize' 'Apply Actuals' 'Store Period Performance' 'Sync Actual This Period' 'Level' 'Recalculate Assignment Costs' 'Send To Unifier' 'Update Baseline' 'Import Project' 'Schedule Check' 'Export Project' 'Preview Update Baseline Service' 'Project CBS Service' 'Copy Project Service'		X	The type of the job service.
JobTypeKey	string		X	Project ObjectId to be used by job.
LastRunDate	dateTime		Х	LastRunDate for job service.

Name	string restricted to maxLength(100)	X	The name of the job service.
ObjectId	int	X	The unique ID generated by the system.
ProjectInfo	string		The source Project ID to copy. Maximum 4000 characters.
TargetWbsId	int		The target WBS ID under which the newly copied project will be placed.
Userld	int	Х	The ID of the user that ran a job service.

ScheduleCheckOption Service

Operations:

CreateScheduleCheckOptions Operation (on page 541) ReadScheduleCheckOptions Operation (on page 541) UpdateScheduleCheckOptions Operation (on page 541) DeleteScheduleCheckOptions Operation (on page 542) GetFieldLengthScheduleCheckOption Operation (on page 542)

WSDL: SchedleCheckOption.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/ScheduleCheckOption/V1 Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/ScheduleCheckOptionService?wsdl https://<hostname>:<port number>/p6ws/services/ScheduleCheckOptionService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.userfieldtitle.ScheduleCheckOptionService

Description

View potential issues in a schedule. For example, the report might identify missing logic or a large number of constraints in the schedule.

CreateScheduleCheckOptions Operation

Description: Creates multiple ScheduleCheckOptions objects in the database. You can create up to 1000 ScheduleCheckOptions objects with a single call.

Service: ScheduleCheckOption Service (on page 540)

Style: Document/literal wrapped

Input:

Message: Response

Elements: ScheduleCheckOption elements that contain ScheduleCheckOption Fields fields

Required fields: The following fields are required when creating the ScheduleCheckOption object:

ProjectId

Output:

Message: CreateScheduleCheckOptionsResponse Output: Zero to many ObjectId elements

ReadScheduleCheckOptions Operation

Description: Reads ScheduleCheckOption objects from the database.

Service: ScheduleCheckOption Service (on page 540)

Style: Document/literal wrapped

Input:

Message:

Elements: One to many field names from the ScheduleCheckOption Fields field list. You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause.

Output:

Message: ReadScheduleCheckOptionsResponse Output: Zero to many ScheduleCheckOption elements that contain ScheduleCheckOption Fields fields.

UpdateScheduleCheckOptions Operation

Description: Updates multiple ScheduleCheckOption objects in the database. You can update up to 1000 ScheduleCheckObject objects with a single call.

Service: ScheduleCheckOption Service (on page 540)

Style: Document/literal wrapped

Input:

Message: UpdateScheduleCheckOptions

Elements: ScheduleCheckOption elements that contain ScheduleCheckOption Fields fields. Required fields: The ObjectId must be specified.

Output:

Message: UpdateScheduleCheckOptionsResponse Output: boolean

DeleteScheduleCheckOptions Operation

Description: Deletes multiple ScheduleCheckOption objects in the database. You can delete up to 1000 ScheduleCheckOption objects with a single call.

Service: ScheduleCheckOption Service (on page 540)

Style: Document/literal wrapped

Input:

Message: DeleteScheduleCheckOptions Elements: One to many ObjectId elements

Output:

Message: DeleteScheduleCheckOptionsResponse Output: boolean

GetFieldLengthScheduleCheckOption Operation

Description: Gets an array of project IDs that are contained in the project portfolios.

Service: ScheduleCheckOption Service (on page 540)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthScheduleCheckOption

Elements: FieldLength

Output:

Message: GetFieldLengthScheduleCheckOptionResponse Elements: One to many FieldLengthScheduleCheckOptions.

ScheduleCheckOption Fields

Field	Туре	Read Only	Filterab le Ordera ble	Description
BEITripwireTarget	double restricted to minInclusive(0.0) maxInclusive(1.0)			The baseline execution index.
CheckBEITripwire	boolean			The baseline execution index.
CheckHardConstr aints	boolean			Checks for the constraints that prevent activities from being moved.
CheckInvalidProgr ess	boolean			Checks for activities that have invalid progress dates.
CheckLags	boolean			Checks for relationships that have a positive lag duration.
CheckLargeDurati ons	boolean			Checks for activities that have a remaining duration that is greater than the specified LargeDurationCriteria value
CheckLargeFloat	boolean			Checks for activities that have a float value greater than the specified LargeFloatCriteria value.
CheckLateActiviti es	boolean			Checks for activities that are scheduled to finish later than the project baseline.
CheckLogic	boolean			Checks for activities with missing predecessors or successors.

CheckLongLags	boolean	Checks for relationships that have a lag duration that is greater than the specified LongLagsCriteria value.
CheckNegativeFlo at	boolean	Checks for activities that have a total float less than 0.
CheckNegativeLa gs	boolean	Checks for relationships that have a lag duration less than 0.
CheckRelationShi ps	boolean	Checks for the relationships that are set
CheckResources	boolean	Checks for activities that do not have an expense or an assigned resource.
CheckSoftConstra ints	boolean	Checks for constraints that do not prevent activities from being moved.
HardConstraintTa rget	int restricted to minInclusive(0) maxInclusinv e(100)	Checks for constraints that prevent activities from being moved.
LagsTarget	int restricted to minInclusive(0) maxInclusinv e(100)	Relationships that have a positive lag duration.
LargeDurationCrit eria	int restricted to minInclusive(0) maxInclusinv e(214748364 7)	The value of the Large Duration Criteria.

LargeDurationTar get	int restricted to minInclusive(0) maxInclusinv e(100)	Activities that have a remaining duration greater than the Large Duration Criteria.
LargeFloatCriteria	int restricted to minInclusive(0) maxInclusinv e(214748364 7)	The value of the Large Float Criteria.
LargeFloatTarget	int restricted to minInclusive(0) maxInclusinv e(100)	Activities that have a total float greater than the Large Float Criteria.
LateActivitiesTarg et	int restricted to minInclusive(0) maxInclusinv e(100)	Activities that are scheduled to finish later than the project baseline.
LogicTarget	int restricted to minInclusive(0) maxInclusinv e(100)	Activities that are missing predecessors or successors.
LongLagsCriteria	int restricted to minInclusive(0) maxInclusinv e(214748364 7)	The value of the Long Lags Criteria.

LongLagsTarget	int restricted to minInclusive(0) maxInclusinv e(100)			Relationships that have a lag duration greater than the Long Lags Criteria.
NegativeFloatTar get	int restricted to minInclusive(0) maxInclusinv e(100)			Activities that have a total float less than 0.
NegativeLagsTarg et	int restricted to minInclusive(0) maxInclusinv e(100)			Relationships that have a lag duration less than 0.
ProgressDateTarg et	int restricted to minInclusive(0) maxInclusinv e(100)			Activities that have invalid progress dates.
ProjPropTypeInt	int			The enum values that are associated with the Project Property Type.
ProjectObjectId	int	x	х	The unique identifier of the project which has a schedule you want to check.
PropValue	string			The Project Property Type value.
RelationshipTarge t	int restricted to minInclusive(0) maxInclusinv e(100)			The relationships that are finish to start.

ResourcesTarget	int restricted to minInclusive(0) maxInclusinv e(100)		Activities that do not have an expense or an assigned resource.
ScheduleCheckD ata	string		The ScheduleCheck data.
ScheduleCheckO ptionsId	int		The unique id for ScheduleCheckOptions.
SoftConstraintTar get	int restricted to minInclusive(0) maxInclusinv e(100)		Constraints that do not prevent activities from being moved.

Import Service

Operations:

CreateNewProject Operation (on page 548) ImportProjectAsyncASAP Operation (on page 553) ImportProjects Operation (on page 557) UpdateExistingProject Operation (on page 562)

WSDL: Import.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/WSImport/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/ImportService?wsdl https://<hostname>:<port number>/p6ws/services/ImportService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.import.ImportService

Description:

This service lets you import one or more projects from XML. The CreateProject operation imports one project from XML, and the ImportProjects operation imports one or more projects from XML. For each project, the import includes the project and all related business objects supported by the importer and in use in the project. For example, the project's activities, resource assignments, and associated resources are included.

The Import service uses MTOM (Message Transmission Optimization Mechanism) to send the input files as attachments.

The schema of the input file is contained in the p6apibo.xsd file located in P6 EPPM Web Services' schema folder and is the same schema used by the P6 Integration API's XMLImporter.

Each business object in the XML file must contain an ObjectId field, which is a unique identifier for the object corresponding most of the time to the primary key in the database. This ObjectId field will not be imported as it is. Instead, it is replaced by a new value to guarantee that it does not conflict with any existing objects in the database. The ObjectId field in the XML file is needed for when an object is referenced by other business objects in the same file. For example, ResourceAssignment has a field named ResourceObjectId that references an Resource with ObjectId field of the same value. If this foreign key reference is not resolved successfully (the Resource with the same ObjectId could not be found in the file), the importer either skips this field if the field is nullable, or will not import the object at all.

When you export from Primavera P6, database keys in the export file are only used by the importer for referential integrity, not for matching records in the database. You are responsible for ensuring the referential integrity of the XML file that you use with the Import Service.

The Import service will import all global objects before project-specific objects. The service imports one kind of object at one time according to a predetermined order. For example, resource will be imported before ResourceAssignment since ResourceAssignment has a reference to Resource. For project-specific objects, the service imports one project at a time.

For each kind of business object, there is a set of fields called "required fields" that you must set when directly creating an object. For information about which fields are required for any business object that has a create operation, refer to the "required fields" section corresponding to that business object's create operation in this manual.

Note: The import services is implemented using MTOM (Message Transmission Optimization Mechanism) for sending files as attachments.

CreateNewProject Operation

Description: Imports a new project from an XML file. The new project is created under the EPS specified by the EPSObjectId.

Service: Import Service (on page 547)

Style: Document/literal wrapped

Input:

Message: CreateNewProject

Elements: CreateNewProject elements that contain the following elements:

Field	Туре	Description
DefaultGlobalImportOption	ImportOption string restricted to Create New Do Not Import Keep Existing Update Existing	Import options that may be applied to projects globally.
DefaultProjectSpecificImportOptio n	ImportOption string restricted to Create New Do Not Import Keep Existing Update Existing	Import options that may be applied to specific projects.
EPSObjectId	int	Specifies the ID of the Enterprise Project Structure location where the project will be created.
FileType	FileType string restricted to GZIP XML ZIP	Specifies the file type that the system imports.
IgnoreGUID	boolean	When this flag is set to true, the XMLImporter

		ignores all GUID fields in the XML file, and allows new GUID values to be generated. When this flag is set to false, the XMLImporter uses the GUID fields.
IgnoreSequenceNumber	boolean	When this flag is set to true, the XMLImporter ignores all SequenceNu mber fields in the XML file, and allows new SequenceNu mber values to be generated. When this flag is set to false, XMLImporter uses the SequenceNu mber fields.
LogLevel	LogLevel string restricted to SEVERE WARNING INFO CONFIG FINE FINER FINER FINEST	

ProjectData	base64Binary	This element contains a reference to the data that is outside the SOAP message in compliance with MTOM specification.
BusinessObjectOptions	BusinessObjectOptions Global ActivityCode ActivityCodeType ActivityCodeTypeEPS Calendar CalendarRsrc CostAccount Currency ExpenseCategory FinancialPeriod FundingSource NotebookTopic OBS ProjectCode ProjectCodeType ProjectResourceCategory Resource ResourceCode Res	Specifies which business objects to import according to the following rules: If no BusinessObj ectOptions are specified, then all of the business objects in the project are imported. If any BusinessObj ectOptions are specified, then only those business objects specified by the BusinessObj ectOptions are

 Role RoleRate RoleLimit Shift ThresholdParameter UDFCode UDFType UnitOfMeasure WBSCategory 	
ProjectSpecific	
ProjectSpecific Activity ActivityCode ActivityCodeType ActivityExpense ActivityPeriodActual ActivityPeriodActual ActivityRisk ActivityRisk ActivityStep Calendar ExtRelationship ProjectBudgetChangeLog ProjectFunding ProjectIssue ProjectIssue ProjectResource ProjectResource ProjectResource ProjectSpendingPlan ProjectThreshold Relationship ResourceAssignment	
Risk	
 RiskImpact RiskResponseAction 	
 RiskResponseAction RiskResponseActionImpact 	
 RiskResponsePlan 	
> WBS	
WBS WBSMilestone	

Message: CreateNewProjectResponse Elements:

Field	Туре	Description
LogFile	base64Binary	Contains the logging information from the CreateNewProject operation.
ErrorMessage	string	If an exception is thrown, ErrorMessage contains the message part of the exception.
ProjectObjectId	int	The unique identifier of the project that was created by the CreateNewProject operation.
Success	boolean	Boolean flag that indicates whether the CreateNewProject operation was successful.

ImportProjectAsyncASAP Operation

Description: Imports one or more new projects from an XML file asynchronously as a job. Each new project is created under the EPS specified by the EPSObjectId. When you call the ImportProjects operation, you specify one or more ImportProject elements. Each of these elements contain information about the project you are importing.

Service: Import Service (on page 547)

Style: Document/literal wrapped

Input:

Message: ImportProjectAsyncASAP Elements: ImportProjectAsyncASAP elements that contain the following elements:

Field	Туре	Description
CurrenciesImportIn Option	string restricted to baserate xmlrate	Specifies whether to use the currency exchange rate in the database or the currency exchange rate in the xml for import. Selecting the baserate option, will cause costs in the xml file to be converted using the currency exchange rates to ensure that the costs imported are the same as those which were exported. Selecting the xml option will not convert currencies so the costs imported may differ from those which were exported.
ImportProject	ImportProject	
ImportType	string	
ImportTemplateNa me	string	
PreImportCustomiz ationTemplateNam e	string	
	FileType	
FileType	string restricted to GZIP XML ZIP	Specifies the file type that the system supports.
IgnoreGUID	boolean	When this flag is set to true, the XMLImporter ignores all GUID fields in the XML file, and allows new GUID values to be generated. When this flag is set to false, the XMLImporter uses the GUID fields.

IgnoreSequenceNu mber	boolean	When this flag is set to true, the XMLImporter ignores all SequenceNumber fields in the XML file, and allows new SequenceNumber values to be generated. When this flag is set to false, XMLImporter uses the SequenceNumber fields.
LogLevel	LogLevel	
ProjectData	base64Binary	This element contains a reference to the data that is outside the SOAP message in compliance with MTOM specification.

ĺ				7
		BusinessObjectOptions		
		Global		
		ActivityCode		
		 ActivityCodeType 		
		 ActivityCodeTypeEPS 		
		Calendar		
		CalendarRsrc		
		CostAccount		
		Currency		
		ExpenseCategory		
		FinancialPeriod		
		FundingSource		
		NotebookTopic		
		▶ OBS		
		ProjectCode		
		ProjectCodeType		
		ProjectResourceCategory		
		Resource		
		ResourceCode		
		ResourceCodeType		
		ResourceCurve		
		ResourceRate		
		ResourceRole		
		 RiskCategory 		
		RiskMatrixScore		
		RiskMatrixThreshold		
		RiskMatrix		
		 RiskThreshold Dial Threshold 	Specifies which business	
		RiskThresholdLevel	objects to import according	
		Role	to the following rules:	
		 RoleRate RoleLimit 	If no	
		RoleLimitShift	BusinessObjectOptions are specified, then all of the	
	BusinessObjectOpt	 ThresholdParameter 	business objects in the	
	ions	 UDFCode 	project are imported. If any	
		UDFType	BusinessObjectOptions are	
		 UnitOfMeasure 	specified, then only those	
		 WBSCategory 	business objects specified by the	
		ProjectSpecific	BusinessObjectOptions	
			element are imported.	
		 Activity ActivityCode 		
		ActivityCode ActivityCodeType		
		 ActivityCodeType ActivityExpense 		
		ActivityExpense ActivityNote		
55	6	 ActivityPeriodActual 		
		 ActivityRisk 		

Message: ImportProjectAsyncASAPResponse Elements:

Field	Туре	Description
ErrorMessage	string	If an exception is thrown, ErrorMessage contains the message part of the exception.
ProjectObjectId	int	The unique identifier of the project that was created or updated by the ImportProjectAsyncASAP operation. If multiple objects are created, a list of project object IDs is returned.
Success	boolean	Boolean flag that indicates whether the ImportProjectAsyncASAP operation was successful.
SuccessMessa ge	string	The message returned if the ImportProjectAsyncASAP operation was successful.

ImportProjects Operation

Description: Imports one or more new projects from an XML file. Each new project is created under the EPS specified by the EPSObjectId. When you call the ImportProjects operation, you specify one or more ImportProject elements. Each of these elements contain information about the project you are importing.

Service: Import Service (on page 547)

Style: Document/literal wrapped

Input:

Message: ImportProjects

Elements: ImportProjects elements that contain the following elements:

Field	Туре	Description
CurrenciesImporIn Option	string restricted to baserate xmlrate	Specifies whether to use the currency exchange rate in the database or the currency exchange rate in the xml for import. Selecting the baserate option, will cause costs in the xml file to be converted using the currency exchange rates to ensure that the costs imported are the same as those which were exported. Selecting the xml option will not convert currencies so the costs imported may differ from those which were exported.
ImportProject	ImportProject. See ImportProject Type table below.	
ProjectData	base64Binary	This element contains a reference to the data that is outside the SOAP message in compliance with MTOM specification.
FileType	FileType string restricted to GZIP XML ZIP	Specifies the file type that the system imports.

			ł
	BusinessObjectOptions		
	Global		
	 ActivityCode ActivityCodeType ActivityCodeTypeEPS Calendar CalendarRsrc CostAccount Currency ExpenseCategory FinancialPeriod FundingSource NotebookTopic OBS ProjectCode ProjectCodeType ProjectResourceCategory 		
	 Resource ResourceCode ResourceCodeType ResourceCurve ResourceRate ResourceRole RiskCategory RiskMatrixScore RiskMatrixThreshold RiskMatrix RiskThreshold Did The body 	Specifies which business objects to import according	
BusinessObjectOpt ions	 RiskThresholdLevel Role RoleRate RoleLimit Shift ThresholdParameter UDFCode UDFType UnitOfMeasure WBSCategory 	to the following rules: If no BusinessObjectOptions are specified, then all of the business objects in the project are imported. If any BusinessObjectOptions are specified, then only those business objects specified by the	
	ProjectSpecific Activity ActivityCode ActivityCodeType ActivityExpense	BusinessObjectOptions element are imported.	
	 ActivityDote ActivityPeriodActual ActivityPiok 	55	S

IgnoreGUID	boolean	When this flag is set to true, the XMLImporter ignores all GUID fields in the XML file, and allows new GUID values to be generated. When this flag is set to false, the XMLImporter uses the GUID fields.
IgnoreSequenceNu mber	boolean	When this flag is set to true, the XMLImporter ignores all SequenceNumber fields in the XML file, and allows new SequenceNumber values to be generated. When this flag is set to false, XMLImporter uses the SequenceNumber fields.
LogLevel	LogLevel string restricted to SEVERE WARNING INFO CONFIG FINE FINER FINER FINEST	
DefaultGlobalImpor tOption	ImportOption string restricted to Create New Do Not Import Keep Existing Update Existing	Import options that may be applied to projects globally.
DefaultProjectSpec ificImportOption	ImportOption string restricted to	Import options that may be applied to specific projects.

Create New Do Not Import Keep Existing Update Existing	

ImportProject Type Table

Field	Туре	Description
ProjectObjectId	int	Specifies the Project Id to be imported.
ImportOption	ImportOption string restricted to Create New Update Existing	Specify Create New to import a project that already exists as a new project; specify Update Existing to import a project to update an existing project.
ESPObjectId	int	If the ImportOption is Update Existing, then specifies the Project ID; if the ImportOption is Create New, then specifies the EPS ID.

Output:

Message: ImportProjectsResponse Elements:

Field	Туре	Description
LogFile	base64Binary	Contains the logging information from the ImportProjects operation.
ErrorMessage	string	If an exception is thrown, ErrorMessage contains the message part of the exception.
Success	boolean	Boolean flag that indicates whether the ImportProjects operation was successful.
ProjectObjectId	int	The unique identifier of the project that was created or updated by the ImportProjects operation. If multiple objects are created, a list of project object IDs is returned.

UpdateExistingProject Operation

Description: Updates the Project that is specified by the ProjectObjectId with data from an XML file.

Service: Import Service (on page 547)

Style: Document/literal wrapped

Input:

Message: UpdateExistingProject Elements:

Field	Туре	Description
DefaultGloball mportOption	ImportOption string restricted to Create New Do Not Import Keep Existing Update Existing	Import options that may be applied to projects globally.
DefaultProjectS pecificImportOp tion	ImportOption string restricted to Create New Do Not Import Keep Existing Update Existing	Import options that may be applied to specific projects.
ProjectObjectId	int	Unique Id of associated project.
FileType	FileType string restricted to GZIP	Specifies the file type that the system imports.

	XML ZIP	
IgnoreGUID	boolean	When this flag is set to true, the XMLImporter ignores all GUID fields in the XML file, and allows new GUID values to be generated. When this flag is set to false, the XMLImporter uses the GUID fields.
IgnoreSequenc eNumber	boolean	When this flag is set to true, the XMLImporter ignores all SequenceNumber fields in the XML file, and allows new SequenceNumber values to be generated. When this flag is set to false, XMLImporter uses the SequenceNumber fields.
LogLevel	LogLevel string restricted to SEVERE WARNING INFO CONFIG FINE FINER FINER FINEST	
ProjectData	base64Binary	This element contains a reference to the data that is outside the SOAP message in compliance with MTOM specification.
BusinessObject Options	BusinessObjectOptions Global ActivityCode ActivityCodeType ActivityCodeTypeEP S Calendar CalendarRsrc CostAccount Currency	Specifies which business objects to import according to the following rules: If no BusinessObjectOptions are specified, then all of the business objects in the project are imported. If any BusinessObjectOptions are specified, then only those business objects specified by the BusinessObjectOptions element are imported.

•	ExpenseCategory	
•	FinancialPeriod	
•	FundingSource	
•	NotebookTopic	
•	OBS	
•	ProjectCode	
•	ProjectCodeType	
•	ProjectResourceCat	
	egory	
•	Resource	
•	ResourceCode	
•	ResourceCodeType	
•	ResourceCurve	
•	ResourceRate	
•	ResourceRole	
•	RiskCategory	
•	RiskMatrixScore	
•	RiskMatrixThreshold	
•	RiskMatrix	
•	RiskThreshold	
•	RiskThresholdLevel	
•	Role	
•	RoleRate	
•	RoleLimit	
•	Shift	
•	ThresholdParameter	
•	UDFCode	
•	UDFType	
•	UnitOfMeasure	
•	WBSCategory	
Pro	ojectSpecific	
	Activity	
	ActivityCode	
	ActivityCodeType	
	ActivityExpense	
	ActivityNote	
	ActivityPeriodActual	
	ActivityRisk	
	ActivityStep	
	Calendar	
	ExtRelationship	
	ProjectBudgetChang	
	rojecibuuyeichany	

eLog
ProjectFunding
ProjectIssue
ProjectNote
ProjectResource
ProjectResourceQua
ntity
ProjectSpendingPlan
ProjectThreshold
Relationship
ResourceAssignmen
t
ResourceAssignmen
tPeriodActual
Risk
RiskImpact
RiskResponseAction
RiskResponseAction
Impact
RiskResponsePlan
▶ WBS
WBSMilestone

Message: UpdateExistingProjectResponse Elements:

Field	Туре	Description
LogFile	base64Binary	Contains the logging information from the UpdateExistingProject operation.
ErrorMessage	string	If an exception is thrown, ErrorMessage contains the message part of the exception.
Success	boolean	Boolean flag that indicates whether the UpdateExistingProject operation was successful.

ImportOptionsTemplate Service

Operations:

ReadImportOptionsTemplates Operation (on page 566) getFieldLengthImportOptionsTemplate Operation (on page 567)

WSDL: ImportOptionsTemplate.wsdl

Primary Key Field: ImportTemplateId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/ImportOptionsTemplate/V1 Default Transport URLs:

http://<hostname>:<port number>/p6/ws/services/ImportOptionsTemplateService?wsdl https://<hostname>:<port number>/p6/ws/services/ImportOptionsTemplateService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.import.ImportOptionsTemplateService

Description:

Import options templates

ReadImportOptionsTemplates Operation

Service: ImportOptionsTemplate Service (on page 566)

Style: Document/literal wrapped

Input:

Message: ReadImportOptionsTemplates Elements: ReadImportOptionsTemplates elements that contain the following elements:

Field	Туре	Description
Field	ImportOptionsTemplateFi eldType	The fields in the template
Filter	string	The filters in the template
OrderBy	string	The order in which the data is organized in the template.

Output:

Message: ReadImportOptionsTemplatesResponse Elements:

Field	Туре	Description
Field	string	The fields in the template.

getFieldLengthImportOptionsTemplate Operation

Service: ImportOptionsTemplate Service (on page 566)

Style: Document/literal wrapped

Input:

Message: getFieldLengthImportOptionsTemplate

Elements: getFieldLengthImportOptionsTemplate elements that contain the following elements:

Field	Туре	Description
Field	string	The field in the template.

Output:

Message: ReadImportOptionsTemplatesResponse Elements:

Field	Туре	Description
Return	int	The length of the field in the template.

ImportOptionsTemplate Fields					
Field	Туре	Read Only	Filterab le Ordera ble	Description	
ImportTemplateId	ObjectId	х	х	The unique ID generated by the system.	
ImportOptionsTe mplateName	String	x	x	The name of the template.	
ViewData	String	x		The content of the template.	
ImportOptionsTe mplateType	String	x	x	The content of the template.	

MSPTemplate Service

Operations:

ReadMSPTemplates Operation (on page 569) *getFieldLengthMSPTemplate Operation* (on page 569)

WSDL: MSPTemplate.wsdl

Primary Key Field: MSPTemplateId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/MSPTemplate/V1

Default Transport URLs:

http://<hostname>:<port number>/p6/ws/services/MSPTemplateService?wsdl https://<hostname>:<port number>/p6/ws/services/MSPTemplateService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.import.MSPTemplateService

Description:

Import options templates.

ReadMSPTemplates Operation

Service: MSPTemplate Service (on page 568)

Style: Document/literal wrapped

Input:

Message: ReadMSPTemplates

Elements: ReadMSPTemplates elements that contain the following elements:

Field	Туре	Description
Field	MSPTemplateFieldType	The fields in the MSP template.
Filter	string	The filters in the MSP template.
OrderBy	string	The OrderBy clause used in the MSP template.

Output:

Message: ReadMSPTemplatesResponse Elements: One or more MSP templates

Field	Туре	Description
MSPTemplate	MSPTemplate	One or more MSP Templates.

getFieldLengthMSPTemplate Operation

Service: MSPTemplate Service (on page 568)

Style: Document/literal wrapped

Input:

Message: getFieldLengthMSPTemplate Elements: getFieldLengthMSPTemplate elements that contain the following elements:

Field	Туре	Description
Field	string	The field in the template.

Message: getFieldLengthMSPTemplateResponse Elements:

Field	Туре	Description
Return		The length of the field in the MSP template.

MSPTemplate Fields

Field	Туре	Read Only	Filterab le Ordera ble	Description
MSPTemplateId	ObjectId	х	х	The unique ID generated by the system.
MSPTemplateNa me	String	x	x	The name of the template.
ViewData	LongString	x		The content of the template.
MSPTemplateTyp e	String	x	x	The content of the template.

Project Services

Project Service

Operations:

CreateProjects Operation (on page 585) **ReadProjects Operation** (on page 591) UpdateProjects Operation (on page 596) DeleteProjects Operation (on page 586) GetFieldLengthProject Operation (on page 586) CopyBaseline Operation (on page 576) CopyProject Operation (on page 577) CopyProjectAsBaseline Operation (on page 579) CopyProjectAsReflection Operation (on page 579) CopyWBSFromTemplate Operation (on page 580) **ConvertProjectToBaseline Operation** (on page 575) CalculateProjectScore Operation (on page 573) CreateCopyAsTemplate Operation (on page 581) CreateProjectFromTemplate Operation (on page 583) **PublishProject Operation** (on page 591) AssignProjectAsBaseline Operation (on page 572) IsProjectLocked Operation (on page 587) UpdateProjectPreferences Operation (on page 592) LoadActivitiesNewerThanBaseline Operation (on page 587) LoadActivityUDFValuesNewerThanBaseline Operation (on page 589) LoadActivityCodesNewerThanBaseline Operation (on page 588) LoadAllResources Operation (on page 590)

WSDL: Project.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/Project/V2

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/ProjectService?wsdl https://<hostname>:<port number>/p6ws/services/ProjectService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.project.ProjectService

Description:

A project is a temporary endeavor undertaken to create a unique product, service, or result. Projects usually contain a work breakdown structure (WBS) and activities.

The Project service supports user defined fields (UDFs) and codes. Use the UDFValue Service to assign UDFs, and the ProjectCodeAssignment Service to assign project codes.

In This Section

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CalculateProjectScore Operation573	3
ConvertProjectToBaseline Operation575	5
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CopyProject Operation	7
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CreateProjectFromTemplate Operation583	
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LoadActivitiesNewerThanBaseline Operation	
LoadActivityCodesNewerThanBaseline Operation	3
LoadActivityUDFValuesNewerThanBaseline Operation	
LoadAllResources Operation	
PublishProject Operation	1
ReadProjects Operation	1
UpdateProjectPreferences Operation	
UpdateProjects Operation	
Project Fields	

AssignProjectAsBaseline Operation

Description: Converts the provided project to a baseline. The project provided as a parameter will become a BaselineProject.

Service: Project Service (on page 571)

Style: Document/literal wrapped

Input:

Message: AssignProjectAsBaseline Elements: ObjectId

Required elements: The following elements are required when creating the Project object:

Field	Туре	Description
OriginalProjectObjectId		The unique identifier of the project that is the project

		baseline.
TargetProjectObjectId	int	The unique identifier of the project to which the newly converted baseline should be assigned.

Message: AssignProjectAsBaselineResponse Elements

Field	Туре	Description
BaselineProjectObjectId	int	The unique identifier of the baseline project. The BaselineProjectObjectId equals the TargetProjectObjectId passed in as an input parameter.

CalculateProjectScore Operation

Description: Calculate the project score of a project specified by the ProjectObjectId based on a selected set of ProjectCodeTypeObjectId's. The Project Score feature helps you evaluate projects by using project codes to identify and quantify characteristics that can be used to determine project rankings. P6 EPPM Web Services uses the weighted project code and code values assigned to a project to calculate its score. To use project scoring features, you create weighted project codes that represent project criteria you want to evaluate, for example, projected sales and risk. You further express the possible attributes associated with these evaluation criteria as weighted project code values, for example, projected sales might be described as either high, medium, or low potential. Finally, you assign the appropriate weighted codes and code value weights are set up by a project controls or system administrator.

Service: Project Service (on page 571)

Style: Document/literal wrapped

Input:

Message: CalculateProjectScore Elements:

Field	Туре	Description
ProjectObjectId	int	The unique identifier of the project to be evaluated.
ProjectCodeTypeObjectId	int	The unique identifier of the ProjectCodeType. You can specify one to many ProjectCodeTypeObjectIds.

Message: CalculateProjectScoreResponse

Elements:

Field	Туре	Description
Score	int	The calculated project score.

Example: Suppose you want to evaluate a portfolio of projects based on two criteria: projected sales in a target market and potential income. You create two codes, one called "Projected Sales" and one called "Potential Income". The relative importance of each criteria in your decision making process can be represented by the Project Code Weight. If Projected Sales is more important to you, you might assign that code a weight of 15 and Potential Income a weight of 5. In turn, each of these criteria (project codes) can be assigned various values which can also be assigned weights. Projected Sales might have values of low (with a weight of 1), medium (with a weight of 3) and high (with a weight of 5). Similarly Potential Income might have four values: low (weight 2), medium (weight 4), high (weight 6), very high (weight 10). The table below summarizes the Codes with their weights and values.

Code	Value	Weight
Projected Sales		15
	Low	1
	Medium	3
	High	5
Potential Income		5
	Low	2
	Medium	4

High	6
Very High	10

The project score is calculated in three steps. To illustrate the process, suppose Project A has a Projected Sales value of Medium and a Potential Income value of High.

1) Determine the maximum possible project score by summing the weight of each code multiplied by the maximum code value weight.

In the example:

- The Projected Sales code has a weight of 15 and the highest possible Code Value is High with a weight of 5.
- The Potential Income code has a weight of 5 and the highest possible Code Value is Very High with a weight of 10.

So the Maximum Project score for Project A is:

Sum(Project Code Weight * maximum Project Code Value Weight)

(Projected Sales weight * High value weight) + (Potential Income code weight * Very High value weight)

(15 * 5) + (5 * 10) = (75) + (50) = 125

- 2) Calculate the score for the project based on the Code Values assigned In the example:
 - The Projected Sales code has a weight of 15 and the project is assigned a Code Value of Medium with a weight of 3.
 - The Potential Income code has a weight of 5 and the project is assigned a Code Value of High with a weight of 6.

So the Project Score for Project A is:

Sum(Project Code Weight * assigned Project Code Value Weight)

(Projected Sales Weight * Medium value weight) + (Potential Income code weight * High value weight)

(15 * 3) + (5 * 6) = (45) + (30) = 75

 Calculate the percentage of the total possible score that is represented by the project's score:

In the example:

(Project score / maximum possible project score) * 100 (75 / 125) * 100 = 60

ConvertProjectToBaseline Operation

Description: Converts the project specified as the OriginalProjectObjectId to a baseline of the project specified as the TargetProjectObjectId.

Service: Project Service (on page 571)

Style: Document/literal wrapped

Input:

Message: ConvertProjectToBaseline Elements:

Field	Туре	Description
TargetProjectObjectId	int	The unique identifier of the project to which the newly converted baseline should be assigned.
OriginalProjectObjectId	int	The unique identifier of the project to be converted into a baseline.

Output:

Message: ConvertProjectToBaselineResponse Elements:

Field	Туре	Description
BaselineProjectObjectId	int	The unique identifier of the baseline project. The BaselineProjectObjectId equals the TargetProjectObjectId passed in as an input parameter.

CopyBaseline Operation

Description: Copies the baseline specified by the BaselineObjectId belonging to a project specified by the ObjectId and updates the ObjectID with the ID of the newly created baseline.

Service: Project Service (on page 571)

Style: Document/literal wrapped

Input:

Message: CopyBaseline

Elements:

Field	Туре	Description
ObjectId	int	The unique identifier of the project which contains the baseline to be copied.
BaselineObjectId	int	The unique identifier of the baseline to copy.

Message: CopyBaselineResponse Elements:

Field	Туре	Description
ObjectId		The unique identifier of the new Baseline.

CopyProject Operation

Description: Copies the project specified by the ObjectId into the EPS specified by the EPSObjectId and updates the ObjectID with the ID of the newly created project.

Service: Project Service (on page 571)

Style: Document/literal wrapped

Input:

Message: CopyProject

Field	Туре	Description
ObjectId	int	The unique identifier of the project you want to copy.
EPSObjectId	int	The unique identifier of the destination EPS that you want the new project to be copied into.
CopyRisks	boolean	Specifies whether risks are to be copied into the new project.
CopyIssuesThresholds	boolean	Specifies whether issues and thresholds are to be copied into the new project.
CopyReports	boolean	Specifies whether reports are to be copied into the new project.
CopyProjectDocuments	boolean	Specifies whether project documents are to be copied into the new project.
CopyFundingSources	boolean	Specifies whether project funding sources are to be copied into the new project.

-	
boolean	Specifies whether summary data is copied into the new project. Summary Data is created by calling the SummarizeProject Operation of the Job service.
boolean	Specifies whether project notes are to be copied into the new project.
boolean	Specifies whether WBS milestones are to be copied into the new project.
boolean	Specifies whether activities are to be copied into the new project.
boolean	Specifies whether high level resource planning is to be copied into the new project.
boolean	Specifies whether resources and role assignments are to be copied into the new project.
boolean	Specifies whether relationships are to be copied into the new project.
boolean	Setting the CopyOnlyBetweenCopiedActivities to true limits the copied relationships to those that are within the project (that is relationships between projects are not copied). This field only has an effect if the CopyRelationships field is set to true.
boolean	Specifies whether activity expenses are to be copied into the new project.
boolean	Specifies whether activity codes are to be copied into the new project.
boolean	Specifies whether activity notes are to be copied into the new project.
boolean	Specifies whether activity steps are to be copied into the new project.
boolean	Specifies whether past period actuals are to be copied into the new project.
	boolean

Message: CopyProjectResponse Elements: ObjectId representing the unique identifier of the new project.

CopyProjectAsBaseline Operation

Description: Creates a baseline by copying the project specified by the ObjectId as a baseline and assigning the newly created baseline to the project specified by the ObjectId, then updating the ObjectID with the ID of the newly created baseline.

Service: Project Service (on page 571)

Style: Document/literal wrapped

Input:

Message: CopyProjectAsBaseline

Elements: Input ObjectId that represents the unique identifier of the Project you want to copy as a baseline. The input objectId will be updated with the output objectId.

Output:

Message: CopyProjectAsBaselineResponse

Elements: ObjectId that represents the unique identifier of the baseline project.

CopyProjectAsReflection Operation

Description: Creates a reflection project from the project specified by the ObjectId and updates the ObjectID with the ID of the newly created reflection. A reflection project is a copy of an active project that can be used for what-if analysis. However, unlike a standard what-if project, a reflection offers the capability to review all changes and specify which, if any, should be merged into the active source project.

Service: Project Service (on page 571)

Style: Document/literal wrapped

Input:

Message: CopyProjectAsReflection

Elements: Input ObjectId that represents the unique identifier of the Project you want to copy as a reflection. The input objectId will be updated with the output objectId.

Output:

Message: CopyProjectAsReflectionResponse

Elements: ObjectId that represents the unique identifier of the reflection project.

CopyWBSFromTemplate Operation

Description: Copies a WBS structure specified by TemplateWbsObjectId from a template and places it under a project specified by ObjectId and updates the ObjectID with the ID of the top node of the newly created WBS structure.

Service: Project Service (on page 571)

Style: Document/literal wrapped

Input:

Message: CopyWBSFromTemplate

Elements: elements that contain the following fields:

Field	Туре	Description
ObjectId	int	The unique identifier of an existing project that will contain the copied WBS structure.
TemplateWbsObjectId	int	The unique identifier of the source WBS structure to copy.
CopyWBSNotes	boolean	Determines whether to copy WBS Notebooks.
CopyWBSMilestones	boolean	Determines whether to copy WBS Milestones.
CopyActivities	boolean	Determines whether to copy Activities.
CopyResourceAndRoleAssignments	boolean	Determines whether to copy resource and role assignments.
CopyRelationships	boolean	Determines whether to copy relationships.
CopyActivityCodes	boolean	Determines whether to copy activity codes.
CopyEPSCodesAtProjectLevel	boolean	Determines whether to copy EPS specific activity codes as project specific activity codes if the WBS is being copied to an EPS which does not have access to the EPS specific activity code.

CopyActivityNotes	nnniaan	Determines whether to copy activity notebooks.
CopyActivitySteps	boolean	Determines whether to copy steps.

Required fields: The following fields are required when creating the Project object:

- ObjectId
- TemplateWbsObjectId

Output:

Message: CopyWBSFromTemplateResponse Elements:

Field	Туре	Description
ObjectId		The unique identifier of the new WBS.

CreateCopyAsTemplate Operation

Description: Creates a copy of the project specified by the ObjectId, makes the copy into a template project and updates the ObjectID with the ID of the newly created template project. The new template project will reside in the EPS node specified by the EPSObjectId.

Service: Project Service (on page 571)

Style: Document/literal wrapped

Input:

Message: CreateCopyAsTemplate Elements:

Field	Туре	Description
ObjectId	int	The unique ID of the project that you are using as the basis for the new template.
EPSObjectId	int	The unique ID of the EPS where the new template will reside.
CopyRisks	boolean	The flag that indicates whether Risks should be copied.
CopyIssuesThresholds	boolean	The flag that indicates whether Issues Thresholds should be

		copied.
CopyReports	boolean	The flag that indicates whether Reports should be copied.
CopyProjectDocuments	boolean	The flag that indicates whether ProjectDocuments should be copied.
CopyFundingSources	boolean	The flag that indicates whether FundingSources should be copied.
CopySummaryData	boolean	The flag that indicates whether SummaryData should be copied.
CopyProjectNotes	boolean	The flag that indicates whether ProjectNotes should be copied.
CopyActualToPlannedValues	boolean	The flag that indicates whether ActualToPlannedValues should be copied.
CopyWBSMilestones	boolean	The flag that indicates whether WBSMilestones should be copied.
CopyActivities	boolean	The flag that indicates whether Activities should be copied.
CopyHighLevelResourcePlanning	boolean	The flag that indicates whether HighLevelResourcePlanning should be copied.
CopyResourceAndRoleAssignments	boolean	The flag that indicates whether ResourceAndRoleAssignments should be copied.
CopyRelationships	boolean	The flag that indicates whether Relationships should be copied.
CopyOnlyBetweenCopiedActivities	boolean	The flag that indicates whether OnlyBetweenCopiedActivities should be copied.
CopyActivityExpenses	boolean	The flag that indicates whether ActivityExpenses should be copied.
CopyActivityCodes	boolean	The flag that indicates whether

		ActivityCodes should be copied.
CopyActivityNotes	boolean	The flag that indicates whether ActivityNotes should be copied.
CopyActivitySteps	boolean	The flag that indicates whether ActivitySteps should be copied.
CopyPastPeriodActuals	boolean	The flag that indicates whether PastPeriodActuals should be copied.

Required elements: The following elements are required when creating the Project object:

- ObjectId
- EPSObjectId

Output:

Message: CreateCopyAsTemplateResponse

Output:

Field	Туре	Description
ObjectId	int	The unique identifier of the new template project.

CreateProjectFromTemplate Operation

Description: Creates a project in the EPS that is specified by the EPSObjectId from a template project that is specified by the ObjectId and updates the ObjectID with the ID of the newly created project.

Service: Project Service (on page 571)

Style: Document/literal wrapped

Input:

Message: CreateProjectFromTemplate Elements:

Field	Туре	Description
ObjectId	11.10	The unique ID of the template project that you are using as

		the basis for the new project.
EPSObjectId	int	The unique ID of the EPS where the new project will reside.
CopyRisks	boolean	The flag that indicates whether Risks should be copied.
CopyIssuesThresholds	boolean	The flag that indicates whether Thresholds should be copied.
CopyReports	boolean	The flag that indicates whether Reports should be copied.
CopyProjectDocuments	boolean	The flag that indicates whether ProjectDocuments should be copied.
CopyFundingSources	boolean	The flag that indicates whether FundingSources should be copied.
CopySummaryData	boolean	The flag that indicates whether SummaryData should be copied.
CopyProjectNotes	boolean	The flag that indicates whether ProjectNotes should be copied.
CopyActualToPlannedValues	boolean	The flag that indicates whether ActualToPlannedValues should be copied.
CopyWBSMilestones	boolean	The flag that indicates whether WBSMilestones should be copied.
CopyActivities	boolean	The flag that indicates whether Activities should be copied.
CopyHighLevelResourcePlanning	boolean	The flag that indicates whether HighLevelResourcePlanning should be copied.
CopyResourceAndRoleAssignments	boolean	The flag that indicates whether ResourceAndRoleAssignments should be copied.

CopyRelationships	boolean	The flag that indicates whether Relationships should be copied.
CopyOnlyBetweenCopiedActivities	boolean	The flag that indicates whether OnlyBetweenCopiedActivities should be copied.
CopyActivityExpenses	boolean	The flag that indicates whether Expenses should be copied.
CopyActivityCodes	boolean	The flag that indicates whether ActivityCodes should be copied.
CopyActivityNotes	boolean	The flag that indicates whether ActivityNotes should be copied.
CopyActivitySteps	boolean	The flag that indicates whether ActivitySteps should be copied.
CopyPastPeriodActuals	boolean	The flag that indicates whether PastPeriodActuals should be copied.

Required elements: The following elements are required when creating the Project object:

- ObjectId
- EPSObjectId

Output:

Message: CreateProjectFromTemplateResponse

Output:

Field	Туре	Description
ObjectId	int	The unique identifier of the new project.

CreateProjects Operation

Description: Creates multiple Project objects in the database. You can create up to 1000 Project objects with a single call.

Service: Project Service (on page 571)

Style: Document/literal wrapped

Input:

Message: CreateProjects

Elements: Project elements that contain *Project Fields* (on page 597) fields

Required fields: The following fields are required when creating the Project object:

- ParentEPSObjectId
- Id
- Name

Output:

Message: CreateProjectsResponse Output: Zero to many ObjectId elements

DeleteProjects Operation

Description: Deletes multiple Project objects in the database. You can delete up to 1000 Project objects with a single call.

Service: Project Service (on page 571)

Style: Document/literal wrapped

Input:

Message: DeleteProjects Elements: One to many ObjectId elements

Output:

Message: DeleteProjectsResponse Output: boolean

GetFieldLengthProject Operation

Description: Returns length of variable character fields for a BO.

Service: Project Service (on page 571)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthProject Elements: FieldLength

Output:

Message: GetFieldLengthProjectResponse Elements: One to many FieldLengthProjects.

IsProjectLocked Operation

Description: Checks whether or not a project is locked.

Service: Project Service (on page 571)

Style: Document/literal wrapped

Input:

Message: IsProjectLocked Elements:

- ObjectId
- IncludeCurrentSession

Output:

Message: IsProjectLockedResponse Output: Zero to many Project elements that contain Project fields.

LoadActivitiesNewerThanBaseline Operation

Description: Loads only the activities of the specified project newer than the specified baseline.

Service: *Project Service* (on page 571)

Input:

Message:LoadActivitiesNewerThanBaseline

Name	Туре	Description	Required
ObjectId	int	The unique identifier for the project.	Yes
Fields	string	One or more Project Fields (on page 597) from the project field list.	Yes
WhereClause	string	Optional clause used to filter results.	No
OrderBy	string	Optional clause to specify the order in which results are returned.	No

BaselineObjectId	int	The unique identifier for the	Yes
		project baseline.	

Message: LoadActivitiesNewerThanBaselineResponse Elements:

Name	Туре	Description
ActivityObjectIds	string	lds of returned activities newer than the specified baseline.

LoadActivityCodesNewerThanBaseline Operation

Description:Loads activity codes of the specified project that are newer than the specified baseline, as well as activity codes without an associated baseline.

Service: Project Service (on page 571)

Input:

Message:LoadActivityCodesNewerThanBaseline

Name	Туре	Description	Required
ObjectId	int	The unique identifier for the project.	Yes
Fields	string	One or more Project Fields (on page 597) from the project fields list.	Yes
WhereClause	string	Optional clause used to filter results.	No
OrderBy	string	Optional clause used to specify the order in which results are returned.	No

BaselineObjectId	int	The unique identifier for the	Yes
		project baseline.	

Message:LoadActivityCodesNewerThanBaselineResponse Elements:

Name	Туре	Description
ActivityCodeAssignment ObjectIds	string	ObjectIds of returned activity codes newer than the specified baseline.

LoadActivityUDFValuesNewerThanBaseline Operation

Description: Loads activity UDF values associated to a specified project newer than the specified baseline.

Input:

Message: LoadActivityUDFValuesNewerThanBaseline

Name	Туре	Description	Required
ObjectId	int	The Unique identifier for the project.	Yes
Fields	string	One or more Project Fields (on page 597) from the project fields list.	Yes
WhereClause	string	Optional clause used to filter results.	No
OrderBy	string	Optional clause used to specify the order in which results are returned.	No
BaselineObjectId	int	The unique identifier for the project baseline.	Yes

Message:LoadActivityUDFValuesNewerThanBaselineResponse Elements:

Name	Туре	Description
UDFValueObjectIds	string	One or more unique identifiers for UDF values returned on operation completion.

LoadAllResources Operation

Description: Loads all resources associated with the project.

Service: Project Service (on page 571)

Input:

Message: LoadAllResources

Elements:

Name	Туре	Description	Required
ObjectId	int	The Unique identifier for the project	Yes
Fields	string	One or more Project Fields (on page 597) from the project field list.	Yes
WhereClause	string	Optional clause used to filter results.	No
OrderBy	string	Optional clause used to specify the order in which results are returned.	No

Output:

Message: LoadAllResourcesResponse

Name	Туре	Description
------	------	-------------

ResourceObjectIds	string	One or more unique identifiers of resources returned on completion
		of the operation.

PublishProject Operation

Description: Publishes a project

Service: Project Service (on page 571)

Style: Document/literal wrapped

Input:

Message: PublishProject

Required fields: The following fields are required when creating the Project object:

ObjectId

Elements:

Field	Туре	Description
ObjectId	int	The unique ID

Output:

Message: PublishProjectResponse Output: boolean

ReadProjects Operation

Description: Reads Project objects from the database.

Service: Project Service (on page 571)

Style: Document/literal wrapped

Input:

Message: ReadProjects

Elements: One to many field names from the Project Fields (on page 597) field list

You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadProjectsResponse

Output: Zero to many Project elements that contain Project fields.

UpdateProjectPreferences Operation

Description: Updates the preferences of the specified project. Project preferences are a subset of fields from the *Project Fields* (on page 597) list.

Service: Project Service (on page 571)

Input:

Message:UpdateProjectPreferences Elements:

Name	Туре	Description	Required
ObjectId	int	The unique identifier for the project.	Yes
EnablePublicatio n	boolean	Indicates whether publication is enabled for the project.	No
PublicationPriorit y	int	Determines the order in which projects are submitted to the service queue, where 1 is highest priority and 100 is lowest priority.	No
LastPublishedOn	string	The date the project was last published.	No
PublishLevel	string	The publish level for the project publication.	No

DeploymentNam es	string	Names of deployments associated with the project. This field can be used to add or update multiple deployment names as a comma separated list. The specified deployments must already be set in the application settings.	No
DeleteDeployme nts	string	Comma separated list of deployments to remove from the project.	No
UnifierEnabledFl ag	boolean	Indicates whether the specified project is synced with a Unifier project.	No
UnifierProjectNu mber	string	The Unifier project number associated to the project.	No
UnifierSchedule SheetName	string	The Unifier schedule sheet name associated to the project.	No
UnifierDataMapp ingName	string	The Unifier data mapping name associated to the project.	No

UnifierDeleteActi	boolean	Indicates	No
vitiesFlag	DOOLEAN	whether activities removed from the project Schedule are deleted in Unifier.	INU
UnifierCBSTasks OnlyFlag	boolean	Indicates whether the project will send only activities with CBS codes assigned to Unifier.	No
ProjectSchedule Type	string	The type of schedule the project is based on. It can contain either Duration, Resource, or Cost.	No
SyncWbsHierarc hyFlag	boolean	Indicates whether WBS Hierarchy sync is enabled or disabled.	No
ScheduleWBSHi erarchyType	string	Specifies WBS Hierarchy type used while a schedule performs on a project. Possible values are Complete, Partial, or Levels.	No
WBSHierarchyLe vels	int	Specifies WBS Hierarchy sync level. Possible values are 1 to 50.	No

EnableSummariz ation	boolean	The option which, when true, directs the Summarizer service to automatically summarize the project. If this is false, the project will be skipped during the summary run.	No
SummaryLevel	string	The summary level for the project while performing project summarization. Possible values are WBS Level and Assignment Level.	No
SummarizeToW BSLevel	int	The maximum level within the project's WBS to perform summarization - defaults to 2.	No
LastSummarized Date	string	The date the project was last summarized.	No
HistoryLevel	string	The level of historical project data that is stored for use in P6 Analytics. Possible values are None, Project, WBS, and Activity.	No

HistoryInterval	string	The time interval for how historical project data is stored for use in P6 Analytics. Possible values are Month, Week, Quarter, Year, and	No
		Financial Period.	

Message: UpdateProjectPreferencesResponse Elements:

Name	Туре	Description
Return	boolean	Indicates whether the operation completed or failed.

UpdateProjects Operation

Description: Updates multiple Project objects in the database. You can update up to 1000 Project objects with a single call.

Service: Project Service (on page 571)

Style: Document/literal wrapped

Input:

Message: UpdateProjects

Elements: Project elements that contain *Project Fields* (on page 597) fields. Required fields: The ObjectId must be specified.

Output:

Message: UpdateProjectsResponse Output: boolean

Project Fields

Field	Туре	Read Only	Filter able Order able	Description
ActivityDefaultActivi tyType	string restricted to 'Task Dependent' 'Resource Dependent' 'Level of Effort' 'Start Milestone' 'Finish Milestone' 'WBS Summary'		x	The default type for activities. Possible values are 'Task Dependent', 'Resource Dependent', 'Level of Effort', or 'Milestone'. A 'Task Dependent' activity is scheduled using the activity's calendar rather than the calendars of the assigned resources. A 'Resource Dependent' activity is scheduled using the calendars of the assigned resources. This type is used when several resources are assigned to the activity, but they may work separately. A 'Milestone' is a zero-duration activity without resources, marking a significant project event. A 'Level of Effort' activity has a duration that is determined by its dependent activities. Administration-type activities are typically 'Level of Effort'.
ActivityDefaultCale ndarName	string	x	x	The name of the calendar assigned to new activities by default. Can be null for baselines.
ActivityDefaultCale ndarObjectId	int		x	The unique ID of the calendar assigned to new activities by default. Can be null for baselines.
ActivityDefaultCost AccountObjectId	int		x	The unique ID of the cost account assigned to new activities and project expenses by default.
ActivityDefaultDura tionType	string restricted to 'Fixed Units/Time'		x	The duration type assigned to new activities by default. Valid values are 'Fixed Units/Time', 'Fixed Duration and Units/Time', 'Fixed Units', or 'Fixed Duration

	'Fixed Duration and Units/Time' 'Fixed Units' 'Fixed Duration and Units'		and Units'.
ActivityDefaultPerc entCompleteType	string restricted to 'Physical' 'Duration' 'Units' 'Scope'	х	The percent complete type assigned to new activities by default. Valid values are 'Physical', 'Duration', 'Units', and 'Scope'. 'Scope' is only a valid option when P6 is integrated with Oracle Primavera Cloud for scope management.
ActivityDefaultPrice PerUnit	double restricted to minInclusive(0 .0)	x	The price used to estimate resource costs for activities that have planned, actual, or remaining units, but no resource assignments. This price is also used to compute costs for activities in cases where resources are assigned but the resources have no prices. Resource cost is computed as the resource units multiplied by the price per time.
ActivityDefaultRevi ewRequired	boolean		The indicator that determines whether status changes for new activities must be approved by default.
ActivityIdBasedOn SelectedActivity	boolean	x	The flag that indicates how to auto-number activity IDs for new activities-Y/N - Y means use the selected activity's activity ID as prefix, N means use standard auto-numbering based on the prefix, suffix. Default = 'false'
ActivityIdIncrement	int	х	The increment used for auto-numbering of activity IDs. When a new activity is created, the activity ID is automatically generated using auto-numbering. Activity ID auto-numbering concatenates

			the prefix and the suffix, with the suffix incremented to make the code unique. Example: 'A', '1000', '10' yields activity IDs of 'A1010', 'A1020', 'A1030', etc.
ActivityIdPrefix	string restricted to maxLength(20)	X	The prefix used for auto-numbering of activity IDs. When a new activity is created, the activity ID is automatically generated using auto-numbering. Activity ID auto-numbering concatenates the prefix and the suffix, with the suffix incremented to make the code unique. Example: 'A', '1000', '10' yields activity IDs of 'A1010', 'A1020', 'A1030', etc.
ActivityIdSuffix	int	x	The suffix used for auto-numbering of activity IDs. When a new activity is created, the activity ID is automatically generated using auto-numbering. Activity ID auto-numbering concatenates the prefix and the suffix, with the suffix incremented to make the code unique. Example: 'A', '1000', '10' yields activity IDs of 'A1010', 'A1020', 'A1030', etc.
ActivityPercentCom pleteBasedOnActivi tySteps	boolean	Х	The flag that indicates whether activity physical percent complete is automatically computed from the activity steps completed.
AddActualToRemai ning	boolean	Х	The flag that indicates whether to add actual to remaining or to subtract actual from at complete when actual units and costs are updated. Default = 'true'
AddedBy	string restricted to maxLength(25 5)	х	The name of the user who added the project to the database.
AllowNegativeActu alUnitsFlag	boolean	Х	The flag that indicates whether the project can allow the

				negative values for the actual units.
AllowStatusReview	boolean		x	The indicator that determines whether status updates to activities in a project are eligible for manual approval before committing changes.
AnnualDiscountRat e	double restricted to minInclusive(0 .0) maxInclusive(100.0)		x	The user-defined number field that identifies the discount rate for the project.
AnticipatedFinishD ate	dateTime		x	The anticipated finish date of Project element. User-entered - not dependent upon any other fields. If there are no children, the anticipated finish date will be the finish date displayed in the columns.
AnticipatedStartDat e	dateTime		х	The anticipated start date of Project element. User-entered - not dependent upon any other fields. If there are no children, the anticipated start date will be the start date displayed in the columns.
AssignmentDefault DrivingFlag	boolean		x	The default flag assigned to new assignments, to indicate whether assignments will drive activity dates.
AssignmentDefault RateType	string restricted to 'Price / Unit' 'Price / Unit 2' 'Price / Unit 3' 'Price / Unit 4' 'Price / Unit 5'		x	The default rate type when adding resource assignments to a project. Valid values are 'Price / Unit', 'Price / Unit2', 'Price / Unit3', 'Price / Unit4', and 'Price / Unit5'.
CalculateFloatBase dOnFinishDate	boolean	x		The flag that indicates how each activity's float will be calculated with respect to other projects in the scheduling batch. This setting only has an effect when

				scheduling multiple projects at the same time. If true, each activity's float is calculated based on its project's ScheduledFinishDate. If false, then each activity's float is calculated based on the latest ScheduledFinishDate of all of the projects in the scheduling batch.
CheckOutDate	dateTime	х	x	The date on which the project was checked out of the Project Management database.
CheckOutStatus	boolean		x	The flag that indicates that the project is currently checked out to an external file or database and is being managed remotely.
CheckOutUserObje ctId	int	x	x	The unique ID of the User that checked out this project.
ComputeTotalFloat Type	string restricted to 'Start Float = Late Start - Early Start' 'Finish Float = Late Finish - Early Finish' 'Smallest of Start Float and Finish Float'	x		The method for calculating total float for all activities. Start Float is the difference between the early and late start dates (Start Float = Late Start - Early Start); Finish Float is the difference between the early and late finish dates (Finish Float = Late Finish - Early Finish); and Smallest of Start Float and Finish Float is the most critical float value.
ContainsSummary Data	boolean	х	x	The flag that indicates that the Project has been summarized.
CostQuantityRecal culateFlag	boolean		x	The flag that, when costs and quantities are linked, indicates whether the quantities should be updated when costs are updated,

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CreateDate	dateTime	х	x	The date this project was created.
CreateUser	string restricted to maxLength(25 5)	x	x	The name of the user that created this project.
CriticalActivityFloat Limit	double		x	The duration used to determine if an activity is critical. When an activity has total float that is less than or equal to this duration, the activity is marked as critical.
CriticalActivityFloat Threshold	double	х		The maximum float time for activities before they are marked critical.
CriticalActivityPath Type	string restricted to 'Critical Float' 'Longest Path'		x	The critical path type, which indicates how critical path activities are identified for the project, based on either 'Critical Float' or 'Longest Path'.
CriticalFloatThresh old	double	x		The option used for setting the critical float threshold value when scheduling projects.
CurrentBaselinePro jectObjectId	int		x	The unique ID of the project's baseline to use for computing summaries.
CurrentBudget	double	х		The sum of the original budget plus the approved and pending budgets from the budget change log.
CurrentVariance	double	x		The difference between the current budget and the total spending plan. Calculated as current budget - total spending plan. Not rolled up
DataDate	dateTime			The current data date for the project. The project status is up to date as of the data date. The data date is modified when project actuals are applied.

DateAdded	dateTime		x	The date on which the project was added to the Project Management database.
DefaultPriceTimeU nits	string restricted to " 'Hour' 'Day' 'Week' 'Month' 'Year' 'Days Hours' 'Hours Minutes'		x	The time units associated with the project's default price per time. Valid values are 'Hour', 'Day', 'Week', 'Month', and 'Year'.
Description	string restricted to maxLength(50 0)		x	The description of the Project.
DiscountApplicatio nPeriod	string restricted to 'Month' 'Quarter' 'Year'		x	the timescale for entering ROI spending and benefit plan. Valid values are 'Month', 'Quarter', or 'Year'.
DistributedCurrent Budget	double	х		The current budget values from one level lower.
EarnedValueComp uteType	string restricted to " 'Activity Percent Complete' '0 / 100' '50 / 50' 'Custom Percent Complete' 'WBS Milestones Percent Complete' 'Activity		x	The technique used for computing earned-value percent complete for activities within the Project. Valid values are 'Activity Percent Complete', '0 / 100', '50 / 50', 'Custom Percent Complete', 'WBS Milestones Percent Complete', and 'Activity Percent Complete Using Resource Curves'.

	Percent Complete Using Resource Curves'		
EarnedValueETCC omputeType	string restricted to " 'ETC = Remaining Cost for Activity' 'PF = 1' 'PF = Custom Value' 'PF = 1 / CPI' 'PF = 1 / (CPI * SPI)'	x	The technique for computing earned-value estimate-to-complete for activities within the Project. Valid values are 'ETC = Remaining Cost for Activity', 'Performance Factor = 1', 'Performance Factor = Custom Value', 'Performance Factor = 1 / Cost Performance Index', and 'Performance Factor = 1 / (Cost Performance Index * Schedule Performance Index)'.
EarnedValueETCU serValue	double restricted to minInclusive(0 .0)	х	The user-defined performance factor, PF, for computing earned-value estimate-to-complete. ETC is computed as PF * (BAC - earned value).
EarnedValueUserP ercent	double	x	The user-defined percent complete for computing earned value for activities within the Project. A value of, say, 25 means that 25% of the planned amount is earned when the activity is started and the remainder is earned when the activity is completed.
EnablePublication	boolean	Х	Enables the project to be processed by the Project Arbiter service.
EnableSummarizati on	boolean	х	The option which, when true, directs the Summarizer service to automatically summarize the project. If this is false, the project will be skipped during the summary run.

EtlInterval	string restricted to "Immediate" "Scheduled"		x	The time interval for ETL for use in P6 Analytics, could be 'None', 'Scheduled', 'Immediate'.
FinancialPeriodTm plld	int		x	The unique identifier of the financial period calendar assigned to the project.
FinishDate	dateTime	x		The finish date of the project. This is a summary method calculated from fields populated by the Summarizer job service.
FiscalYearStartMo nth	int		x	The month that marks the beginning of the fiscal year for the project.
ForecastFinishDate	dateTime	x		The alternate end date to be optionally used by the scheduler. The user sets the alternate end date by dragging the project bar in the Gantt Chart while manually leveling the resource profile in a resource analysis layout.
ForecastStartDate	dateTime	x		The alternate start date to be optionally used by the scheduler. The user sets the alternate start date by dragging the project bar in the Gantt Chart around while manually leveling the resource profile in a resource analysis layout.
GUID	string restricted to pattern '\{[0-9a-fA-F]{ 8}-[0-9a-fA-F]{ 4}-[0-9a-fA-F]{ 4}-[0-9a-fA-F]{ 4}-[0-9a-fA-F]{ 12}\} '		x	The globally unique ID generated by the system.

HasFutureBucketD ata	boolean	x		The flag that indicates whether a resource assignment in the project has future bucket data.
HistoryInterval	string restricted to " 'Month' 'Week' 'Day' 'Quarter' 'Year' 'Financial Period'		x	The time interval for how historical project data is stored for use in P6 Analytics, could be 'Month', 'Week', 'Quarter', 'Year' and 'Financial Period'.
HistoryLevel	string restricted to " 'None' 'Project' 'WBS' 'Activity'		x	The level of historical project data that is stored for use in P6 Analytics, cab be 'None', 'Project', 'WBS' and 'Activity'.
ld	string restricted to maxLength(40)		x	The short code assigned to each Project element for identification. Each Project element is uniquely identified by this short code.
IgnoreOtherProject Relationships	boolean	x		Determines whether to ignore activity relationships between projects.
IndependentETCLa borUnits	double		x	The user-entered ETC total labor.

IndependentETCTo talCost	double		х	The user-entered ETC total cost.
IntegratedType	string restricted to " 'ERP' 'Fusion' 'Gateway' 'PrimaveraClo udScope'		x	The flag indicating whether the project is integrated with an Enterprise Resource Planning (ERP) system. 'Fusion' indicates the project is integrated with Oracle Fusion. 'ERP' indicates the project is integrated with another ERP system. 'Gateway' indicates the project is integrated with Oracle Primavera Gateway.
IntegratedWBS	boolean			The flag that determines whether the WBS is integrated with another application.
IsTemplate	boolean	x	x	The boolean value indicating if this Project is a template Project.
LastApplyActualsD ate	dateTime	x	х	The last date Apply Actuals was run for this project.
LastFinancialPerio dObjectId	int		x	The unique ID of the last closed financial period for the project.

LastLevelDate	dateTime	x	х	The date the project was last leveled.
LastPublishedOn	dateTime	x	x	The date the project was last published.
LastScheduleDate	dateTime	x	x	The date the project was last scheduled.
LastSummarizedD ate	dateTime	x	x	The date the project was last summarized.
LastUpdateDate	dateTime	x	х	The date this project was last updated.
LastUpdateUser	string restricted to maxLength(25 5)	x	x	The name of the user that last updated this project.

LevelAllResources	boolean	x	The resources to level.
LevelDateFlag	boolean	x	Gets the date the project was last leveled.
LevelFloatThreshol dCount	int	x	The amount of float you want to maintain when activities are delayed because of resource conflicts. You can type a new number and time unit.
LevelOuterAssign	boolean	x	Include resource assignments in other projects to level.
LevelOuterAssignP riority	int	x	Set the range of the leveling priority that you specify when determining if a resource is over-allocated. Assignments in closed projects are considered.
LevelOverAllocatio nPercent	double	x	The maximum percentage by which resource availability can be increased during resource leveling. This increased resource availability is used to level if resources on an activity cannot be leveled after using up the activity's float limit. You can type a new percentage.

LevelPriorityList	string	x		Lists the fields by which to prioritize resources when leveling. Priorities are used only when more than one activity competes for the same resource at the same time. Sort Order: The order in which to level resources according to the field names displayed. Double-click the Sort Order field to choose Ascending, Descending, or Hierarchy (option only appears for fields that are hierarchical)
LevelResourceList	string	х		Consists of the list of resources to level.
LevelWithinFloat	boolean	x		To delay activities with resource conflicts only up to their late finish date.
LevelingPriority	int restricted to minInclusive(1) maxInclusive(100)		х	The priority for scheduling.
LimitMultipleFloatP aths	boolean	x		The option used for enabling/disabling limit multiple float paths when scheduling projects.

LinkActualToActual ThisPeriod	boolean		x	The flag that indicates whether actual units and costs are linked to actual-this-period units and costs. Setting this field to true asynchronously causes all actual-this-period values to be recalculated for the project via a job service. Default = 'true'.
LinkPercentComple teWithActual	boolean		х	The flag that indicates whether actual units and cost should be recalculated when percent complete changes. Default = 'false'
LinkPlannedAndAt CompletionFlag	boolean		x	The flag that indicates whether the At Completion Cost/Units should be linked to Planned Cost/Units for not-started activities. Default = 'true'
LocationName	string restricted to maxLength(10 0)	x	x	The name of the location assigned to the project.
LocationObjectId	int		x	The unique ID of the location assigned to the project.
MakeOpenEndedA ctivitiesCritical	boolean	x		The option used by the scheduler for automatically leveling resources when scheduling projects.

MaximumMultipleFl oatPaths	int restricted to minInclusive(0) maxInclusive(1000)	X	The number of critical float paths to calculate. For example, if you set the field to five, the module calculates the five most critical float paths ending with the activity you selected. The module ranks each float path from most critical to least critical, and stores the value for each activity in the Float Path field. For example, if you calculate five float paths, the module will store a value of one in the Float Path field for each activity in the most critical float path; the module will store a value of five for each activity in the least critical float path. Note: To view the critical float paths after you schedule the project, group activities in the Activity Table by Float Path and sort by Float Path Order. A Float Path value of one indicates that those activities are part of the most critical float path. The Float Path Order value indicates the order in which the activities were processed.
MultipleFloatPaths Enabled	boolean	x	The Boolean value that indicates whether multiple critical float paths (sequences of activities) should be calculated in the project schedule.

MultipleFloatPaths EndingActivityObje ctId	int	X	The activity in the WBS that you want to represent the end of the float paths. Typically, this will be a milestone activity or some other significant activity that has a start date or end date that cannot change. Note: if a value is not assigned, the module will choose an activity based on MultipleFloatPathsUseTotalFloat . If you are calculating multiple paths using Free Float, the module will choose the open-ended activity with the most critical Free Float. If you are calculating multiple paths using Total Float, the module will calculate the Total Float for all activity relationships, then choose the activity with the most critical Relationship Total Float.
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MultipleFloatPaths UseTotalFloat	boolean	X	 The Boolean value that decides whether or not to use total float in multiple float path calculations. If True, then based on the activity you want the paths to end on, the module determines which predecessor activity has the most critical Relationship Total Float on the backward pass. The module repeats this process until an activity is reached that has no relationship. The module begins the forward pass from this activity and determines which successor activity has the most critical Relationship Successor Total Float. The module repeats this process until an activity is reached that has no relationship. These activities represent the most critical float path. The process begins again until the remaining sub-critical paths are calculated. If False, then critical float paths are calculated. If False, then critical path will be identical to the critical path that is derived when you choose to define critical activities as Longest Path in the General tab. In a multicalendar project, the longest path is calculated by identifying the activities that have an early finish equal to the latest calculated early finish for the project and tracing all driving relationships for those activities back to the project start date. After the most critical path is identified, the module will
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MustFinishByDate	dateTime		x	The date by which all project activities must finish. If entered, it is used as the project late finish date by the project scheduler.
Name	string restricted to maxLength(10 0)		x	The name of the Project element.
NetPresentValue	double	х		The estimated net value, at the present time for the project
OBSName	string restricted to maxLength(10 0)	x	x	The name of the person/role in the organization, sometimes referred to as the "responsible manager".
OBSObjectId	int		x	The unique ID of the project manager from the project's OBS tree who is responsible for the Project.
ObjectId	int		x	The unique ID generated by the system.
OriginalBudget	double		х	The original budget for the project.
OutOfSequenceSc heduleType	string restricted to " 'Retained Logic' 'Progress Override' 'Actual Dates'	x	x	The type of logic used to schedule the progressed activities: 'Retained Logic', 'Progress Override', or 'Actual Dates'.

OverallProjectScor e	int	x		The project score calculated based on all project code types assigned to this project.
OwnerResourceOb jectId	int		x	The unique ID of the Owner Resource of this project.
ParentEPSId	string			The Id of the parent EPS.
ParentEPSName	string			The Name of the new parent EPS.
ParentEPSObjectId	int		x	The unique ID of the parent EPS of this project.
PaybackPeriod	int	x		The PaybackPeriod for the project

PerformancePerce ntCompleteByLabo rUnits	double	x		The performance percent complete for the project according to the labor units. Computed as project Earned Value Labor Units divided by project Budget at Completion (Labor Units) multiplied by 100.
PlannedStartDate	dateTime		х	The planned start date of the project. Used by the project scheduler.
PostResponsePess imisticStart	dateTime		x	The Post Response Pessimistic Start date calculated by Oracle Primavera Cloud during quantitative risk analysis.
PreResponsePessi misticFinish	dateTime		x	The Pre Response Pessimistic Finish date calculated by Oracle Primavera Cloud during quantitative risk analysis.
PreResponsePessi misticStart	dateTime		x	The Pre Response Pessimistic Start date calculated by Oracle Primavera Cloud during quantitative risk analysis.
PricePerUnit	string restricted to maxLength(20 0)			Field that specifies whether to use role or resource price per unit.

PrimaryResources CanMarkActivitiesA sCompleted	boolean		x	The flag that indicates whether primary resources can mark the project activities as completed. If not selected, a primary resource can only mark an activity as For Review. In this case the project manager reviews the activity and marks it as either Rejected or completed.
PrimaryResources CanUpdateActivity Dates	boolean		x	The flag that indicates whether primary resources can update activity dates in P6 Team Member Web.
ProjectForecastSta rtDate	dateTime		x	The alternate start date to be optionally used by the scheduler. The user sets the alternate start date by dragging the project bar in the Gantt Chart around while manually leveling the resource profile in a resource analysis layout.
ProjectScheduleTy pe	string restricted to " 'Duration' 'Resource' 'Cost'		x	The type of schedule the project is based on. It can contain either "Duration" or "Resource" or "Cost".
PropertyType	string restricted to 'ApplyActuals' 'Schduling' 'ScheduleChe ck'	x	x	The project property name associated with the scheduling of projects.

ProposedBudget	double	x		The Proposed Budget, which is the sum of the original budget plus the approved and pending budgets from the budget change log.
PublicationPriority	int		x	A priority value the Project Arbiter service uses to determine the order in which projects are submitted to the service queue, where 1 is highest priority and 100 is lowest priority.
PublishLevel			x	The publish level for the project publication.
RelationshipLagCal endar	string restricted to 'Predecessor Activity Calendar' 'Successor Activity Calendar' '24 Hour Calendar' 'Project Default Calendar'		x	he calendar used to calculate the lag between predecessors and successors for all activities. Valid values are 'Predecessor Activity Calendar', 'Successor Activity Calendar', '24 Hour Calendar', and 'Project Default Calendar'. If you do not select a calendar, the successor activity calendar is used.
ResetPlannedToRe mainingFlag	boolean		x	The flag that indicates whether to reset Planned Duration and Units to Remaining Duration and Units, or to reset Remaining Duration and Units to Planned Duration and Units when the Activity Status is or becomes not started. Default = 'true'

ResourceCanBeAs signedToSameActi vityMoreThanOnce	boolean		x	The flag that indicates whether a resource can be assigned more than once to the same activity. This is useful when the resource is expected to perform more than one role on an activity, for example, documentation plus QA.
ResourceName	string restricted to maxLength(25 5)	x	x	The name of the resource assigned as the Project Owner.
ResourcesCanAssi gnThemselvesToA ctivities	boolean		x	The flag that indicates whether timesheet application users are allowed to assign themselves to activities in this project.
ResourcesCanAssi gnThemselvesToA ctivitiesOutsideOB SAccess	boolean		х	The flag that indicates whether timesheet application users are allowed to assign themselves to activities in this project even if the resource does not have access to the relevant OBS for the activity.
ResourcesCanEdit AssignmentPercent Complete	boolean		х	The flag that indicates whether the project's resource update the remaining units or the percent complete for their activities in the timesheet application.
ResourcesCanMar kAssignmentAsCo mpleted	boolean		x	The flag that indicates whether timesheet resources can mark the assignment as complete.
ResourcesCanStaff RoleAssignment	boolean		х	The flag that indicates whether team-member application users are allowed to staff themselves to role assignment in this project.

ResourcesCanVie wInactiveActivities	boolean		x	The flag that indicates whether timesheet resources can view inactive project activities.
ReturnOnInvestme nt	double	x		The estimated return on investment for the project
ReviewType	string restricted to " 'Anyone Can Review' 'Everyone Must Review'		x	The type of status review required by team members, when the AllowStatusReview flag is true.
RiskExposure	double	х		The calculated exposure value for the project.
RiskLevel	string restricted to 'Very High' 'High' 'Medium' 'Low' 'Very Low'			The risk level assigned to the project: 'Very High', 'High', 'Medium', 'Low', and 'Very Low'.
RiskMatrixName	string restricted to maxLength(40)	x	х	The name of the risk matrix.
RiskMatrixObjectId	int		x	The unique ID of the associated Risk Matrix.

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RiskScore	int	x		The calculated risk score for the project.
ScheduleWBSHier archyType	string restricted to 'Complete' 'Partial' 'Levels'		x	The option used for specifying WBS Hierachy sync type.
ScheduledFinishDa te	dateTime		x	The early finish date of the latest activity in the project, as computed by the project scheduler.
SourceProjectObje ctId	int	x	x	The unique ID of the project from which the reflection project was created, if the current project is a reflection project.
StartDate	dateTime	x		The start date of the project. This is a summary method calculated from fields populated by the Summarizer job service.
StartToStartLagCal culationType	boolean		x	The method used to calculate lag when a start-to-start relationship exists and the predecessor starts out of sequence. Actual Start sets the successor's start according to the time elapsed from the predecessor's actual start (the successor's start date is the data date plus any remaining lag). Early Start sets the successor's start according to the amount of work that the predecessor activity accomplishes (the expired lag is calculated as the number of work periods between the actual start and the data date, and the successor's start

				date is the predecessor's internal early start plus any remaining lag).
Status	string restricted to 'Planned' 'Active' 'Inactive' 'What-If' 'Requested' 'Template'		x	The project status: 'Planned', 'Active', 'Inactive', 'What-If', 'Requested', or 'Template'.
StatusReviewerNa me	string	x		The names of the users reviewing status updates.
StatusReviewerObj ectId	string		x	The unique IDs of the users reviewing status updates.
StrategicPriority	int restricted to minInclusive(1) maxInclusive(10000)		x	The project's priority. The range is from 1 to 10,000.
SummarizeResour cesRolesByWBS	boolean			The flag that indicates whether to create "Resource by WBS" and "Role by WBS" summary records at the project level, on summarization of a given project. Note: Resource by WBS and Role by WBS records is always created for a "Fusion" project.

SummarizeToWBS Level	int restricted to minInclusive(0) maxInclusive(50)		x	The maximum level within the project's WBS to perform summarization - default to 2.
SummarizedDataD ate	dateTime		x	The data date of the project when it was last summarized-only updated by summarizer.
SummaryAccountin gVarianceByCost	double	x		the Planned Value minus the Actual Cost. A negative value indicates that the Actual Cost has exceeded the Planned Value.
SummaryAccountin gVarianceByLabor Units	double	x		the Planned Value Labor Units minus the Actual Units. Negative value indicates that Actual Units have exceeded the Planned Value Labor Units.
SummaryActivityCo unt	int	x		the number of activities that are currently in progress.
SummaryActualDur ation	double	x		The actual duration.
SummaryActualEx penseCost	double	x		The actual costs for all project expenses associated with the project.
SummaryActualFini shDate	dateTime	x		The latest actual finish date of all activities in the project.

SummaryActualLab orCost	double	x	The actual cost for all labor resources assigned to the activity.
SummaryActualLab orUnits	double	x	The actual labor units.
SummaryActualMat erialCost	double	x	The actual units for all material resources assigned to the activity.
SummaryActualNo nLaborCost	double	x	The actual units for all nonlabor resources assigned to the activity.
SummaryActualNo nLaborUnits	double	x	The actual nonlabor units.
SummaryActualSta rtDate	dateTime	x	The earliest actual start date of all activities in the project.
SummaryActualThi sPeriodCost	double	x	The actual this period cost (will be labor or nonlabor).
SummaryActualThi sPeriodLaborCost	double	x	The actual this period labor cost

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SummaryActualThi sPeriodLaborUnits	double	x	The actual this period labor units.
SummaryActualThi sPeriodMaterialCos t	double	x	The actual this period material cost.
SummaryActualThi sPeriodNonLaborC ost	double	x	The actual this period nonlabor cost.
SummaryActualThi sPeriodNonLaborU nits	double	x	The actual this period nonlabor units.
SummaryActualTot alCost	double	x	The actual labor cost + actual nonlabor cost + actual expense cost as of the project data date.
SummaryActualVal ueByCost	double	x	the actual total cost incurred on the activity as of the project data date, computed as Actual Labor Cost + Actual Nonlabor Cost + Actual Material Cost + Actual Expense Cost.
SummaryActualVal ueByLaborUnits	double	x	the actual total labor units for the activity as of the project data date (that is, actual total cost by labor units).
SummaryAtComple tionDuration	double	X	The duration at completion.

SummaryAtComple tionExpenseCost	double	x	the sum of the actual plus remaining cost for all project expenses associated with the cost account. Computed as Actual Expense Cost + Remaining Expense Cost.
SummaryAtComple tionLaborCost	double	x	The sum of the actual plus remaining costs for all labor resources assigned to the activity. Computed as actual labor cost + remaining labor cost. Same as the planned labor costs if the activity is not started and the actual labor costs once the activity is completed.
SummaryAtComple tionLaborUnits	double	x	The sum of the actual plus remaining units for all labor resources assigned to the activity. Computed as actual labor units + remaining labor units. Same as the planned labor units if the activity is not started and the actual labor units once the activity is completed.
SummaryAtComple tionMaterialCost	double	x	The material cost at completion. It is the sum of the actual plus remaining costs for all material resources assigned to the activity. Computed as actual material cost + remaining material cost. Same as the planned material costs if the activity is not started and the actual material costs once the activity is completed.
SummaryAtComple tionNonLaborCost	double	x	The nonlabor cost at completion. It is the sum of the actual plus remaining costs for all nonlabor resources assigned to the activity. Computed as actual nonlabor cost + remaining nonlabor cost. Same as the planned nonlabor costs if the activity is not started and the actual nonlabor costs once the activity is completed.

SummaryAtComple tionNonLaborUnits	double	x	The nonlabor units at completion. It is the sum of the actual plus remaining units for all nonlabor resources assigned to the activity. Computed as actual nonlabor units + remaining nonlabor units. Same as the planned nonlabor units if the activity is not started and the actual nonlabor units once the activity is completed.
SummaryAtComple tionTotalCost	double	x	The estimated cost at completion for the activity. Computed as the actual total cost plus the estimate-to-complete cost; EAC = ACWP + ETC. Note that the method for computing ETC depends on the earned-value technique selected for the activity's WBS.
SummaryAtComple tionTotalCostVaria nce	double	x	the Baseline Planned Total Cost - At Completion Total Cost.
SummaryBaseline CompletedActivityC ount	int	x	The number of completed activities in the baseline.
SummaryBaseline Duration	double	x	the planned duration for the activity in the primary baseline. Planned duration is the total working time from the activity current start date to the current finish date. Same as the actual duration plus the remaining duration. The total working time is computed using the activity's calendar.

SummaryBaseline ExpenseCost	double	х	the planned cost for all project expenses associated with the activity in the primary baseline. Computed as the baseline actual expense cost plus the baseline remaining expense cost.
SummaryBaselineF inishDate	dateTime	x	The current latest finish date of all activities in the project for the current baseline.
SummaryBaselinel nProgressActivityC ount	int	x	The number of in-progress activities in the baseline.
SummaryBaselineL aborCost	double	x	the planned cost for all labor resources assigned to the activity in the primary baseline. Computed from the baseline At Completion labor units. If no resources are assigned, computed as the activity Baseline Planned Labor Units * Project Default Price / Time.
SummaryBaselineL aborUnits	double	x	the planned units for all labor resources assigned to the activity in the primary baseline. Computed as the baseline actual labor units plus the baseline remaining labor units.
SummaryBaseline MaterialCost	double	x	the planned cost for all material resources assigned to the activity in the primary baseline. Computed from the baseline At Completion nonlabor units. If no resources are assigned.
SummaryBaseline NonLaborCost	double	x	the planned cost for all nonlabor resources assigned to the activity in the primary baseline. Computed from the baseline At Completion nonlabor units. If no resources are assigned, computed as the activity Baseline Planned Nonlabor

			Units * Project Default Price / Time.
SummaryBaseline NonLaborUnits	double	x	the planned units for all nonlabor resources assigned to the activity in the primary baseline. Computed as the baseline actual nonlabor units plus the baseline remaining nonlabor units.
SummaryBaseline NotStartedActivityC ount	int	x	The number of activities not started in the baseline.
SummaryBaseline StartDate	dateTime	x	The current earliest start date of all activities in the Project for the current baseline.
SummaryBaselineT otalCost	double	x	the Planned Total Cost for the activity in the primary baseline, including labor resources, nonlabor resources, and project expenses. Baseline Planned Total Cost = Baseline Planned Labor Cost + Baseline Planned Nonlabor Cost + Baseline Planned Expense Cost.
SummaryBudgetAt CompletionByCost	double	x	the Planned Total Cost through activity completion. Computed as Planned Labor Cost + Planned Nonlabor Cost + Planned Expense Cost, same as the Planned Total Cost.
SummaryBudgetAt CompletionByLabo rUnits	double	x	the Baseline Labor Units

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SummaryComplete dActivityCount	int	x	the number of activities that have an Actual Finish in the Project.
SummaryCostPerc entComplete	double	x	The percent complete of cost for all nonlabor resources assigned. Computed as Actual Nonlabor Cost / At Completion Nonlabor Cost * 100. Always in the range 0 to 100.
SummaryCostPerc entOfPlanned	double	x	The activity actual cost percent of planned. Computed as actual total cost / baseline total cost * 100, or equivalently as ACWP / BAC * 100. The value can exceed 100. The baseline total cost is the activity's at completion cost from the current baseline. This field is named SummaryCostPercentOfBudget in Primavera's Engineering & Construction and Maintenance & Turnaround solutions.
SummaryCostPerfo rmanceIndexByCos t	double	x	the Earned Value divided by the Actual Cost. A value less than 1 indicates that the Actual Cost has exceeded the Planned Value.
SummaryCostPerfo rmanceIndexByLab orUnits	double	x	the Earned Value Labor Units / Actual Labor Units.
SummaryCostVaria nceByCost	double	x	the Earned Value minus the Actual Cost. A negative value indicates that the Actual Cost has exceeded the Planned Value.
SummaryCostVaria nceByLaborUnits	double	x	the Earned Value Labor Cost minus Actual Value Labor Cost.

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SummaryCostVaria nceIndex	double	x	The value that is calculated as the Cost Variance divided by Earned Value.
SummaryCostVaria nceIndexByCost	double	x	the Cost Variance divided by Earned Value.
SummaryCostVaria nceIndexByLaborU nits	double	x	the Cost Variance Labor Units divided by Earned Value Labor Units.
SummaryDurationP ercentComplete	double	x	The percent complete of the activity duration. Computed as (planned duration - remaining duration) / planned duration * 100. The planned duration is taken from the current plan, not from the baseline.
SummaryDurationP ercentOfPlanned	double	x	The summary actual duration percent of planned of all activities under this project. Computed as actual duration / baseline duration * 100. The value can exceed 100. The Baseline duration is the activity's at complete duration from the current baseline.
SummaryDurationV ariance	double	x	The duration between the activity's baseline duration and the at complete duration. Computed as baseline planned duration - at completion duration.
SummaryEarnedVa lueByCost	double	x	the Budget at Completion * Performance % Complete. The method for computing the Performance Percent Complete depends on the Earned Value technique selected for the activity's WBS. Budget at

			Completion is computed from the primary baseline.
SummaryEarnedVa lueByLaborUnits	double	x	the portion of the baseline labor units that is actually completed as of the project data date. Computed as Baseline Labor Units * Performance % Complete. The planned labor units performed is essentially the labor units Earned Value for the activity. The method for computing the Performance % Complete depends on the Earned Value technique selected for the activity's WBS. The Baseline Labor Units is taken from the current baseline.
SummaryEstimate AtCompletionByCo st	double	x	the Actual Cost plus the Estimate to Complete Cost. The method for computing Estimate to Complete depends on the Earned Value technique selected for the activity's WBS.
SummaryEstimate AtCompletionByLa borUnits	double	x	the Actual Labor Units + Estimate To Complete Labor Units. (Estimate To Complete Labor Units is calculated based off of the Earned Value setting on the Project.)
SummaryEstimate AtCompletionHighP ercentByLaborUnit s	double	x	the high forecast of Estimate At Completion (EAC) by labor units.
SummaryEstimate AtCompletionLowP ercentByLaborUnit s	double	x	the low forecast of Estimate At Completion (EAC) by labor units.

SummaryEstimate ToCompleteByCost	double	x	the Remaining Total Cost for the activity or the Performance Factor * (Budget at Completion - Earned Value), depending on the Earned Value technique selected for the activity's WBS (calculated from the primary baseline).
SummaryEstimate ToCompleteByLab orUnits	double	x	the estimated quantity to complete the activity. Computed as either the remaining total units for the activity, or as Performance Factor * (Baseline Planned Labor Units - Planned Quantity of Work Performed), depending on the Earned Value Technique selected for the activity's WBS.
SummaryExpense CostPercentCompl ete	double	x	The percent complete of cost for all expenses associated with the project. It is computed as Actual Expense Cost / At Complete Expense Cost * 100, and it is always in the range of 0 to 100.
SummaryExpense CostVariance	double	x	the Baseline Planned Expense Cost - At Completion Expense Cost (At Completion Expense Cost = Actual Expense Cost + Remaining Expense Cost).
SummaryFinishDat eVariance	double	x	The duration between the finish date in the current project and the baseline finish date. Calculated as finish date - baseline finish date.
SummaryInProgres sActivityCount	int	x	the number of activities that are currently in progress.
SummaryLaborCos tPercentComplete	double	x	The percent complete of cost for all labor resources assigned to the project. It is computed as Actual Labor Cost / At Complete Labor Cost * 100, and it is

				always in the range of 0 to 100.
SummaryLaborCos tVariance	double	x		the Baseline Planned Labor Cost - At Completion Labor Cost.
SummaryLaborUnit sPercentComplete	double	x		The percent complete of units for all labor resources for the Project. Computed as actual labor units / at complete labor units * 100. Always in the range 0 to 100.
SummaryLaborUnit sVariance	double	x		The difference between baseline labor units and at completion labor units. Calculated as baseline labor units - at completion labor units.
SummaryLevel	string restricted to " 'WBS Level' 'Assignment Level'		x	The summary level for the project while performing project summarization.
SummaryNonLabor CostPercentCompl ete	double	x		The percent complete of cost for all non-labor resources assigned to the project. It is computed as Actual Nonlabor Cost / At Complete Nonlabor Cost * 100, and it is always in the range of 0 to 100.
SummaryNonLabor UnitsPercentCompl ete	double	x		The percent complete of units for all nonlabor resources for the Project. Computed as Actual Nonlabor Cost / At Completion Nonlabor Cost * 100. Always in the range 0 to 100.

SummaryNonLabor UnitsVariance	double	x	The difference between baseline nonlabor units and at completion non labor units. Calculated as baseline nonlabor units - at completion nonlabor units.
SummaryNotStarte dActivityCount	int	x	the number of activities that are currently not started.
SummaryPerforma ncePercentComple teByCost	double	x	the percent complete of performance for all labor resources, nonlabor resources, and expenses. Computed as Earned Value / Budget At Completion * 100. Always in the range 0 to 100.
SummaryPerforma ncePercentComple teByLaborUnits	double	x	the percent complete of performance for all labor resources. Computed as earned value labor units / baseline labor units * 100. Always in the range 0 to 100.
SummaryPlannedC ost	double	x	The sum of all planned expense, non labor, labor, and material costs in the project.
SummaryPlannedD uration	double	x	The total working days between planned start and finish dates in the project.
SummaryPlannedE xpenseCost	double	x	The sum of all planned expense costs in the project.
SummaryPlannedF inishDate	dateTime	x	The latest planned finish date of all activities in the project.

SummaryPlannedL aborCost	double	x	The sum of all planned labor costs in the project.
SummaryPlannedL aborUnits	double	x	The sum of all planned labor units in the project.
SummaryPlanned MaterialCost	double	x	The sum of all planned material costs in the project.
SummaryPlannedN onLaborCost	double	x	The sum of all planned non labor costs in the project.
SummaryPlannedN onLaborUnits	double	x	The sum of all planned non labor units in the project.
SummaryPlannedS tartDate	dateTime	x	The earliest planned start date of all activities in the project.
SummaryPlannedV alueByCost	double	x	the Budget at Completion * Schedule % Complete. The Schedule % Complete specifies how much of the activity's baseline duration has been completed so far. Budget at Completion is computed from the primary baseline

SummaryPlannedV alueByLaborUnits	double	x	the portion of the baseline labor units that is scheduled to be completed as of the project data date. Computed as Baseline Labor Units * Schedule % Complete. The Schedule % Complete specifies how much of the activity's baseline duration has been completed so far. The Baseline Labor Units is taken from the current baseline.
SummaryProgress FinishDate	dateTime	x	the date the activity is expected to be finished according to the progress made on the activity's work products. The expected finish date is entered manually by people familiar with progress of the activity's work products.
SummaryRemainin gDuration	double	x	The total working time from the Project remaining start date to the remaining finish date.
SummaryRemainin gExpenseCost	double	x	The remaining costs for all project expenses associated with the activities in the Project.
SummaryRemainin gFinishDate	dateTime	x	The date the resource is scheduled to finish the remaining work for the activity. This date is computed by the project scheduler but can be updated manually by the project manager. Before the activity is started, the remaining finish date is the same as the planned finish date.
SummaryRemainin gLaborCost	double	x	The remaining costs for all labor resources assigned to the activities. The remaining cost reflects the cost remaining for the Project.

SummaryRemainin gLaborUnits	double	x	The remaining units for all labor resources assigned to the activities. The remaining units reflects the work remaining to be done for the Project.
SummaryRemainin gMaterialCost	double	x	The remaining material costs for all project expenses associated with the activities in the Project.
SummaryRemainin gNonLaborCost	double	x	The remaining nonlabor costs for all project expenses associated with the activities in the Project.
SummaryRemainin gNonLaborUnits	double	x	The remaining units for all nonlabor resources assigned to the activities. The remaining units reflects the work remaining to be done for the Project.
SummaryRemainin gStartDate	dateTime	x	The earliest remaining start of all activities assigned to the Project.
SummaryRemainin gTotalCost	double	x	The sum of all remaining total costs in the Project.
SummarySchedule PercentComplete	double	x	The measure that indicates how much of the Project baseline duration has been completed so far. Computed based on where the current data date falls between the activity's baseline start and finish dates. If the data date is earlier than the baseline start, the schedule % complete is 0. If the data date is later than the baseline finish, the schedule % complete is 100. The schedule % complete indicates

			how much of the Project duration should be currently completed, relative to the selected baseline.
SummarySchedule PercentCompleteB yLaborUnits	double	x	the percent complete of units for all labor resources. Computed as Actual Labor Units / At Completion Labor Units * 100. Always in the range 0 to 100.
SummarySchedule PerformanceIndex ByCost	double	x	the Earned Value divided by the Planned Value. A value less than 1 indicates that less work was actually performed than was scheduled.
SummarySchedule PerformanceIndex ByLaborUnits	double	x	the Earned Value Labor Units divided by Planned Value Labor Units.
SummarySchedule VarianceByCost	double	x	the Earned Value divided by the Planned Value. A negative value indicates that less work was actually performed than was scheduled.
SummarySchedule VarianceByLaborU nits	double	x	the Earned Value Labor Units minus the Planned Value Labor Units.
SummarySchedule VarianceIndex	double	x	The value that is calculated as the Schedule Variance Labor Units divided by Planned Value Labor Units.
SummarySchedule VarianceIndexByC ost	double	x	the Schedule Variance divided by the Planned Value.

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SummarySchedule VarianceIndexByLa borUnits	double	x		the Schedule Variance Labor Units divided by the Planned Value Labor Units.
SummaryStartDate Variance	double	x		The duration between the start date in the current project and the baseline start date. Calculated as start date - baseline start date.
SummaryToCompl etePerformanceInd exByCost	double	x		the (Budget at Completion - Earned Value) divided by (Estimate at Completion - Actual Cost).
SummaryTotalCost Variance	double	x		The value that is calculated as baseline total cost - total cost.
SummaryTotalFloat	double	x		The amount of time the Project can be delayed before delaying the project finish date. Total float can be computed as late start - early start or as late finish - early finish; this option can be set when running the project scheduler.
SummaryUnitsPerc entComplete	double	x		The percent complete of units for the resource assignments in the Project. Computed as Actual Units / At Complete Units * 100. Always in the range 0 to 100.
SummaryVariance AtCompletionByLa borUnits	double	x		the Baseline Planned Total Labor Units minus Estimate at Completion Labor Units.
SyncWbsHierarchy Flag	boolean		x	The option used for enabling/disabling WBS Hierachy sync.

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TeamMemberActivi tyFields	string restricted to maxLength(51 2)	The list of activity fields that can be updated by a team member using the P6 Team Member interfaces.
TeamMemberAddN ewActualUnits	boolean	The indicator that determines whether team members enter new actual units.
TeamMemberAssig nmentOption	string restricted to maxLength(32)	The indicator that determines whether team member can update activity fields, assignment fields, or both using the P6 Team Member interfaces.
TeamMemberAssig nmentProficiencyFl ag	boolean	The indicator that determines whether to use role assignment proficiency or resource's role proficiency.
TeamMemberCanS tatusOtherResourc es	boolean	The indicator that determines whether team member can status other resource assignments on an activity.
TeamMemberCan UpdateNotebooks	boolean	The indicator that determines whether notebooks can be updated by the team member.
TeamMemberDispl ayBaselineDatesFl ag	boolean	The indicator that determines whether baseline dates are visible in P6 Team Member interfaces.
TeamMemberDispl ayPlannedUnit	boolean	The indicator that determines whether or not a team member can display planned units on activities and assignments.
TeamMemberDispl ayTotalFloatFlag	boolean	The indicator that determines whether or not a team member can view the Total Float for an activity.
TeamMemberInclu dePrimaryResourc es	boolean	Primary Resource Flag determines if Team Members status their activities as Primary Resources too.

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TeamMemberRead OnlyActivityFields	string restricted to maxLength(51 2)		The list of activity fields that can be viewed but not updated by a team member using the P6 Team Member interfaces.
TeamMemberReso urceAssignmentFie lds	string restricted to maxLength(51 2)		The list of assignment fields that can be updated by a team member using the P6 Team Member interfaces.
TeamMemberStep UDFViewableField s	string restricted to maxLength(51 2)		The list of step user defined fields that can be viewed and updated by a team member using the P6 Team Member interfaces.
TeamMemberStep sAddDeletable	boolean		The flag which determines whether steps can be added or deleted in P6 Team Member interfaces.
TeamMemberView ableFields	string restricted to maxLength(51 2)		The list of fields that are viewable by a team member using the P6 Team Member interfaces.
TotalBenefitPlan	double	x	The sum of the monthly benefit plan.
TotalBenefitPlanTal ly	double	х	The sum of the monthly benefit plan tally.
TotalFunding	double	x	The total amount of funding contributed to the project by your funding sources.
TotalSpendingPlan	double	х	The sum of the monthly spending plan.
TotalSpendingPlan Tally	double	x	The sum of the monthly spending plan tally.
UnallocatedBudget	double	Х	The total current budget minus the distributed current budget.

UndistributedCurre ntVariance	double	x	The total spending plan minus the total spending plan tally.
UnifierCBSTasksO nlyFlag	boolean		The flag that indicates whether P6 will only send activities with CBS codes assigned.
UnifierDataMappin gName	string restricted to maxLength(20 0)		The Unifier data mapping name.
UnifierDeleteActiviti esFlag	boolean		The flag that indicates whether activities removed from the P6 Schedule are deleted in Unifier.
UnifierEnabledFlag	boolean		The flag that indicates whether P6 integration with Unifier schedule sheet is enabled.
UnifierProjectName	string		Field to specify Unifier project number.
UnifierProjectNumb er	string restricted to maxLength(20 0)		The Unifier project number.
UnifierScheduleSh eetName	string restricted to maxLength(20 0)		The Unifier schedule sheet name.
UnitPerTimeOverti meFactor	string restricted to maxLength(20 0)		Field that specifies to use role or resource unitPerTime and overtime factor.
UseExpectedFinish Dates		x	The option used for setting activity finish dates as the expected finish dates when scheduling projects.

UseProjectBaseline ForEarnedValue	boolean		x	The flag that indicates whether earned value should be calculated based on the project baseline or the user's primary baseline. This setting only affects Project Management, not the Integration API or Primavera's Web application.
WBSCategoryObje ctId	int		х	The unique ID of the associated WBS category value. Note that the label used for the WBS category is dynamic; it is controlled by the system administrator.
WBSCodeSeparato r	string restricted to maxLength(2)		x	The character used to separate the concatenated code fields for the project's WBS tree.
WBSHierarchyLeve ls	int		x	The option used for specifying WBS Hierachy sync level
WBSMilestonePerc entComplete	double	x		The WBSMilestonePercentComplete field determines whether to calculate earned value by defining milestones at the WBS level and assigning a level of significance or weight to each of them. As progress occurs and you mark each milestone complete, the WBS element's performance percent complete is calculated based on the weight of the milestone.
WBSObjectId	int	х	x	The internal WBS ID of the project. This ID cannot be used to load a WBS object directly.
WebSiteRootDirect ory	string restricted to maxLength(12 0)		x	The root directory for storing project Web site files before they are published to the Web server.
WebSiteURL	string restricted to maxLength(20		х	The project Web site URL, which is the Web address of the project's website.

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BaselineProject Service

Operations:

ReadBaselineProjects Operation (on page 647) UpdateBaselineProjects Operation (on page 648) DeleteBaselineProjects Operation (on page 648) GetFieldLengthBaselineProject Operation (on page 649) RestoreBaselineProject Operation (on page 649) LinkBaselineActivity Operation (on page 649)

WSDL: BaselineProject.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/BaselineProject/V2

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/BaselineProjectService?wsdl https://<hostname>:<port number>/p6ws/services/BaselineProjectService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.baselineproject.BaselineProjectService

Description:

A baseline is a complete copy of a project plan that you can compare to the current schedule to evaluate progress. Baselines can be used to perform cost and schedule analysis. Before you update a schedule for the first time, you should create a baseline plan in the Project Management application.

The simplest baseline plan is a complete copy, or snapshot, of the original schedule. This snapshot provides a target against which you can track a project's cost, schedule, and performance. When you create a baseline, you can save a copy of the current project to use as the baseline or you can choose to convert another project in the EPS hierarchy to a baseline for the current project.

You can save an unlimited number of baselines per project; however, the number of baselines you can actually save per project is determined by administrative preference settings, which are typically controlled by the project controls coordinator or administrator. Regardless of the number of baselines you save for a project, at any given time you can select only up to three baselines for comparison purposes. The Baselines feature includes an option for you to specify which baselines you want to use for comparison. You must select a primary baseline. The primary baseline is used for project/activity usage spreadsheets and profiles, as well as earned value calculations. Second and third baselines are not required.

BaselineProjects may not be directly summarized by the summarizer job service. Baseline projects will have summary data if the summarizer job service was used to summarize the project that was used to create the baseline before the baseline was created. The StartDate and FinishDate fields are based on summary data.

This business object supports user defined fields (UDFs) and codes. Use the UDFValue business object to assign UDFs, and the ProjectCodeAssignment business object to assign ProjectCodes.

CreateBaselineProjects

Description: Creates BaselineProject objects in the database. You can create up to 1000 BaselineProject objects with a single call.

Service: BaselineProject Service (on page 646)

Style: Document/literal wrapped

Input:

Message: CreateBaselineProjects

Elements: One to many field names from the **BaselineProject Fields** (on page 650) field list

Required Fields:

ParentEPSObjectId

ld

Name

Output:

Message: CreateBaselineProjectsResponse Output: Zero to many ObjectId elements

ReadBaselineProjects Operation

Description: Reads BaselineProject objects from the database.

Service: BaselineProject Service (on page 646)

Style: Document/literal wrapped

Input:

Message: ReadBaselineProjects

Elements: One to many field names from the **BaselineProject Fields** (on page 650) field list

You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadBaselineProjectsResponse

Output: Zero to many BaselineProject elements that contain BaselineProject fields.

UpdateBaselineProjects Operation

Description: Updates multiple BaselineProject objects in the database. You can update up to 1000 BaselineProject objects with a single call.

Service: BaselineProject Service (on page 646)

Style: Document/literal wrapped

Input:

Message: UpdateBaselineProjects

Elements: BaselineProject elements that contain **BaselineProject Fields** (on page 650) fields.

Required fields: The ObjectId must be specified.

Output:

Message: UpdateBaselineProjectsResponse Output: boolean

DeleteBaselineProjects Operation

Description: Deletes multiple BaselineProject objects in the database. You can delete up to 1000 BaselineProject objects with a single call.

Service: BaselineProject Service (on page 646)

Style: Document/literal wrapped

Input:

Message: DeleteBaselineProjects Elements: One to many ObjectId elements

Output:

Message: DeleteBaselineProjectsResponse Output: boolean

GetFieldLengthBaselineProject Operation

Description: Returns length of variable character fields for a BO.

Service: BaselineProject Service (on page 646)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthBaselineProject Elements: FieldLength

Output:

Message: GetFieldLengthBaselineProjectResponse Elements: One to many FieldLengthBaselineProjects.

RestoreBaselineProject Operation

Description: This operation restores a BaselineProject. The BaselineProject and its project unlink and become separate projects.

Service: BaselineProject Service (on page 646)

Style: Document/literal wrapped

Input:

Message: RestoreBaselineProject Elements: ObjectId

Output:

Message: RestoreBaselineProjectResponse Elements: ObjectId

LinkBaselineActivity Operation

Description: This operation links a baseline project with its activities.

Service: BaselineProject Service (on page 646)

Style: Document/literal wrapped

Input:

Message: LinkBaselineActivity Elements:

Field	Туре	Description
ObjectId	int	The unique identifier for the baseline project.
ParmProjectActivityObjectId	int	The unique identifier for an activity of a project.
ParmBaselineProjectActivityObj ectId	int	The unique identifier for an activity of BaselineProject.

Output:

Message: LinkBaselineActivityResponse Output: boolean

BaselineProject Fields

Field	Туре	Read Only	Filterab le Ordera ble	Description
ActivityDefaultActivit yType	string restricted to 'Task Dependent' 'Resource Dependent' 'Level of Effort' 'Start Milestone' 'Finish Milestone' 'WBS Summary'		x	The default type for activities. Possible values are 'Task Dependent', 'Resource Dependent', 'Level of Effort', or 'Milestone'. A 'Task Dependent' activity is scheduled using the activity's calendar rather than the calendars of the assigned resources. A 'Resource Dependent' activity is scheduled using the calendars of the assigned resources. This type is used when several resources are assigned to the activity, but they may work separately. A 'Milestone' is a zero-duration activity without resources, marking a significant project

Field	Туре	Read Only	Filterab le Ordera ble	Description event. A 'Level of Effort' activity
				has a duration that is determined by its dependent activities. Administration-type activities are typically 'Level of Effort'.
ActivityDefaultCalen darObjectId	int		x	The unique ID of the calendar assigned to new activities by default. Can be null for EPS and baselines.
ActivityDefaultCostA ccountObjectId	int		х	The unique ID of the cost account assigned to new activities and project expenses by default.
ActivityDefaultDurati onType	string restricted to 'Fixed Units/Time' 'Fixed Duration and Units/Time' 'Fixed Units' 'Fixed Duration and Units'		x	The duration type assigned to new activities by default. Valid values are 'Fixed Units/Time', 'Fixed Duration and Units/Time', 'Fixed Units', or 'Fixed Duration and Units'.
ActivityDefaultPerce ntCompleteType	string restricted to 'Physical' 'Duration' 'Units' 'Scope'		x	The percent complete type assigned to new activities by default. Valid values are 'Physical', 'Duration', 'Units', and 'Scope'. 'Scope' is only a valid option when P6 is integrated with Oracle Primavera Cloud for scope management.
ActivityDefaultPriceP erUnit	double restricted to minInclusive(0.0)		х	The price used to estimate resource costs for activities that have planned, actual, or remaining units, but no resource assignments. This price is also used to compute costs for activities in cases where resources are assigned but the

Field	Туре	Read Only	Filterab le Ordera ble	Description resources have no prices. Resource cost is computed as the resource units multiplied by the
ActivityDefaultRevie wRequired	boolean			price per time. The indicator that determines whether status changes for new activities must be approved by default.
ActivityIdBasedOnSe lectedActivity	boolean		x	The flag that indicates how to auto-number activity IDs for new activities-Y/N - Y means use the selected activity's activity ID as prefix, N means use standard auto-numbering based on the prefix, suffix. Default = 'N'
ActivityIdIncrement	int		x	The increment used for auto-numbering of activity IDs. When a new activity is created, the activity ID is automatically generated using auto-numbering. Activity ID auto-numbering concatenates the prefix and the suffix, with the suffix incremented to make the code unique. Example: 'A', '1000', '10' yields activity IDs of 'A1010', 'A1020', 'A1030', etc.
ActivityIdPrefix	string restricted to maxLength(2 0)		x	The prefix used for auto-numbering of activity IDs. When a new activity is created, the activity ID is automatically generated using auto-numbering. Activity ID auto-numbering concatenates the prefix and the suffix, with the suffix incremented to make the code unique. Example: 'A', '1000', '10' yields activity IDs of 'A1010', 'A1020', 'A1030', etc.
ActivityIdSuffix	int		х	The suffix used for auto-numbering of activity IDs.

Field	Туре	Read Only	Filterab le Ordera ble	Description When a new activity is created, the activity ID is automatically generated using auto-numbering. Activity ID auto-numbering concatenates the prefix and the suffix, with the suffix incremented to make the code unique. Example: 'A', '1000', '10' yields activity IDs of 'A1010', 'A1020', IA1020', atta
ActivityPercentComp leteBasedOnActivity Steps	boolean		x	'A1030', etc. The flag that indicates whether activity physical percent complete is automatically computed from the activity steps completed.
AddActualToRemaini ng	boolean		x	The flag that indicates whether to add actual to remaining or to subtract actual from at complete when actual units and costs are updated. Default = 'Y'
AddedBy	string restricted to maxLength(3 2)		х	The name of the user who added the project to the database.
AllowStatusReview	boolean		х	The indicator that determines whether status updates to activities in a project are eligible for manual approval before commiting changes.
AnnualDiscountRate	double restricted to minInclusive(0.0) maxInclusive (100.0)		x	The user-defined number field that identifies the discount rate for the project.
AnticipatedFinishDat e	dateTime		x	The anticipated finish date of WBS, project and EPS elements. User-entered - not dependent upon any other fields. If there are no children, the anticipated finish

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Field	Туре	Read Only	Filterab le Ordera ble	Description
				date will be the finish date displayed in the columns.
AnticipatedStartDate	dateTime		x	The anticipated start date of WBS, project and EPS elements. User-entered - not dependent upon any other fields. If there are no children, the anticipated start date will be the start date displayed in the columns.
AssignmentDefaultD rivingFlag	boolean		x	The default flag assigned to new assignments, to indicate whether assignments will drive activity dates.
AssignmentDefaultR ateType	string restricted to 'Price / Unit' 'Price / Unit 2' 'Price / Unit 3' 'Price / Unit 4' 'Price / Unit 5'		x	The default rate type when adding resource assignments to a project. Valid values are 'Price / Unit', 'Price / Unit2', 'Price / Unit3', 'Price / Unit4', and 'Price / Unit5'.
BaselineTypeName	string	x		The name of the baseline type for this project baseline. Baseline types are used to categorize project baselines.
BaselineTypeObjectI d	int		x	The unique ID of the baseline type.
CheckOutDate	dateTime	x	x	The date on which the baseline project was checked out of the Project Management database.
CheckOutStatus	boolean	x	x	The flag that indicates that the baseline project is currently checked out to an external file or database and is being managed

Field	Туре	Read Only	Filterab le Ordera ble	Description
				remotely.
CheckOutUserObjec tld	int	х	x	The unique ID of the User that checked out this baseline project.
ContainsSummaryD ata	boolean	х	x	The flag that indicates that the WBS has been summarized.
CostQuantityRecalcu lateFlag	boolean		x	The flag that indicates whether quantities should be updated when costs are updated, if costs and quantities are linked.
CreateDate	dateTime	х	x	The date this project baseline was created.
CreateUser	string restricted to maxLength(2 55)	х	x	The name of the user that created this project baseline.
CriticalActivityFloatLi mit	double restricted to minInclusive(0.0)		x	The duration used to determine if an activity is critical. When an activity has total float that is less than or equal to this duration, the activity is marked as critical.
CriticalActivityPathTy pe	string restricted to 'Critical Float' 'Longest Path'		x	The critical path type, which indicates how critical path activities are identified for the project, based on either 'Critical Float' or 'Longest Path'.
CurrentBudget	double restricted to minInclusive(0.0)	х		The sum of the original budget plus the approved and pending budgets from the budget change log.
CurrentVariance	double	х		The current budget minus the total spending plan.

Field	Туре	Read Only	Filterab le Ordera ble	Description
DataDate	dateTime			The current data date for the project. The project status is up to date as of the data date. The data date is modified when project actuals are applied.
DateAdded	dateTime		x	The date on which the project was added to the Project Management database.
DefaultPriceTimeUni ts	string restricted to '' 'Day' 'Week' 'Month' 'Year' 'Days Hours' 'Hours Minutes'		x	The time units associated with the project's default price per time. Valid values are 'Hour', 'Day', 'Week', 'Month', and 'Year'.
Description	string restricted to maxLength(5 00)		x	The description of the Project.
DiscountApplication Period	string restricted to 'Month' 'Quarter' 'Year'		x	the timescale for entering ROI spending and benefit plan. Valid values are 'Month', 'Quarter', or 'Year'.
DistributedCurrentBu dget	double	x		The sum of the current budget values from one level lower.
EnablePublication	boolean		x	Enables the project to be processed by the Project Arbiter service.

Field	Туре	Read Only	Filterab le Ordera ble	Description
EnableSummarizatio n	boolean		x	The flag which, when true, causes the Summarizer service to automatically summarize the project. If this is false, the project will be skipped during the summary run.
FinancialPeriodTmpll d	int		х	The unique identifier of the financial period calendar assigned to the project.
FinishDate	dateTime	x		The finish date of the baseline project. This field depends on summary data that was created when the original project was last summarized before this baseline was created.
FiscalYearStartMont h	int		x	The month that marks the beginning of the fiscal year for the project.
ForecastFinishDate	dateTime	х		The alternate end date to be optionally used by the scheduler).
ForecastStartDate	dateTime	х		The alternate start date to be optionally used by the scheduler.
GUID	string restricted to pattern '\{[0-9a-fA-F] {8}-[0-9a-fA- F]{4}-[0-9a-f A-F]{4}-[0-9a -fA-F]{4}-[0-9 a-fA-F]{12}\}		x	The globally unique ID generated by the system.
HasFutureBucketDat a	boolean	х		The flag that indicates whether a resource assignment in the baseline has future bucket data.
HistoryInterval	string		Х	The time interval for how

Field	Туре	Read Only	Filterab le Ordera ble	Description
	restricted to " 'Wonth' 'Week' 'Quarter' 'Year' 'Financial Period' 'Daily'			historical project data is stored for use in P6 Analytics, could be 'Month', 'Week', 'Quarter', 'Year' and 'Financial Period'.
HistoryLevel	string restricted to '' 'None' 'Project' 'WBS' 'Activity'		x	The level of historical project data that is stored for use in P6 Analytics, cab be 'None', 'Project', 'WBS' and 'Activity'.
ld	string restricted to maxLength(4 0)		x	The short code assigned to each WBS element for identification. Each WBS element is uniquely identified by concatenating its own code together with its parents' codes.
IndependentETCLab orUnits	double		x	The user-entered ETC total labor.

Field	Туре	Read Only	Filterab le Ordera ble	Description
IndependentETCTot alCost	double		x	The user-entered ETC total cost.
IntegratedWBS	boolean		x	The flag that determines whether the WBS is integrated with another application.
LastBaselineUpdate Date	dateTime		x	The date this project baseline was last changed by Baseline Update in Project Management.
LastFinancialPeriod ObjectId	int		x	The unique ID of the last closed financial period for the baseline project.
LastLevelDate	dateTime	x	x	The date the project was last leveled.

Field	Туре	Read Only	Filterab le Ordera ble	Description
LastPublishedOn	dateTime	x	x	The date the project was last published.
LastScheduleDate	dateTime	x	x	The date the project was last scheduled.
LastSummarizedDat e	dateTime	x	x	The date the project was last summarized.
LastUpdateBaseline Options	string			The last options used when the baseline project was updated by the Update Baseline module.
LastUpdateDate	dateTime	x	x	The date this project baseline was last updated.

Field	Туре	Read Only	Filterab le Ordera ble	Description
LastUpdateUser	string restricted to maxLength(2 55)	x	x	The name of the user that last updated this project baseline.
LevelingPriority	int restricted to minInclusive(1) maxInclusive (100)		x	The priority for scheduling.
LinkActualToActualT hisPeriod	boolean		x	The flag that determines whether actual units and costs are linked to actual-this-period units and costs. Default = 'Y'
LinkPercentComplet eWithActual	boolean		x	The flag that determines whether actual units and cost should be recalculated when percent complete changes. Default = 'N'
LinkPlannedAndAtC ompletionFlag	boolean		x	The flag that indicates whether the At Completion Cost/Units should be linked to Planned Cost/Units for not-started activities. Default = 'Y'

Field	Туре	Read Only	Filterab le Ordera ble	Description
LocationName	string restricted to maxLength(1 00)	x	x	The name of the location assigned to the project.
LocationObjectId	int		x	The unique ID of the location assigned to the project.
MustFinishByDate	dateTime		x	The date by which all project activities must finish. If entered, it is used as the project late finish date by the project scheduler.
Name	string restricted to maxLength(1 00)		x	The name of the baseline project.
OBSName	string restricted to maxLength(1 00)	x	x	The name of the person/role in the organization, sometimes referred to as the "responsible manager".

Field	Туре	Read Only	Filterab le Ordera ble	Description
OBSObjectId	int		x	The unique ID of the project manager from the project's OBS tree who is responsible for the WBS.
ObjectId	int		x	The unique ID generated by the system.
OriginalBudget	double restricted to minInclusive(0.0)		x	The original budget for the baseline project.
OriginalProjectObjec tId	int	x	x	The unique ID of the project from which the project baseline was created, if the current project is a project baseline.
OwnerResourceObje ctId	int		x	The unique ID of the Owner Resource of this baseline project.

Field	Туре	Read Only	Filterab le Ordera ble	Description
ParentEPSObjectId	int		x	The unique ID of the parent EPS of this baseline project.
ParentWbsCode	string	x	x	The short name of the parent EPS of this project.
PlannedStartDate	dateTime		x	The planned start date of the project. Used by the project scheduler.
PrimaryResourcesC anMarkActivitiesAsC ompleted	boolean		x	The flag that indicates whether primary resources can mark the project activities as completed. If not selected, a primary resource can only mark an activity as For Review. In this case the project manager reviews the activity and marks it as either Rejected or completed.
ProjectForecastStart Date	dateTime		x	The alternate start date to be optionally used by the scheduler. The user sets the alternate start date by dragging the project bar in the Gantt Chart while manually leveling the resource profile in a resource analysis layout.

Field	Туре	Read Only	Filterab le Ordera ble	Description
ProjectScheduleTyp e	string restricted to " 'Duration' 'Resource' 'Cost'		x	The type of schedule data to send to Primavera Unifier.
ProposedBudget	double	x		The sum of the original budget plus the approved and pending budgets from the budget change log.
PublicationPriority	int		x	A priority value the Project Arbiter service uses to determine the order in which projects are submitted to the service queue, where 1 is highest priority and 100 is lowest priority.
ResetPlannedToRe mainingFlag	boolean		x	The flag that indicates whether to reset Planned Duration and Units to Remaining Duration and Units, or to reset Remaining Duration and Units to Planned Duration and Units when the Activity Status is or becomes not started. Default = 'Y'
ResourceCanBeAssi gnedToSameActivity MoreThanOnce	boolean		x	The flag that indicates whether a resource can be assigned more than once to the same activity. This is useful when the resource is expected to perform more than one role on an activity, for example, documentation plus QA.

			Filterab	
Field	Туре	Read Only	le Ordera ble	Description
ResourceName	string restricted to maxLength(2 25)	x	х	The name of the resource assigned as the Project Owner.
ResourcesCanAssig nThemselvesToActiv ities	boolean		x	The flag that indicates whether timesheet application users are allowed to assign themselves to activities in this project.
ResourcesCanAssig nThemselvesToActiv itiesOutsideOBSAcc ess	boolean		x	The flag that indicates whether timesheet application users are allowed to assign themselves to activities in this project even if the resource does not have access to the relevant OBS for the activity.
ResourcesCanEditA ssignmentPercentCo mplete	boolean		x	The flag that indicates whether the project's resource can use the timesheet application to update remaining units or percent complete for their activities.
ResourcesCanStaffR oleAssignment	boolean		x	The flag that indicates whether team-member's application users are allowed to staff themselves to empty role assignments in this project.

Field	Туре	Read Only	Filterab le Ordera ble	Description
RiskExposure	double	x		The calculated exposure value for the project.
RiskLevel	string restricted to 'Very High' 'High' 'Medium' 'Low' 'Very Low'			The risk level assigned to the project: 'Very High', 'High', 'Medium', 'Low', and 'Very Low'.
RiskMatrixObjectId	int		x	The unique ID of the associated Risk Matrix.
RiskScore	int	x		The calculated risk score for the project.
ScheduledFinishDat e	dateTime		x	The early finish date of the latest activity in the project, as computed by the project scheduler.

Field	Туре	Read Only	Filterab le Ordera ble	Description
StartDate	dateTime	x		The start date of the baseline project. This field depends on summary data that was created when the original project was last summarized before this baseline was created.
Status	string restricted to 'Planned' 'Active' 'Inactive' 'What-If' 'Requested' 'Template'		x	The project status: 'Planned', 'Active', 'Inactive', 'What-If', or 'Requested'.
StatusReviewerNam e	string	x		The the names of the users reviewing status updates.
StatusReviewerObje ctId	string		x	The unique IDs of the users reviewing status updates.

Field	Туре	Read Only	Filterab le Ordera ble	Description
StrategicPriority	int restricted to minInclusive(1) maxInclusive (10000)		x	The baseline project's priority. The range is from 1 to 10,000.
SummarizeToWBSL evel	int	x	x	The maximum level within the project's WBS to perform summarization - default to 2.
SummarizedDataDat e	dateTime	x	x	The data date of the project when it was last summarized-only updated by summarizer.
SummaryAccounting VarianceByCost	double	x		the Planned Value minus the Actual Cost. A negative value indicates that the Actual Cost has exceeded the Planned Value.
SummaryAccounting VarianceByLaborUni ts	double	x		the Planned Value Labor Units minus the Actual Units. Negative value indicates that Actual Units have exceeded the Planned Value Labor Units.

Field	Туре	Read Only	Filterab le Ordera ble	Description
SummaryActivityCou nt	int	x		the number of activities that are currently in progress.
SummaryActualDura tion	double	x		The actual duration.
SummaryActualExpe nseCost	double	x		The actual costs for all project expenses associated with the project.
SummaryActualFinis hDate	dateTime	x		The latest actual finish date of all activities in the project.
SummaryActualLabo rCost	double	x		The actual cost for all labor resources assigned to the activity.

Field	Туре	Read Only	Filterab le Ordera ble	Description
SummaryActualLabo rUnits	double	x		The actual labor units.
SummaryActualMate rialCost	double	x		The actual units for all material resources assigned to the activity.
SummaryActualNon LaborCost	double	x		The actual units for all nonlabor resources assigned to the activity.
SummaryActualNon LaborUnits	double	x		The actual nonlabor units.
SummaryActualStart Date	dateTime	x		The earliest actual start date of all activities in the project.

Field	Туре	Read Only	Filterab le Ordera ble	Description
SummaryActualThis PeriodCost	double	x		The actual this period cost (will be labor or nonlabor).
SummaryActualThis PeriodLaborCost	double	x		The actual this period labor cost
SummaryActualThis PeriodLaborUnits	double	x		The actual this period labor units.
SummaryActualThis PeriodMaterialCost	double	x		The actual this period material cost.
SummaryActualThis PeriodNonLaborCost	double	x		The actual this period nonlabor cost.

Field	Туре	Read Only	Filterab le Ordera ble	Description
SummaryActualThis PeriodNonLaborUnit s	double	x		The actual this period nonlabor units.
SummaryActualTotal Cost	double	x		The actual labor cost + actual nonlabor cost + actual expense cost as of the project data date.
SummaryActualValu eByCost	double	x		the actual total cost incurred on the activity as of the project data date, computed as Actual Labor Cost + Actual Nonlabor Cost + Actual Material Cost + Actual Expense Cost.
SummaryActualValu eByLaborUnits	double	x		the actual total labor units for the activity as of the project data date (that is, actual total cost by labor units).
SummaryAtCompleti onDuration	double	x		The duration at completion.

Field	Туре	Read Only	Filterab le Ordera ble	Description
SummaryAtCompleti onExpenseCost	double	x		the sum of the actual plus remaining cost for all project expenses associated with the cost account. Computed as Actual Expense Cost + Remaining Expense Cost.
SummaryAtCompleti onLaborCost	double	x		The sum of the actual plus remaining costs for all labor resources assigned to the activity. Computed as actual labor cost + remaining labor cost. Same as the planned labor costs if the activity is not started and the actual labor costs once the activity is completed.
SummaryAtCompleti onLaborUnits	double	x		The sum of the actual plus remaining units for all labor resources assigned to the activity. Computed as actual labor units + remaining labor units. Same as the planned labor units if the activity is not started and the actual labor units once the activity is completed.
SummaryAtCompleti onMaterialCost	double	x		The material cost at completion. It is the sum of the actual plus remaining costs for all material resources assigned to the activity. Computed as actual material cost + remaining material cost. Same as the planned material costs if the activity is not started and the actual material costs once the activity is completed.

Field	Туре	Read Only	Filterab le Ordera ble	Description
SummaryAtCompleti onNonLaborCost	double	x		The nonlabor cost at completion. It is the sum of the actual plus remaining costs for all nonlabor resources assigned to the activity. Computed as actual nonlabor cost + remaining nonlabor cost. Same as the planned nonlabor costs if the activity is not started and the actual nonlabor costs once the activity is completed.
SummaryAtCompleti onNonLaborUnits	double	x		The nonlabor units at completion. It is the sum of the actual plus remaining units for all nonlabor resources assigned to the activity. Computed as actual nonlabor units + remaining nonlabor units. Same as the planned nonlabor units if the activity is not started and the actual nonlabor units once the activity is completed.
SummaryAtCompleti onTotalCost	double	x		The estimated cost at completion for the activity. Computed as the actual total cost plus the estimate-to-complete cost; EAC = ACWP + ETC. Note that the method for computing ETC depends on the earned-value technique selected for the activity's WBS.
SummaryAtCompleti onTotalCostVariance	double	x		the Baseline Planned Total Cost - At Completion Total Cost.

Field	Туре	Read Only	Filterab le Ordera ble	Description
SummaryBaselineCo mpletedActivityCount	int	х		The number of completed activities in the baseline.
SummaryBaselineDu ration	double	x		the planned duration for the activity in the primary baseline. Planned duration is the total working time from the activity current start date to the current finish date. Same as the actual duration plus the remaining duration. The total working time is computed using the activity's calendar.
SummaryBaselineEx penseCost	double	x		the planned cost for all project expenses associated with the activity in the primary baseline. Computed as the baseline actual expense cost plus the baseline remaining expense cost.
SummaryBaselineFi nishDate	dateTime	x		The current latest finish date of all activities in the project for the current baseline.

Field	Туре	Read Only	Filterab le Ordera ble	Description
SummaryBaselineIn ProgressActivityCou nt	int	x		The number of in-progress activities in the baseline.
SummaryBaselineLa borCost	double	x		the planned cost for all labor resources assigned to the activity in the primary baseline. Computed from the baseline At Completion labor units. If no resources are assigned, computed as the activity Baseline Planned Labor Units * Project Default Price / Time.
SummaryBaselineLa borUnits	double	x		the planned units for all labor resources assigned to the activity in the primary baseline. Computed as the baseline actual labor units plus the baseline remaining labor units.
SummaryBaselineM aterialCost	double	x		the planned cost for all material resources assigned to the activity in the primary baseline. Computed from the baseline At Completion nonlabor units. If no resources are assigned.
SummaryBaselineNo nLaborCost	double	x		the planned cost for all nonlabor resources assigned to the activity in the primary baseline. Computed from the baseline At Completion nonlabor units. If no resources are assigned, computed as the activity Baseline Planned Nonlabor Units * Project

Field	Туре	Read Only	Filterab le Ordera ble	Description Default Price / Time.
SummaryBaselineNo nLaborUnits	double	x		the planned units for all nonlabor resources assigned to the activity in the primary baseline. Computed as the baseline actual nonlabor units plus the baseline remaining nonlabor units.
SummaryBaselineNo tStartedActivityCount	int	x		The number of activities not started in the baseline.
SummaryBaselineSt artDate	dateTime	x		The current earliest start date of all activities in the WBS for the current baseline.
SummaryBaselineTo talCost	double	x		the Planned Total Cost for the activity in the primary baseline, including labor resources, nonlabor resources, and project expenses. Baseline Planned Total Cost = Baseline Planned Labor Cost + Baseline Planned Nonlabor Cost + Baseline Planned Expense Cost.

Field	Туре	Read Only	Filterab le Ordera ble	Description
SummaryBudgetAtC ompletionByCost	double	x		the Planned Total Cost through activity completion. Computed as Planned Labor Cost + Planned Nonlabor Cost + Planned Expense Cost, same as the Planned Total Cost.
SummaryBudgetAtC ompletionByLaborUn its	double	x		the Baseline Planned Labor Cost + Baseline Planned Nonlabor Cost + Baseline Planned Expense Cost. Same as the Baseline Planned Total Cost.
SummaryCompleted ActivityCount	int	x		the number of activities that have an Actual Finish in the WBS.
SummaryCostPerce ntComplete	double	x		The percent complete of cost for all nonlabor resources assigned. Computed as Actual Nonlabor Cost / At Completion Nonlabor Cost * 100. Always in the range 0 to 100.
SummaryCostPerce ntOfPlanned	double	x		The activity actual cost percent of planned. Computed as actual total cost / baseline total cost * 100, or equivalently as ACWP / BAC * 100. The value can exceed 100. The baseline total cost is the activity's at completion cost from the current baseline. This field is named

Field	Туре	Read Only	Filterab le Ordera ble	Description SummaryCostPercentOfBudget in Primavera's Engineering & Construction and Maintenance & Turnaround solutions.
SummaryCostPerfor manceIndexByCost	double	x		the Earned Value divided by the Actual Cost. A value less than 1 indicates that the Actual Cost has exceeded the Planned Value.
SummaryCostPerfor manceIndexByLabor Units	double	x		the Earned Value Labor Units / Actual Labor Units.
SummaryCostVarian ceByCost	double	x		the Earned Value minus the Actual Cost. A negative value indicates that the Actual Cost has exceeded the Planned Value.
SummaryCostVarian ceByLaborUnits	double	x		the Earned Value Labor Cost minus Actual Value Labor Cost.

Field	Туре	Read Only	Filterab le Ordera ble	Description
SummaryCostVarian ceIndex	double	x		The value that is calculated as the Cost Variance divided by Earned Value.
SummaryCostVarian ceIndexByCost	double	x		the Cost Variance divided by Earned Value.
SummaryCostVarian ceIndexByLaborUnit s	double	x		the Cost Variance Labor Units divided by Earned Value Labor Units.
SummaryDurationPe rcentComplete	double	x		The activity actual duration percent of planned. Computed as (baseline planned duration - remaining duration) / baseline planned duration * 100. The baseline planned duration is the activity's at complete duration from the primary baseline.
SummaryDurationPe rcentOfPlanned	double	x		The summary actual duration percent of planned of all activities under this project. Computed as actual duration / baseline duration * 100. The value can exceed 100. The Baseline duration is the activity's at complete duration from the current baseline.

Field	Туре	Read Only	Filterab le Ordera ble	Description
SummaryDurationVa riance	double	x		The duration between the activity's baseline duration and the at complete duration. Computed as baseline planned duration - at completion duration.
SummaryEarnedVal ueByCost	double	x		the Budget at Completion * Performance % Complete. The method for computing the Performance Percent Complete depends on the Earned Value technique selected for the activity's WBS. Budget at Completion is computed from the primary baseline.
SummaryEarnedVal ueByLaborUnits	double	x		the portion of the baseline labor units that is actually completed as of the project data date. Computed as Baseline Labor Units * Performance % Complete. The planned labor units performed is essentially the labor units Earned Value for the activity. The method for computing the Performance % Complete depends on the Earned Value technique selected for the activity's WBS. The Baseline Labor Units is taken from the current baseline.
SummaryEstimateAt CompletionByCost	double	x		the Actual Cost plus the Estimate to Complete Cost. The method for computing Estimate to Complete depends on the Earned Value technique selected for the activity's WBS.

Field	Туре	Read Only	Filterab le Ordera ble	Description
SummaryEstimateAt CompletionByLabor Units	double	x		the Actual Labor Units + Estimate To Complete Labor Units. (Estimate To Complete Labor Units is calculated based off of the Earned Value setting on the WBS.)
SummaryEstimateAt CompletionHighPerc entByLaborUnits	double	x		the high forecast of Estimate At Completion (EAC) by labor units.
SummaryEstimateAt CompletionLowPerc entByLaborUnits	double	x		the low forecast of Estimate At Completion (EAC) by labor units.
SummaryEstimateTo CompleteByCost	double	x		the Remaining Total Cost for the activity or the Performance Factor * (Budget at Completion - Earned Value), depending on the Earned Value technique selected for the activity's WBS (calculated from the primary baseline).
SummaryEstimateTo CompleteByLaborUn its	double	x		the estimated quantity to complete the activity. Computed as either the remaining total units for the activity, or as Performance Factor * (Baseline Planned Labor Units - Planned Quantity of Work Performed), depending on the Earned Value Technique selected for the activity's WBS.

Field	Туре	Read Only	Filterab le Ordera ble	Description
SummaryExpenseC ostPercentComplete	double	x		The percent complete of cost for all expenses associated with the project. It is computed as Actual Expense Cost / At Complete Expense Cost * 100, and it is always in the range of 0 to 100.
SummaryExpenseC ostVariance	double	x		the Baseline Planned Expense Cost - At Completion Expense Cost (At Completion Expense Cost = Actual Expense Cost + Remaining Expense Cost).
SummaryFinishDate Variance	double	x		The duration between the finish date in the current project and the baseline finish date. Calculated as finish date - baseline finish date.
SummaryInProgress ActivityCount	int	x		the number of activities that are currently in progress.
SummaryLaborCost PercentComplete	double	x		The percent complete of cost for all labor resources assigned to the project. It is computed as Actual Labor Cost / At Complete Labor Cost * 100, and it is always in the range of 0 to 100.

Field	Туре	Read Only	Filterab le Ordera ble	Description
SummaryLaborCost Variance	double	x		the Baseline Planned Labor Cost - At Completion Labor Cost.
SummaryLaborUnits PercentComplete	double	x		The percent complete of units for all labor resources for the WBS. Computed as actual labor units / at complete labor units * 100. Always in the range 0 to 100.
SummaryLaborUnits Variance	double	x		The difference between baseline labor units and at completion labor units. Calculated as baseline labor units - at completion labor units.
SummaryMaterialCo stPercentComplete	double	x		The percent complete of cost for all material resources assigned to the project. It is computed as Actual Material Cost / At Complete Material Cost * 100, and it is always in the range of 0 to 100.
SummaryMaterialCo stVariance	double	x		The variance that is calculated as Baseline Material Cost - At Completion Material Cost.

Field	Туре	Read Only	Filterab le Ordera ble	Description
SummaryNonLaborC ostPercentComplete	double	x		The percent complete of cost for all non-labor resources assigned to the project. It is computed as Actual Nonlabor Cost / At Complete Nonlabor Cost * 100, and it is always in the range of 0 to 100.
SummaryNonLaborC ostVariance	double	x		the Baseline Planned Nonlabor Cost - At Completion Nonlabor Cost.
SummaryNonLaborU nitsPercentComplete	double	x		The percent complete of units for all nonlabor resources for the Project. Computed as Actual Nonlabor Cost / At Completion Nonlabor Cost * 100. Always in the range 0 to 100.
SummaryNonLaborU nitsVariance	double	x		The difference between baseline nonlabor units and at completion non labor units. Calculated as baseline nonlabor units - at completion nonlabor units.
SummaryNotStarted ActivityCount	int	x		the number of activities that are currently not started.

Field	Туре	Read Only	Filterab le Ordera ble	Description
SummaryPerforman cePercentComplete ByLaborUnits	double	x		the percent complete of units for the resource assignments in the WBS Computed as Actual Units / At Complete Units * 100. Always in the range 0 to 100.
SummaryPlannedCo st	double	x		The sum of all planned expense, non labor, labor, and material costs in the baseline project.
SummaryPlannedDu ration	double	x		The total working days between planned start and finish dates in the baseline project.
SummaryPlannedEx penseCost	double	x		The sum of all planned expense costs in the baseline project.
SummaryPlannedFin ishDate	dateTime	x		The latest planned finish date of all activities in the baseline project.

Field	Туре	Read Only	Filterab le Ordera ble	Description
SummaryPlannedLa borCost	double	x		The sum of all planned labor costs in the baseline project.
SummaryPlannedLa borUnits	double	x		The sum of all planned labor units in the baseline project.
SummaryPlannedMa terialCost	double	x		The sum of all planned material costs in the baseline project.
SummaryPlannedNo nLaborCost	double	x		The sum of all planned non labor costs in the baseline project.
SummaryPlannedNo nLaborUnits	double	x		The sum of all planned non labor units in the baseline project.

Field	Туре	Read Only	Filterab le Ordera ble	Description
SummaryPlannedSt artDate	dateTime	x		The earliest planned start date of all activities in the baseline project.
SummaryPlannedVal ueByCost	double	x		the Budget at Completion * Schedule % Complete. The Schedule % Complete specifies how much of the activity's baseline duration has been completed so far. Budget at Completion is computed from the primary baseline
SummaryPlannedVal ueByLaborUnits	double	x		the portion of the baseline labor units that is scheduled to be completed as of the project data date. Computed as Baseline Labor Units * Schedule % Complete. The Schedule % Complete specifies how much of the activity's baseline duration has been completed so far. The Baseline Labor Units is taken from the current baseline.
SummaryProgressFi nishDate	dateTime	x		the date the activity is expected to be finished according to the progress made on the activity's work products. The expected finish date is entered manually by people familiar with progress of the activity's work products.

Field	Туре	Read Only	Filterab le Ordera ble	Description
SummaryRemaining Duration	double	x		The total working time from the WBS remaining start date to the remaining finish date.
SummaryRemaining ExpenseCost	double	x		The remaining costs for all project expenses associated with the activities in the WBS.
SummaryRemaining FinishDate	dateTime	x		The date the resource is scheduled to finish the remaining work for the activity. This date is computed by the project scheduler but can be updated manually by the project manager. Before the activity is started, the remaining finish date is the same as the planned finish date.
SummaryRemaining LaborCost	double	x		The remaining costs for all labor resources assigned to the activities. The remaining cost reflects the cost remaining for the WBS.
SummaryRemaining LaborUnits	double	x		The remaining units for all labor resources assigned to the activities. The remaining units reflects the work remaining to be done for the WBS.

Field	Туре	Read Only	Filterab le Ordera ble	Description
SummaryRemaining MaterialCost	double	x		The remaining material costs for all project expenses associated with the activities in the WBS.
SummaryRemaining NonLaborCost	double	x		The remaining nonlabor costs for all project expenses associated with the activities in the WBS.
SummaryRemaining NonLaborUnits	double	x		The remaining units for all nonlabor resources assigned to the activities. The remaining units reflects the work remaining to be done for the WBS.
SummaryRemaining StartDate	dateTime	x		The earliest remaining start of all activities assigned to the WBS.
SummaryRemaining TotalCost	double	x		The sum of all remaining total costs in the WBS.

Field	Туре	Read Only	Filterab le Ordera ble	Description
SummaryScheduleP ercentComplete	double	x		The measure that indicates how much of the WBS baseline duration has been completed so far. Computed based on where the current data date falls between the activity's baseline start and finish dates. If the data date is earlier than the baseline start, the schedule % complete is 0. If the data date is later than the baseline finish, the schedule % complete is 100. The schedule % complete indicates how much of the WBS duration should be currently completed, relative to the selected baseline.
SummaryScheduleP ercentCompleteByLa borUnits	double	x		the percent complete of units for all labor resources. Computed as Actual Labor Units / At Completion Labor Units * 100. Always in the range 0 to 100.
SummaryScheduleP erformanceIndexByC ost	double	x		the Earned Value divided by the Planned Value. A value less than 1 indicates that less work was actually performed than was scheduled.
SummaryScheduleP erformanceIndexByL aborUnits	double	x		the Earned Value Labor Units divided by Planned Value Labor Units.

Field	Туре	Read Only	Filterab le Ordera ble	Description
SummaryScheduleV arianceByCost	double	x		the Earned Value divided by the Planned Value. A negative value indicates that less work was actually performed than was scheduled.
SummaryScheduleV arianceByLaborUnits	double	x		the Earned Value Labor Units minus the Planned Value Labor Units.
SummaryScheduleV arianceIndex	double	x		The value that is calculated as the Schedule Variance Labor Units divided by Planned Value Labor Units.
SummaryScheduleV arianceIndexByCost	double	x		the Schedule Variance divided by the Planned Value.
SummaryScheduleV arianceIndexByLabo rUnits	double	x		the Schedule Variance Labor Units divided by the Planned Value Labor Units.

Field	Туре	Read Only	Filterab le Ordera ble	Description
SummaryStartDateV ariance	double	x		The duration between the start date in the current project and the baseline start date. Calculated as start date - baseline start date.
SummaryToComplet ePerformanceIndexB yCost	double	x		the (Budget at Completion - Earned Value) divided by (Estimate at Completion - Actual Cost).
SummaryTotalCostV ariance	double	x		The value that is calculated as baseline total cost - total cost.
SummaryTotalFloat	double	x		The amount of time the WBS can be delayed before delaying the project finish date. Total float can be computed as late start - early start or as late finish - early finish; this option can be set when running the project scheduler.
SummaryUnitsPerce ntComplete	double	x		The percent complete of units for the resource assignments in the WBS. Computed as Actual Units / At Complete Units * 100. Always in the range 0 to 100.

Field	Туре	Read Only	Filterab le Ordera ble	Description
SummaryVarianceAt CompletionByLabor Units	double	x		the Baseline Planned Total Labor Units minus Estimate at Completion Labor Units.
TeamMemberActivity Fields	string restricted to maxLength(5 12)			The list of activity fields that can be updated by a team member using the P6 Team Member interfaces.
TeamMemberAssign mentOption	string restricted to maxLength(3 2)			The indicator that determines whether team member can update activity fields, assignment fields, or both using the P6 Team Member interfaces.
TeamMemberResou rceAssignmentFields	string restricted to maxength(51 2)			The list of assignment fields that can be updated by a team member using the P6 Team Member interfaces.
TeamMemberStepU DFViewableFields	string restricted to maxength(51 2)			The list of step user defined fields that can be viewed and updated by a team member using the P6 Team Member interfaces.

Field	Туре	Read Only	Filterab le Ordera ble	Description
TeamMemberViewa bleFields	string restricted to maxLength(5 12)			The list of fields that are viewable by a team member using the P6 Team Member interfaces.
TotalBenefitPlan	double	x		The sum of the monthly benefit plan.
TotalBenefitPlanTall y	double	x		The sum of the monthly benefit plan tally.
TotalSpendingPlan	double	x		The sum of the monthly spending plan.
TotalSpendingPlanT ally	double	x		The sum of the monthly spending plan tally.

Field	Туре	Read Only	Filterab le Ordera ble	Description
UnallocatedBudget	double	x		The total current budget minus the distributed current budget.
UndistributedCurrent Variance	double	x		The total spending plan minus the total spending plan tally.
WBSCategoryObject Id	int		x	The unique ID of the associated WBS category value. Note that the label used for the WBS category is dynamic; it is controlled by the system administrator.
WBSCodeSeparator	string restricted to maxLength(2)		x	The character used to separate the concatenated code fields for the project's WBS tree.
WBSObjectId	int	x	x	The internal WBS ID of the project. This ID cannot be used to load a WBS object directly.

Field	Туре	Read Only	Filterab le Ordera ble	Description
WebSiteRootDirector y	string restricted to maxLength(1 20)		x	The root directory for storing project Web site files before they are published to the Web server.
WebSiteURL	string restricted to maxLength(2 00)		x	The project Web site URL, which is the Web address of the project's website.

UpdateBaselineOption Service

Operations:

ReadUpdateBaselineOption Operation (on page 699) UpdateUpdateBaselineOption Operation (on page 699) GetFieldLengthUpdateBaselineOption Operation (on page 700)

WSDL: UpdateBaselineOption.wsdl

Primary Key Field: UserObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/UpdateBaselineOption/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/UpdateBaselineOption?wsdl

https://<hostname>:<port number>/p6ws/services/UpdateBaselineOption?wsdl

Java Client Stub Class:

com. primavera. ws. p6. updates as eline option. UpdateBaseline Option

Description:

As a project progresses, you might choose to update baseline data without restoring the baseline or creating a new baseline. When a project is in progress, creating a new baseline may not yield accurate comparison results. When you update a baseline, only the data types you select will be updated.

ReadUpdateBaselineOption Operation

Description: Reads UpdateBaselineOption objects from the database.

Service: UpdateBaselineOption Service (on page 698)

Style: Document/literal wrapped

Input:

Message: ReadUpdateBaselineOption

Elements: One to many field names from the *UpdateBaselineOption Fields* (on page 700) field list

You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadUpdateBaselineOptionResponse

Output: Zero to many Activity elements that contain Activity fields.

UpdateUpdateBaselineOption Operation

Description: Updates multiple UpdateBaselineOption objects in the database. You can update up to 1000 UpdateBaselineOption objects with a single call.

Service: UpdateBaselineOption Service (on page 698)

Style: Document/literal wrapped

Input:

Message: UpdateUpdateBaselineOption

Elements: UpdateBaselineOption elements that contain *UpdateBaselineOption Fields* (on page 700) fields.

Required fields: The ObjectId must be specified.

Output:

Message: UpdateUpdateBaselineOptionResponse Output: boolean

GetFieldLengthUpdateBaselineOption Operation

Description: Returns length of variable character fields for a BO.

Service: UpdateBaselineOption Service (on page 698)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthUpdateBaselineOption Elements: FieldLength

Output:

Message: GetFieldLengthUpdateBaselineOption Elements: One to many FieldLengthUpdateBaselineOptions.

UpdateBaselineOption Fields

Field	Туре	Read Only	Filterable Orderable	Description
ActivitiesFilter	String			The option used to update activity IDs of the selected filter when updating the baseline.
ActivitiesFilterLo gic	string restricted to maxLength(255)			The option used to update activity filter logic when updating the baseline.
ActivitiesFilterR esourceId	string restricted to maxLength(255)			The value used for the 'Resource ID' filter when updating baselines using the 'Activities within the following filters' option.

ActivitiesFilterR oleId	string restricted to maxLength(255)		The value used for the 'Role ID' filter when updating baselines using the 'Activities within the following filters' option.
ActivitiesFinishin gWithinDays	string restricted to maxLength(255)		The value used for the 'Activities finishing within specified days' filter when updating baselines using the 'Activities within the following filters' option.
ActivitiesOccurri ngWithinDays	string restricted to maxLength(255)		The value used for the 'Activities occurring within specified days' filter when updating baselines using the 'Activities within the following filters' option.
ActivityCodeAss ignments	boolean		The option used to update activity code assignments when updating the baseline.

ActivityFilterId	string		The option used to update activity filter id when updating the baseline.
ActivityFilterNa me	string restricted to maxLength(255)		The option used to update activity filter name when updating the baseline.
ActivityInformati on	boolean		The option used to update activity information for existing resource and role assignments when updating the baseline.
ActivityNoteboo ks	boolean		The option used to update activity information for existing resource and role assignments when updating the baseline.
ActivityRsrcAssi gnmentCodes	boolean		The option used to update assignment codes when updating the baseline.

ActivityRsrcAssi gnmentUdfs	boolean		The option used to update activity resource assignment UDFs when updating the baseline.
ActivityUdfs	boolean		The option used to update activity UDFs when updating the baseline.
ActualUnitsCost WoRsrcAssignm nt	boolean		The option used to update activity actual units and cost without resource assignments when updating the baseline.
AddNewActivitie sData	boolean		The option used to add new activities with data when updating the baseline.
AddNewRsrcRol e	boolean		The option used to add new resource and role assignments when updating the baseline.

AllActivitie	boolean		The option used to include all activities when updating the baseline.
BatchModeEnab led	boolean		The option used to enable the batch update mode when updating the baseline.
BudgetUnitsCos t	boolean		The option used to update budget units and cost for existing resource and role assignments when updating the baseline.
BudgetUnitsCos tWoRsrcAssign mnt	boolean		The option used to update activity budget units and cost without resource assignment when updating the baseline.
Constraints	boolean		The option used to update activity constraints when updating the baseline

DatesDurationD atadates	boolean		The option used to update activity dates, duration, and data dates when updating the baseline
DeleteNonExisti ngActivities	boolean		The option used to delete non existing activities when updating the baseline.
ExpenseUdfs	boolean		the option used to update activity expense UDFs when updating the baseline.
Expenses	boolean		The option used to update activity expenses when updating the baseline.
FilteredActivities	boolean		The option used to include activities in the selected folder when updating the baseline.

GeneralActivitiIn fo	boolean		The option used to update general activity information when updating the baseline.
IgnoreLastUpdat eDate	boolean		The option used to ignore LastUpdateDate when updating the baseline.
IssueUDFs	boolean		The option used to update the Issue UDFs when updating the baseline.
NewActivityInfor mation	boolean		The option used to include information about new activities when updating the baseline.
NewBudgetUnit sCost	boolean		The option used to update budgeted unit and cost information when updating the baseline.
ObjectId	string	Filterable only	The unique ID of the associated user.

			[]
ProjectDetails	boolean		The option used to update the project details when updating the baseline.
ProjectRisksIssu esAndThreshold s	boolean		The option used to update the Project Risks Issues and Thresholds when updating the baseline.
ProjectUDFs	boolean		The option used to update the project UDFs when updating the baseline.
Relationships	boolean		The option used to update activity relationships when updating the baseline.
RiskAssignment s	boolean		The option used to update risk assignments when updating the baseline.
RiskUDFs	boolean		The option used to update the Risks UDFs when updating the baseline.
Steps	boolean		The option used to update activity steps when updating the baseline.

StepsUdf	boolean			The option used to update activity steps UDFs when updating the baseline.
UpdateExistRsr cRoleAssignme nt	boolean			The option used to update existing resource and role assignments when updating the baseline.
UpdateExistingA ctivities	boolean			The option used to update existing activities when updating the baseline.
UserName	boolean	x		The user's login name.
WPDocumentU DFs	boolean		x	The option used to update the WPDocument UDFs when updating the baseline.
WbsAssignment s	boolean		x	The option used to update WBS assignments when updating the baseline.

WbsUDFs	boolean	x	The option used to update the WBS UDFs when updating the baseline
WorkProductsA ndDocuments	boolean	x	The option used to update the work products and documents when updating the baseline.

IssueHistory Service

Operations:

ReadIssueHistories Operation (on page 709) *GetFieldLengthIssueHistory Operation* (on page 710)

WSDL: IssueHistory.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/IssueHistory/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/IssueHistoryService?wsdl https://<hostname>:<port number>/p6ws/services/IssueHistoryService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.issuehistory.IssueHistoryService

Description:

Issue histories represent the commentary recorded for a project issue. Separate entry comments are referenced by date and user who recorded the comment. Issue histories may only be added in the Project Management application.

ReadIssueHistories Operation

Description: Reads IssueHistory objects from the database.

Service: IssueHistory Service (on page 709)

Style: Document/literal wrapped

Input:

Message: ReadIssueHistories

Elements: One to many field names from the *IssueHistory Fields* (on page 710) field list You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web*

Services Programming Guide for additional details.

Output:

Message: ReadIssueHistoriesResponse

Output: Zero to many IssueHistory elements that contain IssueHistory fields.

GetFieldLengthIssueHistory Operation

Description: Returns length of variable character fields for a BO.

Service: IssueHistory Service (on page 709)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthIssueHistory Elements: FieldLength

Output:

Message: GetFieldLengthIssueHistoryResponse Elements: One to many FieldLengthIssueHistories.

IssueHistory Fields

Field	Туре	Read Only	Filterable Orderable	Description
CreateDate	dateTime	х	х	The date this issue history was created.
CreateUser	string restricted to maxLength(2 55)	x	x	The name of the user that created this issue history.
IsBaseline	boolean	х	х	The boolean value indicating if this business object is

				related to a Project or Baseline
IsTemplate	boolean	x	x	The boolean value indicating if this business object is related to a template Project.
LastUpdate Date	dateTime	x	x	The date this issue history was last updated.
LastUpdate User	string restricted to maxLength(2 55)	x	x	The name of the user that last updated this issue history.
Notes	string	х		The notes associated with the issue history.
ProjectIssue ObjectId	int	x	x	The unique ID of the associated project issue for this issue history.
ProjectObje ctId	int	x	x	The unique ID of the associated project for this issue history.

ProjectBudgetChangeLog Service

Operations:

CreateProjectBudgetChangeLogs Operation (on page 712) ReadProjectBudgetChangeLogs Operation (on page 712) UpdateProjectBudgetChangeLogs Operation (on page 713) DeleteProjectBudgetChangeLogs Operation (on page 713) GetFieldLengthProjectBudgetChangeLog Operation (on page 714)

WSDL: ProjectBudgetChangeLog.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/ProjectBudgetChangeLog/V1 Default Transport URLs: http://<hostname>:<port number>/p6ws/services/ProjectBudgetChangeLogService?wsdl https://<hostname>:<port number>/p6ws/services/ProjectBudgetChangeLogService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.projectbudgetchangelog.ProjectBudgetChangeLogService

Description:

The project budget change log is used to track changes made from the original budget. You can set the status of the change as pending, approve or not approved, assign a responsible person, and specify the amount of the change. The project budget change log applies to each WBS and project.

CreateProjectBudgetChangeLogs Operation

Description: Creates multiple ProjectBudgetChangeLog objects in the database. You can create up to 1000 ProjectBudgetChangeLog objects with a single call.

Service: ProjectBudgetChangeLog Service (on page 711)

Style: Document/literal wrapped

Input:

Message: CreateProjectBudgetChangeLogs

Elements: ProjectBudgetChangeLog elements that contain *ProjectBudgetChangeLog Fields* (on page 714) fields

Required fields: The following fields are required when creating the ProjectBudgetChangeLog object:

- ProjectObjectId|WBSObjectId
- ChangeNumber

Output:

Message: CreateProjectBudgetChangeLogsResponse Output: Zero to many ObjectId elements

ReadProjectBudgetChangeLogs Operation

Description: Reads ProjectBudgetChangeLog objects from the database.

Service: ProjectBudgetChangeLog Service (on page 711)

Style: Document/literal wrapped

Input:

Message: ReadProjectBudgetChangeLogs

Elements: One to many field names from the *ProjectBudgetChangeLog Fields* (on page 714) field list

You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programmer's Guide* for additional details.

Output:

Message: ReadProjectBudgetChangeLogsResponse

Output: Zero to many ProjectBudgetChangeLog elements that contain ProjectBudgetChangeLog fields.

UpdateProjectBudgetChangeLogs Operation

Description: Updates multiple ProjectBudgetChangeLog objects in the database. You can update up to 1000 ProjectBudgetChangeLog objects with a single call.

Service: ProjectBudgetChangeLog Service (on page 711)

Style: Document/literal wrapped

Input:

Message: UpdateProjectBudgetChangeLogs

Elements: ProjectBudgetChangeLog elements that contain *ProjectBudgetChangeLog Fields* (on page 714) fields.

Required fields: The ObjectId must be specified.

Output:

Message: UpdateProjectBudgetChangeLogsResponse Output: boolean

DeleteProjectBudgetChangeLogs Operation

Description: Deletes multiple ProjectBudgetChangeLog objects in the database. You can delete up to 1000 ProjectBudgetChangeLog objects with a single call.

Service: ProjectBudgetChangeLog Service (on page 711)

Style: Document/literal wrapped

Input:

Message: DeleteProjectBudgetChangeLogs

Elements: One to many ObjectId elements

Output:

Message: DeleteProjectBudgetChangeLogsResponse Output: boolean

GetFieldLengthProjectBudgetChangeLog Operation

Description: Returns length of variable character fields for a BO.

Service: ProjectBudgetChangeLog Service (on page 711)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthProjectBudgetChangeLog Elements: FieldLength

Output:

Message: GetFieldLengthProjectBudgetChangeLogResponse Elements: One to many FieldLengthProjectBudgetChangeLogs.

ProjectBudgetChangeLog Fields

Field	Туре	Read Only	Filterable Orderable	Description
Amount	double restricted to minInclusive(-9.9 999999999999999 14) maxInclusive(9.99 99999999999991 4)		Х	The amount of budget change.
ChangeNu mber	string restricted to maxLength(32)		x	The change number that is automatically incremented according to when changes are added. This can be changed to any number.
CreateDate	dateTime	x	x	The date this log of budget changes was created.
CreateUser	string restricted to maxLength(255)	x	x	The name of the user that created this log of budget changes.

Date	dateTime		x	The date of this budget change entry.
IsBaseline	boolean	x	x	The boolean value indicating if this business object is related to a Project or Baseline
IsTemplate	boolean	x	x	The boolean value indicating if this business object is related to a template Project.
LastUpdate Date	dateTime	x	x	The date this log of budget changes was last updated.
LastUpdate User	string restricted to maxLength(255)	x	x	The name of the user that last updated this log of budget changes.
ObjectId	int		x	The unique ID generated by the system.
ProjectId	string restricted to maxLength(20)	x	x	The short code that uniquely identifies the project.
ProjectObje ctId	int		x	The unique ID of the associated project.
Reason	string restricted to maxLength(130)		x	The description of the reason for the budget change request.
Responsibl e	string restricted to maxLength(255)		x	The person responsible for the change.
Status	string		X	The status of this

	restricted to " 'Pending' 'Approved' 'Not Approved'			budget change request. Possible values are 'Pending', 'Approved', and 'Not Approved'.
WBSCode	string restricted to maxLength(40)	X	X	The short code assigned to each WBS element for identification. Each WBS element is uniquely identified by concatenating its own code together with its parents' codes.
WBSName	string restricted to maxLength(100)	x	x	The name of the WBS element.
WBSObject Id	int		x	The unique ID of the WBS element to which the budget change log applies.

ProjectCodeAssignment Service

Operations:

CreateProjectCodeAssignments Operation (on page 717) ReadProjectCodeAssignments Operation (on page 718) UpdateProjectCodeAssignments Operation (on page 718) DeleteProjectCodeAssignments Operation (on page 717) LoadProjects Operation (on page 309) GetFieldLengthProjectCodeAssignment Operation (on page 718)

WSDL: ProjectCodeAssignment.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/ProjectCodeAssignment/V1 Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/ProjectCodeAssignmentService?wsdl https://<hostname>:<port number>/p6ws/services/ProjectCodeAssignmentService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.projectcodeassignment.ProjectCodeAssignmentService

Description:

A project code assignment business object represents the assignment of a project code to a project. For each project code type, a project may have zero or one project codes assigned.

Note that this business object has a multi-part object ID; its object ID is a combination of its project object ID and its project code object ID.

CreateProjectCodeAssignments Operation

Description: Creates multiple ProjectCodeAssignment objects in the database. You can create up to 1000 ProjectCodeAssignment objects with a single call.

Service: ProjectCodeAssignment Service (on page 716)

Style: Document/literal wrapped

Input:

Message: CreateProjectCodeAssignments

Elements: ProjectCodeAssignment elements that contain *ProjectCodeAssignment Fields* (on page 719) fields

Required fields:

- ProjectObjectId
- ProjectCodeObjectId

Output:

Message: CreateProjectCodeAssignmentsResponse Output: Zero to many ObjectId elements

DeleteProjectCodeAssignments Operation

Description: Deletes multiple ProjectCodeAssignment objects in the database. You can delete up to 1000 ProjectCodeAssignment objects with a single call.

Service: ProjectCodeAssignment Service (on page 716)

Style: Document/literal wrapped

Input:

Message: DeleteProjectCodeAssignments Elements: One to many ObjectId elements

Output:

Message: DeleteProjectCodeAssignmentsResponse Output: boolean

ReadProjectCodeAssignments Operation

Description: Reads ProjectCodeAssignment objects from the database.

Service: ProjectCodeAssignment Service (on page 716)

Style: Document/literal wrapped

Input:

Message: ReadProjectCodeAssignments

Elements: One to many field names from the *ProjectCodeAssignment Fields* (on page 719) field list

You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadProjectCodeAssignmentsResponse

Output: Zero to many ProjectCodeAssignment elements that contain ProjectCodeAssignment fields.

UpdateProjectCodeAssignments Operation

Description: Updates multiple ProjectCodeAssignment objects in the database. You can update up to 1000 ProjectCodeAssignment objects with a single call.

Service: ProjectCodeAssignment Service (on page 716)

Style: Document/literal wrapped

Input:

Message: UpdateProjectCodeAssignments

Elements: ProjectCodeAssignment elements that contain *ProjectCodeAssignment Fields* (on page 719) fields.

Required fields: The ObjectId must be specified.

Output:

Message: UpdateProjectCodeAssignmentsResponse Output: boolean

GetFieldLengthProjectCodeAssignment Operation

Description: Returns length of variable character fields for a BO.

Service: ProjectCodeAssignment Service (on page 716)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthProjectCodeAssignment Elements: FieldLength

Output:

Message: GetFieldLengthProjectProjectCodeAssignmentResponse Elements: One to many FieldLengthProjectCodeAssignments.

ProjectCodeAssignment Fields

Field	Туре	Read Only	Filterable Orderable	Description
CreateDate	dateTime	x	x	The date this code assignment was created.
CreateUser	string restricted to maxLength(2 55)	x	x	The name of the user that created this code assignment.
IsBaseline	boolean	x	x	The boolean value indicating if this business object is related to a Project or Baseline
IsTemplate	boolean	x	x	The boolean value indicating if this business object is related to a template Project.
LastUpdateD ate	dateTime	x	x	The date this code assignment was last updated.
LastUpdateU ser	string restricted to maxLength(2 55)	x	x	The name of the user that last updated this code assignment.
ProjectCode Description	string restricted to maxLength(1	x	х	The description of the associated project code.

	00)			
ProjectCode ObjectId	int		x	The unique ID of the associated project code.
ProjectCode TypeName	string restricted to maxLength(6 0)	x	x	The name of the parent project code type.
ProjectCode TypeObjectI d	int	x	x	The unique ID of the parent project code type.
ProjectCode Value	string restricted to maxLength(6 0)	x	x	The value of the associated project code.
ProjectId	string restricted to maxLength(4 0)	x	x	The short code that uniquely identifies the associated project.
ProjectName	string restricted to maxLength(1 00)	x	x	The name of the project to which the project code is assigned.
ProjectObjec tId	int		x	The unique ID of the project to which the project code is assigned.

ProjectFunding Service

Operations:

CreateProjectFundings Operation (on page 721) ReadProjectFundings Operation (on page 721) UpdateProjectFundings Operation (on page 722) DeleteProjectFundings Operation (on page 722) GetFieldLengthProjectFunding Operation (on page 722)

WSDL: ProjectFunding.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/ProjectFunding/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/ProjectFundingService?wsdl https://<hostname>:<port number>/p6ws/services/ProjectFundingService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.projectfunding.ProjectFundingService

Description:

An project funding represents the assignment of a funding source to a particular project. The assigned funding source has an amount and fund share, or percentage.

CreateProjectFundings Operation

Description: Creates multiple ProjectFunding objects in the database. You can create up to 1000 ProjectFunding objects with a single call.

Service: ProjectFunding Service (on page 720)

Style: Document/literal wrapped

Input:

Message: CreateProjectFundings

Elements: ProjectFunding elements that contain ProjectFunding Fields (on page 723) fields

Required fields:

- FundingSourceObjectId
- ProjectObjectId

Output:

Message: CreateProjectFundingsResponse Output: Zero to many ObjectId elements

ReadProjectFundings Operation

Description: Reads ProjectFunding objects from the database.

Service: ProjectFunding Service (on page 720)

Style: Document/literal wrapped

Input:

Message: ReadProjectFundings

Elements: One to many field names from the ProjectFunding Fields (on page 723) field list

You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadProjectFundingsResponse

Output: Zero to many ProjectFunding elements that contain ProjectFunding fields.

UpdateProjectFundings Operation

Description: Updates multiple ProjectFunding objects in the database. You can update up to 1000 ProjectFunding objects with a single call.

Service: ProjectFunding Service (on page 720)

Style: Document/literal wrapped

Input:

Message: UpdateProjectFundings

Elements: ProjectFunding elements that contain *ProjectFunding Fields* (on page 723) fields.

Required fields: The ObjectId must be specified.

Output:

Message: UpdateProjectFundingsResponse Output: boolean

DeleteProjectFundings Operation

Description: Deletes multiple ProjectFunding objects in the database. You can delete up to 1000 ProjectFunding objects with a single call.

Service: ProjectFunding Service (on page 720)

Style: Document/literal wrapped

Input:

Message: DeleteProjectFundings Elements: One to many ObjectId elements

Output:

Message: DeleteProjectFundingsResponse Output: boolean

GetFieldLengthProjectFunding Operation

Description: Returns length of variable character fields for a BO.

Service: ProjectFunding Service (on page 720)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthProjectFunding Elements: FieldLength

Output:

Message: GetFieldLengthProjectFundingResponse Elements: One to many FieldLengthProjectBudgetFundings.

ProjectFunding Fields

Field	Туре	Read Only	Filterable Orderable	Description
Amount	double		x	The amount of a funding source that is allocated to the project.
CreateDate	dateTime	x	x	The date this project funding data was created.
CreateUser	string restricted to maxLength(2 55)	x	x	The name of the user that created this project funding data.
FundShare	double		x	The percentage of the total fund that is allocated to the project.
FundingSou rceName	string restricted to maxLength(1 00)	x	x	The name of the funding source.
FundingSou rceObjectId	int		x	The unique ID of the associated funding source for this project funding.
IsBaseline	boolean	x	x	The boolean value indicating if this business object is related to a Project

				or Baseline
IsTemplate	boolean	x	x	The boolean value indicating if this business object is related to a template Project.
LastUpdate Date	dateTime	x	x	The date this project funding data was last updated.
LastUpdate User	string restricted to maxLength(2 55)	x	x	The name of the user that last updated this project funding data.
ObjectId	int		x	The unique ID generated by the system.
ProjectId	string restricted to maxLength(4 0)	x	x	The short code that uniquely identifies the associated project.
ProjectObje ctId	int		x	The unique ID of the associated project source for this project funding.

ProjectIssue Service

Operations:

CreateProjectIssues Operation (on page 725) ReadProjectIssues Operation (on page 725) UpdateProjectIssues Operation (on page 726) DeleteProjectIssues Operation (on page 726) GetFieldLengthProjectIssue Operation (on page 727)

WSDL: ProjectIssue.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/ProjectIssue/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/ProjectIssueService?wsdl https://<hostname>:<port number>/p6ws/services/ProjectIssueService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.projectissue.ProjectIssueService

Description:

Issues are known problems within a project plan that require attention or corrective action. You can manually create issues, or you can generate issues in the Project Management application by defining project thresholds. You can associate these issues with work breakdown structure (WBS) elements, activities, or resources.

When you add an issue, you can assign a priority level, tracking layout, and responsible manager to the issue. An issue's tracking layout assignment is helpful when you want to quickly open the tracking layout that best displays the problem area. An issue's responsible manager assignment identifies the person responsible for addressing the issue. You can record historical details for the issue and e-mail issue details, along with your notes and the issue's history, to any member of the project's staff.

This business object supports user defined fields (UDFs). Use the UDFValue business object to assign UDFs.

CreateProjectIssues Operation

Description: Creates multiple ProjectIssue objects in the database. You can create up to 1000 ProjectIssue objects with a single call.

Service: ProjectIssue Service (on page 724)

Style: Document/literal wrapped

Input:

Message: CreateProjectIssues

Elements: ProjectIssue elements that contain *ProjectIssue Fields* (on page 727) fields

Required fields: The following fields are required when creating the ProjectIssue object:

- ProjectObjectId|WBSObjectId|ActivityObjectId
- Name

Output:

Message: CreateProjectIssuesResponse Output: Zero to many ObjectId elements

ReadProjectIssues Operation

Description: Reads ProjectIssue objects from the database.

Service: ProjectIssue Service (on page 724)

Style: Document/literal wrapped

Input:

Message: ReadProjectIssues

Elements: One to many field names from the *ProjectIssue Fields* (on page 727) field list You may also include an optional element that contains a filter clause and an optional

element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadProjectIssuesResponse

Output: Zero to many ProjectIssue elements that contain ProjectIssue fields.

UpdateProjectIssues Operation

Description: Updates multiple ProjectIssue objects in the database. You can update up to 1000 ProjectIssue objects with a single call.

Service: ProjectIssue Service (on page 724)

Style: Document/literal wrapped

Input:

Message: UpdateProjectIssues

Elements: ProjectIssue elements that contain *ProjectIssue Fields* (on page 727) fields. Required fields: The ObjectId must be specified.

Output:

Message: UpdateProjectIssuesResponse Output: boolean

DeleteProjectIssues Operation

Description: Deletes multiple ProjectIssue objects in the database. You can delete up to 1000 ProjectIssue objects with a single call.

Service: ProjectIssue Service (on page 724)

Style: Document/literal wrapped

Input:

Message: DeleteProjectIssues Elements: One to many ObjectId elements

Output:

Message: DeleteProjectIssuesResponse

Output: boolean

GetFieldLengthProjectIssue Operation

Description: Returns length of variable character fields for a BO.

Service: ProjectIssue Service (on page 724)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthProjectIssue Elements: FieldLength

Output:

Message: GetFieldLengthProjectIssueResponse Elements: One to many FieldLengthProjectIssues.

ProjectIssue Fields

Field	Туре	Rea d Onl y	Fil ter ab le Or de ra bl e	Description
ActivityId	string restricted to maxLength(40)	х	х	The short ID that uniquely identifies the activity within the project.
ActivityName	string restricted to maxLength(120)	x	х	The name of the activity. The activity name does not have to be unique.
ActivityObject Id	int		х	The unique ID of the activity to which the project issue applies.
ActualValue	double		x	The actual value of the threshold parameter for the project issue. Issues are automatically generated by the threshold monitor when actual values of threshold parameters exceed target values.
CreateDate	dateTime	Х	Х	The date this project issue was created.

CreateUser	string restricted to maxLength(255)	x	x	The name of the user that created this project issue.
DateIdentified	dateTime		х	The date the project issue was identified.
IdentifiedBy	string restricted to maxLength(255)		x	The identifier of the project issue. This may be the name of the user who created the project issue or Monitor, if the project issue was automatically generated by the threshold monitor.
IsBaseline	boolean	х	х	The boolean value indicating if this business object is related to a Project or Baseline
IsTemplate	boolean	х	х	The boolean value indicating if this business object is related to a template Project.
LastUpdateD ate	dateTime	х	x	The date this project issue was last updated.
LastUpdateU ser	string restricted to maxLength(255)	x	x	The name of the user that last updated this project issue.
LowerThresh old	double restricted to minInclusive(-9.9 999999999999999 12) maxInclusive(9.9 999999999999999 12)		x	The lower value of the threshold parameter that triggered the project issue. Issues are triggered when the actual/observed parameters values are less than or equal to the lower threshold.
Name	string restricted to maxLength(100)		x	The name of the project issue. Issues which are automatically generated by the threshold monitor are named after the threshold parameter that triggered the project issue.
Notes	string			The notes associated with the project issue.
OBSName	string restricted to	х	х	The name of the person/role in the organization, sometimes referred to as the

	maxLength(100)			"responsible manager".
OBSObjectId	int		x	The unique ID of the project manager from the project's OBS tree who is responsible for the project issue.
ObjectId	int		x	The unique ID generated by the system.
ParentWBSO bjectId	int	х	x	The parent ID of the WBS element to which the issue is assigned
Priority	string restricted to 'Top' 'High' 'Normal' 'Low' 'Lowest'		x	The priority of the project issue. Valid values are 'Top', 'High', 'Normal', 'Low', and 'Lowest'.
ProjectId	string restricted to maxLength(40)	x	x	The short code that uniquely identifies the project.
ProjectName	string restricted to maxLength(100)	x	x	The name of the associated project.
ProjectObject Id	int		x	The unique ID of the associated project.
ProjectThres holdObjectId	int	x	x	The unique ID of the associated project threshold for the project issue.
RawTextNote	string	x		The notes associated with the project issue.
ResolutionDa te	dateTime		x	The date the project issue was resolved.
Resourceld	string restricted to maxLength(20)	х	x	The short code that uniquely identifies the resource.

ResourceNa me	string restricted to maxLength(100)	х	x	The name of the resource.
ResourceObj ectId	int		х	The unique ID of the associated resource for this project issue. If a parent resource is selected, the issue applies to all child resources as well.
Status	string restricted to 'Open' 'On Hold' 'Closed'		x	The current status of the project issue. Valid values are 'Open', 'On Hold', and 'Closed'.
ThresholdPar ameterObject Id	int	х	x	The unique ID of the associated threshold parameter for the project issue.
UpperThresh old	double restricted to minInclusive(-9.9 999999999999999 12) maxInclusive(9.9 9999999999999999 12)		x	The upper value of the threshold parameter which triggered the project issue. Issues are triggered when the actual/observed parameters values are greater than or equal to the upper threshold.
WBSCode	string restricted to maxLength(40)	x	x	The short code assigned to each WBS element for identification. Each WBS element is uniquely identified by concatenating its own code together with its parents' codes.
WBSName	string restricted to maxLength(100)	x	х	The name of the WBS element.
WBSObjectId	int		x	The unique ID of the WBS to which the project issue applies. If a parent WBS is selected, the project issue applies to all child elements as well. If the top WBS is selected, the project issue applies to the entire project.

ProjectNote Service

Operations:

CreateProjectNotes Operation (on page 731) ReadProjectNotes Operation (on page 732) UpdateProjectNotes Operation (on page 732) DeleteProjectNotes Operation (on page 732) GetFieldLengthProjectNote Operation (on page 733)

WSDL: ProjectNote.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/ProjectNote/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/ProjectNoteService?wsdl https://<hostname>:<port number>/p6ws/services/ProjectNoteService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.projectnote.ProjectNoteService

Description:

Project notes are used as a way of specifying one or more notes on a project or WBS element. You may specify one note on each project or WBS for every notebook topic that exists.

CreateProjectNotes Operation

Description: Creates multiple ProjectNote objects in the database. You can create up to 1000 ProjectNote objects with a single call.

Service: ProjectNote Service (on page 731)

Style: Document/literal wrapped

Input:

Message: CreateProjectNotes

Elements: ProjectNote elements that contain *ProjectNote Fields* (on page 733) fields

Required fields: The following fields are required when creating the ProjectNote object:

- ProjectObjectId or WBSObjectId
- NotebookTopicObjectId

Output:

Message: CreateProjectNotesResponse Output: Zero to many ObjectId elements

ReadProjectNotes Operation

Description: Reads ProjectNote objects from the database.

Service: ProjectNote Service (on page 731)

Style: Document/literal wrapped

Input:

Message: ReadProjectNotes

Elements: One to many field names from the *ProjectNote Fields* (on page 733) field list You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadProjectNotesResponse Output: Zero to many ProjectNote elements that contain ProjectNote fields.

UpdateProjectNotes Operation

Description: Updates multiple ProjectNote objects in the database. You can update up to 1000 ProjectNote objects with a single call.

Service: ProjectNote Service (on page 731)

Style: Document/literal wrapped

Input:

Message: UpdateProjectNotes

Elements: ProjectNote elements that contain *ProjectNote Fields* (on page 733) fields. Required fields: The ObjectId must be specified.

Output:

Message: UpdateProjectNotesResponse Output: boolean

DeleteProjectNotes Operation

Description: Deletes multiple ProjectNote objects in the database. You can delete up to 1000 ProjectNote objects with a single call.

Service: ProjectNote Service (on page 731)

Style: Document/literal wrapped

Input:

Message: DeleteProjectNotes

Elements: One to many ObjectId elements

Output:

Message: DeleteProjectNotesResponse Output: boolean

GetFieldLengthProjectNote Operation

Description: Returns length of variable character fields for a BO.

Service: ProjectNote Service (on page 731)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthProjectNote Elements: FieldLength

Output:

Message: GetFieldLengthProjectNoteResponse Elements: One to many FieldLengthProjectNotes.

ProjectNote Fields

		1	1	,
Field	Туре	Read Only	Filterable Orderable	Description
AvailableFor Activity	boolean	x	x	the flag indicating whether this note is available for Activity objects.
AvailableFor EPS	boolean	x	x	the flag indicating whether this note is available for EPS objects.
AvailableFor Project	boolean	x	x	the flag indicating whether this note is available for Project objects.
AvailableFor WBS	boolean	x	x	the flag indicating whether this note is available for WBS objects.
CreateDate	dateTime	x	x	The date this note was created.

	1	1	1	
CreateUser	string restricted to maxLength(2 55)	x	x	The name of the user that created this note.
IsBaseline	boolean	x	x	The boolean value indicating if this business object is related to a Project or Baseline
IsTemplate	boolean	x	x	The boolean value indicating if this business object is related to a template Project.
LastUpdate Date	dateTime	x	x	The date this note was last updated.
LastUpdate User	string restricted to maxLength(2 55)	x	x	The name of the user that last updated this note.
Note	string			The information that is associated with the notebook topic.
NotebookTo picName	string restricted to maxLength(4 0)	x	x	The name of the associated notebook topic.
NotebookTo picObjectId	int		x	The unique ID of the associated notebook topic.
ObjectId	int		х	The unique ID generated by the system.
ProjectId	string restricted to maxLength(4 0)	x	x	The short code that uniquely identifies the project associated with this note.

ProjectObje ctId	int		x	The unique ID of the associated project.
RawTextNot e	string	x		The information that is associated with the notebook topic, without any HTML.
WBSCode	string restricted to maxLength(4 0)	x	x	The short code assigned to each WBS element for identification.
WBSName	string restricted to maxLength(1 00)	x	x	The name of the WBS element associated with this note.
WBSObjectI d	int		x	The unique ID of the associated WBS.

ProjectPortfolio Service

Operations:

CreateProjectPortfolios Operation (on page 736) ReadProjectPortfolios Operation (on page 736) UpdateProjectPortfolios Operation (on page 737) DeleteProjectPortfolios Operation (on page 737) GetFieldLengthProjectPortfolio Operation (on page 738) AddProjects Operation (on page 738) RemoveProjects Operation (on page 739) RemoveProjects Operation (on page 739) ContainsProject Operation (on page 739) HasPrivilege Operation (on page 739) LoadProjects Operation (on page 740)

WSDL: ProjectPortfolio.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/ProjectPortfolio/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/ProjectPortfolioService?wsdl https://<hostname>:<port number>/p6ws/services/ProjectPortfolioService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.projectportfolio.ProjectPortfolioService

Description:

A project portfolio consists of projects grouped together in some way that is meaningful to you. For example, one portfolio might contain projects that are the responsibility of a specific business unit, while another portfolio contains only projects budgeted for the next fiscal year.

There are two types of project portfolios: "Manual" and "Filtered". Manual portfolios contain zero or more projects that were specifically added. Filtered portfolios contain zero or more projects based on a filter that was specified in Primavera's Web application. The list of projects in a filtered portfolio is based on the results of the filter when it was first created. Only manual portfolios can be created through the Integration API, and their list of projects cannot be altered.

CreateProjectPortfolios Operation

Description: Creates multiple ProjectPortfolio objects in the database. You can create up to 1000 ProjectPortfolio objects with a single call.

Service: ProjectPortfolio Service (on page 735)

Style: Document/literal wrapped

Input:

Message: CreateProjectPortfolios

Elements: ProjectPortfolio elements that contain *ProjectPortfolio Fields* (on page 741) fields

Required fields: The following fields are required when creating the ProjectPortfolio object:

Name

Output:

Message: CreateProjectPortfoliosResponse Output: Zero to many ObjectId elements

ReadProjectPortfolios Operation

Description: Reads ProjectPortfolio objects from the database.

Service: ProjectPortfolio Service (on page 735)

Style: Document/literal wrapped

Input:

Message: ReadProjectPortfolios

Elements: One to many field names from the *ProjectPortfolio Fields* (on page 741) field list

You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadProjectPortfoliosResponse

Output: Zero to many ProjectPortfolio elements that contain ProjectPortfolio fields.

UpdateProjectPortfolios Operation

Description: Updates multiple ProjectPortfolio objects in the database. You can update up to 1000 ProjectPortfolio objects with a single call.

Service: ProjectPortfolio Service (on page 735)

Style: Document/literal wrapped

Input:

Message: UpdateProjectPortfolios

Elements: ProjectPortfolio elements that contain *ProjectPortfolio Fields* (on page 741) fields.

Required fields: The ObjectId must be specified.

Output:

Message: UpdateProjectPortfoliosResponse Output: boolean

DeleteProjectPortfolios Operation

Description: Deletes multiple ProjectPortfolio objects in the database. You can delete up to 1000 ProjectPortfolio objects with a single call.

Service: ProjectPortfolio Service (on page 735)

Style: Document/literal wrapped

Input:

Message: DeleteProjectPortfolios Elements: One to many ObjectId elements

Output:

Message: DeleteProjectPortfoliosResponse Output: boolean

GetFieldLengthProjectPortfolio Operation

Description: Returns length of variable character fields for a BO.

Service: ProjectPortfolio Service (on page 735)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthProjectPortfolio Elements: FieldLength

Output:

Message: GetFieldLengthProjectPortfolioResponse Elements: One to many FieldLengthProjectPortfolios.

AddProjects Operation

Description: Adds project to the project portfolio.

Service: ProjectPortfolio Service (on page 735)

Style: Document/literal wrapped

Input:

Message: AddProjects Elements:

- ObjectIds
- ProjectObjectIds

Output:

Message: AddProjectsResponse Element: Sucess

GetProjectObjectIds Operation

Description: Gets an array of project IDs that are contained in the project portfolios.

Service: ProjectPortfolio Service (on page 735)

Style: Document/literal wrapped

Input:

Message: GetProjectObjectIds Element: ObjectId

Output:

Message: GetProjectObjectIdsResponse

Element: One to many ProjectObjectIds.

RemoveProjects Operation

Description: Removes projects from the project portfolio.

Service: ProjectPortfolio Service (on page 735)

Style: Document/literal wrapped

Input:

Message: RemoveProjects Elements:

ObjectId

ProjectObjectIds

Output:

Message: RemoveProjectsResponse Element: Success

ContainsProject Operation

Description: Returns a boolean for whether or not a project portfolio contains a specified project.

Service: ProjectPortfolio Service (on page 735)

Style: Document/literal wrapped

Input:

Message: ContainsProject Elements:

ObjectId

ContainsProjectId

Output:

Message: ContainsProjectResponse Element: Success

HasPrivilege Operation

Description: Returns a boolean for whether or not a project profile has a specified privilege.

Service: ProjectPortfolio Service (on page 735)

Style: Document/literal wrapped

Input:

Message: HasPrivilege Elements:

- ProfileObjectId
- Privilege

Output:

Message: HasPrivilegeResponse Element: boolean

LoadProjects Operation

Description: Loads projects the specified project portfolio contains.

Service: ProjectPortfolio Service (on page 735)

Input:

Message: LoadProjects

Elements:

Name	Туре	Description	Required
ObjectId	int	Unique identifier for the project code.	Yes
Fields	string	One or more Project Fields (on page 597) from the project fields list.	Yes
WhereClause	string	Optional clause used to filter results.	No
OrderBy	string	Optional clause used to specify the order in which results are returned.	No

Output:

Message:LoadProjectsResponse Elements:

Name	Туре	Description
ProjectObjectIds	string	Unique identifiers for the projects returned on operation success.

ProjectPortfolio Fields

Field	Туре	Read Only	Filterable Orderable	Description
CreateDate	dateTime	x	X	The date this project portfolio was created.
CreateUser	string restricted to maxLength(2 55)	x	x	The name of the user that created this project portfolio.
Description	string restricted to maxLength(2 55)		x	The description of the project portfolio.
IncludeClos edProjects	boolean		x	The flag that indicates whether closed projects are included in the portfolio.
IncludeWhat IfProjects	boolean		x	The flag that indicates whether what-if projects are included in the portfolio.
LastUpdate Date	dateTime	x	x	The date this project portfolio was last updated.
LastUpdate User	string restricted to maxLength(2 55)	x	x	The name of the user that last updated this project portfolio.
Name	string restricted to maxLength(4 0)		x	The name of the project portfolio.
ObjectId	int		x	The unique ID generated by the system.
PortfolioUse	string			A comma

rldArray				separated list of User IDs to whom a multiple user portfolio is available.
Туре	string restricted to 'Manual' 'Auto-Maintai ned' 'Filtered'	x	x	The type of the project portfolio: "Manual", "Auto-Maintained", or "Filtered".
UserName	string restricted to maxLength(2 55)	x	x	The user's login name.
UserObjectI d	int		x	The unique ID of a specific user who has access to the selected project portfolio.
MemberProj ect	PortfolioTeam MemberType See the PortfolioTeam MemberType table below.			

PortfolioTeamMemberType Table

ld	string restricted to maxLength(40)
Name	string
ObjectId	int

ProjectResource Service

Operations:

CreateProjectResources Operation (on page 743) ReadProjectResources Operation (on page 744) UpdateProjectResources Operation (on page 744) DeleteProjectResources Operation (on page 744) GetFieldLengthProjectResource Operation (on page 745)

WSDL: ProjectResource.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/ProjectResource/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/ProjectResourceService?wsdl https://<hostname>:<port number>/p6ws/services/ProjectResourceService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.projectresource.ProjectResourceService

Description:

Primavera's resource planning feature allows you to do high-level project planning for future project or project that does not require resource assignments at the activity level. The resource planning feature allows you to allocate and manage resources at the project and WBS levels. If the LifeOfProjectFlag is true, the resource assignment is for the duration of the project, and so, if the project dates are pushed out, the resource assignment dates are pushed as well.

If the LifeOfProjectFlag is false, the dates on the ProjectResource will be calculated from the dates on the child ProjectResourceQuantity objects.

CreateProjectResources Operation

Description: Creates multiple ProjectResource objects in the database. You can create up to 1000 ProjectResource objects with a single call.

Service: ProjectResource Service (on page 743)

Style: Document/literal wrapped

Input:

Message: CreateProjectResources

Elements: ProjectResource elements that contain *ProjectResource Fields* (on page 745) fields

Required fields: The following fields are required when creating the ProjectResource object:

ProjectObjectId|WBSObjectId

ResourceObjectId|RoleObjectId

Output:

Message: CreateProjectResourcesResponse Output: Zero to many ObjectId elements

ReadProjectResources Operation

Description: Reads ProjectResource objects from the database.

Service: ProjectResource Service (on page 743)

Style: Document/literal wrapped

Input:

Message: ReadProjectResources

Elements: One to many field names from the *ProjectResource Fields* (on page 745) field list

You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadProjectResourcesResponse

Output: Zero to many ProjectResource elements that contain ProjectResource fields.

DeleteProjectResources Operation

Description: Deletes multiple ProjectResource objects in the database. You can delete up to 1000 ProjectResource objects with a single call.

Service: ProjectResource Service (on page 743)

Style: Document/literal wrapped

Input:

Message: DeleteProjectResources Elements: One to many ObjectId elements

Output:

Message: DeleteProjectResourcesResponse Output: boolean

UpdateProjectResources Operation

Description: Updates multiple ProjectResource objects in the database. You can update up to 1000 ProjectResource objects with a single call.

Service: ProjectResource Service (on page 743)

Style: Document/literal wrapped

Input:

Message: UpdateProjectResources

Elements: ProjectResource elements that contain *ProjectResource Fields* (on page 745) fields.

Required fields: The ObjectId must be specified.

Output:

Message: UpdateProjectResourcesResponse Output: boolean

GetFieldLengthProjectResource Operation

Description: Returns length of variable character fields for a BO.

Service: ProjectResource Service (on page 743)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthProjectResource Elements: FieldLength

Output:

Message: GetFieldLengthProjectResourceResponse Elements: One to many FieldLengthProjectResources.

ProjectResource Fields

Field	Туре	Rea d Onl y	Filter able Orde rable	Description
CommittedFla g	boolean		x	The Boolean value that determines whether a resource is committed, and so, the resource assignment is stable and unlikely to change. When calculating availability, Primavera considers only assignments that are marked as committed.
CreateDate	dateTime	х	х	The date this project resource was created.
CreateUser	string	Х	Х	The name of the user that created

	restricted to maxLength(255)			this project resource.
FinishDate	dateTime	x	x	The finish date of the assignment. By default, it is set to the Planned Start date of the project + 1 day, finishing at 5:00pm. For example, if the planned start date is January 1, 8:00am, the finish date is set to January 2, 5:00pm. If LifeOfProjectFlag is set to true during creation, this date is set to the Project Scheduled Finish date. If associated ProjectResourceQuantities exist, this field is set to the end of the week of the latest ProjectResourceQuantity.
IsBaseline	boolean	x	x	The boolean value indicating if this business object is related to a Project or Baseline
IsTemplate	boolean	x	x	The boolean value indicating if this business object is related to a template Project.
LastUpdateDat e	dateTime	x	х	The date this project resource was last updated.
LastUpdateUs er	string restricted to maxLength(255)	x	х	The name of the user that last updated this project resource.
LifeOfProjectFl ag	boolean		x	The Boolean value that determines whether a resource that is assigned to a project at Project or WBS level, has that assignment for the duration of the project.
ObjectId	int		x	The unique ID generated by the system.
ProjectId	string restricted to maxLength(40)	x	x	The short code that uniquely identifies the associated project.
ProjectObjectI	int		Х	The unique ID of the associated

d				project.
ProjectResour ceCategoryNa me	string	x	x	The name of the associated project resource category.
ProjectResour ceCategoryObj ectId	int		x	The unique ID of the associated project resource category.
ResourceNam e	string	x	x	The name of the associated resource.
ResourceObje ctId	int		x	The unique ID of the associated resource.
RoleName	string	x	x	The name of the associated role.
RoleObjectId	int		х	The unique ID of the associated role.
StartDate	dateTime	x	x	The start date of the assignment. By default, it is set to the Planned Start date of the project. If LifeOfProjectFlag is set to true, this date is set to the Project Planned Start date. If associated ProjectResourceQuantities exist, this field is set to the beginning of the week of the earliest ProjectResourceQuantity.
Status	string restricted to 'Planned' 'Active' 'Inactive' 'What-If' 'Requested' 'Template'	x	x	The project or WBS status: 'Planned', 'Active', 'Inactive', 'What-If', or 'Requested'.

TotalUnits	double	x	х	The total units for the planning resource assignment.
WBSCode	string restricted to maxLength(40)	x	x	The short code assigned to the associated WBS element for identification.
WBSObjectId	int		x	The unique ID of the associated WBS.
ResourceRequ est	ResourceRequestTy pe See ResourceRequestTy pe table below.			The resource request used as a search template to search for a qualified resource.

ResourceRequestType Table

FinishDate	dateTime
MatchAllCriteria	boolean
Name	string
RequestedUnits	double
SequenceNumber	int
ShowOnlyLaborResources	boolean

ShowOverallocatedResources	boolean
SortResultsByAvailability	boolean
StartDate	dateTime
UseActivityDates	boolean
ResourceRequestCriterion	ResourceRequestCriterionType See ResourceRequestCrtiterionType table below

ResourceRequestCriterionType

Field	Туре
CriterionType	string restricted to 'Primary Role' 'Role' 'Resource' 'Resource Code'
Proficiency	string restricted to '1 - Master' '2 - Expert' '3 - Skilled' '4 - Proficient' '5 - Inexperienced'
ValueObjectId	int

ProjectResourceQuantity Service

Operations:

CreateProjectResourceQuantities Operation (on page 750) ReadProjectResourceQuantities Operation (on page 751) UpdateProjectResourceQuantities Operation (on page 751) DeleteProjectResourceQuantities Operation (on page 752) GetFieldLengthProjectResourceQuantity Operation (on page 752)

WSDL: ProjectResourceQuantity.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/ProjectResourceQuantity/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/ProjectResourceQuantityService?wsdl https://<hostname>:<port number>/p6ws/services/ProjectResourceQuantityService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.projectresourcequantity.ProjectResourceQuantityService

Description:

The ProjectResourceQuantity object provides access to resource allocation hours per week for resources assigned to a project at the Project or WBS level. Usually there is one ProjectResourceQuantity object per week, and it corresponds to a record in the wbsrsrc_qty table. However, when a week contains days from more than one month, two ProjectResourceQuantity objects (and so, two records) will exist based on the two week fragments. They both have the same WeekStartDate but their MonthStartDate and week fragment data are different: The first ProjectResourceQuantity object holds data for the first week fragment, and its MonthStartDate has the same month as the WeekStartDate. The second ProjectResourceQuantity object holds data for the second week fragment, and its MonthStartDate has the second week fragment, and its MonthStartDate is that of the next month.

Note that this business object has a multi-part object ID; its object ID is a combination of its project resource object ID, its week start date, its month start date, and its quantity.

CreateProjectResourceQuantities Operation

Description: Creates multiple ProjectResourceQuantity objects in the database. You can create up to 1000 ProjectResourceQuantity objects with a single call.

Service: ProjectResourceQuantity Service (on page 750)

Style: Document/literal wrapped

Input:

Message: CreateProjectResourceQuantities

Elements: ProjectResourceQuantity elements that contain *ProjectResourceQuantity Fields* (on page 752) fields

Required fields: The following fields are required when creating the ProjectResourceQuantity object:

- ProjectResourceObjectId
- Quantity|FinancialPeriod1Quantity|FinancialPeriod2Quantity
- WeekStartDate

Output:

Message: CreateProjectResourceQuantitiesResponse Output: Zero to many ObjectId elements

ReadProjectResourceQuantities Operation

Description: Reads ProjectResourceQuantity objects from the database.

Service: ProjectResourceQuantity Service (on page 750)

Style: Document/literal wrapped

Input:

Message: ReadProjectResourceQuantities

Elements: One to many field names from the *ProjectResourceQuantity Fields* (on page 752) field list

You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadProjectResourceQuantitiesResponse

Output: Zero to many ProjectResourceQuantity elements that contain ProjectResourceQuantity fields.

UpdateProjectResourceQuantities Operation

Description: Updates multiple ProjectResourceQuantity objects in the database. You can update up to 1000 ProjectResourceQuantity objects with a single call.

Service: ProjectResourceQuantity Service (on page 750)

Style: Document/literal wrapped

Input:

Message: UpdateProjectResourceQuantities

Elements: ProjectResourceQuantity elements that contain *ProjectResourceQuantity Fields* (on page 752) fields.

Required fields: The ObjectId must be specified.

Output:

Message: UpdateProjectResourceQuantitiesResponse Output: boolean

DeleteProjectResourceQuantities Operation

Description: Deletes multiple ProjectResourceQuantity objects in the database. You can delete up to 1000 ProjectResourceQuantity objects with a single call.

Service: ProjectResourceQuantity Service (on page 750)

Style: Document/literal wrapped

Input:

Message: DeleteProjectResourceQuantities Elements: One to many ObjectId elements

Output:

Message: DeleteProjectResourceQuantitiesResponse Output: boolean

GetFieldLengthProjectResourceQuantity Operation

Description: Returns length of variable character fields for a BO.

Service: ProjectResourceQuantity Service (on page 750)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthProjectResourceQuantity Elements: FieldLength

Output:

Message: GetFieldLengthProjectResourceQuantityResponse Elements: One to many FieldLengthProjectQuantityResponses.

ProjectResourceQuantity Fields

Field	Туре	Read Only	Filterable Orderable	Description
CommittedFl ag	boolean	x	х	The Boolean value that determines whether a resource is committed, and

				so, the resource assignment is stable and unlikely to change. When calculating availability, Primavera considers only assignments that are marked as committed.
CreateDate	dateTime	x	x	The date this project resource quantity was created.
CreateUser	string restricted to maxLength(2 55)	x	x	The name of the user that created this project resource quantity.
FinancialPeri od1ObjectId	int	x	x	The unique ID of the associated first financial period for this project resource quantity.
FinancialPeri od1Quantity	double restricted to minInclusive(0.0)		X	The value that represents the resource allocation hours for the first financial period for this project resource quantity. If the week contains days from two different months, two ProjectResourceQ uantity business objects will exist. The first business object's Quantity field represents the hours of the first week fragment (WeekStartDate and MonthStartDate

				have the same month value). The second business object's Quantity field represents the second week fragment (WeekStartDate and MonthStartDate have different month values).
FinancialPeri od2ObjectId	int	x	x	The unique ID of the associated second financial period for this project resource quantity.
FinancialPeri od2Quantity	double restricted to minInclusive(0.0)		X	The value that represents the resource allocation hours for the second financial period for this project resource quantity. If the week contains days from two different months, two ProjectResourceQ uantity business objects will exist. The first business object's Quantity field represents the hours of the first week fragment (WeekStartDate and MonthStartDate have the same month value). The second business object's Quantity field represents the second week fragment

				(WeekStartDate and MonthStartDate have different month values).
FinancialPeri odTmplId	int		x	The unique identifier of the financial period calendar to which the period belongs.
IsBaseline	boolean	x	x	The boolean value indicating if this business object is related to a Project or Baseline
IsTemplate	boolean	x	x	The boolean value indicating if this business object is related to a template Project.
LastUpdate Date	dateTime	x	x	The date this project resource quantity was last updated.
LastUpdate User	string restricted to maxLength(2 55)	x	x	The name of the user that last updated this project resource quantity.
MonthStartD ate	dateTime		X	The date value that represents the first day of the month. If the week contains days from two different months, two objects will exist. The first ProjectResourceQ uantity object's MonthStartDate is the first day of the month for the first week fragment. The second ProjectResourceQ

				uantity object's MonthStartDate is the first day of the month for the second week fragment.
ProjectObjec tId	int	x	x	The unique ID of the associated project.
ProjectReso urceObjectId	int		x	The unique ID of the associated project resource.
Quantity	double restricted to minInclusive(0.0)		X	The value that represents the resource allocation hours per week for this project resource quantity. If the week contains days from two different months, two ProjectResourceQ uantity business objects will exist. The first business object's Quantity field represents the hours of the first week fragment (WeekStartDate and MonthStartDate have the same month value). The second business object's Quantity field represents the second business object's Quantity field represents the second week fragment (WeekStartDate and MonthStartDate have different month values).

ResourceObj ectId	int	x	x	The unique ID of the associated resource.
RoleObjectId	int	x	x	The unique ID of the associated role.
WBSObjectI d	int	x	x	The unique ID of the associated WBS.
WeekStartD ate	dateTime		x	The date value that represents the first day of the week.

ProjectSpendingPlan Service

Operations:

CreateProjectSpendingPlans Operation (on page 758) ReadProjectSpendingPlans Operation (on page 758) UpdateProjectSpendingPlans Operation (on page 758) DeleteProjectSpendingPlans Operation (on page 759) GetFieldLengthProjectSpendingPlan Operation (on page 759)

WSDL: ProjectSpendingPlan.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/ProjectSpendingPlan/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/ProjectSpendingPlanService?wsdl https://<hostname>:<port number>/p6ws/services/ProjectSpendingPlanService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.projectspendingplan.ProjectSpendingPlanService

Description:

Project spending plans represent monthly spending amounts for a project or WBS.

CreateProjectSpendingPlans Operation

Description: Creates multiple ProjectSpendingPlan objects in the database. You can create up to 1000 ProjectSpendingPlan objects with a single call.

Service: ProjectSpendingPlan Service (on page 757)

Style: Document/literal wrapped

Input:

Message: CreateProjectSpendingPlans

Elements: ProjectSpendingPlan elements that contain *ProjectSpendingPlan Fields* (on page 760) fields

Required fields: The following fields are required when creating the ProjectSpendingPlan object:

- ProjectObjectId|WBSObjectId
- Date

Output:

Message: CreateProjectSpendingPlansResponse Output: Zero to many ObjectId elements

ReadProjectSpendingPlans Operation

Description: Reads ProjectSpendingPlan objects from the database.

Service: ProjectSpendingPlan Service (on page 757)

Style: Document/literal wrapped

Input:

Message: ReadProjectSpendingPlans

Elements: One to many field names from the *ProjectSpendingPlan Fields* (on page 760) field list

You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadProjectSpendingPlansResponse

Output: Zero to many ProjectSpendingPlan elements that contain ProjectSpendingPlan fields.

UpdateProjectSpendingPlans Operation

Description: Updates multiple ProjectSpendingPlan objects in the database. You can update up to 1000 ProjectSpendingPlan objects with a single call.

Service: ProjectSpendingPlan Service (on page 757)

Style: Document/literal wrapped

Input:

Message: UpdateProjectSpendingPlans

Elements: ProjectSpendingPlan elements that contain *ProjectSpendingPlan Fields* (on page 760) fields.

Required fields: The ObjectId must be specified.

Output:

Message: UpdateProjectSpendingPlansResponse Output: boolean

DeleteProjectSpendingPlans Operation

Description: Deletes multiple ProjectSpendingPlan objects in the database. You can delete up to 1000 ProjectSpendingPlan objects with a single call.

Service: ProjectSpendingPlan Service (on page 757)

Style: Document/literal wrapped

Input:

Message: DeleteProjectSpendingPlans Elements: One to many ObjectId elements

Output:

Message: DeleteProjectSpendingPlansResponse Output: boolean

GetFieldLengthProjectSpendingPlan Operation

Description: Returns length of variable character fields for a BO.

Service: ProjectSpendingPlan Service (on page 757)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthProjectSpendingPlan Elements: FieldLength

Output:

Message: GetFieldLengthProjectSpendingPlanResponse Elements: One to many FieldLengthProjectSpendingPlans.

ProjectSpendingPlan Fields

Field	Туре	Read Only	Filterable Orderable	Description
BenefitPlan	double restricted to minInclusive(-9.9 99999999999999 13) maxInclusive(9.9 99999999999999 13)		X	The editable monthly profit portion for each month for the project.
CreateDate	dateTime	x	x	The date this spending plan was created.
CreateUser	string restricted to maxLength(255)	x	x	The name of the user that created this spending plan.
Date	dateTime		x	The start of a spending/benefit plan time period for the project.
IsBaseline	boolean	x	x	The boolean value indicating if this business object is related to a Project or Baseline
IsTemplate	boolean	x	x	The boolean value indicating if this business object is related to a template Project.
LastUpdate Date	dateTime	x	x	The date this spending plan was last updated.
LastUpdate User	string restricted to maxLength(255)	x	x	The name of the user that last updated this spending plan.

ObjectId	int		x	The unique ID generated by the system.
ProjectId	string restricted to maxLength(40)	x	x	The Project short code that uniquely identifies the project.
ProjectObje ctId	int		x	The unique ID of the associated project for this project spending plan.
SpendingPl an	double restricted to minInclusive(-9.9 99999999999999 13) maxInclusive(9.9 9999999999999 13)		x	The editable total monthly expenditure for the project.
WBSCode	string restricted to maxLength(40)	X	x	The short code assigned to each WBS element for identification. Each WBS element is uniquely identified by concatenating its own code together with its parents' codes.
WBSName	string restricted to maxLength(100)	x	x	The name of the WBS element.
WBSObject Id	int		x	The unique ID of the associated WBS for this project spending plan.

ProjectThreshold Service

Operations:

CreateProjectThresholds Operation (on page 762) ReadProjectThresholds Operation (on page 763) UpdateProjectThresholds Operation (on page 763) DeleteProjectThresholds Operation (on page 763) GetFieldLengthProjectThreshold Operation (on page 764)

WSDL: ProjectThreshold.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/ProjectThreshold/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/ProjectThresholdService?wsdl https://<hostname>:<port number>/p6ws/services/ProjectThresholdService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.projectthreshold.ProjectThresholdService

Description:

Project thresholds are used as a project management technique to monitor values within a specified tolerance range so that project issues can be identified and reported. For example, a threshold could be used to monitor Start Date variance or Total Float values.

CreateProjectThresholds Operation

Description: Creates multiple ProjectThreshold objects in the database. You can create up to 1000 ProjectThreshold objects with a single call.

Service: ProjectThreshold Service (on page 762)

Style: Document/literal wrapped

Input:

Message: CreateProjectThresholds

Elements: ProjectThreshold elements that contain *ProjectThreshold Fields* (on page 764) fields

Required fields: The following fields are required when creating the ProjectThreshold object:

- ProjectObjectId|WBSObjectId
- ThresholdParameterObjectId
- OBSObjectId

Output:

Message: CreateProjectThresholdsResponse Output: Zero to many ObjectId elements

ReadProjectThresholds Operation

Description: Reads ProjectThreshold objects from the database.

Service: ProjectThreshold Service (on page 762)

Style: Document/literal wrapped

Input:

Message: ReadProjectThresholds

Elements: One to many field names from the *ProjectThreshold Fields* (on page 764) field list

You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadProjectThresholdsResponse

Output: Zero to many ProjectThreshold elements that contain ProjectThreshold fields.

UpdateProjectThresholds Operation

Description: Updates multiple ProjectThreshold objects in the database. You can update up to 1000 ProjectThreshold objects with a single call.

Service: ProjectThreshold Service (on page 762)

Style: Document/literal wrapped

Input:

Message: UpdateProjectThresholds

Elements: ProjectThreshold elements that contain *ProjectThreshold Fields* (on page 764) fields.

Required fields: The ObjectId must be specified.

Output:

Message: UpdateProjectThresholdsResponse Output: boolean

DeleteProjectThresholds Operation

Description: Deletes multiple ProjectThreshold objects in the database. You can delete up to 1000 ProjectThreshold objects with a single call.

Service: ProjectThreshold Service (on page 762)

Style: Document/literal wrapped

Input:

Message: DeleteProjectThresholds Elements: One to many ObjectId elements

Output:

Message: DeleteProjectThresholdsResponse Output: boolean

GetFieldLengthProjectThreshold Operation

Description: Returns length of variable character fields for a BO.

Service: ProjectThreshold Service (on page 762)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthProjectThreshold Elements: FieldLength

Output:

Message: GetFieldLengthProjectThresholdResponse Elements: One to many FieldLengthProjectThresholds.

ProjectThreshold Fields

Field	Туре	Read Only	Filterable Orderable	Description
CreateDate	dateTime	x	x	The date this project threshold was created.
CreateUser	string restricted to maxLength(255)	x	x	The name of the user that created this project threshold.
DetailToMoni tor	string restricted to 'Activity' 'WBS'		Х	The level of detail to monitor, either Activity or WBS. The project threshold is calculated at the activity level or at the WBS

			level, whichever is selected.
FromDate	dateTime		The starting custom date of the time window that is monitored against a project threshold. Any activities or WBS elements with start/finish dates which intersect this time window are monitored.
FromDateEx pression	string restricted to maxLength(50)	X	The expression for the starting date of the time window that is monitored against a project threshold. Valid values are PS (the project StartDate), PF (the project Data Date), CD (Current Date), CW (Current Week), or CM (Current Month). All values can be combined with arithmetic operators + or - and a numerical calendar value. For example, PS+5D, DD-1M. The calendar abbreviation specified in the expression (H, D, W, M, Y) must match the value of the corresponding

				GlobalPreferenc es field: HourChar, DayChar, WeekChar, MonthChar, or YearChar. You could specify a custom date by setting a date value for the FromDate field. If you set values for both the FromDate and FromDateExpres sion fields, the FromDateExpres sion will be ignored.
IsBaseline	boolean	x	x	The boolean value indicating if this business object is related to a Project or Baseline
IsTemplate	boolean	x	x	The boolean value indicating if this business object is related to a template Project.
IssuePriority	string restricted to 'Top' 'High' 'Normal' 'Low' 'Lowest'		x	The priority of any issues generated from the project threshold.
LastUpdateD ate	dateTime	x	x	The date this project threshold was last updated.
LastUpdateU	string	х	х	The name of the user that last

ser	restricted to maxLength(255)			updated this project threshold.
LowerThresh old	double restricted to minInclusive(-9.9 99999999999999999 E12) maxInclusive(9.9 999999999999999 E12)		X	The lower value of a project threshold that will trigger an issue. An issue is identified by the project threshold monitor when the actual/observed value of the project threshold parameter is found to be less than or equal to the lower project threshold value. If the lower project threshold value is null, it is ignored. Example: The Total Float lower project threshold is set to one day. Whenever the observed total float is less than or equal to one day, a project issue is raised.
OBSObjectId	int		x	The unique ID of the associated OBS for this project threshold.
ObjectId	int		х	The unique ID generated by the system.
ProjectId	string restricted to maxLength(40)	x	x	The Project short code that uniquely identifies the

			project.
ProjectObject Id	int	x	The unique ID of the associated project for this project threshold.
Status	string restricted to 'Enabled' 'Disabled'	x	The current status of the project threshold.
ThresholdPar ameterObject Id	int	x	The unique ID of the associated threshold parameter for this project threshold.
ToDate	dateTime		The ending custom date of the time window that is monitored against a project threshold. Any activities or WBS elements with start/finish dates which intersect this time window are monitored.
ToDateExpre ssion	string restricted to maxLength(50)	X	The expression for the ending date of the time window that is monitored against a project threshold. Valid values are PS (the project StartDate), PF (the project FinishDate), DD (the project Data Date), CD (Current Date), CW (Current Week), or CM

			(Current Month). All values can be combined with arithmetic operators + or - and a numerical calendar value. For example, PS+5d, DD-1M. The calendar abbreviation specified in the expression (H, D, W, M, Y) must match the value of the corresponding GlobalPreferenc es field: HourChar, DayChar, WeekChar, MonthChar, or YearChar. You could specify a custom date by setting a date value for the FromDate field. If you set values for both the ToDate Expressi on fields, the ToDateExpressi on will be ignored.
UpperThresh old	double restricted to minInclusive(-9.9 999999999999999 E12) maxInclusive(9.9 99999999999999999 E12)	x	The upper value of a project threshold parameter which will trigger an issue. An issue is identified by the project threshold monitor when the

				actual/observed value of the project threshold parameter is found to be greater than or equal to the upper project threshold value. If the upper project threshold value is null, it is ignored. Example: The Cost % of Planned upper project threshold is set to 120%. Whenever the actual cost is greater than or equal to 120% of planned, an issue is raised.
WBSCode	string restricted to maxLength(40)	x	x	The short code assigned to each WBS element for identification. Each WBS element is uniquely identified by concatenating its own code together with its parents' codes.
WBSName	string restricted to maxLength(100)	x	x	The name of the WBS element.
WBSObjectId	int		x	The unique ID of the associated WBS for this project threshold.

ScheduleOptions Service

Operations:

ReadScheduleOptions Operation (on page 771) UpdateScheduleOptions Operation (on page 772) GetFieldLengthScheduleOptions Operation (on page 772)

WSDL: ScheduleOptions.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/ScheduleOptions/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/ScheduleOptionsService?wsdl https://<hostname>:<port number>/p6ws/services/ScheduleOptionsService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.scheduleoptions.ScheduleOptionsService

Description:

Specifies how the associated project is to be scheduled.

Note that this business object has a multi-part object ID; its object ID is a combination of its user object ID and its project object ID.

You may not create or delete schedule options; they may only be loaded and updated.

ReadScheduleOptions Operation

Description: Reads ScheduleOptions objects from the database.

Service: ScheduleOptions Service (on page 771)

Style: Document/literal wrapped

Input:

Message: ReadScheduleOptions

Elements: One to many field names from the **ScheduleOptions Fields** (on page 772) field list

You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadScheduleOptionsResponse

Output: Zero to many ScheduleOptions elements that contain ScheduleOptions fields.

UpdateScheduleOptions Operation

Description: Updates multiple ScheduleOptions objects in the database. You can update up to 1000 ScheduleOptions objects with a single call.

Service: ScheduleOptions Service (on page 771)

Style: Document/literal wrapped

Input:

Message: UpdateScheduleOptions

Elements: ScheduleOptions elements that contain *ScheduleOptions Fields* (on page 772) fields.

Required fields: The ObjectId must be specified.

Output:

Message: UpdateScheduleOptionsResponse Output: boolean

GetFieldLengthScheduleOptions Operation

Description: Returns length of variable character fields for a BO.

Service: ScheduleOptions Service (on page 771)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthScheduleOptions Elements: FieldLength

Output:

Message: GetFieldLengthScheduleOptionsResponse Elements: One to many FieldLengthScheduleOptions.

ScheduleOptions Fields

Field	Туре	Read Only	Filterable Orderable	Description
CalculateFloatBas edOnFinishDate	boolean			The flag that indicates how each activity's float will be calculated with respect to other projects in the scheduling batch.

				This setting only has an effect when scheduling multiple projects at the same time. If true, each activity's float is calculated based on its project's ScheduledFinish Date. If false, then each activity's float is calculated based on the latest ScheduledFinish Date of all of the projects in the scheduling batch.
ComputeTotalFloa tType	string restricted to 'Start Float = Late Start - Early Start' 'Finish Float = Late Finish - Early Finish' 'Smallest of Start Float and Finish Float'			The method for calculating total float for all activities. Start Float is the difference between the early and late start dates (Start Float = Late Start - Early Start); Finish Float is the difference between the early and late finish dates (Finish Float = Late Finish - Early Finish); and Smallest of Start Float is the most critical float value.
CreateDate	dateTime	x	x	The date this schedule option was created.

				1
CreateUser	string restricted to maxLength(255)	x	x	The name of the user that created this schedule option.
CriticalActivityFloa tThreshold	double			the maximum float time for activities before they are marked critical.
CriticalActivityPath Type	string restricted to 'Critical Float' 'Longest Path'			The critical path type, which indicates how critical path activities are identified for the project, based on either 'Critical Float' or 'Longest Path'.
ExternalProjectPri orityLimit	int			The value set for the leveler setting "Consider assignments in other projects with priority equal or higher than". Must be between 1 and 100.
IgnoreOtherProjec tRelationships	boolean			The option used by the scheduler for treating activity relationships between projects when scheduling.
IncludeExternalRe sAss	boolean			The state of the leveler setting "Consider assignments in other projects with priority equal or higher than"
LastUpdateDate	dateTime	х	х	The date this schedule option was last updated.

LastUpdateUser	string restricted to maxLength(255)	x	x	The name of the user that last updated this schedule option.
LevelAllResources	boolean			The option used by the scheduler for automatically leveling resources when scheduling projects.
LevelWithinFloat	boolean			The option used by the leveler for leveling resources only within activity total float. Specify the amount of float to preserve using the MinFloatToPreser ve field. Specify the maximum percent to over allocate resources using the OverAllocationPe rcentage field.
MakeOpenEnded ActivitiesCritical	boolean			the option used by the scheduler for automatically leveling resources when scheduling projects.
MaximumMultiple FloatPaths	int restricted to minInclusive (0) maxInclusiv e(1000)			The number of critical float paths to calculate. For example, if you set the field to five, the module calculates the five most critical float paths ending with the activity you

		 selected. The
		module ranks
		each float path
		from most critical
		to least critical,
		and stores the
		value for each
		activity in the
		Float Path field.
		For example, if
		you calculate five
		float paths, the
		module will store
		a value of one in
		the Float Path
		field for each
		activity in the
		most critical float
		path; the module
		will store a value
		of five for each
		activity in the
		least critical float
		path. Note: To
		view the critical
		float paths after
		you schedule the
		project, group
		activities in the
		Activity Table by
		Float Path and
		sort by Float Path
		Order. A Float
		Path value of one
		indicates that
		those activities
		are part of the
		most critical float
		path. The Float
		Path Order value
		indicates the
		order in which the
		activities were
		processed.
MultipleFloatPaths		
EndingActivitySho		
rtName		

MinFloatToPreser ve	int	א כ ל ל ל ל ל ל ל ל ל ל ל ל ל ל ל ל ל ל	The option used by the leveler to specify the amount of activity float to preserve when leveling resources only within the activity total float using the LevelWithinFloat field.
MultipleFloatPaths Enabled	boolean	i i f (2 t	The Boolean value that indicates whether multiple critical float paths (sequences of activities) should be calculated in the project schedule.
MultipleFloatPaths EndingActivityObj ectId	int	t \ t f - - - - - - - - - - - - - - - - - -	The object Id of the activity in the WBS that you want to represent the end of the float paths. Typically, this will be a milestone activity or some other significant activity that has a start date or end date that cannot change. Note: if a value is not assigned, the module will choose an activity based on MultipleFloatPath sUseTotalFloat. If you are calculating multiple paths using Free Float,

Relationship			the module will choose the open-ended activity with the most critical Free Float. If you are calculating multiple paths using Total Float, the module will calculate the Total Float for all activity relationships, then choose the activity with the most critical Relationship
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		 		_
			The Boolean value that decides whether or not to use total float in multiple float path calculations.	
			If True, then based on the activity you want the paths to end on, the module determines which predecessor activity has the most critical Relationship Total Float on the backward pass. The module repeats this process until an activity is reached that has no relationship. The module begins the forward pass from this activity and determines which successor activity has the most critical Relationship Successor Total Float. The module repeats	
MultipleFloatPaths UseTotalFloat	boolean		this process until an activity is reached that has no relationship. These activities represent the most critical float path. The process begins again until the remaining sub-critical paths are calculated. If False, then critical float paths	
			are defined based on longest path. The most critical path will	779

OutOfSequenceS cheduleType	string restricted to '' 'Retained Logic' 'Progress Override' 'Actual Dates'			the type of logic used to schedule the progressed activities: 'Retained Logic', 'Progress Override', or 'Actual Dates'.
OverAllocationPer centage	double			The option used by the leveler to specify the maximum percent to over allocate resources when leveling resources only within the activity total float using the LevelWithinFloat field.
PreserveSchedule dEarlyAndLateDat es	boolean			The option used by the leveler to preserve scheduled early and late dates when leveling.
PriorityList	string			The list of fields used for prioritization during leveling.
ProjectId	string restricted to maxLength(40)	x		The short code that uniquely identifies the project.
ProjectObjectId	int	x	Filterable only	The unique ID of the associated project.
RelationshipLagC alendar	string restricted to 'Predecesso r Activity			the calendar used to calculate the lag between predecessors and

	Calendar' 'Successor Activity Calendar' '24 Hour Calendar' 'Project Default Calendar'		successors for all activities. Valid values are 'Predecessor Activity Calendar', 'Successor Activity Calendar', '24 Hour Calendar', and 'Project Default Calendar'. If you do not select a calendar, the successor activity calendar is used.
ResourceList	string		The list of Resource IDs to level.

StartToStartLagC alculationType	boolean	the method used to calculate lag when a start-to-start relationship exists and the predecessor starts out of sequence. Actual Start sets the successor's start according to the time elapsed from the predecessor's actual start (the successor's start date is the data date plus any remaining lag). Early Start sets the successor's start according to the amount of work that the predecessor activity accomplishes (the expired lag is calculated as the number of work periods between the actual start and the data date, and the successor's start date is the predecessor's start actual start and the data date, and the successor's internal early start plus any remaining lag).
UseExpectedFinis hDates	boolean	the option used for setting activity finish dates as the expected finish dates when scheduling projects.

UserName	string restricted to maxLength(255)	x		The user's login name.
UserObjectId	int	x	Filterable only	The unique ID of the associated user.

WBS Service

Operations:

CreateWBS Operation (on page 784) ReadWBS Operation (on page 784) UpdateWBS Operation (on page 784) CopyWBSFromTemplate Operation (on page 785) DeleteWBS Operation (on page 786) GetFieldLengthWBS Operation (on page 786) ReadActivityWBSPath Operation (on page 787) ReadWBSPath Operation (on page 787) ReadAllWBS Operation (on page 788)

WSDL: WBS.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/WBS/V2

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/WBSService?wsdl https://<hostname>:<port number>/p6ws/services/WBSService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.wbs.WBSService

Description:

The project work breakdown structure (WBS) is a hierarchical arrangement of the products and services produced during and by a project. Each element of a WBS may contain more-detailed WBS elements, activities, or both. WBS are hierarchical objects.

This business object supports user defined fields (UDFs). Use the UDFValue business object to assign UDFs.

CreateWBS Operation

Description: Creates multiple WBS objects in the database. You can create up to 1000 WBS objects with a single call.

Service: WBS Service (on page 783)

Style: Document/literal wrapped

Input:

Message: CreateWBS Elements: WBS elements that contain **WBS Fields** (on page 788) fields

Required fields: The following fields are required when creating the WBS object:

- Code
- Name
- ProjectObjectId|ParentObjectId

Output:

Message: CreateWBSResponse Output: Zero to many ObjectId elements

ReadWBS Operation

Description: Reads WBS objects from the database.

Service: WBS Service (on page 783)

Style: Document/literal wrapped

Input:

Message: ReadWBS

Elements: One to many field names from the WBS Fields (on page 788) field list

You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadWBSResponse Output: Zero to many WBS elements that contain WBS fields.

UpdateWBS Operation

Description: Updates multiple WBS objects in the database. You can update up to 1000 WBS objects with a single call.

Service: WBS Service (on page 783)

Style: Document/literal wrapped

Input:

Message: UpdateWBS Elements: WBS elements that contain *WBS Fields* (on page 788) fields. Required fields: The ObjectId must be specified.

Output:

Message: UpdateWBSResponse Output: boolean

CopyWBSFromTemplate Operation

Description: Copies a WBS structure from a template and places it under a WBS.

Service: WBS Service (on page 783)

Style: Document/literal wrapped

Input:

Message: CopyWBSFromTemplate Elements: elements that contain the following fields:

Field	Туре	Description
ObjectId	int	The unique identifier of an existing WBS that will contain the copied WBS structure.
TemplateWbsObjectId	int	The unique identifier of the source WBS structure to copy.
CopyWBSNotes	boolea n	Determines whether to copy WBS Notebooks.
CopyWBSMilestones	boolea n	Determines whether to copy WBS Milestones.
CopyActivities	boolea n	Determines whether to copy Activities.
CopyResourceAndRoleAssi gnments	boolea n	Determines whether to copy resource and role assignments.
CopyRelationships	boolea n	Determines whether to copy relationships.

CopyActivityCodes	boolea n	Determines whether to copy activity codes.
CopyEPSCodesAtProjectLe vel	boolea n	Determines whether to copy EPS specific activity codes as project specific activity codes if the WBS is being copied to an EPS which does not have access to the EPS specific activity code.
CopyActivityNotes	boolea n	Determines whether to copy activity notebooks.
CopyActivitySteps	boolea n	Determines whether to copy steps.

Required fields: The following fields are required when creating the Project object:

- ObjectId
- TemplateWbsObjectId

Output:

Message: CopyWBSFromTemplateResponse

Elements: ObjectId of the WBS specified in the ObjectId input parameter. The system copied a new WBS structure underneath this WBS.

DeleteWBS Operation

Description: Deletes multiple WBS objects in the database. You can delete up to 1000 WBS objects with a single call.

Service: WBS Service (on page 783)

Style: Document/literal wrapped

Input:

Message: DeleteWBS

Elements: One to many ObjectId DeleteWithReplacements

Output:

Message: DeleteWBSResponse Output: boolean

GetFieldLengthWBS Operation

Description: Returns length of variable character fields for a BO.

Service: WBS Service (on page 783)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthWBS Elements: FieldLength

Output:

Message: GetFieldLengthWBSResponse Elements: One to many FieldLengthWBSs.

ReadActivityWBSPath Operation

Description: Reads WBS objects from the database.

Service: WBS Service (on page 783)

Style: Document/literal wrapped

Input:

Message: ReadActivityWBSPath Elements:

- One to many ActivityObjectId elements
- > One to many field names from the WBS Fields (on page 788) field list.

Output:

Message: ReadActivityWBSPathResponse Output: Zero to many WBS elements that contain WBS fields.

ReadWBSPath Operation

Description: Reads WBS objects from the database.

Service: WBS Service (on page 783)

Style: Document/literal wrapped

Input:

Message: ReadWBSPath

Elements:

- One to many ObjectId elements
- One to many field names from the WBS Fields (on page 788) field list.

Output:

Message: ReadWBSPathResponse

Output: Zero to many WBS elements that contain WBS fields.

ReadAllWBS Operation

Description: Reads WBS objects from the database.

Service: WBS Service (on page 783)

Style: Document/literal wrapped

Input:

Message: ReadAllWBS

Elements:

- One to one ObjectId elements
- > One to many field names from the WBS Fields (on page 788) field list

You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadAllWBSResponse

Output: Zero to many WBS elements that contain WBS fields.

Field	Туре	Read Only	Filterable Orderable	Descriptio n
AnticipatedFinishD ate	dateTime		X	The anticipated finish date of WBS, project and EPS elements. User-enter ed - not dependent upon any other fields. If there are no children, the anticipated finish date will be the

WBS Fields

			finish date displayed in the columns.
AnticipatedStartDat e	dateTime	x	The anticipated start date of WBS, project and EPS elements. User-enter ed - not dependent upon any other fields. If there are no children, the anticipated start date will be the start date displayed in the columns.
Code	string restricted to maxLength(40)	x	The short code assigned to each WBS element for identificatio n. Each WBS element is uniquely identified by concatenat ing its own code together with its parents'

				codes.
ContainsSummary Data	boolean	x	x	The flag that indicates that the WBS has been summarize d.
CreateDate	dateTime	x	x	The date this wbs was created.
CreateUser	string restricted to maxLength(255)	x	x	The name of the user that created this wbs.
CurrentBudget	double	x		The current budget for this WBS.
CurrentVariance	double	x		The current budget minus the total spending plan.
DistributedCurrentB udget	double	x		The sum of the current budget values from one level lower
EarnedValueComp uteType	string restricted to " 'Activity Percent Complete' '0 / 100' '50 / 50' 'Custom Percent Complete' 'WBS Milestones Percent		x	The technique used for computing earned-val ue percent complete for activities within the

	Complete' 'Activity Percent Complete Using Resource Curves'		WBS. Valid values are 'Activity Percent Complete', '0 / 100', '50 / 50', 'Custom Percent Complete', 'WBS Milestones Percent Complete', and 'Activity Percent Complete Using Resource
EarnedValueETCC omputeType	string restricted to " 'ETC = Remaining Cost for Activity' 'PF = 1' 'PF = Custom Value' 'PF = 1 / CPI' 'PF = 1 / (CPI * SPI)'	X	Curves'. The technique for computing earned-val ue estimate-to -complete for activities within the WBS. Valid values are 'ETC = Remaining Cost for Activity', 'Performan ce Factor = 1', 'Performan ce Factor = Custom Value', 'Performan ce Factor = 1 / Cost

			Performan ce Index', and 'Performan ce Factor = 1 / (Cost Performan ce Index * Schedule Performan ce Index)'.
EarnedValueETCU serValue	double restricted to minInclusive(0.0)	X	The user-define d performanc e factor, PF, for computing earned-val ue estimate-to -complete. ETC is computed as PF * (BAC - BCWP).
EarnedValueUserP ercent	double	X	The user-define d percent complete for computing earned value for activities within the WBS. A value of, say, 25 means that 25% of the planned amount is earned when the activity is started and

				the remainder is earned when the activity is completed.
EstimatedWeight	double		X	The estimation weight for the WBS element, used for top-down estimation. Top-down estimation weights are used to calculate the proportion of units that each WBS element or activity receives in relation to its siblings in the WBS hierarchy. Top-down estimation distributes estimated units to activities using the WBS hierarchy.
FinishDate	dateTime	х		The finish date of the WBS.
ForecastFinishDate	dateTime	x		The alternate end date to be

				optionally used by the scheduler. The user sets the alternate end date by dragging the project bar in the Gantt Chart while manually leveling the resource profile in a resource analysis layout.
ForecastStartDate	dateTime	x		The alternate start date to be optionally used by the scheduler. The user sets the alternate start date by dragging the project bar in the Gantt Chart while manually leveling the resource profile in a resource analysis layout.
GUID	string		Х	The globally

	restricted to pattern '\{[0-9a-fA-F]{8}-[0-9a-fA- F]{4}-[0-9a-fA-F]{4}-[0-9a- fA-F]{4}-[0-9a-fA-F]{12}\} '		unique ID generated by the system.
IndependentETCLa borUnits	double	x	The user-enter ed ETC total labor.
IndependentETCTo talCost	double	x	The user-enter ed ETC total cost.
IntegratedType	string restricted to '' 'ERP' 'Gateway' 'PrimaveraCloudScope'	X	The flag indicating whether the WBS is integrated with an Enterprise Resource Planning (ERP) system. 'Fusion' indicates the WBS is integrated with Oracle Fusion. 'ERP' indicates the WBS is integrated with another ERP system. 'Gateway' indicates the WBS is integrated with oracle Fusion.

IntegratedWBS	boolean	x	x	The indicator that determines whether a WBS is synchroniz ed or not.
IsBaseline	boolean	x	x	The boolean value indicating if this business object is related to a Project or Baseline
IsTemplate	boolean	x	x	The boolean value indicating if this business object is related to a template Project.
IsWorkPackage	boolean		x	Indicates if this WBS is a workpacka ge in Oracle Primavera Cloud or not.
LastUpdateDate	dateTime	x	x	The date this wbs was last updated.
LastUpdateUser	string restricted to maxLength(255)	x	x	The name of the user that last updated this wbs.

Name	string restricted to maxLength(100)		x	The name of the WBS element.
OBSName	string restricted to maxLength(100)	x	x	The name of the person/role in the organizatio n, sometimes referred to as the "responsibl e manager".
OBSObjectId	int		x	The unique ID of the project manager from the project's OBS tree who is responsibl e for the WBS.
ObjectId	int		x	The unique ID generated by the system.
OriginalBudget	double		x	The original budget for the WBS element.
ParentObjectId	int		x	The unique ID of the parent WBS of this WBS in the hierarchy.

ProjectId	string restricted to maxLength(40)	х	х	The short code that uniquely identifies the project.
ProjectObjectId	int		x	The unique ID of the associated project.
ProposedBudget	double	x		The sum of the original budget plus the approved and pending budgets from the budget change log.
RolledUpFinishDat e	dateTime	X		The finish date of the WBS. The involved summarize d fields such as "Remianin gFinish" and "ActualFini sh" are rolled up on the fly.
RolledUpStartDate	dateTime	x		The start date of the WBS. The involved summarize d fields such as "Remianin gStart" and "ActualStar t" are rolled

				up on the fly.
SequenceNumber	int		x	The sequence number for sorting.
StartDate	dateTime	x		The start date of the WBS.
Status	string restricted to 'Planned' 'Active' 'Inactive' 'What-If' 'Requested' 'Template'		x	The WBS status: 'Planned', 'Active', 'Inactive', 'What-If', 'Requested ', or 'Template'.
StatusReviewerNa me	string	x		The names of the users reviewing status updates.
StatusReviewerObj ectId	string		x	The unique IDs of the users reviewing status updates.
SummaryAccountin gVarianceByCost	double	X		the Planned Value minus the Actual Cost. A negative value indicates that the Actual Cost has exceeded the

			Planned Value.
SummaryAccountin gVarianceByLabor Units	double	x	the Planned Value Labor Units minus the Actual Units. Negative value indicates that Actual Units have exceeded the Planned Value Labor Units.
SummaryActivityCo unt	int	x	the number of activities that are currently in progress.
SummaryActualDur ation	double	x	The actual duration.
SummaryActualExp enseCost	double	x	The actual costs for all project expenses associated with the WBS.
SummaryActualFini shDate	dateTime	x	The latest actual finish date of all activities in the WBS.

SummaryActualLab orCost	double	x	The actual cost for all labor resources assigned to the activity.
SummaryActualLab orUnits	double	x	The actual labor units.
SummaryActualMat erialCost	double	X	The actual units for all material resources assigned to the activity.
SummaryActualNo nLaborCost	double	x	The actual units for all nonlabor resources assigned to the activity.
SummaryActualNo nLaborUnits	double	x	The actual nonlabor units.
SummaryActualSta rtDate	dateTime	x	The earliest actual start date of all activities in the WBS.
SummaryActualThi sPeriodCost	double	x	The actual this period cost (will be labor or nonlabor).
SummaryActualThi sPeriodLaborCost	double	x	The actual this period labor cost.

SummaryActualThi sPeriodLaborUnits	double	х	The actual this period labor units.
SummaryActualThi sPeriodMaterialCos t	double	x	The actual this period material cost.
SummaryActualThi sPeriodNonLaborC ost	double	x	The actual this period nonlabor cost.
SummaryActualThi sPeriodNonLaborU nits	double	x	The actual this period nonlabor units.
SummaryActualTot alCost	double	x	The actual labor cost + actual nonlabor cost + actual expense cost as of the project data date.
SummaryActualVal ueByCost	double	X	the actual total cost incurred on the activity as of the project data date, computed as Actual Labor Cost + Actual Nonlabor Cost + Actual Material Cost + Actual Expense Cost.

SummaryActualVal ueByLaborUnits	double	x	the actual total labor units for the activity as of the project data date (that is, actual total cost by labor units).
SummaryAtCompletionDuration	double	X	the total working time from the activity's current start date to the current finish date. The current start date is the planned start date until the activity is started, then it is the actual start date. The current finish date. The current finish date is the activity is started, then it is the actual start date. The current finish date is the activity planned finish date while the activity is not started, the is the activity is

			activity is in progress, and the actual finish date once the activity is completed. The total working time is
			computed using the activity's calendar.
SummaryAtComple tionExpenseCost	double	X	the sum of the actual plus remaining cost for all project expenses associated with the cost account. Computed as Actual Expense Cost + Remaining Expense Cost.
SummaryAtComple tionLaborCost	double	X	The sum of the actual plus remaining costs for all labor resources assigned to the activity. Computed as actual labor cost +

			remaining labor cost. Same as the planned labor costs if the activity is not started and the actual labor costs once the activity is completed.
SummaryAtComple tionLaborUnits	double	X	The sum of the actual plus remaining units for all labor resources assigned to the activity. Computed as actual labor units + remaining labor units. Same as the planned labor units if the activity is not started and the actual labor units once the activity is completed.
SummaryAtComple tionMaterialCost	double	x	The material cost at completion

	Γ		
			. It is the sum of the actual plus remaining costs for all material resources assigned to the activity. Computed as actual material cost + remaining material cost. Same as the planned material costs if the activity is not started and the actual material costs once the activity is completed.
SummaryAtComple tionNonLaborCost	double	x	The nonlabor cost at completion . It is the sum of the actual plus remaining costs for all nonlabor resources assigned to the activity. Computed as actual nonlabor cost +

		1	· · · · · · · · · · · · · · · · · · ·
			remaining
			nonlabor
			cost. Same
			as the
			planned
			nonlabor
			costs if the
			activity is
			not started
			and the
			actual
			nonlabor
			costs once
			the activity
			is
			completed.
			The
			nonlabor
			units at
			completion
			. It is the
			sum of the
			actual plus
			remaining
			units for all
			nonlabor
			resources
			assigned
			to the
			activity.
SummaryAtComple	da de la		Computed
tionNonLaborUnits	double	Х	as actual
			nonlabor
			units +
			remaining
			nonlabor
			units.
			Same as
			the
			planned
			nonlabor
			units if the
			activity is
			not started
			and the
			actual
			nonlabor
			units once

			the activity is completed.
SummaryAtComple tionTotalCost	double	X	The estimated cost at completion for the activity. Computed as the actual total cost plus the estimate-to -complete cost; EAC = ACWP + ETC. Note that the method for computing ETC depends on the earned-val ue technique selected for the activity's WBS.
SummaryAtComple tionTotalCostVarian ce	double	x	the Baseline Planned Total Cost - At Completion Total Cost.
SummaryBaseline CompletedActivityC ount	int	x	The number of completed activities in the baseline.

SummaryBaseline Duration	double	x	the planned duration for the activity in the primary baseline. Planned duration is the total working time from the activity current start date to the current finish date. Same as the actual duration plus the remaining duration. The total working time is computed using the activity's
SummaryBaselineE xpenseCost	double	x	calendar. the planned cost for all project expenses associated with the activity in the primary baseline. Computed as the baseline actual expense cost plus the

			base rema expe cost.	aining ense
SummaryBaselineF inishDate	dateTime	x	date	et finish of all ities in VBS ne ent
SummaryBaselinel nProgressActivityC ount	int	x	of ac that be curre prog acco to the prima base Com using base start finish and curre	ary eline. puted g the eline and n dates the
SummaryBaselineL aborCost	double	x	labor reso assig to the activ the p base Com from base Com	for all r urces gned e ity in primary eline. puted the eline At pletion r units.

			resources are assigned, computed as the activity Baseline Planned Labor Units * Project Default Price / Time.
SummaryBaselineL aborUnits	double	x	the planned units for all labor resources assigned to the activity in the primary baseline. Computed as the baseline actual labor units plus the baseline remaining labor units.
SummaryBaseline MaterialCost	double	x	the planned cost for all material resources assigned to the activity in the primary baseline. Computed from the baseline At Completion nonlabor

			units. If no resources are assigned.
SummaryBaseline NonLaborCost	double	X	the planned cost for all nonlabor resources assigned to the activity in the primary baseline. Computed from the baseline At Completion nonlabor units. If no resources are assigned, computed as the activity Baseline Planned Nonlabor Units * Project Default Price / Time.
SummaryBaseline NonLaborUnits	double	x	the planned units for all nonlabor resources assigned to the activity in the primary baseline. Computed as the baseline actual

			nonlabor units plus the baseline remaining nonlabor units.
SummaryBaseline NotStartedActivityC ount	int	x	The number of activities not started in the baseline.
SummaryBaselineS tartDate	dateTime	x	The current earliest start date of all activities in the WBS for the current baseline.
SummaryBaselineT otalCost	double	X	the Planned Total Cost for the activity in the primary baseline, including labor resources, nonlabor resources, and project expenses. Baseline Planned Total Cost = Baseline Planned Labor Cost + Baseline Planned Nonlabor Cost +

				Baseline Planned Expense Cost.
SummaryBudgetAt CompletionByCost	double	X		the Planned Total Cost through activity completion Computed as Planned Labor Cost + Planned Nonlabor Cost + Planned Expense Cost, same as the Planned Total Cost.
SummaryBudgetAt CompletionByLabor Units	double	x		the Baseline Labor Units
SummaryComplete dActivityCount	int	x	1	the number of activities that have an Actual Finish in the WBS.
SummaryCostPerc entComplete	double	x		The percent complete of costs for the resource assignmen ts in the wbs. Computed as Actual Units / At Complete

			Units * 100. Always in the range 0 to 100.
SummaryCostPerc entOfPlanned	double	X	The activity actual cost percent of planned. Computed as actual total cost / baseline total cost * 100, or equivalentl y as ACWP / BAC * 100. The value can exceed 100. The baseline total cost is the activity's at completion cost from the current baseline. This field is named SummaryC ostPercent OfBudget in Primavera' s Engineerin g & Constructio n and Maintenan ce & Turnaroun d solutions.

SummaryCostPerfo rmanceIndexByCos t	double	X	the Earned Value divided by the Actual Cost. A value less than 1 indicates that the Actual Cost has exceeded the Planned Value.
SummaryCostPerfo rmanceIndexByLab orUnits	double	x	the Earned Value Labor Units / Actual Labor Units.
SummaryCostVaria nceByCost	double	X	the Earned Value minus the Actual Cost. A negative value indicates that the Actual Cost has exceeded the Planned Value.
SummaryCostVaria nceByLaborUnits	double	x	the Earned Value Labor Cost minus Actual Value Labor Cost.

SummaryCostVaria nceIndex	double	x	The value that is calcuated as the Cost Variance divided by Earned Value.
SummaryCostVaria nceIndexByCost	double	x	the Cost Variance divided by Earned Value.
SummaryCostVaria nceIndexByLaborU nits	double	x	the Cost Variance Labor Units divided by Earned Value Labor Units.
SummaryDurationP ercentComplete	double	X	The activity actual duration percent of planned. Computed as (baseline planned duration - remaining duration) / baseline planned duration * 100.
SummaryDurationP ercentOfPlanned	double	x	The summary actual duration percent of planned of all activities

			under this WBS. Computed as actual duration / baseline duration * 100. The value can exceed 100. The Baseline duration is the activity's at complete duration from the current baseline.
SummaryDurationV ariance	double	x	The duration between the activity's baseline duration and the at complete duration. Computed as baseline duration - at completion duration.
SummaryEarnedVa lueByCost	double	x	the Budget at Completion * Performan ce % Complete. The method for computing the Performan

		1	
			ce Percent
			Complete
			depends
			on the
			Earned
			Value
			technique
			selected for the
			activity's
			WBS.
			Budget at
			Completion
			is
			computed
			from the
			primary
			baseline.
			the portion
			of the
			baseline
			labor units
			that is
			actually
			completed
			as of the
			project
			data date.
			Computed as
			as Baseline
			Labor
SummaryEarnedVa	double		Units *
lueByLaborUnits		Х	Performan
			ce %
			Complete.
			The
			planned
			labor units
			performed
			is
			essentially
			the labor
			units
			Earned
			Value for
			the activity.
			The

			method for computing the Performan ce % Complete depends on the Earned Value technique selected for the activity's WBS. The Baseline Labor Units is taken from the current baseline.
SummaryEstimate AtCompletionByCo st	double	x	the Actual Cost plus the Estimate to Complete Cost. The method for computing Estimate to Complete depends on the Earned Value technique selected for the activity's WBS.
SummaryEstimate AtCompletionByLa borUnits	double	x	the Actual Labor Units + Estimate To Complete Labor Units.

			(Estimate To Complete Labor Units is calculated based off of the Earned Value setting on the WBS.)
SummaryEstimate AtCompletionHighP ercentByLaborUnits	double	x	the high forecast of Estimate At Completion (EAC) by labor units.
SummaryEstimate AtCompletionLowP ercentByLaborUnits	double	x	the low forecast of Estimate At Completion (EAC) by labor units.
SummaryEstimateT oCompleteByCost	double	x	the Remaining Total Cost for the activity or the Performan ce Factor * (Budget at Completion - Earned Value), depending on the Earned Value technique selected for the activity's WBS

			(calculated from the primary baseline).
SummaryEstimateT oCompleteByLabor Units	double	X	the estimated quantity to complete the activity. Computed as either the remaining total units for the activity, or as Performan ce Factor * (Baseline Planned Labor Units - Planned Quantity of Work Performed) , depending on the Earned Value Technique selected for the activity's WBS.
SummaryExpense CostPercentCompl ete	double	x	The percent complete of cost for all expenses associated with the WBS. It is computed as Actual

			Expense Cost / At Complete Expense Cost * 100, and it is always in the range of 0 to 100.
SummaryExpense CostVariance	double	x	the Baseline Planned Expense Cost - At Completion Expense Cost (At Completion Expense Cost = Actual Expense Cost + Remaining Expense Cost).
SummaryFinishDat eVariance	double	X	The duration between the finish date in the current project and the baseline finish date. Calculated as finish date - baseline finish date.
SummaryInProgres sActivityCount	int	x	the number of activities that are currently in progress.

SummaryLaborCos tPercentComplete	double	x	The percent complete of cost for all labor resources assigned to the WBS. It is computed as Actual Labor Cost / At Complete Labor Cost * 100, and it is always in the range of 0 to 100.
SummaryLaborCos tVariance	double	x	the Baseline Planned Labor Cost - At Completion Labor Cost.
SummaryLaborUnit sPercentComplete	double	X	The percent complete of units for all labor resources for the WBS. Computed as actual labor units / at complete labor units * 100. Always in the range 0 to 100.

SummaryLaborUnit sVariance	double	x	The difference between baseline labor units and at completion labor units Calculated as baseline labor units - at completion labor units
SummaryMaterialC ostPercentComplet e	double	x	The percent complete of cost for all material resources assigned to the WBS. It is computed as Actual Material Cost / At Complete Material Cost * 100 and it is always in the range of 0 to 100
SummaryMaterialC ostVariance	double	X	The variance that is calculated as Baseline Material Cost - At Completior Material Cost.

			The percent complete of cost for all
SummaryNonLabor CostPercentCompl ete	double	X	non-labor resources assigned to the WBS. It is computed as Actual Nonlabor Cost / At Complete Nonlabor Cost * 100, and it is always in the range of 0 to 100.
SummaryNonLabor CostVariance	double	x	the Baseline Planned Nonlabor Cost - At Completion Nonlabor Cost.
SummaryNonLabor UnitsPercentCompl ete	double	X	The percent complete of units for all nonlabor resources for the WBS. Computed as Actual Nonlabor Cost / At Completion Nonlabor Cost * 100. Always in the range 0

			to 100.
SummaryNonLabor UnitsVariance	double	X	The difference between baseline nonlabor units and at completion non labor units. Calculated as baseline nonlabor units - at completion nonlabor units.
SummaryNotStarte dActivityCount	int	x	the number of activities that are currently not started.
SummaryPerforma ncePercentComplet eByCost	double	X	the percent complete of performanc e for all labor resources, nonlabor resources, and expenses. Computed as Earned Value / Budget At Completion * 100. Always in the range 0 to 100.

SummaryPerforma ncePercentComplet eByLaborUnits	double	X	the perce complete of performa e for all labor resource Compute as earne value lab units / baseline labor uni * 100. Always in the range to 100.	es. es. ed ed por ts
SummaryPlannedC ost	double	x	The sum all planne expense non labo labor, an material costs in t WBS.	ed , r, d
SummaryPlannedD uration	double	x	The total working days between planned start and finish dat in the WBS.	1
SummaryPlannedE xpenseCost	double	x	The sum all planne expense costs in t WBS.	ed
SummaryPlannedFi nishDate	dateTime	x	The lates planned finish dat of all activities the WBS	te in

SummaryPlannedL aborCost	double	x	The sum of all planned labor costs in the WBS.
SummaryPlannedL aborUnits	double	x	The sum of all planned labor units in the WBS.
SummaryPlannedM aterialCost	double	x	The sum of all planned material costs in the WBS.
SummaryPlannedN onLaborCost	double	x	The sum of all planned non labor costs in the WBS.
SummaryPlannedN onLaborUnits	double	x	The sum of all planned non labor units in the WBS.
SummaryPlannedS tartDate	dateTime	X	The earliest planned start date of all activities in the WBS.
SummaryPlannedV alueByCost	double	X	the Budget at Completion * Schedule % Complete. The Schedule % Complete specifies how much of the

	Ι		1	
				activity's baseline duration has been completed so far. Budget at Completion is computed from the
				primary baseline
SummaryPlannedV alueByLaborUnits	double	X		the portion of the baseline labor units that is scheduled to be completed as of the project data date. Computed as Baseline Labor Units * Schedule % Complete. The Schedule % Complete specifies how much of the activity's baseline duration has been completed so far. The Baseline Labor Units is

			taken from the current baseline.
SummaryProgress FinishDate	dateTime	X	The date the WBS is expected to be finished according to the progress made on the work products for the activities assigned to the WBS.
SummaryRemainin gDuration	double	x	The total working time from the WBS remaining start date to the remaining finish date.
SummaryRemainin gExpenseCost	double	X	The remaining costs for all project expenses associated with the activities in the WBS.
SummaryRemainin gFinishDate	dateTime	x	The date the resource is scheduled to finish the remaining work for the activity. This date

			is computed by the project scheduler but can be updated manually by the project manager. Before the activity is started, the remaining finish date is the same as the planned finish date.
SummaryRemainin gLaborCost	double	X	The remaining costs for all labor resources assigned to the activities. The remaining cost reflects the cost remaining for the WBS.
SummaryRemainin gLaborUnits	double	x	The remaining units for all labor resources assigned to the activities. The remaining units

			reflects the work remaining to be done for the WBS.
SummaryRemainin gMaterialCost	double	x	The remaining material costs for all project expenses associated with the activities in the WBS.
SummaryRemainin gNonLaborCost	double	x	The remaining nonlabor costs for all project expenses associated with the activities in the WBS.
SummaryRemainin gNonLaborUnits	double	X	The remaining units for all nonlabor resources assigned to the activities. The remaining units reflects the work remaining to be done for the WBS.
SummaryRemainin gStartDate	dateTime	x	The earliest remaining start of all

			activities assigned to the WBS.
SummaryRemainin gTotalCost	double	x	The sum of all remaining total costs in the WBS.
SummarySchedule PercentComplete	double	X	The measure that indicates how much of the WBS baseline duration has been completed so far. Computed based on where the current data date falls between the activity's baseline start and finish dates. If the data date is earlier than the baseline start, the schedule % complete is 0. If the data date is later than the baseline

			finish, the schedule % complete is 100. The schedule % complete indicates how much of the WBS duration should be currently completed, relative to the selected baseline.
SummarySchedule PercentCompleteB yLaborUnits	double	x	the percent complete of units for all labor resources. Computed as Actual Labor Units / At Completion Labor Units * 100. Always in the range 0 to 100.
SummarySchedule PerformanceIndex ByCost	double	x	the Earned Value divided by the Planned Value. A value less than 1 indicates that less work was actually performed

			than was scheduled.
SummarySchedule PerformanceIndex ByLaborUnits	double	X	the Earned Value Labor Units divided by Planned Value Labor Units.
SummarySchedule VarianceByCost	double	X	the Earned Value divided by the Planned Value. A negative value indicates that less work was actually performed than was scheduled.
SummarySchedule VarianceByLaborU nits	double	X	the Earned Value Labor Units minus the Planned Value Labor Units.
SummarySchedule VarianceIndex	double	x	The value that is calculated as the Schedule Variance Labor Units divided by Planned Value

			Labor Units.
SummarySchedule VarianceIndexByC ost	double	x	the Schedule Variance divided by the Planned Value.
SummarySchedule VarianceIndexByLa borUnits	double	x	the Schedule Variance Labor Units divided by the Planned Value Labor Units.
SummaryStartDate Variance	double	X	The duration between the start date in the current project and the baseline start date. Calculated as start date - baseline start date.
SummaryToCompl etePerformanceInd exByCost	double	x	the (Budget at Completion - Earned Value) divided by (Estimate at Completion - Actual

			Cost).
SummaryTotalCost Variance	double	x	The value that is calculated as baseline total cost - total cost.
SummaryTotalFloat	double	X	The amount of time the WBS can be delayed before delaying the project finish date. Total float can be computed as late start - early start or as late finish - early finish; this option can be set when running the project scheduler.
SummaryUnitsPerc entComplete	double	X	The percent complete of units for the resource assignmen ts in the wbs. Computed as Actual Units / At Complete Units * 100.

			Always in the range 0 to 100.
SummaryVariance AtCompletionByLa borUnits	double	x	the Baseline Planned Total Labor Units minus Estimate at Completion Labor Units.
TotalBenefitPlan	double	x	The sum of the monthly benefit plan.
TotalBenefitPlanTal ly	double	x	The sum of the monthly benefit plan tally.
TotalSpendingPlan	double	x	The sum of the monthly spending plan.
TotalSpendingPlan Tally	double	x	The sum of the monthly spending plan tally.
UnallocatedBudget	double	x	The difference between the total current and distributed current budget. Calculated as total current budget -

				distributed current budget.
UndistributedCurre ntVariance	double	x		The total spending plan minus the total spending plan tally.
WBSCategoryObje ctId	int		X	The unique ID of the associated WBS category value. Note that the label used for the WBS category is dynamic; it is controlled by the system administrat or.
WBSMilestonePerc entComplete	double	X		The WBSMilest onePercen tComplete field determines whether to calculate earned value by defining milestones at the WBS level and assigning a level of significanc e or weight to each of them. As

		progress
		occurs and
		you mark
		each
		milestone
		complete,
		the WBS
		element's
		performanc
		e percent
		complete is
		calculated
		based on
		the weight
		of the
		milestone.

WBSMilestone Service

Operations:

CreateWBSMilestones Operation (on page 842) ReadWBSMilestones Operation (on page 842) UpdateWBSMilestones Operation (on page 843) DeleteWBSMilestones Operation (on page 843) GetFieldLengthWBSMilestone Operation (on page 843)

WSDL: WBSMilestone.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/WBSMilestone/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/WBSMilestoneService?wsdl https://<hostname>:<port number>/p6ws/services/WBSMilestoneService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.wbsmilestone.WBSMilestoneService

Description:

WBS milestones are weighted milestones assigned at the WBS level that can be used for calculating performance percent complete.

For each WBS element, set the EarnedValueComputeType to be

WBS_MILESTONES_PERCENT_COMPLETE, then define as many milestones as you need and assign a level of significance or weight to each of them. As progress occurs and you mark each milestone complete, the WBS element's performance percent complete is calculated based on the weight of the milestone, independent of its lower-level activities.

CreateWBSMilestones Operation

Description: Creates multiple WBSMilestone objects in the database. You can create up to 1000 WBSMilestone objects with a single call.

Service: WBSMilestone Service (on page 841)

Style: Document/literal wrapped

Input:

Message: CreateWBSMilestones

Elements: WBSMilestone elements that contain WBSMilestone Fields (on page 844) fields

Required fields: The following fields are required when creating the WBSMilestone object:

- ProjectObjectId|WBSObjectId
- Name

Output:

Message: CreateWBSMilestonesResponse Output: Zero to many ObjectId elements

ReadWBSMilestones Operation

Description: Reads WBSMilestone objects from the database.

Service: WBSMilestone Service (on page 841)

Style: Document/literal wrapped

Input:

Message: ReadWBSMilestones

Elements: One to many field names from the **WBSMilestone Fields** (on page 844) field list You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadWBSMilestonesResponse

Output: Zero to many WBSMilestone elements that contain WBSMilestone fields.

UpdateWBSMilestones Operation

Description: Updates multiple WBSMilestone objects in the database. You can update up to 1000 WBSMilestone objects with a single call.

Service: WBSMilestone Service (on page 841)

Style: Document/literal wrapped

Input:

Message: UpdateWBSMilestones

Elements: WBSMilestone elements that contain *WBSMilestone Fields* (on page 844) fields. Required fields: The ObjectId must be specified.

Output:

Message: UpdateWBSMilestonesResponse Output: boolean

DeleteWBSMilestones Operation

Description: Deletes multiple WBSMilestone objects in the database. You can delete up to 1000 WBSMilestone objects with a single call.

Service: WBSMilestone Service (on page 841)

Style: Document/literal wrapped

Input:

Message: DeleteWBSMilestones Elements: One to many ObjectId elements

Output:

Message: DeleteWBSMilestonesResponse Output: boolean

GetFieldLengthWBSMilestone Operation

Description: Returns length of variable character fields for a BO.

Service: WBSMilestone Service (on page 841)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthWBSMilestone Elements: FieldLength

Output:

Message: GetFieldLengthWBSMilestoneResponse

Elements: One to many FieldLengthWBSMilestones.

WBSMilestone Fields

Field	Туре	Read Only	Filterable Orderable	Description
CreateDate	dateTime	X	X	The date this WBS milestone was created.
CreateUser	string restricted to maxLength(2 55)	x	x	The name of the user that created this WBS milestone.
IsBaseline	boolean	x	x	The boolean value indicating if this business object is related to a Project or Baseline
IsComplete d	boolean		x	The flag that indicates whether the step has been completed.
IsTemplate	boolean	x	x	The boolean value indicating if this business object is related to a template Project.
LastUpdate Date	dateTime	x	x	The date this WBS milestone was last updated.
LastUpdate User	string restricted to maxLength(2 55)	x	x	The name of the user that last updated this WBS milestone.
Name	string restricted to maxLength(1 20)		x	The name of the WBS milestone.
ObjectId	int		x	The unique ID generated by the system.

			1	
ProjectId	string restricted to maxLength(4 0)	x	x	The short code that uniquely identifies the project.
ProjectObje ctId	int		х	The unique ID of the associated project.
SequenceN umber	int		x	The sequence number for sorting.
WBSCode	string restricted to maxLength(4 0)	X	X	The short code assigned to each WBS element for identification. Each WBS element is uniquely identified by concatenating its own code together with its parents' codes.
WBSName	string restricted to maxLength(1 00)	x	x	The name of the WBS element.
WBSObjectI d	int		x	The unique ID of the WBS where the WBS milestone is assigned.
Weight	double		x	The weight that is assigned to the milestone.

Resource Services

Resource Service

Operations:

CreateResources Operation (on page 847) ReadResources Operation (on page 847) UpdateResources Operation (on page 848) DeleteResources Operation (on page 848) GetFieldLengthResource Operation (on page 848) ReadResourcePath Operation (on page 849) LoadActivities Operation (on page 849)

WSDL: Resource.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/Resource/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/ResourceService?wsdl https://<hostname>:<port number>/p6ws/services/ResourceService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.resource.ResourceService

Description:

Resources include the personnel and equipment that perform work on activities across all projects. Resources are always time-based and are generally reused between activities and/or projects. You can create a resource pool that reflects your organization's resource structure and supports the assignment of resources to activities. You can also distinguish between labor and nonlabor resources. You can create and assign resource calendars and define a resource's roles, contact information, and time-varying prices. If a resource uses Timesheets, you can also assign a login name and password to the resource.

Define a master list of resources consisting of the resources necessary to complete the projects in your enterprise structure. Then, group resources to create an easily accessible pool from which you can draw when assigning resources to a project. For each resource, set availability limits, unit prices, and a calendar to define its standard worktime and nonworktime, then allocate resources to the activities that require them. To enable grouping and rollups or your resources across the enterprise, set up resource codes and assign code values.

Resources are hierarchical and are different than expenses. While resources are time-based and generally extend across multiple activities and/or projects, expenses are one-time expenditures for non-reusable items required by activities. Expenses are not included when resources are leveled.

A resource may be specified as a primary resource when assigning to activities. An activity's primary resource is typically the resource who is responsible for coordinating an activity's work. Using Timesheets, the primary resource also updates the activity's start date, finish date, and expected end date. In addition, if an activity has any nonlabor resources, the primary resource may also be responsible for reporting the nonlabor resource's hours/units as well. With the exception of nonlabor resources, all other resources are responsible for reporting their own hours for assigned activities.

This business object supports user defined fields (UDFs) and codes. Use the UDFValue business object to assign UDFs, and the ResourceCodeAssignment business object to assign ResourceCodes.

CreateResources Operation

Description: Creates multiple Resource objects in the database. You can create up to 1000 Resource objects with a single call.

Service: Resource Service (on page 845)

Style: Document/literal wrapped

Input:

Message: CreateResources

Elements: Resource elements that contain *Resource Fields* (on page 850) fields

Required fields: The following fields are required when creating the Resource object:

- Id
- Name

Output:

Message: CreateResourcesResponse Output: Zero to many ObjectId elements

ReadResources Operation

Description: Reads Resource objects from the database.

Service: Resource Service (on page 845)

Style: Document/literal wrapped

Input:

Message: ReadResources

Elements: One to many field names from the Resource Fields (on page 850) field list

You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadResourcesResponse

Output: Zero to many Resource elements that contain Resource fields.

UpdateResources Operation

Description: Updates multiple Resource objects in the database. You can update up to 1000 Resource objects with a single call.

Service: Resource Service (on page 845)

Style: Document/literal wrapped

Input:

Message: UpdateResources Elements: Resource elements that contain *Resource Fields* (on page 850) fields. Required fields: The ObjectId must be specified.

Output:

Message: UpdateResourcesResponse Output: boolean

DeleteResources Operation

Description: Deletes multiple Resource objects in the database. You can delete up to 1000 Resource objects with a single call.

Service: Resource Service (on page 845)

Style: Document/literal wrapped

Input:

Message: DeleteResources Elements: One to many ObjectId DeleteWithReplacements

Output:

Message: DeleteResourcesResponse Output: boolean

GetFieldLengthResource Operation

Description: Returns length of variable character fields for a BO.

Service: Resource Service (on page 845)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthResource Elements: FieldLength

Output:

Message: GetFieldLengthResourceResponse

Elements: One to many FieldLengthResources.

ReadResourcePath Operation

Description: Reads Resource objects from the database.

Service: Resource Service (on page 845)

Style: Document/literal wrapped

Input:

Message: ReadResourcePath Elements:

- One to many ObjectId elements
- One to many field names from the *Resource Fields* (on page 850) field list.

Output:

Message: ReadResourcePathResponse

Output: Zero to many Resource elements that contain Resource fields.

LoadActivities Operation

Description: Loads activities assigned to the specified resource.

Service: Resource Service (on page 845)

Input:

Message: LoadActivities

Elements:

Name	Туре	Description	Required
ObjectId	int	Unique identifier for the resource.	Yes
Fields	string	One or more <i>Resource</i> <i>Fields</i> (on page 850) from the resource fields list.	Yes
WhereClause	string	Optional clause used to filter results.	No

OrderBy	string	Optional clause used to specify the order in which results are returned.	No
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Output:

Message: LoadActivitiesResponse Elements:

Name	Туре	Description
ActivityObjectIds	string	Unique identifiers for the activities returned on operation success.

Resource Fields

Field	Туре	Read Only	Filterable Orderable	Description
AutoCompute Actuals	boolean		X	The flag that identifies whether the activity actual and remaining units, start dates and finish dates for the resource are computed automaticall y using the planned dates, planned units and the activity's schedule percent complete. If

				this option is selected, the actual/rema ining units and actual dates are automaticall y updated when project actuals are applied. This assumes that all work by the resource proceeds according
CalculateCost FromUnits	boolean		X	to plan. the option to indicate that any new assignment s for this resource will have its costs recalculate d whenever any quantity changes occur.
CalendarNam e	string restricted to maxLength(255)	x	x	The name of the calendar.
CalendarObje ctId	int		X	The unique ID of the calendar assigned to the resource. Resource calendars

				can be assigned from the global calendar pool or the resource calendar pool.
CreateDate	dateTime	x	x	The date this resource was created.
CreateUser	string restricted to maxLength(255)	x	x	The name of the user that created this resource.
Currencyld	string restricted to maxLength(6)	x	x	The unique currency abbreviatio n for the currency associated with this resource.
CurrencyNam e	string restricted to maxLength(40)	x	x	The name of the currency associated with this resource.
CurrencyObje ctId	int		x	The unique ID of the currency associated with this resource.
DefaultUnitsP erTime	double restricted to minInclusive(0.0)		x	The default units/time setting, which determines the value of

				the remaining units/time and planned units/time when a resource assignment is added.
EffectiveDate	dateTime	x		the earliest day when the resource becomes overallocat ed, calculated during the summarizat ion.
EmailAddress	string restricted to maxLength(255)		x	The e-mail address for the resource.
EmployeeId	string restricted to maxLength(40)		x	The resource identifier within the organizatio n, typically the employee number or social security number.
GUID	string restricted to pattern '\{[0-9a-fA-F]{8}-[0-9a-fA-F]{ 4}-[0-9a-fA-F]{4}-[0-9a-fA-F] {4}-[0-9a-fA-F]{12}\} '		x	The globally unique ID generated by the system.
Id	string		Х	The short code that

	restricted to maxLength(255)		uniquely identifies the resource.
IntegratedTyp	string restricted to " 'ERP' 'Fusion' 'Gateway' 'PrimaveraCloudScope'	X	The flag indicating whether the resource is integrated with an Enterprise Resource Planning (ERP) system. 'Fusion' indicates the resource is integrated with Oracle Fusion. 'ERP' indicates the resource is integrated with another ERP system. 'Gateway' indicates the resource is integrated with
IsActive	boolean	X	The flag that indicates whether the resource is currently active. Non-active resources

				may have left the organizatio n but are not deleted from the system since they may have actual hours.
IsOverTimeAll owed	boolean		X	The flag that indicates whether the resource is allowed to log overtime hours.
LastUpdateD ate	dateTime	x	x	The date this resource was last updated.
LastUpdateU ser	string restricted to maxLength(255)	x	x	The name of the user that last updated this resource.
LocationNam e	string restricted to maxLength(100)	x	x	The name of the location assigned to the resource.
LocationObje ctId	int		x	The unique ID of the location assigned to the resource.
MaxUnitsPer Time	double	x		The maximum

			work units per time this resource can perform on all their assigned activities. For example, a person working full time could perform 8 hours of work per day. A department of five
			people may perform at 5 days per day.
Name	string restricted to maxLength(255)	х	The name of the resource.
ObjectId	int	x	The unique ID generated by the system.
OfficePhone	string restricted to maxLength(32)	x	The office phone number for the resource.
OtherPhone	string restricted to maxLength(32)	X	The other phone numbers for the resource - pager, home phone, cell phone, etc.

OvertimeFact or	double restricted to minInclusive(0.0) maxInclusive(10.0)		x	The overtime factor used to compute the overtime price for the resource.
ParentObjectI d	int		x	The unique ID of the parent resource of this resource in the hierarchy.
PricePerUnit	double	X		the planned price per unit for the project expense. This number is multiplied by the planned number of units to compute the planned cost.
PrimaryRolel d	string restricted to maxLength(40)	x	x	The short code that uniquely identifies the primary role for this resource.
PrimaryRoleN ame	string restricted to maxLength(100)	x	x	The name of the primary role for this resource
PrimaryRoleO bjectId	int		x	The unique ID of the role that is

				assigned as the resource's primary role.
ResourceNot es	string			The notes about the resource.
ResourceTyp e	string restricted to 'Labor' 'Nonlabor' 'Material'		x	The resource type: "Labor", "Nonlabor", or "Material".
SequenceNu mber	int		x	The sequence number for sorting.
ShiftObjectId	int		x	The unique ID of the shift associated with the resource.
TimesheetAp provalManag er	string	x		The resource manager assigned to approve timesheets for the resource.
TimesheetAp provalManag erObjectId	int		Х	The unique ID of the resource manager assigned to approve timesheets for the resource.
Title	string restricted to		x	The title of the

	maxLength(100)			resource.
UnitOfMeasur eAbbreviation	string restricted to maxLength(16)	x	x	The abbreviatio n of the unit of measure.
UnitOfMeasur eName	string restricted to maxLength(100)	x	x	The name of the unit of measure.
UnitOfMeasur eObjectId	int		x	The unit of measure this material resource uses.
UseTimeshee ts	boolean	x	x	The flag that indicates whether the resource uses timesheets.
UserName	string restricted to maxLength(255)	x	x	The user's login name.
UserObjectId	int		x	The unique ID of the associated user.

ResourceCodeAssignment Service

Operations:

CreateResourceCodeAssignments Operation (on page 860) ReadResourceCodeAssignments Operation (on page 860) UpdateResourceCodeAssignments Operation (on page 861) DeleteResourceCodeAssignments Operation (on page 861) GetFieldLengthResourceCodeAssignment Operation (on page 862)

WSDL: ResourceCodeAssignment.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/ResourceCodeAssignment/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/ResourceCodeAssignmentService?wsdl https://<hostname>:<port number>/p6ws/services/ResourceCodeAssignmentService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.resourcecodeassignment.ResourceCodeAssignmentService

Description:

A resource code assignment business object represents the assignment of a resource code to a resource. For each resource code type, a resource may have zero or one resource codes assigned.

Note that this business object has a multi-part object ID; its object ID is a combination of its resource object ID and its resource code object ID.

CreateResourceCodeAssignments Operation

Description: Creates multiple ResourceCodeAssignment objects in the database. You can create up to 1000 ResourceCodeAssignment objects with a single call.

Service: ResourceCodeAssignment Service (on page 859)

```
Style: Document/literal wrapped
```

Input:

Message: CreateResourceCodeAssignments

Elements: ResourceCodeAssignment elements that contain *ResourceCodeAssignment Fields* (on page 862) fields

Required fields:

- ResourceObjectId
- ResourceCodeObjectId

Output:

Message: CreateResourceCodeAssignmentsResponse Output: Zero to many ObjectId elements

ReadResourceCodeAssignments Operation

Description: Reads ResourceCodeAssignment objects from the database.

Service: ResourceCodeAssignment Service (on page 859)

Style: Document/literal wrapped

Input:

Message: ReadResourceCodeAssignments

Elements: One to many field names from the *ResourceCodeAssignment Fields* (on page 862) field list

You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadResourceCodeAssignmentsResponse

Output: Zero to many ResourceCodeAssignment elements that contain ResourceCodeAssignment fields.

UpdateResourceCodeAssignments Operation

Description: Updates multiple ResourceCodeAssignment objects in the database. You can update up to 1000 ResourceCodeAssignment objects with a single call.

Service: ResourceCodeAssignment Service (on page 859)

Style: Document/literal wrapped

Input:

Message: UpdateResourceCodeAssignments

Elements: ResourceCodeAssignment elements that contain *ResourceCodeAssignment Fields* (on page 862) fields.

Required fields: The ObjectId must be specified.

Output:

Message: UpdateResourceCodeAssignmentsResponse Output: boolean

DeleteResourceCodeAssignments Operation

Description: Deletes multiple ResourceCodeAssignment objects in the database. You can delete up to 1000 ResourceCodeAssignment objects with a single call.

Service: ResourceCodeAssignment Service (on page 859)

Style: Document/literal wrapped

Input:

Message: DeleteResourceCodeAssignments

Elements: One to many ObjectId elements

Output:

Message: DeleteResourceCodeAssignmentsResponse Output: boolean

GetFieldLengthResourceCodeAssignment Operation

Description: Returns length of variable character fields for a BO.

Service: ResourceCodeAssignment Service (on page 859)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthResourceAssignment Elements: FieldLength

Output:

Message: GetFieldLengthResourceCodeAssignmentResponse Elements: One to many FieldLengthResourceCodeAssignments.

ResourceCodeAssignment Fields

Field	Туре	Read Only	Filterable Orderable	Description
CreateDate	dateTime	х	x	The date this code assignment was created.
CreateUser	string restricted to maxLength(2 55)	x	x	The name of the user that created this code assignment.
LastUpdateD ate	dateTime	x	x	The date this code assignment was last updated.
LastUpdateUs er	string restricted to maxLength(2 55)	x	x	The name of the user that last updated this code assignment.
ResourceCod eDescription	string restricted to maxLength(1 00)	x	x	The description of the associated resource code.
ResourceCod eObjectId	int		x	The unique ID of the associated resource code.
ResourceCod	string	Х	x	The name of the

eTypeName	restricted to maxLength(4 0)			parent resource code type.
ResourceCod eTypeObjectI d	int	x	x	The unique ID of the parent resource code type.
ResourceCod eValue	string restricted to maxLength(4 0)	x	x	The value of the associated resource code.
Resourceld	string restricted to maxLength(2 0)	x	x	The short code that uniquely identifies the associated resource.
ResourceNa me	string restricted to maxLength(1 00)	x	x	The name of the resource to which the resource code is assigned.
ResourceObj ectId	int		x	The unique ID of the resource to which the resource code is assigned.

RoleCodeAssignment Service

Operations:

CreateRoleCodeAssignments Operation (on page 864) ReadRoleCodeAssignments Operation (on page 864) UpdateRoleCodeAssignments Operation (on page 865) DeleteRoleCodeAssignments Operation (on page 865) GetFieldLengthRoleCodeAssignment Operation (on page 866)

WSDL: RoleCodeAssignment.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/RoleCodeAssignment/V1 Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/RoleCodeAssignmentService?wsdl

https://<hostname>:<port number>/p6ws/services/RoleCodeAssignmentService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.rolecodeassignment.RoleCodeAssignmentService

Description:

A role code assignment business object represents the assignment of a role code to a role. For each role code type, a role may have zero or one role codes assigned.

Note that this business object has a multi-part object ID; its object ID is a combination of its role object ID and its role code object ID.

CreateRoleCodeAssignments Operation

Description: Creates multiple RoleCodeAssignment objects in the database. You can create up to 1000 RoleCodeAssignment objects with a single call.

Service: RoleCodeAssignment Service (on page 863)

Style: Document/literal wrapped

Input:

Message: CreateRoleCodeAssignments

Elements: RoleCodeAssignment elements that contain *RoleCodeAssignment Fields* (on page 866) fields

Required fields:

- RoleObjectId
- RoleCodeObjectId

Output:

Message: CreateRoleCodeAssignmentsResponse Output: Zero to many ObjectId elements

ReadRoleCodeAssignments Operation

Description: Reads RoleCodeAssignment objects from the database.

Service: RoleCodeAssignment Service (on page 863)

Style: Document/literal wrapped

Input:

Message: ReadRoleCodeAssignments Elements: One to many field names from the *RoleCodeAssignment Fields* (on page 866) field list You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadRoleCodeAssignmentsResponse

Output: Zero to many RoleCodeAssignment elements that contain RoleCodeAssignment fields.

UpdateRoleCodeAssignments Operation

Description: Updates multiple RoleCodeAssignment objects in the database. You can update up to 1000 RoleCodeAssignment objects with a single call.

Service: RoleCodeAssignment Service (on page 863)

Style: Document/literal wrapped

Input:

Message: UpdateRoleCodeAssignments

Elements: RoleCodeAssignment elements that contain *RoleCodeAssignment Fields* (on page 866) fields.

Required fields: The ObjectId must be specified.

Output:

Message: UpdateRoleCodeAssignmentsResponse Output: boolean

DeleteRoleCodeAssignments Operation

Description: Deletes multiple RoleCodeAssignment objects in the database. You can delete up to 1000 RoleCodeAssignment objects with a single call.

Service: RoleCodeAssignment Service (on page 863)

Style: Document/literal wrapped

Input:

Message: DeleteRoleCodeAssignments

Elements: One to many ObjectId elements

Output:

Message: DeleteRoleCodeAssignmentsResponse Output: boolean

GetFieldLengthRoleCodeAssignment Operation

Description: Returns length of variable character fields for a BO.

Service: RoleCodeAssignment Service (on page 863)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthRoleAssignment Elements: FieldLength

Output:

Message: GetFieldLengthRoleCodeAssignmentResponse Elements: One to many FieldLengthRoleCodeAssignments.

RoleCodeAssignment Fields

	1			
Field	Туре	Read Only	Filterable Orderable	Description
CreateDate	dateTime	х	х	The date this code assignment was created.
CreateUser	string restricted to maxLength(2 55)	x	х	The name of the user that created this code assignment.
LastUpdateD ate	dateTime	x	x	The date this code assignment was last updated.
LastUpdateUs er	string restricted to maxLength(2 55)	x	x	The name of the user that last updated this code assignment.
RoleCodeDes cription	string restricted to maxLength(1 00)	x	x	The description of the associated role code.
RoleCodeObj ectId	int		x	The unique ID of the associated role code.
RoleCodeTyp	string	Х	X	The name of the

eName	restricted to maxLength(4 0)			parent role code type.
RoleCodeTyp eObjectId	int	x	x	The unique ID of the parent role code type.
RoleCodeVal ue	string restricted to maxLength(4 0)	x	x	The value of the associated role code.
RoleId	string restricted to maxLength(2 0)	x	x	The short code that uniquely identifies the associated role.
RoleName	string restricted to maxLength(1 00)	x	x	The name of the role to which the role code is assigned.
RoleObjectId	int		x	The unique ID of the role to which the role code is assigned.

ResourceCurve Service

Operations:

CreateResourceCurves Operation (on page 868) ReadResourceCurves Operation (on page 868) UpdateResourceCurves Operation (on page 869) DeleteResourceCurves Operation (on page 869) GetFieldLengthResourceCurve Operation (on page 870)

WSDL: ResourceCurve.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/ResourceCurve/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/ResourceCurveService?wsdl https://<hostname>:<port number>/p6ws/services/ResourceCurveService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.resourcecurve.ResourceCurveService

Description:

Resource curves enable you to specify how you want resource units or costs spread over the duration of an activity. Resource units and costs are distributed evenly during an activity unless you specify nonlinear distribution using curves.

You can assign a resource curve to any resource or role assignment on activities with a duration type of Fixed Duration and Units/Time or Fixed Duration and Units.

If timesheet data exists for the actuals, curves are ignored for the actuals and are spread using the timesheet data. Activities with timesheet data continue to spread the remaining units using the curve.

In order to use curves to calculate the Actual Units/Cost and EV Units/Costs, the new project setting that uses duration percent complete to calculate actuals should be marked.

Notes

- Resource curves do not support expenses. The Accrual Type will continue to spread the expenses.
- Resource lag is taken into consideration. The curve should begin on the "lagged start date."
- Resource curves are reflected in the Resource Usage Profile and Resource Usage Spreadsheet in the Project Management application.

CreateResourceCurves Operation

Description: Creates multiple ResourceCurve objects in the database. You can create up to 1000 ResourceCurve objects with a single call.

Service: ResourceCurve Service (on page 867)

Style: Document/literal wrapped

Input:

Message: CreateResourceCurves

Elements: ResourceCurve elements that contain *ResourceCurve Fields* (on page 870) fields

Required fields: You must supply the Name field.

Output:

Message: CreateResourceCurvesResponse Output: Zero to many ObjectId elements

ReadResourceCurves Operation

Description: Reads ResourceCurve objects from the database.

Service: ResourceCurve Service (on page 867)

Style: Document/literal wrapped

Input:

Message: ReadResourceCurves

Elements: One to many field names from the ResourceCurve Fields (on page 870) field list

You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadResourceCurvesResponse

Output: Zero to many ResourceCurve elements that contain ResourceCurve fields.

UpdateResourceCurves Operation

Description: Updates multiple ResourceCurve objects in the database. You can update up to 1000 ResourceCurve objects with a single call.

Service: ResourceCurve Service (on page 867)

Style: Document/literal wrapped

Input:

Message: UpdateResourceCurves

Elements: ResourceCurve elements that contain *ResourceCurve Fields* (on page 870) fields.

Required fields: The ObjectId must be specified.

Output:

Message: UpdateResourceCurvesResponse Output: boolean

DeleteResourceCurves Operation

Description: Deletes multiple ResourceCurve objects in the database. You can delete up to 1000 ResourceCurve objects with a single call.

Service: ResourceCurve Service (on page 867)

Style: Document/literal wrapped

Input:

Message: DeleteResourceCurves Elements: One to many ObjectId elements

Output:

Message: DeleteResourceCurvesResponse Output: boolean

GetFieldLengthResourceCurve Operation

Description: Returns length of variable character fields for a BO.

Service: ResourceCurve Service (on page 867)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthResourceCurve Elements: FieldLength

Output:

Message: GetFieldLengthResourceCurveResponse Elements: One to many FieldLengthResourceCurves.

ResourceCurve Fields

Field	Туре	Read Only	Filterable Orderable	Description
CreateDate	dateTime	x	x	The date this resource curve was created.
CreateUser	string	x	х	The name of the user that created this resource curve.
IsDefault	boolean	x	x	The flag that identifies the default curve. The default curve can not be edited.
LastUpdate Date	dateTime	x	x	The date this resource curve was last updated.
LastUpdate User	string	x	x	The name of the user that last updated this resource curve.
Name	string restricted to maxLength(6		x	The name of the resource curve.

	0)		
ObjectId	int	x	The unique ID generated by the system.
Values	ValuesType See ValuesType table below.		See Values Table below.

ValuesType Table

Field	Туре
Value0	double restricted to minInclusive(0.0) maxInclusive(100.0)
Value5	double restricted to minInclusive(0.0) maxInclusive(100.0)
Value10	double restricted to minInclusive(0.0) maxInclusive(100.0)
Value15	double restricted to minInclusive(0.0) maxInclusive(100.0)
Value20	double restricted to minInclusive(0.0) maxInclusive(100.0)
Value25	double restricted to minInclusive(0.0) maxInclusive(100.0)
Value30	double restricted to minInclusive(0.0)

	maxInclusive(100.0)
Value35	double restricted to minInclusive(0.0) maxInclusive(100.0)
Value40	double restricted to minInclusive(0.0) maxInclusive(100.0)
Value45	double restricted to minInclusive(0.0) maxInclusive(100.0)
Value50	double restricted to minInclusive(0.0) maxInclusive(100.0)
Value55	double restricted to minInclusive(0.0) maxInclusive(100.0)
Value60	double restricted to minInclusive(0.0) maxInclusive(100.0)
Value65	double restricted to minInclusive(0.0) maxInclusive(100.0)
Value70	double restricted to minInclusive(0.0) maxInclusive(100.0)
Value75	double restricted to minInclusive(0.0) maxInclusive(100.0)
Value80	double restricted to minInclusive(0.0) maxInclusive(100.0)
Value85	double restricted to

	minInclusive(0.0) maxInclusive(100.0)
Value90	double restricted to minInclusive(0.0) maxInclusive(100.0)
Value95	double restricted to minInclusive(0.0) maxInclusive(100.0)
Value100	double restricted to minInclusive(0.0) maxInclusive(100.0)

ResourceRate Service

Operations:

CreateResourceRates Operation (on page 874) ReadResourceRates Operation (on page 874) UpdateResourceRates Operation (on page 874) DeleteResourceRates Operation (on page 875) GetFieldLengthResourceRate Operation (on page 875)

WSDL: ResourceRate.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/ResourceRate/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/ResourceRateService?wsdl https://<hostname>:<port number>/p6ws/services/ResourceRateService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.resourcerate.ResourceRateService

Description:

Resource rates provide a way of specifying multiple resource prices and maximum units per time values that vary over time.

CreateResourceRates Operation

Description: Creates multiple ResourceRate objects in the database. You can create up to 1000 ResourceRate objects with a single call.

Service: ResourceRate Service (on page 873)

Style: Document/literal wrapped

Input:

Message: CreateResourceRates

Elements: ResourceRate elements that contain ResourceRate Fields (on page 876) fields

Required fields: The following fields are required when creating the ResourceRate object:

- ResourceObjectId
- EffectiveDate

Output:

Message: CreateResourceRatesResponse Output: Zero to many ObjectId elements

ReadResourceRates Operation

Description: Reads ResourceRate objects from the database.

Service: ResourceRate Service (on page 873)

Style: Document/literal wrapped

Input:

Message: ReadResourceRates

Elements: One to many field names from the **ResourceRate Fields** (on page 876) field list You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadResourceRatesResponse

Output: Zero to many ResourceRate elements that contain ResourceRate fields.

UpdateResourceRates Operation

Description: Updates multiple ResourceRate objects in the database. You can update up to 1000 ResourceRate objects with a single call.

Service: ResourceRate Service (on page 873)

Style: Document/literal wrapped

Input:

Message: UpdateResourceRates

Elements: ResourceRate elements that contain *ResourceRate Fields* (on page 876) fields. Required fields: The ObjectId must be specified.

Output:

Message: UpdateResourceRatesResponse Output: boolean

DeleteResourceRates Operation

Description: Deletes multiple ResourceRate objects in the database. You can delete up to 1000 ResourceRate objects with a single call.

Service: ResourceRate Service (on page 873)

Style: Document/literal wrapped

Input:

Message: DeleteResourceRates Elements: One to many ObjectId elements

Output:

Message: DeleteResourceRatesResponse Output: boolean

GetFieldLengthResourceRate Operation

Description: Returns length of variable character fields for a BO.

Service: ResourceRate Service (on page 873)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthResourceRate Elements: FieldLength

Output:

Message: GetFieldLengthResourceRateResponse Elements: One to many FieldLengthResourceRates.

ResourceRate Fields

The lat	Trans	Read	Filterable	Description
Field CreateDate	Type dateTime	Only X	Orderable X	DescriptionThe date thisresource rate wascreated.
CreateUser	string restricted to maxLength(255)	x	x	The name of the user that created this resource rate.
EffectiveDa te	dateTime		x	The effective date for the resource price and maximum units per time.
LastUpdate Date	dateTime	x	x	The date this resource rate was last updated.
LastUpdate User	string restricted to maxLength(255)	x	x	The name of the user that last updated this resource rate.
MaxUnitsP erTime	double restricted to minInclusive(0.0)		X	The maximum work units per time this resource can perform on all their assigned activities. For example, a person working full time could perform 8 hours of work per day. A department of five people may perform at 5 days per day.
ObjectId	int		x	The unique ID generated by the system.
PricePerUn it	double restricted to minInclusive(0.0)		x	The non-overtime price per time for the resource. This

	maxInclusive(9.9 999999999999999 12)		price is used to compute costs for any activities the resource is assigned to. In general, cost = units * price per time.
PricePerUn it2	double restricted to minInclusive(0.0) maxInclusive(9.9 9999999999999999 12)	X	The non-overtime price per time for the resource. This price is used to compute costs for any activities the resource is assigned to. In general, cost = units * price per time.
PricePerUn it3	double restricted to minInclusive(0.0) maxInclusive(9.9 9999999999999999 12)	x	The non-overtime price per time for the resource. This price is used to compute costs for any activities the resource is assigned to. In general, cost = units * price per time.
PricePerUn it4	double restricted to minInclusive(0.0) maxInclusive(9.9 9999999999999999 12)	x	The non-overtime price per time for the resource. This price is used to compute costs for any activities the resource is assigned to. In general, cost = units * price per time.
PricePerUn it5	double restricted to minInclusive(0.0) maxInclusive(9.9 999999999999999	x	The non-overtime price per time for the resource. This price is used to compute costs for any activities the

	12)			resource is assigned to. In general, cost = units * price per time.
Resourceld	string restricted to maxLength(20)	x	x	The short code that uniquely identifies the resource.
ResourceN ame	string restricted to maxLength(100)	x	x	The name of the resource.
ResourceO bjectId	int		x	The unique ID of the associated resource.
ShiftPeriod ObjectId	int		x	The unique ID of the associated shift.

ResourceRole Service

Operations:

CreateResourceRoles Operation (on page 879) ReadResourceRoles Operation (on page 879) UpdateResourceRoles Operation (on page 880) DeleteResourceRoles Operation (on page 880) GetFieldLengthResourceRole Operation (on page 880)

WSDL: ResourceRole.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/ResourceRole/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/ResourceRoleService?wsdl https://<hostname>:<port number>/p6ws/services/ResourceRoleService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.resourcerole.ResourceRoleService

Description:

A resource role object represents an association between a resource object and a role object. A proficiency may be assigned to a resource role.

Note that this business object has a multi-part object ID; its object ID is a combination of its resource object ID and its role object ID.

CreateResourceRoles Operation

Description: Creates multiple ResourceRole objects in the database. You can create up to 1000 ResourceRole objects with a single call.

Service: ResourceRole Service (on page 878)

Style: Document/literal wrapped

Input:

Message: CreateResourceRoles

Elements: ResourceRole elements that contain *ResourceRole Fields* (on page 881) fields Required fields:

ResourceObjectId

RoleObjectId

Output:

Message: CreateResourceRolesResponse Output: Zero to many ObjectId elements

ReadResourceRoles Operation

Description: Reads ResourceRole objects from the database.

Service: ResourceRole Service (on page 878)

Style: Document/literal wrapped

Input:

Message: ReadResourceRoles

Elements: One to many field names from the **ResourceRole Fields** (on page 881) field list You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadResourceRolesResponse Output: Zero to many ResourceRole elements that contain ResourceRole fields.

UpdateResourceRoles Operation

Description: Updates multiple ResourceRole objects in the database. You can update up to 1000 ResourceRole objects with a single call.

Service: ResourceRole Service (on page 878)

Style: Document/literal wrapped

Input:

Message: UpdateResourceRoles

Elements: ResourceRole elements that contain *ResourceRole Fields* (on page 881) fields. Required fields: The ObjectId must be specified.

Output:

Message: UpdateResourceRolesResponse Output: boolean

DeleteResourceRoles Operation

Description: Deletes multiple ResourceRole objects in the database. You can delete up to 1000 ResourceRole objects with a single call.

Service: ResourceRole Service (on page 878)

Style: Document/literal wrapped

Input:

Message: DeleteResourceRoles Elements: One to many ObjectId elements

Output:

Message: DeleteResourceRolesResponse Output: boolean

GetFieldLengthResourceRole Operation

Description: Returns length of variable character fields for a BO.

Service: ResourceRole Service (on page 878)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthResourceRole Elements: FieldLength

Output:

Message: GetFieldLengthResourceRoleResponse

Elements: One to many FieldLengthResourceRoles.

ResourceRole Fields

Field	Туре	Read Only	Filterable Orderable	Description
CreateDate	dateTime	x	x	The date this resource role was created.
CreateUser	string restricted to maxLength(2 55)	x	x	The name of the user that created this resource role.
LastUpdate Date	dateTime	x	x	The date this resource role was last updated.
LastUpdate User	string restricted to maxLength(2 55)	x	x	The name of the user that last updated this resource role.
Proficiency	string restricted to '1 - Master' '2 - Expert' '3 - Skilled' '4 - Proficient' '5 - Inexperience d'			The resource's proficiency at performing this role. The values are '1 - Master', '2 - Expert', '3 - Skilled', '4 - Proficient', and '5 - Inexperienced'. If the current user does not have the ViewResourceRole Proficiency global security privilege, this field may not be accessed.
Resourceld	string restricted to maxLength(4 0)	x	x	The short code that uniquely identifies the resource.
ResourceN ame	string restricted to maxLength(1	x	x	The name of the resource.

	00)			
ResourceO bjectld	int		x	The unique ID of the associated resource.
RoleId	string restricted to maxLength(4 0)	x	x	The short code that uniquely identifies the role.
RoleName	string restricted to maxLength(1 00)	x	x	The name of the role. The role name uniquely identifies the role.
RoleObjectI d	int		x	The unique ID of the associated role.

ResourceTeam Service

Operations:

CreateResourceTeams Operation (on page 883) ReadResourceTeams Operation (on page 883) UpdateResourceTeams Operation (on page 884) DeleteResourceTeams Operation (on page 884) GetFieldLengthResourceTeam Operation (on page 884) AddResources Operation (on page 885) GetResourceObjectIds Operation (on page 885) RemoveResources Operation (on page 885) ContainsResource Operation (on page 886)

WSDL: ResourceTeam.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/ResourceTeam/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/ResourceTeamService?wsdl https://<hostname>:<port number>/p6ws/services/ResourceTeamService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.resourceteam.ResourceTeamService

Description:

A resource team consists of resources grouped together in some way that is meaningful to you.

CreateResourceTeams Operation

Description: Creates multiple ResourceTeam objects in the database. You can create up to 1000 ResourceTeam objects with a single call.

Service: ResourceTeam Service (on page 882)

Style: Document/literal wrapped

Input:

Message: CreateResourceTeams

Elements: ResourceTeam elements that contain ResourceTeam Fields (on page 886) fields

Required fields: You must supply the Name field.

Output:

Message: CreateResourceTeamsResponse

Output: Zero to many ObjectId elements

ReadResourceTeams Operation

Description: Reads ResourceTeam objects from the database.

Service: ResourceTeam Service (on page 882)

Style: Document/literal wrapped

Input:

Message: ReadResourceTeams

Elements: One to many field names from the ResourceTeam Fields (on page 886) field list

You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadResourceTeamsResponse

Output: Zero to many ResourceTeam elements that contain ResourceTeam fields.

UpdateResourceTeams Operation

Description: Updates multiple ResourceTeam objects in the database. You can update up to 1000 ResourceTeam objects with a single call.

Service: ResourceTeam Service (on page 882)

Style: Document/literal wrapped

Input:

Message: UpdateResourceTeams

Elements: ResourceTeam elements that contain *ResourceTeam Fields* (on page 886) fields.

Required fields: The ObjectId must be specified.

Output:

Message: UpdateResourceTeamsResponse Output: boolean

DeleteResourceTeams Operation

Description: Deletes multiple ResourceTeam objects in the database. You can delete up to 1000 ResourceTeam objects with a single call.

Service: ResourceTeam Service (on page 882)

Style: Document/literal wrapped

Input:

Message: DeleteResourceTeams

Elements: One to many ObjectId elements

Output:

Message: DeleteResourceTeamsResponse Output: boolean

GetFieldLengthResourceTeam Operation

Description: Returns length of variable character fields for a BO.

Service: ResourceTeam Service (on page 882)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthResourceTeam Elements: FieldLength

Output:

Message: GetFieldLengthResourceTeamResponse Elements: One to many FieldLengthResourceTeams.

AddResources Operation

Description: Adds resources to resource teams.

Service: ResourceTeam Service (on page 882)

Style: Document/literal wrapped

Input:

Message: AddResources Elements:

- ObjectIds
- ResourceObjectIds

Output:

Message: AddResourcesResponse Element: Sucess

GetResourceObjectIds Operation

Description: Gets an array of unique resource IDs that are contained in resource teams.

Service: ResourceTeam Service (on page 882)

Style: Document/literal wrapped

Input:

Message: GetResourceObjectIds Element: ObjectId

Output:

Message: GetResourceObjectIdsResponse Element: One to many ResourceObjectIds.

RemoveResources Operation

Description: Removes resources from a resource team.

Service: ResourceTeam Service (on page 882)

Style: Document/literal wrapped

Input:

Message: RemoveResources Elements:

- ObjectId
- ResourceObjectIds

Output:

Message: RemoveResourcesResponse" Element: Success

ContainsResource Operation

Description: Returns a boolean for whether or not a resource team contains a specified resource.

Service: ResourceTeam Service (on page 882)

Style: Document/literal wrapped

Input:

Message: ContainsResource

Elements:

- ObjectId
- ResourceObjectId

Output:

Message: ContainsResourceResponse Element: Success

ResourceTeam Fields

Field	Туре	Read Only	Filterable Orderable	Description
CreateDate	dateTime	х	х	The date this resource team was created.
CreateUser	string restricted to maxLength(2 55)	x	x	The name of the user that created this resource team.
Description	string restricted to maxLength(2 55)		x	The description of the resource team.
LastUpdate Date	dateTime	x	x	The date this resource team was last updated.

LastUpdate User	string restricted to maxLength(2 55)	x	x	The name of the user that last updated this resource team.
MemberRes ource	MemberReso urceType See MemberReso urceType table below.			
Name	string restricted to maxLength(4 0)		x	The name of the resource team.
ObjectId	int		x	The unique ID generated by the system.
UserName	string restricted to maxLength(2 55)	x	x	The user's login name.
UserObjectI d	int		x	The unique ID of the associated user.

MemberResourceType Table

Field	Туре
Id	string restricted to maxLength(20)
Name	string restricted to maxLength(100)

ObjectId	int

RoleRate Service

Operations:

CreateRoleRates Operation (on page 888) ReadRoleRates Operation (on page 889) UpdateRoleRates Operation (on page 889) GetFieldLengthRoleRate Operation (on page 890)

WSDL: RoleRate.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/RoleRate/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/RoleRateService?wsdl https://<hostname>:<port number>/p6ws/services/RoleRateService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.rolerate.RoleRateService

Description:

Role rates enable you to select a predefined price per unit for cost calculating when assigning the role to an activity. Roles are project personnel job titles or skills, such as mechanical engineer, inspector, or carpenter. They represent a type of resource with a certain level of proficiency rather than a specific individual. As resources, now roles can have different rates assigned to provide more flexibility for cost calculation. See also RateType, RateSource, and RateSourcePreference for more details on how rates can be used in cost calculation.

CreateRoleRates Operation

Description: Creates multiple RoleRate objects in the database. You can create up to 1000 RoleRate objects with a single call.

Service: RoleRate Service (on page 888)

Style: Document/literal wrapped

Input:

Message: CreateRoleRates

Elements: RoleRate elements that contain RoleRate Fields (on page 890) fields

Required fields: The following fields are required when creating the RoleRate object:

RoleObjectId

Output:

Message: CreateRoleRatesResponse Output: Zero to many ObjectId elements

ReadRoleRates Operation

Description: Reads RoleRate objects from the database.

Service: RoleRate Service (on page 888)

Style: Document/literal wrapped

Input:

Message: ReadRoleRates

Elements: One to many field names from the *RoleRate Fields* (on page 890) field list You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadRoleRatesResponse

Output: Zero to many RoleRate elements that contain RoleRate fields.

UpdateRoleRates Operation

Description: Updates multiple RoleRate objects in the database. You can update up to 1000 RoleRate objects with a single call.

Service: RoleRate Service (on page 888)

Style: Document/literal wrapped

Input:

Message: UpdateRoleRates

Elements: RoleRate elements that contain *RoleRate Fields* (on page 890) fields. Required fields: The ObjectId must be specified.

Output:

Message: UpdateRoleRatesResponse Output: boolean

DeleteRoleRates Operation

Description: Deletes multiple RoleRate objects in the database. You can delete up to 1000 RoleRate objects with a single call.

Service: RoleRate Service (on page 888)

Style: Document/literal wrapped

Input:

Message: DeleteRoleRates Elements: One to many ObjectId DeleteWithReplacements

Output:

Message: DeleteRolesRatesResponse Output: boolean

GetFieldLengthRoleRate Operation

Description: Returns length of variable character fields for a BO.

Service: RoleRate Service (on page 888)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthRoleRate Elements: FieldLength

Output:

Message: GetFieldLengthRoleRateResponse Elements: One to many FieldLengthRoleRates.

RoleRate Fields

Field	Туре	Read Only	Filterable Orderable	Description
CreateDate	dateTime	x	x	The date this role rate was created.
CreateUser	string restricted to maxLength(255)	x	x	The name of the user that created this role rate.
EffectiveDa te	dateTime		x	The effective date for the role price and maximum

				units per time.
LastUpdate Date	dateTime	x	х	The date this role rate was last updated.
LastUpdate User	string restricted to maxLength(255)	x	x	The name of the user that last updated this role rate.
MaxUnitsP erTime	double restricted to minInclusive(0.0)		x	The maximum work units per time this role can perform on all their assigned activities.
ObjectId	int		х	The unique ID generated by the system.
PricePerUn it	double restricted to minInclusive(0.0) maxInclusive(9.9 99999999999999999 12)		х	The non-overtime price per time for the role. This price is used to compute costs for any activities the role is assigned to. In general, cost = units * price per time.
PricePerUn it2	double restricted to minInclusive(0.0) maxInclusive(9.9 99999999999999999 12)		x	The non-overtime price per time for the role. This price is used to compute costs for any activities the role is assigned to. In general, cost = units * price per time.
PricePerUn it3	double restricted to minInclusive(0.0) maxInclusive(9.9 9999999999999999 12)		x	The non-overtime price per time for the role. This price is used to compute costs for any activities the role is assigned to. In general,

				cost = units * price per time.
PricePerUn it4	double restricted to minInclusive(0.0) maxInclusive(9.9 9999999999999999 12)		X	The non-overtime price per time for the role. This price is used to compute costs for any activities the role is assigned to. In general, cost = units * price per time.
PricePerUn it5	double restricted to minInclusive(0.0) maxInclusive(9.9 99999999999999999 12)		X	The non-overtime price per time for the role. This price is used to compute costs for any activities the role is assigned to. In general, cost = units * price per time.
RoleId	string restricted to maxLength(40)	x	x	The short code that uniquely identifies the role.
RoleName	string restricted to maxLength(100)	x	x	The name of the role. The role name uniquely identifies the role.
RoleObjectI d	int		х	The unique ID of the associated role.

Role Service

Operations:

CreateRoles Operation (on page 893) ReadRoles Operation (on page 894) UpdateRoles Operation (on page 894) DeleteRoles Operation (on page 894) GetFieldLengthRole Operation (on page 895)

ReadRolePath Operation (on page 895)

WSDL: Role.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/Role/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/RoleService?wsdl https://<hostname>:<port number>/p6ws/services/RoleService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.role.RoleService

Description:

Roles are project personnel job titles or skills, such as mechanical engineer, inspector, or carpenter. They represent a type of resource with a certain level of proficiency rather than a specific individual. Roles can also be assigned to specific resources to further identify that resource's skills. For example, a resource may have a role of a engineer and manager.

You can create a set of roles to assign to resources and activities in all projects in the enterprise. You can establish an unlimited number of roles and organize them in a hierarchy for easier management and assignment. The set of roles you assign to an activity defines the activity's skill requirements.

You can temporarily assign roles during the planning stages of the project to see how certain resources affect the schedule. Once you finalize your plans, you can replace the roles with resources that fulfill the role skill levels. Five proficiency levels can be assigned to roles: Master, Expert, Skilled, Proficient and Inexperienced.

Roles are hierarchical objects.

CreateRoles Operation

Description: Creates multiple Role objects in the database. You can create up to 1000 Role objects with a single call.

Service: Role Service (on page 892)

Style: Document/literal wrapped

Input:

Message: CreateRoles

Elements: Role elements that contain Role Fields (on page 896) fields

Required fields:

- Id
- Name

Output:

Message: CreateRolesResponse Output: Zero to many ObjectId elements

ReadRoles Operation

Description: Reads Role objects from the database.

Service: Role Service (on page 892)

Style: Document/literal wrapped

Input:

Message: ReadRoles

Elements: One to many field names from the **Role Fields** (on page 896) field list You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadRolesResponse

Output: Zero to many Role elements that contain Role fields.

UpdateRoles Operation

Description: Updates multiple Role objects in the database. You can update up to 1000 Role objects with a single call.

Service: Role Service (on page 892)

Style: Document/literal wrapped

Input:

Message: UpdateRoles Elements: Role elements that contain *Role Fields* (on page 896) fields. Required fields: The ObjectId must be specified.

Output:

Message: UpdateRolesResponse Output: boolean

DeleteRoles Operation

Description: Deletes multiple Role objects in the database. You can delete up to 1000 Role objects with a single call.

Service: Role Service (on page 892)

Style: Document/literal wrapped

Input:

Message: DeleteRoles Elements: One to many ObjectId DeleteWithReplacements

Output:

Message: DeleteRolesResponse Output: boolean

GetFieldLengthRole Operation

Description: Returns length of variable character fields for a BO.

Service: Role Service (on page 892)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthRole Elements: FieldLength

Output:

Message: GetFieldLengthRoleResponse Elements: One to many FieldLengthRoleRates.

ReadRolePath Operation

Description: Reads Role objects from the database.

Service: Role Service (on page 892)

Style: Document/literal wrapped

Input:

Message: ReadRolePath Elements:

- One to many ObjectId elements
- One to many field names from the *Role Fields* (on page 896) field list.

Output:

Message: ReadRolePathResponse

Output: Zero to many Role elements that contain Role fields.

Role Fields

	-	Read	Filterable	
Field CalculateCo stFromUnits	Type boolean	Only	Orderable X	Description The option that indicates whether costs and quantities are linked, and whether quantities should be updated when costs are updated.
CreateDate	dateTime	x	x	The date this role was created.
CreateUser	string restricted to maxLength(2 55)	x	x	The name of the user that created this role.
ld	string restricted to maxLength(4 0)		x	The short code that uniquely identifies the role.
LastUpdate Date	dateTime	x	x	The date this role was last updated.
LastUpdate User	string restricted to maxLength(2 55)	x	x	The name of the user that last updated this role.
Name	string restricted to maxLength(1 00)		x	The name of the role. The role name uniquely identifies the role.
ObjectId	int		x	The unique ID generated by the system.
ParentObjec tId	int		x	The unique ID of the parent role of this role in the hierarchy.

Responsibili ties	string		The responsibilities for the role.
SequenceN umber	int	x	The sequence number for sorting.

Shift Service

Operations:

CreateShifts Operation (on page 898) ReadShifts Operation (on page 898) UpdateShifts Operation (on page 899) DeleteShifts Operation (on page 899) GetFieldLengthShift Operation (on page 899) AddShiftPeriod Operation (on page 900) RemoveShiftPeriodS Operation (on page 900) GetShiftPeriodDurations Operation (on page 901)

WSDL: Shift.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/Shift/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/ShiftService?wsdl https://<hostname>:<port number>/p6ws/services/ShiftService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.shift.ShiftService

Description:

Shifts are used to define shift calendars for resources. A shift is comprised of one or more shift periods. The total duration of all shift periods in a shift always adds up to 24 hours, with one hour being the minimum shift period.

Shift hours are considered when calculating units and prices during leveling. The resource calendar is used to determine when the resource can work; the limits for that period are determined from the shift definition for that resource. The minimum resource availability for every shift must satisfy the minimum demand for the resource so that the resource can be leveled properly. Limits defined outside the boundaries of the shift definition are ignored. Since shifts are defined at the resource level, all projects are leveled using that resource according to the shift definition.

CreateShifts Operation

Description: Creates multiple Shift objects in the database. You can create up to 1000 Shift objects with a single call.

Service: Shift Service (on page 897)

Style: Document/literal wrapped

Input:

Message: CreateShifts

Elements: Shift elements that contain Shift Fields (on page 901) fields

Required fields: You must supply the Name field.

Output:

Message: CreateShiftsResponse Output: Zero to many ObjectId elements

ReadShifts Operation

Description: Reads Shift objects from the database.

Service: Shift Service (on page 897)

Style: Document/literal wrapped

Input:

Message: ReadShifts

Elements: One to many field names from the Shift Fields (on page 901) field list

You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadShiftsResponse

Output: Zero to many Shift elements that contain Shift fields.

DeleteShifts Operation

Description: Deletes multiple Shift objects in the database. You can delete up to 1000 Shift objects with a single call.

Service: Shift Service (on page 897)

Style: Document/literal wrapped

Input:

Message: DeleteShifts Elements: One to many ObjectId elements

Output:

Message: DeleteShiftsResponse Output: boolean

GetFieldLengthShift Operation

Description: Returns length of variable character fields for a BO.

Service: Shift Service (on page 897)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthShift Elements: FieldLength

Output:

Message: GetFieldLengthShiftResponse Elements: One to many FieldLengthShifts.

UpdateShifts Operation

Description: Updates multiple Shift objects in the database. You can update up to 1000 Shift objects with a single call.

Service: Shift Service (on page 897)

Style: Document/literal wrapped

Input:

Message: UpdateShifts Elements: Shift elements that contain *Shift Fields* (on page 901) fields. Required fields: The ObjectId must be specified.

Output:

Message: UpdateShiftsResponse

Output: boolean

AddShiftPeriod Operation

Description: Adds a shift period with the start hour.

Service: Shift Service (on page 897)

Style: Document/literal wrapped

Input:

Message: AddShiftPeriod Elements:

- ShiftObjectId
- IStartHour

Output:

Message: AddShiftPeriodResponse Element: Sucess

RemoveShiftPeriod Operation

Description: Removes a shift period with the start hour.

Service: Shift Service (on page 897)

Style: Document/literal wrapped

Input:

Message: RemoveShiftPeriod Elements:

- ShiftObjectId
- IStartHour

Output:

Message: RemoveShiftPeriodResponse Element: Success

RemoveAllShiftPeriods Operation

Description: Removes all shift periods.

Service: Shift Service (on page 897)

Style: Document/literal wrapped

Input:

Message: RemoveAllShiftPeriods

Element: ShiftObjectId

Output:

Message: RemoveAllShiftPeriodsResponse Element: Success

GetShiftPeriodDurations Operation

Description: Gets an array of shift period durations.

Service: Shift Service: Shift Service (on page 897)

Style: Document/literal wrapped

Input:

Message: GetShiftPeriodDurations Element: ShiftObjectId

Output:

Message: GetShiftPeriodDurationsResponse Element: ShiftPeriodDurations.

Shift Fields

Field	Туре	Read Only	Filterable Orderable	Description
CreateDate	dateTime	x	x	The date this shift was created.
CreateUser	string restricted to maxLength(2 55)	x	x	The name of the user that created this shift.
LastUpdate Date	dateTime	x	х	The date this shift was last updated.
LastUpdate User	string restricted to maxLength(2 55)	x	x	The name of the user that last updated this shift.
Name	string restricted to maxLength(6 0)		x	The name of the shift.

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ObjectId	int	x	The unique ID generated by the system.
ShiftPeriod	ShiftPeriodTy pe See ShiftPeriodTy pe table below.		

ShiftPeriodType Table

Field	Туре
ObjectId	int
StartHour	int

Risk Services

ActivityRisk Service

Operations:

CreateActivityRisks Operation (on page 903) ReadActivityRisks Operation (on page 903) DeleteActivityRisks Operation (on page 904) GetFieldLengthActivityRisk Operation (on page 904)

WSDL: ActivityRisk.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/ActivityRisk/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/ActivityRiskService?wsdl https://<hostname>:<port number>/p6ws/services/ActivityRiskService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.activityrisk.ActivityRiskService

Description:

The activity risk object stores the relationship between a single Activity and a single Risk.

Note that this business object has a multi-part object ID; its object ID is a combination of its activity object ID and its risk object ID.

CreateActivityRisks Operation

Description: Creates multiple ActivityRisk objects in the database. You can create up to 1000 ActivityRisk objects with a single call.

Service: ActivityRisk Service (on page 902)

Style: Document/literal wrapped

Input:

Message: CreateActivityRisks

Elements: ActivityRisk elements that contain ActivityRisk Fields (on page 904) fields

Required fields:

- RiskObjectId
- ActivityObjectId

Output:

Message: CreateActivityRisksResponse Output: Zero to many ObjectId elements

ReadActivityRisks Operation

Description: Reads ActivityRisk objects from the database.

Service: ActivityRisk Service (on page 902)

Style: Document/literal wrapped

Input:

Message: ReadActivityRisks

Elements: One to many field names from the ActivityRisk Fields (on page 904) field list

You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadActivityRisksResponse

Output: Zero to many ActivityRisk elements that contain ActivityRisk fields.

DeleteActivityRisks Operation

Description: Deletes multiple ActivityRisk objects in the database. You can delete up to 1000 ActivityRisk objects with a single call.

Service: ActivityRisk Service (on page 902)

Style: Document/literal wrapped

Input:

Message: DeleteActivityRisks Elements: One to many ObjectId elements

Output:

Message: DeleteActivityRisksResponse Output: boolean

GetFieldLengthActivityRisk Operation

Description: Returns length of variable character fields for a BO.

Service: ActivityRisk Service (on page 902)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthActivityRisk Elements: FieldLength

Output:

Message: GetFieldLengthActivityRiskResponse Elements: One to many FieldLengthActivityRisks.

ActivityRisk Fields

Field	Туре	Read Only	Filterable Orderable	Description
ActivityId	string restricted to maxLength(4 0)	x	x	The id of an activity impacted by the Risk.
ActivityNam e	string restricted to maxLength(1	x	x	The name of an activity impacted by the Risk. The

	20)			activity name does not have to be unique.
ActivityObje ctId	int		x	The unique ID of the activity to which the risk is assigned.
CreateDate	dateTime	х	x	The date this activity was created.
CreateUser	string restricted to maxLength(2 55)	x	x	The name of the user that created this activity risk.
IsBaseline	boolean	x	x	The boolean value indicating if this business object is related to a Project or Baseline
IsTemplate	boolean	x	x	The boolean value indicating if this business object is related to a template Project.
LastUpdate Date	dateTime	x	x	The date this activity was last updated.
LastUpdate User	string restricted to maxLength(2 55)	x	x	The name of the user that last updated this activity risk.
ProjectId	string	x	x	The short code of the associated project.
ProjectNam e	string restricted to maxLength(1 00)	x	x	The name of the associated project.
ProjectObje ctId	int	x	x	The unique ID of the associated project.

Riskld	string restricted to maxLength(4 0)	x	x	The ID of the Risk. Must be unique within a project.
RiskName	string restricted to maxLength(2 00)	x	x	The name of the Risk. Does not need to be unique.
RiskObjectI d	int		x	The unique ID of the associated risk.

RiskImpact Service

Operations:

CreateRiskImpacts Operation (on page 907) ReadRiskImpacts Operation (on page 907) UpdateRiskImpacts Operation (on page 907) DeleteRiskImpacts Operation (on page 908) GetFieldLengthRiskImpact Operation (on page 908)

WSDL: RiskImpact.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/RiskImpact/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/RiskImpactService?wsdl https://<hostname>:<port number>/p6ws/services/RiskImpactService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.riskimpact.RiskImpactService

Description:

The risk impact object stores the pre-response qualitative value assigned to a risk for each of the risk thresholds.

Note that this business object has a multi-part object ID; its object ID is a combination of its risk object ID and its risk threshold object ID. The risk threshold object ID is set based on the value used in risk threshold level object ID.

CreateRiskImpacts Operation

Description: Creates multiple RiskImpact objects in the database. You can create up to 1000 RiskImpact objects with a single call.

Service: RiskImpact Service (on page 906)

Style: Document/literal wrapped

Input:

Message: CreateRiskImpacts

Elements: RiskImpact elements that contain RiskImpact Fields (on page 909) fields

Required fields:

- RiskObjectId
- RiskThresholdLevelObjectId

Output:

Message: CreateRiskImpactsResponse Output: Zero to many ObjectId elements

ReadRiskImpacts Operation

Description: Reads RiskImpact objects from the database.

Service: RiskImpact Service (on page 906)

Style: Document/literal wrapped

Input:

Message: ReadRiskImpacts

Elements: One to many field names from the *RiskImpact Fields* (on page 909) field list You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadRiskImpactsResponse

Output: Zero to many RiskImpact elements that contain RiskImpact fields.

UpdateRiskImpacts Operation

Description: Updates multiple RiskImpact objects in the database. You can update up to 1000 RiskImpact objects with a single call.

Service: RiskImpact Service (on page 906)

Style: Document/literal wrapped

Input:

Message: UpdateRiskImpacts

Elements: RiskImpact elements that contain *RiskImpact Fields* (on page 909) fields. Required fields: The ObjectId must be specified.

Output:

Message: UpdateRiskImpactsResponse Output: boolean

DeleteRiskImpacts Operation

Description: Deletes multiple RiskImpact objects in the database. You can delete up to 1000 RiskImpact objects with a single call.

Service: RiskImpact Service (on page 906)

Style: Document/literal wrapped

Input:

Message: DeleteRiskImpacts Elements: One to many ObjectId elements

Output:

Message: DeleteRiskImpactsResponse Output: boolean

GetFieldLengthRiskImpact Operation

Description: Gets an array of project IDs that are contained in the project portfolios.

Service: RiskImpact Service (on page 906)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthRiskImpact Elements: FieldLength

Output:

Message: GetFieldLengthRiskImpactResponse Elements: One to many FieldLengthRiskImpacts.

RiskImpact Fields

Field	Туре	Read Only	Filterable Orderable	Description
CreateDate	dateTime	X	x	The date this risk impact was created.
CreateUser	string restricted to maxLength(2 55)	x	x	The name of the user that created the risk impact.
IsBaseline	boolean	x	x	The boolean value indicating if this business object is related to a Project or Baseline
IsTemplate	boolean	x	x	The boolean value indicating if this business object is related to a template Project.
LastUpdateD ate	dateTime	x	x	The date this risk impact was last updated.
LastUpdateUs er	string restricted to maxLength(2 55)	x	x	The name of the user that last updated the risk impact.
ProjectId	string	х	x	The short name of the associated project.
ProjectName	string	х	x	The name of the associated project.
ProjectObjectI d	int	х	x	The unique ID of the associated project.
RiskId	string	х	x	The ID of the Risk. Must be unique within a project.
RiskName	string	Х	Х	The name of the

				Risk. Does not need to be unique.
RiskObjectId	int		x	The unique ID of the associated risk.
RiskThreshol dLevelCode	string	x	x	The 10 character short name for the threshold level. Must be unique.
RiskThreshol dLevelName	string	x	x	The 40 character name for the threshold level. Does not need to be unique.
RiskThreshol dLevelObjectI d	int		x	The unique ID of the associated Risk Threshold.
RiskThreshol dName	string	x	x	The name of the associated risk score type.
RiskThreshol dObjectId	int	x	x	The unique ID of the associated Risk Threshold Type.

RiskMatrixScore Service

Operations:

CreateRiskMatrixScores Operation (on page 911) ReadRiskMatrixScores Operation (on page 911) UpdateRiskMatrixScores Operation (on page 912) DeleteRiskMatrixScores Operation (on page 912) GetFieldLengthRiskMatrixScore Operation (on page 912)

WSDL: RiskMatrixScore.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/RiskMatrixScore/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/RiskMatrixScoreService?wsdl https://<hostname>:<port number>/p6ws/services/RiskMatrixScoreService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.riskmatrixscore.RiskMatrixScoreService

Description:

The risk matrix score object stores the score values from the probability and impact diagram (PID) of the risk score matrix.

CreateRiskMatrixScores Operation

Description: Creates multiple RiskMatrixScore objects in the database. You can create up to 1000 RiskMatrixScore objects with a single call.

Service: RiskMatrixScore Service (on page 910)

Style: Document/literal wrapped

Input:

Message: CreateRiskMatrixScores

Elements: RiskMatrixScore elements that contain *RiskMatrixScore Fields* (on page 913) fields

Required fields:

- RiskMatrixObjectId
- ProbabilityThresholdLevel

Output:

Message: CreateRiskMatrixScoresResponse Output: Zero to many ObjectId elements

ReadRiskMatrixScores Operation

Description: Reads RiskMatrixScore objects from the database.

Service: RiskMatrixScore Service (on page 910)

Style: Document/literal wrapped

Input:

Message: ReadRiskMatrixScores

Elements: One to many field names from the *RiskMatrixScore Fields* (on page 913) field list

You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadRiskMatrixScoresResponse

Output: Zero to many RiskMatrixScore elements that contain RiskMatrixScore fields.

UpdateRiskMatrixScores Operation

Description: Updates multiple RiskMatrixScore objects in the database. You can update up to 1000 RiskMatrixScore objects with a single call.

Service: RiskMatrixScore Service (on page 910)

Style: Document/literal wrapped

Input:

Message: UpdateRiskMatrixScores Elements: RiskMatrixScore elements that contain *RiskMatrixScore Fields* (on page 913) fields.

Required fields: The ObjectId must be specified.

Output:

Message: UpdateRiskMatrixScoresResponse Output: boolean

DeleteRiskMatrixScores Operation

Description: Deletes multiple RiskMatrixScore objects in the database. You can delete up to 1000 RiskMatrixScore objects with a single call.

Service: RiskMatrixScore Service (on page 910)

Style: Document/literal wrapped

Input:

Message: DeleteRiskMatrixScores Elements: One to many ObjectId elements

Output:

Message: DeleteRiskMatrixScoresResponse Output: boolean

GetFieldLengthRiskMatrixScore Operation

Description: Returns length of variable character fields for a BO.

Service: RiskMatrixScore Service (on page 910)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthRiskMatrixScore Elements: FieldLength

Output:

Message: GetFieldLengthRiskMatrixScoreResponse Elements: One to many FieldLengthRiskMatrixScores.

RiskMatrixScore Fields

Field	Туре	Read Only	Filterable Orderable	Description
CreateDate	dateTime	X	x	The date this risk matrix score was created.
CreateUser	string restricted to maxLength(2 55)	x	x	The name of the user that created the risk matrix score.
LastUpdateD ate	dateTime	x	x	The date this risk matrix score was last updated.
LastUpdateU ser	string restricted to maxLength(2 55)	x	x	The name of the user that last updated the risk matrix score.
ObjectId	int		x	The unique ID generated by the system.
ProbabilityTh resholdLevel	int restricted to minInclusive(1) maxInclusive(9)		x	The level number of the probability threshold. Valid numbers are 1-9.
RiskMatrixNa me	string restricted to maxLength(4 0)	x	x	The name of the Risk Matrix.
RiskMatrixO bjectId	int		x	The unique ID of the associated Risk Matrix.

Severity1	int	х	The first severity level of the Risk Matrix Score.
Severity1Lab el	string restricted to maxLength(4 0)	x	The label for the first severity level.
Severity2	int	x	The second severity level of the Risk Matrix Score.
Severity2Lab el	string restricted to maxLength(4 0)	x	The label for the second severity level.
Severity3	int	х	The third severity level of the Risk Matrix Score.
Severity3Lab el	string restricted to maxLength(4 0)	x	The label for the third severity level.
Severity4	int	х	The fourth severity level of the Risk Matrix Score.
Severity4Lab el	string restricted to maxLength(4 0)	x	The label for the forth severity level.
Severity5	int	х	The fifth severity level of the Risk Matrix Score.
Severity5Lab el	string restricted to maxLength(4 0)	x	The label for the fith severity level.
Severity6	int	х	The sixth severity level of the Risk Matrix Score.

Severity6Lab el	string restricted to maxLength(4 0)	x	The sixth for the first severity level.
Severity7	int	x	The seventh severity level of the Risk Matrix Score.
Severity7Lab el	string restricted to maxLength(4 0)	x	The label for the seventh severity level.
Severity8	int	x	The eighth severity level of the Risk Matrix Score.
Severity8Lab el	string restricted to maxLength(4 0)	x	The label for the eighth severity level.
Severity9	int	x	The ninth severity level of the Risk Matrix Score.
Severity9Lab el	string restricted to maxLength(4 0)	x	The label for the ninth severity level.

RiskMatrix Service

Operations:

CreateRiskMatrices Operation (on page 916) ReadRiskMatrices Operation (on page 916) UpdateRiskMatrices Operation (on page 917) DeleteRiskMatrices Operation (on page 917) GetFieldLengthRiskMatrix Operation (on page 917)

WSDL: RiskMatrix.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/RiskMatrix/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/RiskMatrixService?wsdl https://<hostname>:<port number>/p6ws/services/RiskMatrixService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.riskmatrix.RiskMatrixService

Description:

The risk matrix object contains the name and description of each probability and impact diagram (PID). The Risk Matrix is then used to qualitatively assess each risk and assign a score.

CreateRiskMatrices Operation

Description: Creates multiple RiskMatrix objects in the database. You can create up to 1000 RiskMatrix objects with a single call.

Service: RiskMatrix Service (on page 915)

Style: Document/literal wrapped

Input:

Message: CreateRiskMatrices

Elements: RiskMatrix elements that contain RiskMatrix Fields (on page 918) fields

Required fields: You must supply the Name field.

Output:

Message: CreateRiskMatricesResponse Output: Zero to many ObjectId elements

ReadRiskMatrices Operation

Description: Reads RiskMatrix objects from the database.

Service: RiskMatrix Service (on page 915)

Style: Document/literal wrapped

Input:

Message: ReadRiskMatrices

Elements: One to many field names from the *RiskMatrix Fields* (on page 918) field list You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadRiskMatricesResponse

Output: Zero to many RiskMatrix elements that contain RiskMatrix fields.

UpdateRiskMatrices Operation

Description: Updates multiple RiskMatrix objects in the database. You can update up to 1000 RiskMatrix objects with a single call.

Service: RiskMatrix Service (on page 915)

Style: Document/literal wrapped

Input:

Message: UpdateRiskMatrices

Elements: RiskMatrix elements that contain *RiskMatrix Fields* (on page 918) fields. Required fields: The ObjectId must be specified.

Output:

Message: UpdateRiskMatricesResponse Output: boolean

DeleteRiskMatrices Operation

Description: Deletes multiple RiskMatrix objects in the database. You can delete up to 1000 RiskMatrix objects with a single call.

Service: RiskMatrix Service (on page 915)

Style: Document/literal wrapped

Input:

Message: DeleteRiskMatrices Elements: One to many ObjectId elements

Output:

Message: DeleteRiskMatricesResponse Output: boolean

GetFieldLengthRiskMatrix Operation

Description: Returns length of variable character fields for a BO.

Service: RiskMatrix Service (on page 915)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthRiskMatrix Elements: FieldLength

Output:

Message: GetFieldLengthRiskMatrixResponse Elements: One to many FieldLengthRiskMatrices.

RiskMatrix Fields

		Read	Filterable	
Field	Туре	Only	Orderable	Description
CreateDate	dateTime	x	x	The date this risk matrix was created.
CreateUser	string restricted to maxLength(2 55)	x	x	The name of the user that created the risk matrix.
Description	string restricted to maxLength(4 000)		x	The description of the risk matrix
ImpactThres holdLevel	int	х	Х	The number of levels for the impact thresholds assigned to the risk scoring matrix. This impact level with the probability level determines the size of the matrix.
LastUpdateD ate	dateTime	x	x	The date this risk matrix was last updated.
LastUpdateU ser	string restricted to maxLength(2 55)	x	x	The name of the user that last updated the risk matrix.
Name	string restricted to maxLength(4 0)		x	The name of the risk matrix.
ObjectId	int		x	The unique ID generated by the

				system.
ProbabilityTh resholdLevel	int	X	X	The number of levels for the probability threshold assigned to the risk matrix. This probability level with the impact level determines the size of the matrix.
RiskScoring Method	string restricted to 'Highest' 'Average of Impacts' 'Average of Individual Scores'		x	The calculation method used to determine the risk score. Valid values are 'Highest', 'Average of Impacts', 'Average of Individual Scores'.

RiskMatrixThreshold Service

Operations:

CreateRiskMatrixThresholds Operation (on page 920) ReadRiskMatrixThresholds Operation (on page 920) DeleteRiskMatrixThresholds Operation (on page 921) GetFieldLengthRiskMatrixThreshold Operation (on page 921)

WSDL: RiskMatrixThreshold.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/RiskMatrixThreshold/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/RiskMatrixThresholdService?wsdl https://<hostname>:<port number>/p6ws/services/RiskMatrixThresholdService?wsdl

Java Client Stub Class:

com. primavera. ws. p6. risk matrix threshold. Risk Matrix Threshold Service

Description:

The risk matrix threshold object creates a relationship between a RiskThreshold object and a RiskMatrix object. This allows a single RiskThreshold object to be associated with multiple RiskMatrix objects.

Note that this business object has a multi-part object ID; its object ID is a combination of its risk threshold object ID and its risk score matrix object ID.

CreateRiskMatrixThresholds Operation

Description: Creates multiple RiskMatrixThreshold objects in the database. You can create up to 1000 RiskMatrixThreshold objects with a single call.

Service: RiskMatrixThreshold Service (on page 919)

Style: Document/literal wrapped

Input:

Message: CreateRiskMatrixThresholds

Elements: RiskMatrixThreshold elements that contain *RiskMatrixThreshold Fields* (on page 921) fields

Required fields:

- RiskMatrixObjectId
- RiskThresholdObjectId

Output:

Message: CreateRiskMatrixThresholdsResponse Output: Zero to many ObjectId elements

ReadRiskMatrixThresholds Operation

Description: Reads RiskMatrixThreshold objects from the database.

Service: RiskMatrixThreshold Service (on page 919)

Style: Document/literal wrapped

Input:

Message: ReadRiskMatrixThresholds

Elements: One to many field names from the *RiskMatrixThreshold Fields* (on page 921) field list

You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadRiskMatrixThresholdsResponse

Output: Zero to many RiskMatrixThreshold elements that contain RiskMatrixThreshold fields.

DeleteRiskMatrixThresholds Operation

Description: Deletes multiple RiskMatrixThreshold objects in the database. You can delete up to 1000 RiskMatrixThreshold objects with a single call.

Service: RiskMatrixThreshold Service (on page 919)

Style: Document/literal wrapped

Input:

Message: DeleteRiskMatrixThresholds Elements: One to many ObjectId elements

Output:

Message: DeleteRiskMatrixThresholdsResponse Output: boolean

GetFieldLengthRiskMatrixThreshold Operation

Description: Returns length of variable character fields for a BO.

Service: RiskMatrixThreshold Service (on page 919)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthRiskMatrixThreshold Elements: FieldLength

Output:

Message: GetFieldLengthRiskMatrixThresholdResponse Elements: One to many FieldLengthRiskMatrixThresholds.

RiskMatrixThreshold Fields

Field	Туре	Read Only	Filterable Orderable	Description
CreateDate	dateTime	x	x	The date this risk matrix score type was created.
CreateUser	string restricted to maxLength(2	x	x	The name of the user that created the risk matrix

	55)			score type.
LastUpdate Date	dateTime	x	x	The date this risk matrix score type was last updated.
LastUpdate User	string restricted to maxLength(2 55)	x	x	The name of the user that last updated the risk matrix score type.
RiskMatrixN ame	string restricted to maxLength(4 0)	x	x	The name of the associated Risk Matrix.
RiskMatrixO bjectId	int		x	The unique ID of the associated Risk Matrix.
RiskThresh oldName	string restricted to maxLength(4 0)	x	x	The name of the associated Risk Threshold.
RiskThresh oldObjectId	int		x	The unique ID of the associated Risk Threshold.

RiskResponseAction Service

Operations:

CreateRiskResponseActions Operation (on page 923) ReadRiskResponseActions Operation (on page 923) UpdateRiskResponseActions Operation (on page 924) DeleteRiskResponseActions Operation (on page 924) GetFieldLengthRiskResponseAction Operation (on page 924)

WSDL: RiskResponseAction.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/RiskResponseAction/V1 Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/RiskResponseActionService?wsdl

https://<hostname>:<port number>/p6ws/services/RiskResponseActionService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.riskresponseaction.RiskResponseActionService

Description:

The risk response action impact object is a post-risk response action qualitative value that is assigned to a risk for each of the risk thresholds.

Note that this business object has a multi-part object ID; its object ID is a combination of its risk response action object ID and its risk threshold object ID. The risk threshold object ID is set based on the value used in risk threshold level object ID.

CreateRiskResponseActions Operation

Description: Creates multiple RiskResponseAction objects in the database. You can create up to 1000 RiskResponseAction objects with a single call.

Service: RiskResponseAction Service (on page 922)

Style: Document/literal wrapped

Input:

Message: CreateRiskResponseActions

Elements: RiskResponseAction elements that contain *RiskResponseAction Fields* (on page 925) fields

Required fields:

- RiskResponseActionObjectId
- RiskThresholdLevelObjectId

Output:

Message: CreateRiskResponseActionsResponse Output: Zero to many ObjectId elements

ReadRiskResponseActions Operation

Description: Reads RiskResponseAction objects from the database.

Service: RiskResponseAction Service (on page 922)

Style: Document/literal wrapped

Input:

Message: ReadRiskResponseActions

Elements: One to many field names from the *RiskResponseAction Fields* (on page 925) field list

You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadRiskResponseActionsResponse

Output: Zero to many RiskResponseAction elements that contain RiskResponseAction fields.

DeleteRiskResponseActions Operation

Description: Deletes multiple RiskResponseAction objects in the database. You can delete up to 1000 RiskResponseAction objects with a single call.

Service: RiskResponseAction Service (on page 922)

Style: Document/literal wrapped

Input:

Message: DeleteRiskResponseActions Elements: One to many ObjectId elements

Output:

Message: DeleteRiskResponseActionsResponse Output: boolean

UpdateRiskResponseActions Operation

Description: Updates multiple RiskResponseAction objects in the database. You can update up to 1000 RiskResponseAction objects with a single call.

Service: RiskResponseAction Service (on page 922)

Style: Document/literal wrapped

Input:

Message: UpdateRiskResponseActions Elements: RiskResponseAction elements that contain *RiskResponseAction Fields* (on page 925) fields.

Required fields: The ObjectId must be specified.

Output:

Message: UpdateRiskResponseActionsResponse Output: boolean

GetFieldLengthRiskResponseAction Operation

Description: Returns length of variable character fields for a BO.

Service: RiskResponseAction Service (on page 922)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthRiskResponseAction Elements: FieldLength

Output:

Message: GetFieldLengthRiskResponseActionResponse Elements: One to many FieldLengthRiskResponseActions.

RiskResponseAction Fields

		Read	Filterable	
Field	Туре	Only	Orderable	Description
ActivityId	string			The id of an activity impacted by the Risk.
ActivityName	string			The name of an activity impacted by the Risk. The activity name does not have to be unique.
ActivityObject Id	int			The unique ID of the associated activity.
ActualCost	double			The actual cost.
CreateDate	dateTime	x	x	The date this risk response action impact was created.
CreateUser	string restricted to maxLength(2 55)	x	x	The name of the user that created the risk response action impact.
FinishDate	dateTime			The finish date of the risk response action. If an

				activity is assigned, the risk response action uses the activity finish date.
ld	string restricted to maxLength(4 0)			The unique Id of the risk response action.
IsBaseline	boolean	x	x	The boolean value indicating if this business object is related to a Project or Baseline
IsTemplate	boolean	x	x	The boolean value indicating if this business object is related to a template Project.
LastUpdateD ate	dateTime	x	x	The date this risk response action impact was last updated.
LastUpdateU ser	string restricted to maxLength(2 55)	x	x	The name of the user that last updated the risk response action impact.
Name	string restricted to maxLength(2 00)			The name of the risk response action.
ObjectId	int			The unique ID of the associated risk.
PlannedCost	double			The planned cost.
PlannedFinis hDate	dateTime			The planned finish date.

PlannedStart Date	dateTime			The planned start date.
ProjectId	string	х	x	The short name of the associated project.
ProjectName	string	x	x	The name of the associated project.
ProjectObject Id	int	х	x	The unique ID of the associated project.
RemainingCo st	double			The remaining cost associated with the risk response action.
Resourceld	string restricted to maxLength(2 0)			The ID of the resource who owns the risk response action. The owner of the risk response action is responsible for resolving the risk response action.
ResourceNa me	string restricted to maxLength(1 00)			The name of the resource who owns the risk response action. The owner of the risk response action is responsible for resolving the risk response action.
ResourceObj ectId	int			The unique ID of the associated resource.
Riskld	string		x	The ID of the Risk.

	restricted to maxLength(4 0)	Must be unique within a project.
RiskObjectId	int	The unique ID of the associated risk.
RiskRespons ePlanId	string	The ID of the risk response plan. This must be unique within the project.
RiskRespons ePlanName	string	The name of the risk response plan. This does not need to be unique within the project.
RiskRespons ePlanObjectI d	int	The unique ID of the associated risk response plan.
Score	int	The risk score from the numeric PID after the response action has been completed.
ScoreColor	string restricted to pattern '#[A-Fa-f0-9]{ 6} '	The color of the tolerance threshold for the score value.
ScoreText	string restricted to maxLength(4 0)	The risk score from the alphanumeric PID after the response action has been completed.
StartDate	dateTime	The start date of the risk response

			action. If an activity is assigned, the risk response action uses the activity start date.
Status	string restricted to 'Proposed' 'Sanctioned' 'Rejected' 'In Progress' 'Complete'		The status of the risk response action. Valid values are 'Proposed', 'Sanctioned', 'Rejected', 'InProgress', and 'Complete'.

RiskResponseActionImpact Service

Operations:

CreateRiskResponseActionImpacts Operation (on page 930) ReadRiskResponseActionImpacts Operation (on page 930) UpdateRiskResponseActionImpacts Operation (on page 930) DeleteRiskResponseActionImpacts Operation (on page 931) GetFieldLengthRiskResponseActionImpact Operation (on page 931)

WSDL: RiskResponseActionImpact.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/RiskResponseActionImpact/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/RiskResponseActionImpactService?wsdl https://<hostname>:<port number>/p6ws/services/RiskResponseActionImpactService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.riskresponseactionimpact.RiskResponseActionImpactService

Description:

The risk response action object contains the detailed steps that need to occur to complete the risk response plan. Multiple actions can be associated with one response plan and each action can be linked to an activity in the project.

CreateRiskResponseActionImpacts Operation

Description: Creates multiple RiskResponseActionImpact objects in the database. You can create up to 1000 RiskResponseActionImpact objects with a single call.

Service: RiskResponseActionImpact Service (on page 929)

Style: Document/literal wrapped

Input:

Message: CreateRiskResponseActionImpacts

Elements: RiskResponseActionImpact elements that contain *RiskResponseActionImpact Fields* (on page 932) fields

Required fields:

- RiskResponseActionObjectId
- RiskThresholdLevelObjectId

Output:

Message: CreateRiskResponseActionImpactsResponse Output: Zero to many ObjectId elements

ReadRiskResponseActionImpacts Operation

Description: Reads RiskResponseActionImpact objects from the database.

Service: RiskResponseActionImpact Service (on page 929)

Style: Document/literal wrapped

Input:

Message: ReadRiskResponseActionImpacts

Elements: One to many field names from the *RiskResponseActionImpact Fields* (on page 932) field list

You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadRiskResponseActionImpactsResponse Output: Zero to many RiskResponseActionImpact elements that contain RiskResponseActionImpact fields.

UpdateRiskResponseActionImpacts Operation

Description: Updates multiple RiskResponseActionImpact objects in the database. You can update up to 1000 RiskResponseActionImpact objects with a single call.

Service: RiskResponseActionImpact Service (on page 929)

Style: Document/literal wrapped

Input:

Message: UpdateRiskResponseActionImpacts Elements: RiskResponseActionImpact elements that contain *RiskResponseActionImpact Fields* (on page 932) fields.

Required fields: The ObjectId must be specified.

Output:

Message: UpdateRiskResponseActionImpactsResponse Output: boolean

DeleteRiskResponseActionImpacts Operation

Description: Deletes multiple RiskResponseActionImpact objects in the database. You can delete up to 1000 RiskResponseActionImpact objects with a single call.

Service: RiskResponseActionImpact Service (on page 929)

Style: Document/literal wrapped

Input:

Message: DeleteRiskResponseActionImpacts Elements: One to many ObjectId elements

Output:

Message: DeleteRiskResponseActionImpactsResponse Output: boolean

GetFieldLengthRiskResponseActionImpact Operation

Description: Returns length of variable character fields for a BO.

Service: RiskResponseActionImpact Service (on page 929)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthRiskResponseActionImpact Elements: FieldLength

Output:

Message: GetFieldLengthRiskResponseActionImpactResponse Elements: One to many FieldLengthRiskResponseActionImpacts.

RiskResponseActionImpact Fields

		Read	Filterable	
Field	Туре	Only	Orderable	Description
CreateDate	dateTime	x	x	The date this risk response action was created.
CreateUser	string restricted to maxLength(2 55)	x	x	The name of the user that created the risk response action.
IsBaseline	boolean	x	x	The boolean value indicating if this business object is related to a Project or Baseline
IsTemplate	boolean	x	x	The boolean value indicating if this business object is related to a template Project.
LastUpdateDa te	dateTime	x	x	The date this risk response action was last updated.
LastUpdateUs er	string restricted to maxLength(2 55)	x	x	The name of the user that last updated the risk response action.
ProjectId	string	х	x	The short name of the associated project.
ProjectName	string	х	x	The name of the associated project.
ProjectObjectI d	int	x	x	The unique ID of the associated project.
Riskld	string restricted to		x	The unique identifier of the risk

	maxLength(4 0)		or risks assigned to this activity.
RiskObjectId	int		The unique ID generated by the system.
RiskResponse ActionId	string		The ID of the RiskResponseActi on.
RiskResponse ActionName	string		The name of the RiskResponseActi on.
RiskResponse ActionObjectId	int		The unique ID of the RiskResponseActi on.
RiskThreshold LevelCode	string		The 10 character short name for the threshold level. Must be unique.
RiskThreshold LevelName	string		The 40 character name for the threshold level. Does not need to be unique.
RiskThreshold LevelObjectId	int		The unique ID of the associated Risk Threshold Level.
RiskThreshold Name	string		The name of the associated risk score type.
RiskThreshold ObjectId	int		The unique ID of the associated Risk Threshold.

RiskResponsePlan Service

Operations:

CreateRiskResponsePlans Operation (on page 934) ReadRiskResponsePlans Operation (on page 935) UpdateRiskResponsePlans Operation (on page 935) DeleteRiskResponsePlans Operation (on page 935) GetFieldLengthRiskResponsePlan Operation (on page 936)

WSDL: RiskResponsePlan.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/RiskResponsePlan/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/RiskResponsePlanService?wsdl https://<hostname>:<port number>/p6ws/services/RiskResponsePlanService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.riskresponseplan.RiskResponsePlanService

Description:

The risk response plan object communicates how the project team plans to address the identified risk. A risk that is categorized as a threat has four types of response plans: accept, avoid, reduce, and transfer. A risk that is an opportunity has four different types of response plans: enhance, exploit, facilitate, and reject. The response plan can be comprised of multiple detailed actions or steps.

CreateRiskResponsePlans Operation

Description: Creates multiple RiskResponsePlan objects in the database. You can create up to 1000 RiskResponsePlan objects with a single call.

Service: RiskResponsePlan Service (on page 934)

Style: Document/literal wrapped

Input:

Message: CreateRiskResponsePlans

Elements: RiskResponsePlan elements that contain *RiskResponsePlan Fields* (on page 936) fields

Required fields:

RiskObjectId

Id

Output:

Message: CreateRiskResponsePlansResponse Output: Zero to many ObjectId elements

ReadRiskResponsePlans Operation

Description: Reads RiskResponsePlan objects from the database.

Service: RiskResponsePlan Service (on page 934)

Style: Document/literal wrapped

Input:

Message: ReadRiskResponsePlans

Elements: One to many field names from the *RiskResponsePlan Fields* (on page 936) field list

You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadRiskResponsePlansResponse Output: Zero to many RiskResponsePlan elements that contain RiskResponsePlan fields.

UpdateRiskResponsePlans Operation

Description: Updates multiple RiskResponsePlan objects in the database. You can update up to 1000 RiskResponsePlan objects with a single call.

Service: RiskResponsePlan Service (on page 934)

Style: Document/literal wrapped

Input:

Message: UpdateRiskResponsePlans

Elements: RiskResponsePlan elements that contain *RiskResponsePlan Fields* (on page 936) fields.

Required fields: The ObjectId must be specified.

Output:

Message: UpdateRiskResponsePlansResponse Output: boolean

DeleteRiskResponsePlans Operation

Description: Deletes multiple RiskResponsePlan objects in the database. You can delete up to 1000 RiskResponsePlan objects with a single call.

Service: RiskResponsePlan Service (on page 934)

Style: Document/literal wrapped

Input:

Message: DeleteRiskResponsePlans Elements: One to many ObjectId elements

Output:

Message: DeleteRiskResponsePlansResponse Output: boolean

GetFieldLengthRiskResponsePlan Operation

Description: Returns length of variable character fields for a BO.

Service: RiskResponsePlan Service (on page 934)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthRiskResponsePlan Elements: FieldLength

Output:

Message: GetFieldLengthRiskResponsePlanResponse Elements: One to many FieldLengthRiskResponsePlans.

RiskResponsePlan Fields

Field	Туре	Read Only	Filterable Orderable	Description
ActualCost	double	x		The actual cost.
CreateDate	dateTime	x	x	The date this risk response plan was created.
CreateUser	string restricted to maxLength(2 55)	x	x	The name of the user that created the risk response plan.
FinishDate	dateTime	x		The finish date of the risk response action. If an activity is assigned, the

				risk response action uses the activity finish date.
ld	string restricted to maxLength(4 0)		x	The ID of the risk response plan. This must be unique within the assigned risk.
IsActive	boolean		x	The indication of whether the response plan is currently active for the associated risk. Only one response plan can be active at a given time for a risk.
IsBaseline	boolean	x	x	The boolean value indicating if this business object is related to a Project or Baseline
IsTemplate	boolean	x	x	The boolean value indicating if this business object is related to a template Project.
LastUpdate Date	dateTime	x	x	The date this risk response plan was last updated.
LastUpdate User	string restricted to maxLength(2 55)	x	x	The name of the user that last updated the risk response plan.
Name	string restricted to maxLength(2 00)		x	The name of the risk response plan.
ObjectId	int		x	The unique ID generated by the system.
PlannedCos	double	Х		The planned cost.

t				
PlannedFini shDate	dateTime	x		The planned finish date.
PlannedStar tDate	dateTime	x		The planned start date.
ProjectId	string	x	x	The short name of the associated project.
ProjectNam e	string	x	x	The name of the associated project.
ProjectObje ctId	int	x	x	The unique ID of the associated project.
RemainingC ost	double	x		The remaining cost associated with the risk response action.
ResponseTy pe	string restricted to 'Avoid' 'Transfer' 'Reduce' 'Accept' 'Exploit' 'Facilitate' 'Enhance' 'Reject'		X	The risk response plan type. If the risk is a threat, the valid types are 'Avoid', 'Transfer', 'Reduce', and 'Accept'. If the risk is a opportunity, the valid types are 'Exploit', 'Facilitate', 'Enhance', and 'Reject'.
RiskId	string	x	x	The ID of the risk.
RiskName	string	x	x	The name of the risk.
RiskObjectI d	int		x	The unique ID of the associated risk.

Score	int	X	The risk score from the numeric PID after all response actions of the response plan have been completed. The post response plan score is set from the response action with the latest finish date and the lowest score when more than one response action has the same date.
ScoreColor	string restricted to pattern '#[A-Fa-f0-9]{ 6} '	x	The color of the tolerance threshold for the score value.
ScoreText	string restricted to maxLength(4 0)	X	The risk score from the alphanumeric PID after all response actions of the response plan have been completed. The post response plan score is set from the response action with the latest finish date and the lowest score when more than one response action has the same date.
StartDate	dateTime	x	The start date of the risk response action. If an activity is assigned, the risk response action uses the

	activity start date.
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Risk Service

Operations:

CreateRisks Operation (on page 940) ReadRisks Operation (on page 941) UpdateRisks Operation (on page 941) DeleteRisks Operation (on page 942) GetFieldLengthRisk Operation (on page 942)

WSDL: Risk.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/Risk/V2

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/RiskService?wsdl https://<hostname>:<port number>/p6ws/services/RiskService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.risk.RiskService

Description:

The risk object represents a probabilistic event or condition which if it occurs has an impact (e.g. schedule, cost, quality, safety) on the project. Risks with negative impacts are threats; risks with positive impacts on the project are opportunities.

This business object supports user defined fields (UDFs). To assign UDFs to an activity expense, use the UDFValue service.

CreateRisks Operation

Description: Creates multiple Risk objects in the database. You can create up to 1000 Risk objects with a single call.

Service: Risk Service (on page 940)

Style: Document/literal wrapped

Input:

Message: CreateRisks Elements: Risk elements that contain *Risk Fields* (on page 942) fields

Required fields:

- ProjectObjectId
- Id

Output:

Message: CreateRisksResponse Output: Zero to many ObjectId elements

ReadRisks Operation

Description: Reads Risk objects from the database.

Service: Risk Service (on page 940)

Style: Document/literal wrapped

Input:

Message: ReadRisks

Elements: One to many field names from the *Risk Fields* (on page 942) field list

You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadRisksResponse Output: Zero to many Risk elements that contain Risk fields.

UpdateRisks Operation

Description: Updates multiple Risk objects in the database. You can update up to 1000 Risk objects with a single call.

Service: Risk Service (on page 940)

Style: Document/literal wrapped

Input:

Message: UpdateRisks Elements: Risk elements that contain *Risk Fields* (on page 942) fields. Required fields: The ObjectId must be specified.

Output:

Message: UpdateRisksResponse Output: boolean

DeleteRisks Operation

Description: Deletes multiple Risk objects in the database. You can delete up to 1000 Risk objects with a single call.

Service: Risk Service (on page 940)

Style: Document/literal wrapped

Input:

Message: DeleteRisks Elements: One to many ObjectId elements

Output:

Message: DeleteRisksResponse Output: boolean

GetFieldLengthRisk Operation

Description: Returns length of variable character fields for a BO.

Service: Risk Service (on page 940)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthRisk Elements: FieldLength

Output:

Message: GetFieldLengthRiskResponse Elements: One to many FieldLengthRisks.

Risk Fields

Field	Туре	Rea d Only	Filter able Order able	Description
Cause	string restricted to maxLength(4 000)		x	The description of the cause of the Risk.
CostThreshold ID	int	х		The unique ID of a cost impact risk threshold.

CreateDate	dateTime	х	х	The date this risk was created.
CreateUser	string restricted to maxLength(2 55)	x	x	The name of the user that created the risk.
Description	string restricted to maxLength(4 000)		x	The description of the Risk.
Effect	string restricted to maxLength(4 000)		x	The description of the risks effect on the project.
Exposure	double	х		The calculated exposure value for the risk.
ExposureFinis hDate	dateTime	x		The calculated date the exposure finishes for the risk.
ExposureStart Date	dateTime	x		The calculated date the exposure starts for the risk.
ld	string restricted to maxLength(4 0)		x	The ID of the Risk. Must be unique within a project.
IdentifiedByRe sourceId	string restricted to maxLength(2 0)	x		The short code of the resource that identified the risk.
IdentifiedByRe sourceName	string restricted to maxLength(1 00)	x		The name of the resource that identified the risk.
IdentifiedByRe sourceObjectI d	int		x	The unique ID of the resource that identified the risk.

IdentifiedDate	dateTime		x	The date this risk was identified.
ImpactThresh oldValues	int	х		The calculated score value of the impact values assigned to the risk.
IsBaseline	boolean	х	x	The boolean value indicating if this business object is related to a Project or Baseline
IsTemplate	boolean	х	x	The boolean value indicating if this business object is related to a template Project.
LastUpdateDa te	dateTime	х	x	The date this risk was last updated.
LastUpdateUs er	string	x	x	The name of the user that last updated the risk.
Name	string restricted to maxLength(2 00)		x	The name of the Risk. Does not need to be unique.
Note	string restricted to maxLength(4 000)		x	The comments associated with the Risk.
ObjectId	int		х	The unique ID generated by the system.
ProbabilityThr esholdId	int	х		The unique ID of a probability risk threshold.
ProjectId	string	х	х	The short name of the associated project.
ProjectName	string restricted to maxLength(1 00)	x	x	The name of the associated project.
ProjectObjectI	int		х	The unique ID of the associated project.

d				
Resourceld	string restricted to maxLength(2 0)	х	x	The ID of the resource who owns the Risk. The owner of the Risk is responsible for resolving the Risk.
ResourceNam e	string restricted to maxLength(1 00)	x	x	The name of the resource who owns the Risk. The owner of the Risk is responsible for resolving the Risk.
ResourceObje ctId	int		x	The unique ID of the associated resource.
ResponseTota ICost	double			The total estimated cost for the risk. If the risk has an associated response plan, the cost is calculated from the risk response actions for the response plan. Not available if user does not have View Project Costs-Financial privilege.
RiskCategory Name	string restricted to maxLength(4 0)	x	x	The name of the category to which the Risk is assigned. e.g. Weather, Health, Legal etc. A Risk can only be associated with a single category.
ScheduleThre sholdId	int	х		The unique ID of a schedule risk threshold.
Score	int	х		The calculated score value of the impact values assigned to the risk.
ScoreColor	string restricted to pattern '#[A-Fa-f0-9]{ 6} '	х		The color of the tolerance threshold for the score value.
ScoreText	string restricted to maxLength(4 0)	х		The calculated score text value of the impact values assigned to the risk.
Status	string restricted to		x	The current status of the Risk. Valid values are 'Proposed', 'Open', 'Rejected',

	'Proposed' 'Open' 'Active' 'Rejected' 'Managed' 'Impacted'		'Managed', and 'Impacted'.
Туре	string restricted to 'Threat' 'Opportunity'	х	The type of the risk. Valid values are 'Threat' and 'Opportunity'.

RiskThresholdLevel Service

Operations:

CreateRiskThresholdLevels Operation (on page 946) ReadRiskThresholdLevels Operation (on page 947) UpdateRiskThresholdLevels Operation (on page 947) DeleteRiskThresholdLevels Operation (on page 948) GetFieldLengthRiskThresholdLevel Operation (on page 948)

WSDL: RiskThresholdLevel.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/RiskThresholdLevel/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/RiskThresholdLevelService?wsdl https://<hostname>:<port number>/p6ws/services/RiskThresholdLevelService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.riskthresholdlevel.RiskThresholdLevelService

Description:

The risk threshold level object stores the level information (e.g. Low, Medium, High) for each risk threshold.

CreateRiskThresholdLevels Operation

Description: Creates multiple RiskThresholdLevel objects in the database. You can create up to 1000 RiskThresholdLevel objects with a single call.

Service: RiskThresholdLevel Service (on page 946)

Style: Document/literal wrapped

Input:

Message: CreateRiskThresholdLevels

Elements: RiskThresholdLevel elements that contain *RiskThresholdLevel Fields* (on page 948) fields

Required fields:

- RiskThresholdObjectId
- Code

Output:

Message: CreateRiskThresholdLevelsResponse Output: Zero to many ObjectId elements

ReadRiskThresholdLevels Operation

Description: Reads RiskThresholdLevel objects from the database.

Service: RiskThresholdLevel Service (on page 946)

Style: Document/literal wrapped

Input:

Message: ReadRiskThresholdLevels

Elements: One to many field names from the *RiskThresholdLevel Fields* (on page 948) field list

You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadRiskThresholdLevelsResponse

Output: Zero to many RiskThresholdLevel elements that contain RiskThresholdLevel fields.

UpdateRiskThresholdLevels Operation

Description: Updates multiple RiskThresholdLevel objects in the database. You can update up to 1000 RiskThresholdLevel objects with a single call.

Service: RiskThresholdLevel Service (on page 946)

Style: Document/literal wrapped

Input:

Message: UpdateRiskThresholdLevels

Elements: RiskThresholdLevel elements that contain *RiskThresholdLevel Fields* (on page 948) fields.

Required fields: The ObjectId must be specified.

Output:

Message: UpdateRiskThresholdLevelsResponse Output: boolean

DeleteRiskThresholdLevels Operation

Description: Deletes multiple RiskThresholdLevel objects in the database. You can delete up to 1000 RiskThresholdLevel objects with a single call.

Service: RiskThresholdLevel Service (on page 946)

Style: Document/literal wrapped

Input:

Message: DeleteRiskThresholdLevels Elements: One to many ObjectId elements

Output:

Message: DeleteRiskThresholdLevelsResponse Output: boolean

GetFieldLengthRiskThresholdLevel Operation

Description: Returns length of variable character fields for a BO.

Service: RiskThresholdLevel Service (on page 946)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthRiskThresholdLevel Elements: FieldLength

Output:

Message: GetFieldLengthRiskThresholdLevelResponse Elements: One to many FieldLengthRiskThresholdLevels.

RiskThresholdLevel Fields

Field	Туре	Read Only	Filterable Orderable	Description
Code	string restricted to		x	The 10 character code for the

	maxLength(1 0)			threshold level. Must be unique.
Color	string restricted to pattern '#[A-Fa-f0-9]{ 6} '		x	The Hex representation for the color e.g. 0xFFFFFF.
CostRange	double		х	The cost range of the threshold level.
CreateDate	dateTime	x	х	The date this threshold level was created.
CreateUser	string restricted to maxLength(2 55)	x	x	The name of the user that created the threshold level.
LastUpdate Date	dateTime	x	x	The date this threshold level was last updated.
LastUpdate User	string restricted to maxLength(2 55)	x	x	The name of the user that last updated the threshold level.
Level	int restricted to minInclusive(0) maxInclusive(9)		x	The valid values are between 0 and 9. Defines a level for the Risk Threshold.
Name	string restricted to maxLength(4 0)		x	The 40 character name for the threshold level. Does not need to be unique.
ObjectId	int		х	The unique ID generated by the system.
ProbabilityR ange	double restricted to		х	The probability range of the

	minInclusive(0.0)			threshold level.
Range	string restricted to maxLength(1 00)		x	The user defined range.
RiskThresh oldName	string restricted to maxLength(4 0)	x	x	The name of the associated risk score type.
RiskThresh oldObjectId	int		x	The unique ID of the associated Risk Threshold.
ScheduleRa nge	double		x	The schedule range of the threshold level.
ThresholdTy pe	string restricted to '' 'Probability' 'Tolerance' 'Schedule' 'Cost' 'Relative Schedule' 'Relative Cost' 'User Defined'	x	x	The type of Risk Threshold. Valid types are 'Probability', 'Tolerance', 'Schedule', 'Cost', 'Relative Schedule', 'Relative Cost' and 'User Defined'.
ToleranceR ange	int		х	The tolerance range of the threshold level.

RiskThreshold Service

Operations:

CreateRiskThresholds Operation (on page 951) ReadRiskThresholds Operation (on page 951) UpdateRiskThresholds Operation (on page 952) DeleteRiskThresholds Operation (on page 952)

GetFieldLengthRiskThreshold Operation (on page 952)

WSDL: RiskThreshold.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/RiskThreshold/V2

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/RiskThresholdService?wsdl https://<hostname>:<port number>/p6ws/services/RiskThresholdService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.riskthreshold.RiskThresholdService

Description:

The risk threshold object contains the name, description, and type of each risk threshold. Risk thresholds provide a mechanism for setting up the criteria that is used to assess the risk.

CreateRiskThresholds Operation

Description: Creates multiple RiskThreshold objects in the database. You can create up to 1000 RiskThreshold objects with a single call.

Service: RiskThreshold Service (on page 950)

Style: Document/literal wrapped

Input:

Message: CreateRiskThresholds

Elements: RiskThreshold elements that contain RiskThreshold Fields (on page 953) fields

Required fields: You must supply the Name field.

Output:

Message: CreateRiskThresholdsResponse Output: Zero to many ObjectId elements

ReadRiskThresholds Operation

Description: Reads RiskThreshold objects from the database.

Service: RiskThreshold Service (on page 950)

Style: Document/literal wrapped

Input:

Message: ReadRiskThresholds

Elements: One to many field names from the *RiskThreshold Fields* (on page 953) field list

You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadRiskThresholdsResponse

Output: Zero to many RiskThreshold elements that contain RiskThreshold fields.

UpdateRiskThresholds Operation

Description: Updates multiple RiskThreshold objects in the database. You can update up to 1000 RiskThreshold objects with a single call.

Service: RiskThreshold Service (on page 950)

Style: Document/literal wrapped

Input:

Message: UpdateRiskThresholds

Elements: RiskThreshold elements that contain *RiskThreshold Fields* (on page 953) fields. Required fields: The ObjectId must be specified.

Output:

Message: UpdateRiskThresholdsResponse Output: boolean

DeleteRiskThresholds Operation

Description: Deletes multiple RiskThreshold objects in the database. You can delete up to 1000 RiskThreshold objects with a single call.

Service: RiskThreshold Service (on page 950)

Style: Document/literal wrapped

Input:

Message: DeleteRiskThresholds Elements: One to many ObjectId elements

Output:

Message: DeleteRiskThresholdsResponse Output: boolean

GetFieldLengthRiskThreshold Operation

Description: Returns length of variable character fields for a BO.

Service: RiskThreshold Service (on page 950)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthRiskThreshold Elements: FieldLength

Output:

Message: GetFieldLengthRiskThresholdResponse Elements: One to many FieldLengthRiskThresholds.

RiskThreshold Fields

Field	Туре	Read Only	Filterable Orderable	Description
CreateDate	dateTime	x	x	The date this risk score type was created.
CreateUser	string restricted to maxLength(2 55)	x	x	The name of the user that created the risk score type.
LastUpdate Date	dateTime	x	x	The date this risk score type was last updated.
LastUpdate User	string restricted to maxLength(2 55)	x	x	The name of the user that last updated the risk score type.
Level	int	x		The number of Risk Threshold Levels. There are between two and nine.
Name	string restricted to maxLength(4 0)		x	The name of the risk score type.
ObjectId	int		x	The unique ID generated by the system.

ThresholdT ype	string restricted to 'Probability' 'Tolerance' 'Schedule' 'Cost' 'Relative Schedule' 'Relative Cost' 'User Defined'		x	The type of Risk Threshold. Valid types are 'Probability', 'Tolerance', 'Schedule', 'Cost', 'Relative Schedule', 'Relative Cost' and 'User Defined'
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RoleTeam Service

Operations:

CreateRoleTeams Operation (on page 955) ReadRoleTeams Operation (on page 955) UpdateRoleTeams Operation (on page 955) DeleteRoleTeams Operation (on page 956) GetFieldLengthRoleTeam Operation (on page 956) AddRoles Operation (on page 956) RemoveRoles Operation (on page 957) ContainsRole Operation (on page 957) GetRoleObjectIds Operation (on page 958)

WSDL: RoleTeam.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/RoleTeam/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/RoleTeamService?wsdl https://<hostname>:<port number>/p6ws/services/RoleTeamService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.roleteam.RoleTeamService

Description:

A role team consists of roles grouped together in some way that is meaningful to you.

CreateRoleTeams Operation

Description: Creates multiple RoleTeam objects in the database. You can create up to 1000 RoleTeam objects with a single call.

Service: RoleTeam Service (on page 954)

Style: Document/literal wrapped

Input:

Message: CreateRoleTeams

Elements: RoleTeam elements that contain RoleTeam Fields (on page 958) fields

Required fields: You must supply the Name field.

Output:

Message: CreateRoleTeamsResponse Output: Zero to many ObjectId elements

ReadRoleTeams Operation

Description: Reads RoleTeam objects from the database.

Service: RoleTeam Service (on page 954)

Style: Document/literal wrapped

Input:

Message: ReadRoleTeams

Elements: One to many field names from the **RoleTeam Fields** (on page 958) field list You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadRoleTeamsResponse

Output: Zero to many RoleTeam elements that contain RoleTeam fields.

UpdateRoleTeams Operation

Description: Updates multiple RoleTeam objects in the database. You can update up to 1000 RoleTeam objects with a single call.

Service: RoleTeam Service (on page 954)

Style: Document/literal wrapped

Input:

Message: UpdateRoleTeams

Elements: RoleTeam elements that contain *RoleTeam Fields* (on page 958) fields. Required fields: The ObjectId must be specified.

Output:

Message: UpdateRoleTeamsResponse Output: boolean

DeleteRoleTeams Operation

Description: Deletes multiple RoleTeam objects in the database. You can delete up to 1000 RoleTeam objects with a single call.

Service: RoleTeam Service (on page 954)

Style: Document/literal wrapped

Input:

Message: DeleteRoleTeams Elements: One to many ObjectId elements

Output:

Message: DeleteRoleTeamsResponse Output: boolean

GetFieldLengthRoleTeam Operation

Description: Returns length of variable character fields for a BO.

Service: RoleTeam Service (on page 954)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthRoleTeam Elements: FieldLength

Output:

Message: GetFieldLengthRoleTeamResponse Elements: One to many FieldLengthRoleTeams.

AddRoles Operation

Description: Adds roles to a team.

Service: RoleTeam Service (on page 954)

Style: Document/literal wrapped Input:

Message: AddRoles Elements:

- ObjectIds
- RoleObjectIds

Output:

Message: AddRolesResponse Element: Sucess

RemoveRoles Operation

Description: Removes roles from role teams.

Service: RoleTeam Service (on page 954)

Style: Document/literal wrapped

Input:

Message: RemoveRoles Elements:

- ObjectId
- RoleObjectIds

Output:

Message: RemoveRolesResponse" Element: Success

ContainsRole Operation

Description: Returns a boolean for whether or not a role team contains a specified role.

Service: RoleTeam Service (on page 954)

Style: Document/literal wrapped

Input:

Message: ContainsRole Elements:

- ObjectId
- RoleObjectId

Output:

Message: ContainsRoleResponse Element: Success

GetRoleObjectIds Operation

Description: Gets an array of RoleObjectIds that are contained in teams.

Service: RoleTeam Service (on page 954)

Style: Document/literal wrapped

Input:

Message: GetRoleObjectIds Element: ObjectId

Output:

Message: GetRoleObjectIdsResponse Element: One to many RoleObjectIds.

RoleTeam Fields

Field	Туре	Read Only	Filterable Orderable	Description
CreateDate	dateTime	x	x	The date this role team was created.
CreateUser	string	x	x	The name of the user that created this role team.
Description	string restricted to maxLength(2 55)		x	The description of the role team.
LastUpdate Date	dateTime	x	x	The date this role team was last updated.
LastUpdate User	string	x	x	The name of the user that last updated this role team.
MemberRol e	MemberRole Type See MemberRole Type table below			

Name	string restricted to maxLength(4 0)		x	The name of the role team.
ObjectId	int		х	The unique ID generated by the system.
UserName	string restricted to maxLength(3 2)	x	x	The user's login name.
UserObjectl d	int		x	The unique ID of a specific user who has access to the selected role team.

MemberRoleType Table

Field	Туре
Id	string restricted to maxLength(20)
Name	string restricted to maxLength(100)
ObjectId	int

Spread Service

Operations:

ReadActivitySpread Operation (on page 960) ReadEPSSpread Operation (on page 974) ReadProjectSpread Operation (on page 983) ReadActivitySpreadZip Operation (on page 968) ReadActivityOrAssignmentSpreadZip Operation (on page 971) ReadWBSSpread Operation (on page 991) ReadProjectResourceSpread Operation (on page 999) ReadCBSResourceSpread Operation (on page 1006) ReadCBSExpenseSpread Operation (on page 1010) ReadProjectRoleSpread Operation (on page 1012) ReadWBSExpenseSpread Operation (on page 1023) ReadWBSResourceSpread Operation (on page 1023) ReadWBSRoleSpread Operation (on page 1025) ReadResourceAssignmentSpread Operation (on page 1030) ReadResourceAssignmentSpreadZip Operation (on page 1035) UpdateResourceAssignmentSpread Operation (on page 1037)

WSDL: Spread.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/Spread/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/SpreadService?wsdl https://<hostname>:<port number>/p6ws/services/SpreadService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.spread.SpreadService

Description:

You use the Spread service to read time-phased unit and cost data. This enables you to track resource usage and availability. There are two primary types of spreads: Summarized and Live. Summarized spreads are based on the data calculated during the last time the Summarizer job service ran on the particular EPS or Project being accessed. Summarized spreads include EPS, project, WBS, project resource, and project role spreads. Live spreads do not have a dependency on the Summarizer job service and are always calculated from the current data. Live spreads include activity spreads and resource assignment spreads.

ReadActivitySpread Operation

Description: Reads the live activity spread data from the specified activities.

Service: Spread Service (on page 959)

Style: Document/literal wrapped

Input:

Message: ReadActivitySpread Elements:

Field ActivityObjectId	Type int	Description The unique identifier for the activity. You can specify one or more ActivityObjectIds.
PeriodType	SpreadPeriodType string restricted to Hour Day Week Month Quarter Year FinancialPeriod	Spread period type enumerations are used to specify the spread interval for EPS, project, WBS, Activity, and resource assignment spreads.
StartDate	dateTime	The start of the time period that you are interested in.
EndDate	dateTime	The end of the time period that you are interested in.
IncludeCumulative	boolean	Set IncludeCumulative to true to read cumulative spread data.
SpreadField	ActivitySpreadFieldType string restricted to ActualCost ActualExpenseCost ActualLaborCost ActualLaborUnits	The fields you want to include in the spread. Specify one to many SpreadField elements.

ActualMaterialCost	
ActualNonLaborCost	
ActualNonLaborUnits	
ActualTotalCost	
AtCompletionExpenseCost	
AtCompletionLaborCost	
AtCompletionLaborUnits	
AtCompletionMaterialCost	
AtCompletionNonLaborCost	
AtCompletionNonLaborUnits	
AtCompletionTotalCost	
Baseline1ActualExpenseCost	
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BaselineActualLaborUnits	
BaselineActualMaterialCost	
BaselineActualNonLaborCost	
BaselineActualNonLaborUnits	
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s	
RemainingLateTotalCost	

Output:

Message: ReadActivitySpreadResponse

Elements: One to many ActivitySpread elements that contain the following fields:

Field	Туре	Description
ActivityId	string	The short ID that uniquely identifies the activity.

ActivityObjectId	int	The unique identifier for the activity.
StartDate	dateTime	The start date of spread data.
EndDate	dateTime	The end date of the spread data.
PeriodType	SpreadPeriodType string restricted to Hour Day Week Month Quarter Year FinancialPeriod	Specifies the spread interval for the Activity.
Period	ActivitySpreadPeriod StartDate EndDate ActualCost ActualCost ActualExpenseCost ActualLaborCost ActualLaborUnits ActualMaterialCost ActualNonLaborCost ActualNonLaborCost ActualTotalCost AtCompletionExpenseCost AtCompletionLaborCost AtCompletionLaborCost AtCompletionLaborUnits AtCompletionMaterialCost AtCompletionNonLaborCost AtCompletionNonLaborCost AtCompletionNonLaborUnits AtCompletionNonLaborUnits AtCompletionTotalCost	One or more ActivitySpreadPeriods that contain the live activity spread data for the period. Contains StartDate, EndDate, and one or more instances of the following data:

Baseline1ActualKapenseCost Baseline1ActualNonLaborCost Baseline1ActualLaborCost Baseline1ActualLaborCost Baseline1ActualLaborUnits Baseline1PlannedExpenseCost Baseline1PlannedLaborUnits Baseline1PlannedLaborUnits Baseline1PlannedLaborUnits Baseline1PlannedNonLaborCost Baseline1PlannedNonLaborUnits Baseline1PlannedTotalCost BaselineActualExpenseCost BaselineActualLaborCost BaselineActualLaborCost BaselineActualLaborCost BaselineActualLaborCost BaselineActualLaborCost BaselineActualLaborCost BaselineActualLaborCost BaselineActualNonLaborUnits BaselineActualNonLaborCost BaselineActualNonLaborCost BaselineActualNonLaborCost BaselineActualNonLaborCost BaselineActualNonLaborCost BaselineActualNonLaborCost BaselineActualNonLaborCost BaselinePlannedExpenseCost BaselinePlannedLaborCost BaselinePlannedLaborCost BaselinePlannedLaborCost BaselinePlannedLaborCost BaselinePlannedLaborCost BaselinePlannedLaborUnits BaselinePlannedLaborUnits BaselinePlannedCost EarnedValueLaborUnits BaselinePlannedTotalCost EarnedValueLaborUnits BaselinePlannedTotalCost EarnedValueLaborUnits BaselinePlannedTotalCost EarnedValueLaborUnits BaselinePlannedTotalCost EarnedValueCost EarnedValueLaborUnits PlannedLaborCost PlannedLaborCost PlannedLaborCost PlannedLaborCost PlannedMaterialCost PlannedMonLaborUnits PlannedMonLaborUnits PlannedMonLaborCost PlannedNonLaborCost PlannedNonLaborCost PlannedNonLaborCost PlannedNonLaborCost PlannedNonLaborCost PlannedNonLaborCost PlannedNonLaborCost PlannedNonLaborCost PlannedNonLaborCost PlannedNonLaborCost PlannedNonLaborCost PlannedNonLaborCost
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BaselinePlannedMaterialCost BaselinePlannedNonLaborCost BaselinePlannedNonLaborUnits BaselinePlannedTotalCost EarnedValueCost EarnedValueLaborUnits EstimateAtCompletionCost EstimateAtCompletionLaborUnits EstimateToCompleteCost EstimateToCompleteLaborUnits PlannedExpenseCost PlannedLaborCost PlannedLaborUnits PlannedMaterialCost PlannedMaterialCost PlannedNonLaborCost PlannedNonLaborUnits
BaselinePlannedNonLaborCost BaselinePlannedNonLaborUnits BaselinePlannedTotalCost EarnedValueCost EarnedValueLaborUnits EstimateAtCompletionCost EstimateAtCompletionLaborUnits EstimateToCompleteCost EstimateToCompleteLaborUnits PlannedExpenseCost PlannedLaborCost PlannedLaborUnits PlannedMaterialCost PlannedMaterialCost PlannedNonLaborCost PlannedNonLaborUnits
BaselinePlannedNonLaborUnits BaselinePlannedTotalCost EarnedValueCost EarnedValueLaborUnits EstimateAtCompletionCost EstimateAtCompletionLaborUnits EstimateToCompleteCost EstimateToCompleteLaborUnits PlannedExpenseCost PlannedLaborCost PlannedLaborUnits PlannedMaterialCost PlannedMaterialCost PlannedNonLaborCost PlannedNonLaborUnits
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EarnedValueCost EarnedValueLaborUnits EstimateAtCompletionCost EstimateAtCompletionLaborUnits EstimateToCompleteCost EstimateToCompleteLaborUnits PlannedExpenseCost PlannedLaborCost PlannedLaborUnits PlannedMaterialCost PlannedMonLaborCost PlannedNonLaborUnits
EarnedValueLaborUnits EstimateAtCompletionCost EstimateAtCompletionLaborUnits EstimateToCompleteCost EstimateToCompleteLaborUnits PlannedExpenseCost PlannedLaborCost PlannedLaborUnits PlannedMaterialCost PlannedNonLaborCost PlannedNonLaborUnits
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PlannedNonLaborUnits
PlannedValueCost
PlannedValueLaborUnits
RemainingExpenseCost
RemainingLaborCost
RemainingLaborUnits
RemainingMaterialCost
RemainingNonLaborCost
RemainingNonLaborUnits
RemainingTotalCost

RemainingLateExpenseCost	
RemainingLateLaborCost	
RemainingLateLaborUnits	
RemainingLateMaterialCost	
RemainingLateNonLaborCost	
RemainingLateNonLaborUnits	
RemainingLateTotalCost	
CumulativeActualCost	
CumulativeActualExpenseCost	
CumulativeActualLaborCost	
CumulativeActualLaborUnits	
CumulativeActualMaterialCost	
CumulativeActualNonLaborCost	
CumulativeActualNonLaborUnits	
CumulativeActualTotalCost	
CumulativeAtCompletionExpenseCost	
CumulativeAtCompletionLaborCost	
CumulativeAtCompletionLaborUnits	
CumulativeAtCompletionMaterialCost	
CumulativeAtCompletionNonLaborCost	
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CumulativeBaseline1PlannedTotalCost	
CumulativeBaselineActualExpenseCost	
CumulativeBaselineActualLaborCost	
CumulativeBaselineActualLaborUnits	
CumulativeBaselineActualMaterialCost	
CumulativeBaselineActualNonLaborCost	
CumulativeBaselineActualNonLaborUnits	
CumulativeBaselineActualTotalCost	

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CumulativeBaselinePlannedExpenseCos	
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CumulativeBaselinePlannedLaborCost	
CumulativeBaselinePlannedLaborUnits	
CumulativeBaselinePlannedMaterialCost	
CumulativeBaselinePlannedNonLaborCo	
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CumulativeBaselinePlannedNonLaborUni	
ts	
CumulativeBaselinePlannedTotalCost	
CumulativeEarnedValueCost	
CumulativeEarnedValueLaborUnits	
CumulativeEstimateAtCompletionCost	
CumulativeEstimateAtCompletionLaborU	
nits	
CumulativeEstimateToCompleteCost	
CumulativeEstimateToCompleteLaborUni	
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CumulativePlannedExpenseCost	
CumulativePlannedLaborCost	
CumulativePlannedLaborUnits	
CumulativePlannedMaterialCost	
CumulativePlannedNonLaborCost	
CumulativePlannedNonLaborUnits	
CumulativePlannedTotalCost	
CumulativePlannedValueCost	
CumulativePlannedValueLaborUnits	
CumulativeRemainingExpenseCost	
CumulativeRemainingLaborCost	
CumulativeRemainingLaborUnits	
CumulativeRemainingMaterialCost	
CumulativeRemainingNonLaborCost	
CumulativeRemainingNonLaborUnits	
CumulativeRemainingTotalCost	
CumulativeRemainingLateExpenseCost	
CumulativeRemainingLateLaborCost	
CumulativeRemainingLateLaborUnits	
CumulativeRemainingLateMaterialCost	
CumulativeRemainingLateNonLaborCost	
CumulativeRemainingLateNonLaborUnits	
CumulativeRemainingLateTotalCost	

ReadActivitySpreadZip Operation

Description: Reads the live activity spread data from the specified activities and exports the data to a compressed zip file.

Service: Spread Service (on page 959)

Style: Document/literal wrapped

Input:

Message: ReadActivitySpreadZip Elements:

Field	Туре	Description
ActivityObjectId	int	The unique identifier for the activity. You can specify one or more
		ActivityObjectIds.
	SpreadPeriodType	
PeriodType	string restricted to Hour Day Week Month Quarter Year FinancialPeriod	Spread period type enumerations are used to specify the spread interval for EPS, project, WBS, Activity, and resource assignment spreads.
StartDate	dateTime	The start of the time period that you are interested in.
EndDate	dateTime	The end of the time period that you are interested in.
IncludeCumulative	boolean	Set IncludeCumulative to true to

	1	
		read cumulative spread data.
	ActivitySpreadFieldType	The fields you want to include in
	string restricted to ActualCost ActualExpenseCost ActualLaborCost ActualLaborUnits ActualMaterialCost ActualMaterialCost ActualNonLaborCost ActualNonLaborUnits ActualTotalCost AtCompletionExpenseCost AtCompletionLaborCost AtCompletionMaterialCost AtCompletionMaterialCost AtCompletionNonLaborCost AtCompletionNonLaborCost AtCompletionNonLaborCost AtCompletionNonLaborCost AtCompletionNonLaborUnits AtCompletionNonLaborCost AtCompletionTotalCost Baseline1ActualExpenseCost	
SpreadField	Baseline1ActualLaborCost Baseline1ActualLaborUnits	the spread. Specify one to many SpreadField elements.
	Baseline1ActualMaterialCost Baseline1ActualNonLaborCos	
	Baseline1ActualNonLaborUnit	
	Baseline1ActualTotalCost Baseline1PlannedExpenseCo	
	st Baseline1PlannedLaborCost Baseline1PlannedLaborUnits Baseline1PlannedMaterialCo	
	st Baseline1PlannedNonLaborC ost	
	Baseline1PlannedNonLaborU nits	
	Baseline1PlannedTotalCost BaselineActualExpenseCost	
	BaselineActualLaborCost BaselineActualLaborUnits	
	BaselineActualMaterialCost BaselineActualNonLaborCost	

BaselineActualNonLaborUnits	
BaselineActualTotalCost	
BaselinePlannedExpenseCos	
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BaselinePlannedLaborCost	
BaselinePlannedLaborUnits	
BaselinePlannedMaterialCost	
BaselinePlannedNonLaborCo	
st	
BaselinePlannedNonLaborUn	
its	
BaselinePlannedTotalCost	
EarnedValueCost	
EarnedValueLaborUnits	
EstimateAtCompletionCost	
EstimateAtCompletionLaborU	
EstimateToCompleteCost	
its	
PlannedExpenseCost	
PlannedLaborCost	
PlannedLaborUnits	
PlannedMaterialCost	
PlannedNonLaborCost	
PlannedNonLaborUnits	
PlannedTotalCost	
PlannedValueCost	
PlannedValueLaborUnits	
RemainingExpenseCost	
RemainingLaborCost	
RemainingLaborUnits	
RemainingMaterialCost	
RemainingNonLaborCost	
RemainingNonLaborUnits	
RemainingTotalCost	
RemainingLateExpenseCost	
RemainingLateLaborCost	
RemainingLateLaborUnits	
RemainingLateMaterialCost	
RemainingLateNonLaborCost	
RemainingLateNonLaborUnit	
S	
RemainingLateTotalCost	
1	

Output:

Message: ReadActivitySpreadZipResponse

ReadActivityOrAssignmentSpreadZip Operation

Description: Reads the live activity or assignment spread data from the specified project and exports the data to a compressed zip file.

Service: Spread Service (on page 959)

Style: Document/literal wrapped

Input:

Message: ReadActivityOrAssignmentSpreadZip Elements:

Field	Туре	Description
ProjectObjectId	int	The unique identifier for the project.
Туре	string restricted to ResourceAssignment Activity	The type of data held by the record.
PeriodType	SpreadPeriodType string restricted to Hour Day Week Month Quarter Year FinancialPeriod	Spread period type enumerations are used to specify the spread interval for EPS, project, WBS, Activity, and resource assignment spreads.
StartDate	dateTime	The start of the time period that you are interested in.

EndDate	dateTime	The end of the time period that you are interested in.
IncludeCumulative	boolean	Set IncludeCumulative to true to read cumulative spread data.
ActivitySpreadField	ActivitySpreadFieldType string restricted to ActualCost ActualExpenseCost ActualLaborCost ActualLaborUnits ActualMaterialCost ActualNonLaborCost ActualNonLaborUnits ActualNonLaborUnits ActualTotalCost AtCompletionLaborCost AtCompletionLaborCost AtCompletionMaterialCost AtCompletionNonLaborCost AtCompletionNonLaborCost AtCompletionNonLaborUnits AtCompletionTotalCost Baseline1ActualExpenseCost Baseline1ActualLaborCost Baseline1ActualMaterialCost Baseline1ActualNonLaborCost Baseline1ActualNonLaborCost Baseline1ActualNonLaborCost Baseline1ActualNonLaborCost Baseline1ActualNonLaborCost Baseline1ActualNonLaborCost Baseline1ActualNonLaborCost Baseline1ActualNonLaborCost Baseline1ActualNonLaborCost Baseline1PlannedExpenseCo st Baseline1PlannedLaborCost Baseline1PlannedLaborCost	The fields you want to include in the spread. Specify one to many ActivitySpreadField elements.
	Baseline1PlannedMaterialCo st Baseline1PlannedNonLaborC ost Baseline1PlannedNonLaborU nits Baseline1PlannedTotalCost	

BaselineActualExpenseCost	
BaselineActualLaborCost	
BaselineActualLaborUnits	
BaselineActualMaterialCost	
BaselineActualNonLaborCost	
BaselineActualNonLaborUnits	
BaselineActualTotalCost	
BaselinePlannedExpenseCos	
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BaselinePlannedLaborCost	
BaselinePlannedLaborUnits	
BaselinePlannedMaterialCost	
BaselinePlannedNonLaborCo	
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BaselinePlannedNonLaborUn	
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BaselinePlannedTotalCost	
EarnedValueCost	
EarnedValueLaborUnits	
EstimateAtCompletionCost	
EstimateAtCompletionLaborU	
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EstimateToCompleteCost	
EstimateToCompleteLaborUn	
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PlannedExpenseCost	
PlannedLaborCost	
PlannedLaborUnits	
PlannedMaterialCost	
PlannedNonLaborCost	
PlannedNonLaborUnits	
PlannedTotalCost	
PlannedValueCost	
PlannedValueLaborUnits	
RemainingExpenseCost	
RemainingLaborCost	
RemainingLaborUnits	
RemainingMaterialCost	
RemainingNonLaborCost	
RemainingNonLaborUnits	
RemainingTotalCost	
RemainingLateExpenseCost	
RemainingLateLaborCost	
RemainingLateLaborUnits	
RemainingLateMaterialCost	
RemainingLateNonLaborCost	
RemainingLateNonLaborUnit	
s	
RemainingLateTotalCost	

ResourceAssignm entSpreadField	ResourceAssignmentSpreadF ieldType string restricted to ActualCost ActualOvertimeCost ActualOvertimeUnits ActualRegularCost ActualRegularUnits ActualRegularUnits ActualUnits AtCompletionCost AtCompletionUnits PlannedCost PlannedCost PlannedUnits RemainingLateCost RemainingLateUnits RemainingUnits StaffedRemainingLateCost StaffedRemainingLateCost StaffedRemainingLateCost StaffedRemainingLateCost UnstaffedRemainingLateCost UnstaffedRemainingLateCost UnstaffedRemainingLateCost UnstaffedRemainingLateCost UnstaffedRemainingLateCost UnstaffedRemainingLateCost UnstaffedRemainingLateCost UnstaffedRemainingLateCost UnstaffedRemainingLateCost	The fields you want to include in the spread. Specify one to many ResourceAssignmentSpreadField elements.

Message: ReadActivityOrAssignmentSpreadZipResponse

ReadEPSSpread Operation

Description: Reads the summarized spread data from the specified EPS objects.

Service: Spread Service (on page 959)

Style: Document/literal wrapped

Input:

Message: ReadEPSSpread Elements:

Field	Туре	Description
EPSObjectId	int	The unique identifier for the EPS. You can specify one or more EPSObjectIds.
PeriodType	SummarizedSpreadPeriodTyp e string restricted to Week Month Quarter Year FinancialPeriod Day	Spread period type enumerations are used to specify the spread interval for EPS, project, WBS, Activity, and resource assignment spreads.
StartDate	dateTime	The start of the time period that you are interested in.
EndDate	dateTime	The end of the time period that you are interested in.
IncludeCumulative	boolean	Set IncludeCumulative to true to read cumulative spread data.
SpreadField	SummarizedSpreadFieldType string restricted to	The fields you want to include in the spread. Specify one to many SpreadField elements.

ActualCost	
ActualExpenseCost	
ActualLaborCost	
ActualLaborUnits	
ActualMaterialCost	
ActualNonlaborCost	
ActualNonlaborUnits	
ActualTotalCost	
AtCompletionExpenseCost	
AtCompletionLaborCost	
AtCompletionLaborUnits	
AtCompletionMaterialCost	
AtCompletionNonlaborCost	
AtCompletionNonlaborUnits	
AtCompletionTotalCost	
BaselinePlannedExpenseCost	
BaselinePlannedLaborCost	
BaselinePlannedLaborUnits	
BaselinePlannedMaterialCost	
BaselinePlannedNonlaborCost	
BaselinePlannedNonlaborUnit	
S	
BaselinePlannedTotalCost	
EarnedValueCost	
EarnedValueLaborUnits	
EstimateAtCompletionCost	
EstimateAtCompletionLaborU	
nits	
EstimateToCompleteCost	
EstimateToCompleteLaborUnit	
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S PeriodActualCost	
PeriodActualExpenseCost PeriodActualLaborCost	
PeriodActualMaterialCost	
PeriodActualNonLaborCost	
PeriodActualNonLaborUnits	
PeriodAtCompletionExpenseC	
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PeriodAtCompletionLaborCost	
PeriodAtCompletionLaborUnit	
S	
PeriodAtCompletionMaterialC	
ost	
PeriodAtCompletionNonLabor	
Cost	
PeriodAtCompletionNonLabor	
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PeriodAtCompletionTotalCost	
PeriodEarnedValueCost	
PeriodEarnedValueLaborUnits	
PeriodEstimateAtCompletionC	
ost	
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aborUnits	
PeriodPlannedValueCost	
PeriodPlannedValueLaborUnit	
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PlannedExpenseCost	
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PlannedLaborUnits	
PlannedMaterialCost	
PlannedNonlaborCost	
PlannedNonlaborUnits	
PlannedTotalCost	
PlannedValueCost	
PlannedValueLaborUnits	
RemainingExpenseCost	
RemainingLaborCost	
RemainingLaborUnits	
RemainingMaterialCost	
RemainingNonlaborCost	
RemainingNonlaborUnits	
RemainingTotalCost	
RemainingLateExpenseCost	
RemainingLateLaborCost	
RemainingLateLaborUnits	
RemainingLateMaterialCost	
RemainingLateNonlaborCost	
RemainingLateNonlaborUnits	
RemainingLateTotalCost	
5	

Message: ReadEPSSpreadResponse

Elements: One to many EPSSpread elements that contain the following fields:

Field	Туре	Description
EPSId	String	The short code assigned to each EPS element for

		identification.
EPSObjectId	int	The unique identifier of the EPS
StartDate	dateTime	The start date of spread data.
EndDate	dateTime	The end date of the spread data
PeriodType	SummarizedSpreadPeriodType string restricted to Week Month Quarter Year FinancialPeriod Day	Specifies the spread interval for the EPS.
Period	SummarizedSpreadPeriod StartDate EndDate ActualCost ActualExpenseCost ActualLaborCost ActualLaborUnits ActualMaterialCost ActualNonlaborCost ActualNonlaborCost ActualTotalCost AtCompletionExpenseCost AtCompletionLaborCost AtCompletionLaborUnits AtCompletionMaterialCost AtCompletionNonlaborCost AtCompletionNonlaborCost AtCompletionNonlaborCost AtCompletionNonlaborCost AtCompletionNonlaborCost	One or more SummarizedSpreadP eriods that contain the live activity spread data for the period. Contains the StartDate, EndDate, and one or more instances of the following data:

BaselinePlannedExpenseCost	
BaselinePlannedLaborCost	
BaselinePlannedLaborUnits	
BaselinePlannedMaterialCost	
BaselinePlannedNonlaborCost	
BaselinePlannedNonlaborUnits	
BaselinePlannedTotalCost	
EarnedValueCost	
EarnedValueLaborUnits	
EstimateAtCompletionCost	
EstimateAtCompletionLaborUnit	
S	
EstimateToCompleteCost	
EstimateToCompleteLaborUnits	
PlannedExpenseCost	
PlannedLaborCost	
PlannedLaborUnits	
PlannedMaterialCost	
PlannedNonlaborCost	
PlannedNonlaborUnits	
PlannedTotalCost	
PlannedValueCost	
PlannedValueLaborUnits	
RemainingExpenseCost	
RemainingLaborCost	
RemainingLaborUnits	
RemainingMaterialCost	
RemainingNonlaborCost	
RemainingNonlaborUnits	
RemainingTotalCost	
RemainingLateExpenseCost	
RemainingLateLaborCost	
RemainingLateLaborUnits	
RemainingLateMaterialCost	
RemainingLateNonlaborCost	
RemainingLateNonlaborUnits	
RemainingLateTotalCost	
PeriodActualCost	
PeriodActualExpenseCost	
PeriodActualLaborCost	
PeriodActualLaborUnits	
PeriodActualMaterialCost	
PeriodActualNonLaborCost	
PeriodActualNonLaborUnits	
PeriodAtCompletionExpenseCo	
st	
PeriodAtCompletionLaborCost	
PeriodAtCompletionLaborUnits	
PeriodAtCompletionMaterialCos	
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t PeriodAtCompletionNonLaborC	
ost	
PeriodAtCompletionNonLaborU nits	
PeriodAtCompletionTotalCost	
PeriodEarnedValueCost	
PeriodEarnedValueLaborUnits	
PeriodEstimateAtCompletionCo	
st Deried Estimate At Completion Lo	
PeriodEstimateAtCompletionLa borUnits	
PeriodPlannedValueCost	
PeriodPlannedValueLaborUnits	
CumulativeActualExpenseCost CumulativeActualLaborCost	
CumulativeActualLaborCost	
CumulativeActualMaterialCost	
CumulativeActualNonlaborCost	
CumulativeActualNonlaborUnits	
CumulativeActualTotalCost	
CumulativeAtCompletionExpens	
eCost	
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CumulativeAtCompletionLaborU	
nits	
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orCost	
CumulativeAtCompletionNonlab	
orUnits	
ost CumulativeBaselinePlannedExp	
enseCost	
CumulativeBaselinePlannedLab	
orCost	
CumulativeBaselinePlannedLab	
orUnits	
CumulativeBaselinePlannedMat erialCost	
CumulativeBaselinePlannedNon	
laborCost	
CumulativeBaselinePlannedNon	
laborUnits	
CumulativeBaselinePlannedTot	

alCost	
CumulativeEarnedValueCost	
CumulativeEarnedValueLaborU	
nits	
CumulativeEstimateAtCompletio	
nCost	
CumulativeEstimateAtCompletio	
nLaborUnits	
CumulativeEstimateToComplete Cost	
CumulativeEstimateToComplete	
LaborUnits	
CumulativePlannedExpenseCos	
t a ha bha a h	
CumulativePlannedLaborCost	
CumulativePlannedMaterialCost	
CumulativePlannedNonlaborCo st	
CumulativePlannedNonlaborUni	
ts	
CumulativePlannedTotalCost	
CumulativePlannedValueCost	
CumulativePlannedValueLabor	
Units	
CumulativePeriodActualCost	
CumulativePeriodActualExpens	
eCost	
CumulativePeriodActualLaborC	
ost	
CumulativePeriodActualLaborU nits	
CumulativePeriodActualMaterial	
Cost	
CumulativePeriodActualNonLab	
orCost	
CumulativePeriodActualNonLab	
orUnits	
CumulativePeriodAtCompletion	
ExpenseCost	
CumulativePeriodAtCompletion	
LaborCost	
CumulativePeriodAtCompletion	
CumulativePeriodAtCompletion MaterialCost	
NonLaborCost	

Cumulativ NonLabor	ePeriodAtCompletion
	ePeriodAtCompletion
TotalCost	
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ost	
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aborUnits	ePeriodEstimateAtCo
mpletionC	
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mpletionL	
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	rePeriodPlannedValue
LaborUnit	
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	eRemainingLaborCost
	eRemainingLaborUnit
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ost	
	eRemainingNonlabor
Cost	eRemainingNonlabor
Units	
	eRemainingTotalCost
	eRemainingLateExpe
nseCost	
	eRemainingLateLabor
Cost	
Units	eRemainingLateLabor
	eRemainingLateMater
ialCost	
	eRemainingLateNonla
borCost	.
	eRemainingLateNonla
borUnits	
	eRemainingLateTotal
Cost	

ReadProjectSpread Operation

Description: Reads the summarized spreads for the specified projects.

Service: Spread Service (on page 959)

Style: Document/literal wrapped

Input:

Message: ReadProjectSpread Elements:

Field	Туре	Description
ProjectObjectId	int	The unique identifier for the project. You can specify one or more ProjectObjectIds.
PeriodType	SummarizedSpreadPerio dType string restricted to Week Month Quarter Year FinancialPeriod Day	Spread period type enumerations are used to specify the spread interval for EPS, project, WBS, Activity, and resource assignment spreads.
StartDate	dateTime	The start of the time period that you are interested in.
EndDate	dateTime	The end of the time period that you are interested in
IncludeCumulative	boolean	Set IncludeCumulative to true to read cumulative spread data.

PeriodActualCost	
PeriodActualExpenseCost	
PeriodActualLaborCost	
PeriodActualLaborUnits	
PeriodActualMaterialCost	
PeriodActualNonLaborCo	
st	
PeriodActualNonLaborUni	
ts	
PeriodAtCompletionExpe	
nseCost	
PeriodAtCompletionLabor	
Cost	
PeriodAtCompletionLabor	
Units	
PeriodAtCompletionMater	
ialCost	
PeriodAtCompletionNonL	
aborCost	
PeriodAtCompletionNonL	
aborUnits	
PeriodAtCompletionTotal	
Cost	
PeriodEarnedValueCost	
PeriodEarnedValueLabor	
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PeriodEstimateAtComplet	
ionCost	
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ionLaborUnits	
PeriodPlannedValueCost	
PeriodPlannedValueLabo	
rUnits	
PlannedExpenseCost	
PlannedLaborCost	
PlannedLaborUnits	
PlannedMaterialCost	
PlannedNonlaborCost	
PlannedNonlaborUnits	
PlannedTotalCost	
PlannedValueCost	
PlannedValueLaborUnits	
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RemainingLaborUnits	
RemainingMaterialCost	
RemainingNonlaborCost	
RemainingNonlaborUnits	
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st RemainingLateNonlaborC ost RemainingLateNonlaborU nits RemainingLateTotalCost

Message: ReadProjectSpreadResponse

Elements: One to many ProjectSpread elements that contain the following fields:

		<u> </u>
Field	Туре	Description
ProjectId	string	The short code that is assigned to the project.
ProjectObjectId	int	The unique identifier of the project.
StartDate	dateTime	The start date of spread data.
EndDate	dateTime	The end date of the spread data.
PeriodType	SummarizedSpreadPerio dType string restricted to Week Month Quarter	Specifies the spread interval for the EPS.

Day SummarizedSpreadPerio d SummarizedSpreadPerio d StartDate EndDate ActualCost ActualLaborCost ActualLaborUnits ActualLaborUnits ActualLaborUnits ActualNonlaborCost ActualNonlaborCost ActualTotalCost AtCompletionLaborCost AtCompletionNonlaborUnits AtCompletionNonlaborUnits AtCompletionNonlaborUnits AtCompletionNonlaborUnits AtCompletionNonlaborUnits AtCompletionNonlaborUnits AtCompletionNonlaborUnits BaselinePlannedLaborCost BaselinePlannedLaborUnits BaselinePlannedLaborUnits BaselinePlannedLaborUnits BaselinePlannedLaborUnits BaselinePlannedLaborUnits BaselinePlannedNonlabo rCost BaselinePlannedNonlabo rUnits BaselinePlannedNonlabo rUnits BaselinePlannedNonlabo One or more SummarizedSpreadPeriods SummarizedSpreadPeriods SummarizedSpreadPeriods SummarizedSpreadPeriods that contain the live activity spread data for the period. Contains the StartDate, EndDate, and one or more instances of the following data:
EarnedValueLaborUnits

EstimateToCompleteCost	
EstimateToCompleteLab	
orUnits	
PlannedExpenseCost	
PlannedLaborCost	
PlannedLaborUnits	
PlannedMaterialCost	
PlannedNonlaborCost	
PlannedNonlaborUnits	
PlannedTotalCost	
PlannedValueCost	
PlannedValueLaborUnits	
RemainingExpenseCost	
RemainingLaborCost	
RemainingLaborUnits	
RemainingMaterialCost	
RemainingNonlaborCost	
RemainingNonlaborUnits	
RemainingTotalCost	
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RemainingLateLaborCost	
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RemainingLateNonlabor	
Cost	
RemainingLateNonlabor	
Units	
RemainingLateTotalCost	
PeriodActualCost	
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PeriodActualLaborCost	
PeriodActualLaborUnits	
PeriodActualMaterialCost	
PeriodActualNonLaborCo	
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PeriodAtCompletionLabor	
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PeriodAtCompletionNonL	
aborUnits	
PeriodAtCompletionTotal	
Cost	
PeriodEarnedValueCost	
PeriodEarnedValueLabor	
Units	
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ionCost	
PeriodEstimateAtComplet	
ionLaborUnits	
PeriodPlannedValueCost	
PeriodPlannedValueLabo	
rUnits	
CumulativeActualCost	
CumulativeActualExpens	
eCost	
CumulativeActualLaborC	
ost	
CumulativeActualLaborU	
nits	
CumulativeActualMaterial	
Cost	
CumulativeActualNonlab	
orCost	
CumulativeActualNonlab	
orUnits	
CumulativeActualTotalCo	
st	
CumulativeAtCompletion	
ExpenseCost	
CumulativeAtCompletion	
LaborCost	
CumulativeAtCompletion	
LaborUnits	
CumulativeAtCompletion	
MaterialCost	
CumulativeAtCompletion	
NonlaborCost	
CumulativeAtCompletion	
NonlaborUnits	
CumulativeAtCompletion	
TotalCost	
CumulativeBaselinePlann	
edExpenseCost	
CumulativeBaselinePlann	
 edLaborCost	

CumulativeBaselinePlann	
edLaborUnits	
CumulativeBaselinePlann	
edMaterialCost	
CumulativeBaselinePlann	
edNonlaborCost	
CumulativeBaselinePlann	
edNonlaborUnits	
CumulativeBaselinePlann	
edTotalCost	
CumulativeEarnedValue	
Cost	
CumulativeEarnedValueL	
aborUnits	
CumulativeEstimateAtCo	
mpletionCost	
CumulativeEstimateAtCo	
mpletionLaborUnits	
CumulativeEstimateToCo	
mpleteCost	
CumulativeEstimateToCo	
mpleteLaborUnits	
CumulativePlannedExpe	
nseCost	
CumulativePlannedLabor	
Cost	
CumulativePlannedLabor	
Units	
CumulativePlannedMateri	
alCost	
CumulativePlannedNonla	
borCost	
CumulativePlannedNonla	
borUnits	
CumulativePlannedTotal	
Cost	
CumulativePlannedValue	
Cost	
CumulativePlannedValue	
LaborUnits	
CumulativeRemainingEx	
penseCost	
CumulativeRemainingLab	
orCost	
CumulativeRemainingLab	
orUnits	
CumulativeRemainingMat	
erialCost	
CumulativeRemainingNo	
grto	

nlaborCost	
CumulativeRemainingNo	
nlaborUnits	
CumulativeRemainingTot	
alCost	
CumulativeRemainingLat	
eExpenseCost	
CumulativeRemainingLat	
eLaborCost	
CumulativeRemainingLat	
eLaborUnits	
CumulativeRemainingLat	
eMaterialCost	
CumulativeRemainingLat	
eNonlaborCost	
CumulativeRemainingLat	
eNonlaborUnits	
CumulativeRemainingLat	
eTotalCost	

ReadWBSSpread Operation

Description: Reads the summarized WBS spread data for the specified WBS spread.

Service: Spread Service (on page 959)

Style: Document/literal wrapped

Input:

Message: ReadWBSSpread Elements:

Field	Туре	Description
WBSObjectId	int	The unique identifier for the WBS You can specify one or more WBSObjectIds.
PeriodType	SummarizedSpreadPeri odType	Spread period type enumerations are used to specify the spread interval for

	string restricted to Week Month Quarter Year FinancialPeriod Day	EPS, project, WBS, Activity, and resource assignment spreads.
StartDate	dateTime	The start of the time period that you are interested in.
EndDate	dateTime	The end of the time period that you are interested in.
IncludeCumulative	boolean	Set IncludeCumulative to true to read cumulative spread data.
SpreadField	SummarizedSpreadFiel dType string restricted to ActualCost ActualExpenseCost ActualLaborCost ActualLaborUnits ActualMaterialCost ActualNonlaborUnits ActualNonlaborUnits ActualNonlaborUnits ActualTotalCost AtCompletionExpenseC ost AtCompletionLaborCost AtCompletionLaborUnit s AtCompletionMaterialC ost AtCompletionMaterialC ost AtCompletionNonlabor Cost AtCompletionNonlabor	The fields you want to include in the spread. Specify one to many SpreadField elements.

Units	
AtCompletionTotalCost	
BaselinePlannedExpen	
seCost	
BaselinePlannedLabor	
Cost	
BaselinePlannedLabor	
Units	
BaselinePlannedMateri	
alCost	
BaselinePlannedNonla	
borCost	
BaselinePlannedNonla	
borUnits	
BaselinePlannedTotalC	
ost	
EarnedValueCost	
EarnedValueLaborUnits	
EstimateAtCompletionC	
ost	
EstimateAtCompletionL	
aborUnits	
EstimateToCompleteCo	
st	
EstimateToCompleteLa	
borUnits	
PeriodActualCost	
PeriodActualExpenseC	
ost	
PeriodActualLaborCost	
PeriodActualLaborUnits	
PeriodActualMaterialCo	
st	
PeriodActualNonLabor	
Cost	
PeriodActualNonLabor	
Units	
PeriodAtCompletionExp	
enseCost	
PeriodAtCompletionLab	
orCost	
PeriodAtCompletionLab	
orUnits	
PeriodAtCompletionMat	
erialCost	
PeriodAtCompletionNo	
nLaborCost	
PeriodAtCompletionNo	
nLaborUnits	

,	
PeriodAtCompletionTot	
alCost	
PeriodEarnedValueCos	
t	
PeriodEarnedValueLab	
orUnits	
PeriodEstimateAtCompl	
etionCost	
PeriodEstimateAtCompl	
etionLaborUnits	
PeriodPlannedValueCo	
st	
PeriodPlannedValueLa	
borUnits	
PlannedExpenseCost	
PlannedLaborCost	
PlannedLaborUnits	
PlannedMaterialCost	
PlannedNonlaborCost	
PlannedNonlaborUnits	
PlannedTotalCost	
PlannedValueCost	
PlannedValueLaborUnit	
S	
RemainingExpenseCos	
t	
RemainingLaborCost	
RemainingLaborUnits	
RemainingMaterialCost	
RemainingNonlaborCos	
t	
RemainingNonlaborUnit	
S	
RemainingTotalCost	
RemainingLateExpense	
Cost	
RemainingLateLaborCo	
st	
RemainingLateLaborUn	
its	
RemainingLateMaterial	
Cost	
RemainingLateNonlabo	
rCost	
RemainingLateNonlabo	
rUnits	
-	

Message: ReadWBSSpreadResponse

Elements: One to many WBSSpread elements that contain the following fields:

Field	Turne	Description
Field WBSCode	Type string	Description The short code assigned to each WBS element for identification. Each WBS element is uniquely identified by concatenating its own code together with its parents' codes.
WBSObjectId	int	The unique identifier of the WBS.
StartDate	dateTime	The start date of spread data.
EndDate	dateTime	The end date of the spread data.
PeriodType	SummarizedSpreadPeriodTyp e string restricted to Week Month Quarter Year FinancialPeriod Day	Specifies the spread interval for the EPS.
Period		One or more

SummarizedSpreadPeriod	SummarizedSpreadPeriod
StartData	s that contain the live
StartDate EndDate	activity spread data for the
	period.
ActualCost	Contains the StartDate,
ActualExpenseCost	EndDate,
ActualLaborCost	
ActualLaborUnits	and one or more instances
ActualMaterialCost	of the following data:
ActualNonlaborCost	
ActualNonlaborUnits	
ActualTotalCost	
AtCompletionExpenseCost	
AtCompletionLaborCost	
AtCompletionLaborUnits	
AtCompletionMaterialCost	
AtCompletionNonlaborCost	
AtCompletionNonlaborUnits	
AtCompletionTotalCost	
BaselinePlannedExpenseCost	
BaselinePlannedLaborCost	
BaselinePlannedLaborUnits	
BaselinePlannedMaterialCost	
BaselinePlannedNonlaborCost	
BaselinePlannedNonlaborUnit	
s	
BaselinePlannedTotalCost	
EarnedValueCost	
EarnedValueLaborUnits	
EstimateAtCompletionCost	
EstimateAtCompletionLaborUn	
its	
EstimateToCompleteCost	
EstimateToCompleteLaborUnit	
s	
PlannedExpenseCost	
PlannedLaborCost	
PlannedLaborUnits	
PlannedMaterialCost	
PlannedNonlaborCost	
PlannedNonlaborUnits	
PlannedTotalCost	
PlannedValueCost	
PlannedValueLaborUnits	
RemainingExpenseCost	
RemainingLaborCost	
RemainingLaborUnits	
RemainingMaterialCost	
5	
RemainingNonlaborCost	

RemainingNonlaborUnits	
RemainingTotalCost	
RemainingLateExpenseCost	
RemainingLateLaborCost	
RemainingLateLaborUnits	
RemainingLateMaterialCost	
RemainingLateNonlaborCost	
RemainingLateNonlaborUnits	
0	
RemainingLateTotalCost	
PeriodActualCost	
PeriodActualExpenseCost	
PeriodActualLaborCost	
PeriodActualLaborUnits	
PeriodActualMaterialCost	
PeriodActualNonLaborCost	
PeriodActualNonLaborUnits	
PeriodAtCompletionExpenseC	
ost	
PeriodAtCompletionLaborCost	
PeriodAtCompletionLaborUnits	
PeriodAtCompletionMaterialCo	
st	
PeriodAtCompletionNonLabor	
Cost	
PeriodAtCompletionNonLabor	
Units	
PeriodAtCompletionTotalCost	
PeriodEarnedValueCost	
PeriodEarnedValueLaborUnits	
PeriodEstimateAtCompletionC	
ost	
PeriodEstimateAtCompletionL	
aborUnits	
PeriodPlannedValueCost	
PeriodPlannedValueLaborUnit	
S	
CumulativeActualCost	
CumulativeActualExpenseCost	
CumulativeActualLaborCost	
CumulativeActualLaborUnits	
CumulativeActualMaterialCost	
CumulativeActualNonlaborCos	
CumulativeActualNonlaborUnit	
S	
CumulativeActualTotalCost	
CumulativeAtCompletionExpe	
nseCost	
CumulativeAtCompletionLabor	

1	
Cost	
CumulativeAtCompletionLabor	
Units	
CumulativeAtCompletionMater	
ialCost	
CumulativeAtCompletionNonla	
borCost	
CumulativeAtCompletionNonla	
borUnits	
CumulativeAtCompletionTotal	
Cost	
CumulativeBaselinePlannedEx	
penseCost	
CumulativeBaselinePlannedLa	
borCost	
CumulativeBaselinePlannedLa	
borUnits	
CumulativeBaselinePlannedM	
aterialCost	
CumulativeBaselinePlannedN	
onlaborCost	
CumulativeBaselinePlannedN	
onlaborUnits	
CumulativeBaselinePlannedTo	
talCost	
CumulativeEarnedValueCost	
CumulativeEarnedValueLabor	
Units	
CumulativeEstimateAtComplet	
ionCost	
CumulativeEstimateAtComplet	
ionLaborUnits	
CumulativeEstimateToComple	
teCost	
teLaborUnits	
CumulativePlannedExpenseC	
•	
ost CumulativePlannedLaborCost	
CumulativePlannedLaborUnits	
CumulativePlannedMaterialCo	
st	
CumulativePlannedNonlaborC	
ost	
CumulativePlannedNonlaborU	
nits	
CumulativePlannedTotalCost	
CumulativePlannedValueCost	
CumulativePlannedValueLabo	
 CumulativePlannedValueLabo	

rUnits	
CumulativeRemainingExpense	
Cost	
CumulativeRemainingLaborCo	
st	
CumulativeRemainingLaborUn	
its	
CumulativeRemainingMaterial	
Cost	
CumulativeRemainingNonlabo	
rCost	
CumulativeRemainingNonlabo	
rUnits	
CumulativeRemainingTotalCo	
st	
CumulativeRemainingLateExp	
enseCost	
CumulativeRemainingLateLab	
orCost	
CumulativeRemainingLateLab	
orUnits	
CumulativeRemainingLateMat	
erialCost	
CumulativeRemainingLateNon	
laborCost	
CumulativeRemainingLateNon	
laborUnits	
CumulativeRemainingLateTota	
lCost	

ReadProjectResourceSpread Operation

Description: Reads the summarized spreads of the specified Project Resources

Service: Spread Service (on page 959)

Style: Document/literal wrapped

Input:

Message: ReadProjectResourceSpread Elements:

		1
Field	Туре	Description
ProjectObjectId	int	The unique identifier for the project. Specify zero to many ProjectObjectIds.
ResourceObjectId	int	The unique identifier for the Resource. Specify zero to many ResourceObjectIds.
PeriodType	SummarizedSpreadPeriodTyp e string restricted to Week Month Quarter Year FinancialPeriod Day	Spread period type enumerations are used to specify the spread interval for EPS, project, WBS, Activity, and resource assignment spreads.
StartDate	dateTime	The start of the time period that you are interested in.
EndDate	dateTime	The end of the time period that you are interested in.
IncludeCumulative	boolean	Set IncludeCumulative to true to read cumulative spread data.
SpreadField	ResourceRoleSpreadFieldTyp e string	The fields you want to include in the spread. Specify one to many SpreadField elements.
L	·····æ	I

restricted to	
ActualCost	
ActualOvertimeCost	
ActualOvertimeUnits	
ActualRegularCost	
ActualRegularUnits	
ActualUnits	
AtCompletionCost	
AtCompletionUnits	
Limit	
PeriodActualCost	
PeriodActualUnits	
PeriodAtCompletionCost	
PeriodAtCompletionUnits	
PlannedCost	
PlannedUnits	
RemainingCost	
RemainingLateCost	
RemainingLateUnits	
RemainingUnits	
StaffedActualCost	
StaffedActualOvertimeCost	
StaffedActualOvertimeUnits	
StaffedActualRegularCost	
StaffedActualRegularUnits	
StaffedActualUnits	
StaffedAtCompletionCost	
StaffedAtCompletionUnits	
StaffedPlannedCost	
StaffedPlannedUnits	
StaffedRemainingCost	
StaffedRemainingLateCost	
StaffedRemainingLateUnits	
StaffedRemainingUnits	
UnstaffedActualCost	
UnstaffedActualOvertimeCost	
UnstaffedActualOvertimeUnits	
UnstaffedActualRegularCost	
UnstaffedActualRegularUnits	
UnstaffedActualUnits	
UnstaffedAtCompletionCost	
UnstaffedAtCompletionUnits	
UnstaffedPlannedCost	
UnstaffedPlannedUnits	
UnstaffedRemainingCost	
UnstaffedRemainingLateCost	
UnstaffedRemainingLateUnits	
UnstaffedRemainingUnits	
enetanou tomanni gonito	

Message: ReadProjectResourceSpreadResponse

Elements: One to many ProjectResourceSpread elements that contain the following fields:

	-	-
Field	Туре	Description
ProjectId	string	The short code assigned to each project element for identification. Each project element is uniquely identified by concatenating its own code together with its parents' codes.
ProjectObjectId	int	The unique identifier of the project.
Resourceld	string	The short code assigned to each resource element for identification. Each resoure element is uniquely identified by concatenating its own code together with its parents codes.
ResourceObjectId	int	The unique identifier of the resource.
StartDate	dateTime	The start date of spread data.
EndDate	dateTime	The end date of the spread data
PeriodType	SummarizedSpread PeriodType	Specifies the spread interval for the EPS.

	string restricted to Week Month Quarter Year FinancialPeriod Day	
Period	ResourceRoleSprea dPeriod StartDate EndDate FinancialPeriodObje ctld ActualCost ActualOvertimeCost ActualOvertimeUnits ActualRegularCost ActualRegularUnits ActualRegularUnits ActualRegularUnits ActualRegularUnits ActualOvertimeUnits Limit PeriodActualCost PeriodActualUnits PeriodAtCompletion Cost PeriodAtCompletion Units PlannedCost PlannedUnits RemainingLateCost RemainingLateCost RemainingLateUnits RemainingUnits StaffedActualOverti meCost StaffedActualOverti meUnits StaffedActualRegula rCost StaffedActualRegula rCost	One or more ResourceRoleSpreadPeriods that contain the live activity spread data for the period. Contains the StartDate, EndDate, and one or more instances of the following data:

StaffedAtCompletion	
Cost	
StaffedAtCompletion	
Units	
StaffedPlannedCost	
StaffedPlannedUnits	
StaffedRemainingCo	
st	
StaffedRemainingLat	
eCost	
StaffedRemainingLat	
eUnits	
StaffedRemainingUn	
its	
UnstaffedActualCost	
UnstaffedActualOver	
timeCost	
UnstaffedActualOver	
timeUnits	
ularCost	
UnstaffedActualReg	
ularUnits	
UnstaffedActualUnits	
UnstaffedAtCompleti	
onCost	
UnstaffedAtCompleti	
onUnits	
UnstaffedPlannedCo	
st	
UnstaffedPlannedUn	
its	
UnstaffedRemaining	
Cost	
UnstaffedRemaining	
LateCost	
UnstaffedRemaining	
LateUnits	
UnstaffedRemaining	
Units	
CumulativeActualCo	
st	
CumulativeActualOv	
ertimeCost	
CumulativeActualOv	
ertimeUnits	
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gularCost	
CumulativeActualRe	

gularUnits CumulativeActualUni ts CumulativeAtCompl etionCost CumulativeAtCompl etionUnits CumulativeLimit CumulativePeriodAct ualCost CumulativePeriodAt CompletionCost CumulativePeriodAt CompletionUnits CumulativePlanned Cost CumulativePlanned Units CumulativeRemainin gCost CumulativeRemainin gLateCost CumulativeRemainin gLateUnits CumulativeRemainin gUnits CumulativeStaffedAc tualCost CumulativeStaffedAc
ts CumulativeAtCompl etionCost CumulativeAtCompl etionUnits CumulativeLimit CumulativePeriodAct ualCost CumulativePeriodAt CompletionCost CumulativePeriodAt CompletionUnits CumulativePeriodAt CompletionUnits CumulativePlanned Cost CumulativePlanned Units CumulativeRemainin gCost CumulativeRemainin gLateCost CumulativeRemainin gLateUnits CumulativeRemainin gLateUnits CumulativeRemainin gLateUnits CumulativeRemainin gLateUnits CumulativeRemainin gLateUnits CumulativeRemainin gLateUnits CumulativeRemainin gUnits CumulativeStaffedAc tualCost
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etionUnits CumulativeLimit CumulativePeriodAct ualCost CumulativePeriodAct ualUnits CumulativePeriodAt CompletionCost CumulativePeriodAt CompletionUnits CumulativePlanned Cost CumulativePlanned Units CumulativeRemainin gCost CumulativeRemainin gLateCost CumulativeRemainin gLateUnits CumulativeRemainin gLateUnits CumulativeRemainin gUnits CumulativeStaffedAc tualCost
CumulativeLimit CumulativePeriodAct ualCost CumulativePeriodAct ualUnits CumulativePeriodAt CompletionCost CumulativePeriodAt CompletionUnits CumulativePlanned Cost CumulativePlanned Units CumulativeRemainin gCost CumulativeRemainin gLateCost CumulativeRemainin gLateUnits CumulativeRemainin gLateUnits CumulativeRemainin gUnits CumulativeStaffedAc tualCost
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Units CumulativeRemainin gCost CumulativeRemainin gLateCost CumulativeRemainin gLateUnits CumulativeRemainin gUnits CumulativeStaffedAc tualCost
CumulativeRemainin gCost CumulativeRemainin gLateCost CumulativeRemainin gLateUnits CumulativeRemainin gUnits CumulativeStaffedAc tualCost
gCost CumulativeRemainin gLateCost CumulativeRemainin gLateUnits CumulativeRemainin gUnits CumulativeStaffedAc tualCost
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gLateCost CumulativeRemainin gLateUnits CumulativeRemainin gUnits CumulativeStaffedAc tualCost
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CumulativeStaffedAc tualCost
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tualOvertimeCost
CumulativeStaffedAc
tualOvertimeUnits
CumulativeStaffedAc
tualRegularCost
CumulativeStaffedAc
tualRegularUnits
CumulativeStaffedAc
tualUnits
CumulativeStaffedAt
CompletionCost
CumulativeStaffedAt
CompletionUnits
CumulativeStaffedPI
annedCost
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annedUnits
CumulativeStaffedR

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emainingCost	
CumulativeStaffedR	
emainingLateCost	
CumulativeStaffedR	
emainingLateUnits	
CumulativeStaffedR	
emainingUnits	
CumulativeUnstaffed	
ActualCost	
CumulativeUnstaffed	
ActualOvertimeCost	
CumulativeUnstaffed	
ActualOvertimeUnits	
CumulativeUnstaffed	
ActualRegularCost	
CumulativeUnstaffed	
ActualRegularUnits	
CumulativeUnstaffed	
ActualUnits	
CumulativeUnstaffed	
AtCompletionCost	
CumulativeUnstaffed	
AtCompletionUnits	
CumulativeUnstaffed	
PlannedCost	
CumulativeUnstaffed	
PlannedUnits	
CumulativeUnstaffed	
RemainingCost	
CumulativeUnstaffed	
RemainingLateCost	
CumulativeUnstaffed	
RemainingLateUnits	
CumulativeUnstaffed	
RemainingUnits	
5	

ReadCBSResourceSpread Operation

Description: Reads the summarized CBS spreads of the specified Project Resources

Service: Spread Service (on page 959)

Style: Document/literal wrapped

Input:

Message: ReadCBSResourceSpread

Elements:

Field	Туре	Description
ProjectObjectId	int	The unique identifier for the project. Specify zero to many ProjectObjectIds.
PeriodType	SummarizedSpreadPeriodTyp e string restricted to Week Month Quarter Year FinancialPeriod Day	Spread period type enumerations are used to specify the spread interval for EPS, project, WBS, Activity, and resource assignment spreads.
Baselinelds	string	
SummaryDateField	CBSRsrcSummaryFieldType string restricted to SummaryActualFinish SummaryActualStart SummaryPlannedFinish SummaryPlannedStart SummaryRemainingFinish SummaryRemainingStart	The summary date you want to include in the spread. Specify one to many SummaryDateField elements.
SpreadField	CBSRsrcExpenseSpreadField Type string restricted to ActualCost ActualUnits AtCompletionCost AtCompletionUnits PlannedCost PlannedUnits RemainingCost RemainingUnits	The fields you want to include in the spread. Specify one to many SpreadField elements.

Output:

Message: ReadCBSResourceSpreadResponse

Elements: One to many ReadCBSResourceSpread elements that contain the following fields:

Field	Туре	Description
BaselineProjectObjectId	int	The unique identifier of the baseline project. The BaselineProjectObjectId equals the TargetProjectObjectId passed in as an input parameter.
ProjectObjectId	int	The unique identifier of the project object.
ProjectId	string	The unique identifier of the project.
ProjectName	string	The name of the project.
OriginalProjectObjectId	int	The unique identifier of the project from which the project baseline was created, if the current project is a project baseline.
CBSObjectId	int	The unique identifier of the CBS object.
ResourceObjectId	int	The unique identifier of the Resource object.
BaselineType	string	The baseline type you want to use in the spread.
DataDate	string	The current data date for the project.
Resourceld	string	The unique identifier of the resource.
ResourceName	string	The name of the resource.
ResourceType	string	The resource type.
UnitName	string	The unit you want to use in the spread.
UnitAbbreviation	string	The abbreviation of the unit you want to use in the spread.

CurrencyId	string	The unique identifier of the currency.
CurrencyName	string	The name of the currency.
SummaryActualCost	double	The Actual Cost.
SummaryActualUnit	double	The Actual Units.
SummaryAtCompletionCost	double	The At Completion Cost.
SummaryAtCompletionUnits	double	The At Completion Units.
SummaryPlannedCost	double	The Planned Cost.
SummaryPlannedUnits	double	The Planned Units.
SummaryRemainingCost	double	The Remaining Costs.
SummaryRemainingUnits	double	The Remaining Units.
SummaryActualFinish	dateTime	The Actual Finish date.
SummaryActualStart	dateTime	The Actual Start date.
SummaryPlannedFinish	dateTime	The Planned Finish date.
SummaryPlannedStart	dateTime	The Planned Start date.
SummaryRemainingFinish	dateTime	The date the project is scheduled to finish the remaining work.
SummaryRemainingStart	dateTime	The earliest remaining start of all activities.
StartDate	dateTime	The start date of the spread.
EndDate	dateTime	The end date of the spread.
PeriodType	SummarizedSpread PeriodType string restricted to Week Month Quarter Year Financial Period Day	Spread period type enumerations are used to specify the spread interval for CBS.

Period	CBSRsrcExpenseSp readPeriod	The field type of the spread.
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ReadCBSExpenseSpread Operation

Description: Reads the summarized CBS spreads of the specified project resources

Service: Spread Service (on page 959)

Style: Document/literal wrapped

Input:

Message: ReadCBSExpenseSpread Elements:

Field	Туре	Description
ProjectObjectId	int	The unique identifier for the project.
		Specify zero to many ProjectObjectIds.
PeriodType	SummarizedSpreadPeriodTyp e string restricted to Week Month Quarter Year FinancialPeriod Day	Spread period type enumerations are used to specify the spread interval for EPS, project, WBS, Activity, and resource assignment spreads.
BaselineIds	string	The unique identifier of the baseline.
SpreadField	CBSRsrcExpenseSpreadField Type	Project Short Name of the project.

Output:

Message: ReadCBSExpenseSpreadResponse

Elements: One to many ReadCBSExpenseSpread elements that contain the following fields:

Field	Туре	Description
BaselineProjectObjectId	int	The unique identifier of the baseline project. The BaselineProjectObjectId equals the TargetProjectObjectId passed in as an input parameter.
ProjectObjectId	int	The unique identifier of the project object.
ProjectId	string	The unique identifier of the project.
ProjectName	string	The name of the project.
OriginalProjectObjectId	int	The unique identifier of the project from which the project baseline was created, if the current project is a project baseline.
CBSObjectId	int	The unique identifier of the CBS object.
ExpenseCategoryObjectId	string	The unique identifier of the expense category.
ExpenseCategoryName	string	The name of the expense category.
BaselineType	string	The baseline type you want to use in the spread.
DataDate	dateTime	The current data date for the project.
SummaryActualCost	double	The Actual Cost.
SummaryActualUnit	double	The Actual Units.
SummaryAtCompletionCost	double	The At Completion Cost.
SummaryAtCompletionUnits	double	The At Completion Units.
SummaryPlannedCost	double	The Planned Cost.

SummaryPlannedUnits	double	The Planned Units.
SummaryRemainingCost	double	The Remaining Costs.
SummaryRemainingUnits	double	The Remaining Units.
StartDate	dateTime	The start date of the CBS spread.
EndDate	dateTime	The end date of the CBS spread.
PeriodType	SummarizedSpread PeriodType string restricted to Week Month Quarter Year FinancialPeriod Day	Spread period type enumerations are used to specify the interval for the CBS spread.
Period	CBSRsrcExpenseSp readPeriod string restricted to ActualCost ActualUnits AtCompletionCost AtCompletionUnits PlannedCost PlannedUnits RemainingCost RemainingUnits	One or more CBSRsrcExpenseSpreadTypes that contain the live activity spread data for the period.

ReadProjectRoleSpread Operation

Description: Reads the spreads of the specified role assignments to the activities from the specified projects.

Service: Spread Service (on page 959)

Style: Document/literal wrapped

Input:

Message: ReadProjectRoleSpread Elements:

Field	Туре	Description
ProjectObjectId	int	The unique identifier for the project. You can specify zero or more ProjectObjectIds.
RoleObjectId	int	The unique identifier of the associated role. You can specify zero or more RoleObjectIds.
PeriodType	SummarizedSpreadPeriodT ype string restricted to Week Month Quarter Year FinancialPeriod Day	Spread period type enumerations are used to specify the spread interval for EPS, project, WBS, Activity, and resource assignment spreads.
StartDate	dateTime	The start of the time period that you are interested in.
EndDate	dateTime	The end of the time period that you are interested in.
IncludeCumulative	boolean	Set IncludeCumulative to true to read cumulative spread data.
SpreadField	ResourceRoleSpreadFieldT ype	The fields you want to include in the spread. Specify one to many

	SpreadField elements.
string	
restricted to	
ActualCost	
ActualOvertimeCost	
ActualOvertimeUnits	
ActualRegularCost	
ActualRegularUnits	
ActualUnits	
AtCompletionCost	
AtCompletionUnits	
Limit	
PeriodActualCost	
PeriodActualUnits	
PeriodAtCompletionCost	
PeriodAtCompletionUnits	
PlannedCost	
PlannedUnits	
RemainingCost	
RemainingLateCost	
RemainingLateUnits	
RemainingUnits	
StaffedActualCost	
StaffedActualOvertimeCost	
StaffedActualOvertimeUnits	
StaffedActualRegularCost	
StaffedActualRegularUnits	
StaffedActualUnits	
StaffedAtCompletionCost	
StaffedAtCompletionUnits	
StaffedPlannedCost	
StaffedPlannedUnits	
StaffedRemainingCost	
StaffedRemainingLateCost	
StaffedRemainingLateUnits	
StaffedRemainingUnits	
UnstaffedActualCost	
UnstaffedActualOvertimeCo	
st	
St UnstaffedActualOvertimeUn	
its	
UnstaffedActualRegularCos	
t UpstoffedAstus Degularius;t	
UnstaffedActualRegularUnit	
UnstaffedActualUnits	
UnstaffedAtCompletionCost	
UnstaffedAtCompletionUnit	
S	

UnstaffedPlannedCost	
UnstaffedPlannedUnits	
UnstaffedRemainingCost	
UnstaffedRemainingLateCo	
st	
UnstaffedRemainingLateUn	
its	
UnstaffedRemainingUnits	

Message: ReadProjectRoleSpreadResponse

Elements: One to many ProjectRoleSpread elements that contain the following fields:

Field	Туре	Description
ProjectId	string	The short code that uniquely identifies the project.
ProjectObjectId	int	The unique identifier of the project.
Roleld	string	The short code that uniquely identifies the role.
RoleObjectId	int	The unique identifier of the role.
StartDate	dateTime	The start date of spread data.
EndDate	dateTime	The end date of the spread data.

PeriodType	SummarizedSpreadPeriodType string restricted to Week Month Quarter Year	Specifies the spread interval for the EPS.
	FinancialPeriod Day	
Period	ResourceRoleSpreadPeriod StartDate EndDate FinancialPeriodObjectId ActualCost ActualOvertimeCost ActualOvertimeUnits ActualRegularCost ActualRegularUnits ActualUnits AtCompletionCost AtCompletionUnits Limit PeriodActualCost PeriodActualUnits PeriodActompletionOcost PeriodAtCompletionUnits PlannedCost PlannedUnits RemainingLateCost RemainingLateUnits RemainingUnits StaffedActualOvertimeCost StaffedActualOvertimeUnits StaffedActualRegularCost StaffedActualRegularCost StaffedActualRegularCost StaffedActualInits StaffedActualRegularCost StaffedActualInits	One or more ResourceRoleSpreadP eriod elements that contain the live activity spread data for the period. Contains the StartDate, EndDate, and one or more instances of the following data:

StaffedRemainingLateCost	
StaffedRemainingLateUnits	
StaffedRemainingUnits	
UnstaffedActualCost	
UnstaffedActualOvertimeCost	
UnstaffedActualOvertimeUnits	
UnstaffedActualRegularCost	
UnstaffedActualRegularUnits	
UnstaffedActualUnits	
UnstaffedAtCompletionCost	
UnstaffedAtCompletionUnits	
UnstaffedPlannedCost	
UnstaffedPlannedUnits	
UnstaffedRemainingCost	
UnstaffedRemainingLateCost	
UnstaffedRemainingLateUnits	
UnstaffedRemainingUnits	
CumulativeActualCost	
CumulativeActualOvertimeCost	
CumulativeActualOvertimeUnits	
CumulativeActualRegularCost	
CumulativeActualRegularUnits	
CumulativeActualUnits	
CumulativeAtCompletionCost	
CumulativeAtCompletionUnits	
CumulativeLimit	
CumulativePeriodActualCost	
CumulativePeriodActualUnits	
CumulativePeriodAtCompletionCost	
CumulativePeriodAtCompletionUnits	
CumulativePlannedCost	
CumulativePlannedUnits	
CumulativeRemainingCost	
CumulativeRemainingLateCost	
CumulativeRemainingLateUnits	
CumulativeRemainingUnits	
CumulativeStaffedActualCost	
CumulativeStaffedActualOvertimeCos	
t	
CumulativeStaffedActualOvertimeUnit	
S	
CumulativeStaffedActualRegularCost	
CumulativeStaffedActualRegularUnits	
CumulativeStaffedActualUnits	
CumulativeStaffedAtCompletionCost	
CumulativeStaffedAtCompletionUnits	
CumulativeStaffedPlannedCost	
CumulativeStaffedPlannedUnits	
CumulativeStaffedRemainingCost	
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CumulativeStaffedRemainingLateCost	
CumulativeStaffedRemainingLateUnit	
S	
CumulativeStaffedRemainingUnits	
CumulativeUnstaffedActualCost	
CumulativeUnstaffedActualOvertimeC	
ost	
CumulativeUnstaffedActualOvertimeU	
nits	
st	
CumulativeUnstaffedActualRegularUn	
its	
CumulativeUnstaffedAtCompletionCo	
st	
CumulativeUnstaffedAtCompletionUni	
ts	
CumulativeUnstaffedPlannedCost	
CumulativeUnstaffedRemainingCost	
•	
CumulativeUnstaffedRemainingLateC	
Ost	
CumulativeUnstaffedRemainingUnits	

ReadWBSResourceSpread Operation

Description: Reads the summarized spreads of the Resources for the specified WBS.

Service: Spread Service (on page 959)

Style: Document/literal wrapped

Input:

Message: ReadWBSResourceSpread Elements:

Field	Туре	Description
WBSObjectId	int	The unique identifier for the

		WBS.You can specify one or more WBSObjectId.
ResourceObjectId	int	The unique identifier for the Resource.
		Specify zero to many ResourceObjectIds.
PeriodType	SummarizedSpreadPeriodTyp e string restricted to Week Month Quarter Year FinancialPeriod Day	Spread period type enumerations are used to specify the spread interval for EPS, project, WBS, Activity, and resource assignment spreads.
StartDate	dateTime	The start of the time period that you are interested in.
EndDate	dateTime	The end of the time period that you are interested in
IncludeCumulative	boolean	Set IncludeCumulative to true to read cumulative spread data.
SpreadField	ResourceRoleSpreadFieldTyp e string restricted to ActualCost ActualOvertimeCost ActualOvertimeUnits ActualRegularCost ActualRegularUnits ActualUnits ActualUnits AtCompletionCost AtCompletionUnits Limit PeriodActualCost PeriodActualUnits	The fields you want to include in the spread. Specify one to many SpreadField elements.

	· · · · · · · · · · · · · · · · · · ·
PeriodAtCompletionCost	
PeriodAtCompletionUnits	
PlannedCost	
PlannedUnits	
RemainingCost	
RemainingLateCost	
RemainingLateUnits	
RemainingUnits	
StaffedActualCost	
StaffedActualOvertimeCost	
StaffedActualOvertimeUnits	
StaffedActualRegularCost	
StaffedActualRegularUnits	
StaffedActualUnits	
StaffedAtCompletionCost	
StaffedAtCompletionUnits	
StaffedPlannedCost	
StaffedPlannedUnits	
StaffedRemainingCost	
StaffedRemainingLateCost	
StaffedRemainingLateUnits	
StaffedRemainingUnits	
UnstaffedActualCost	
UnstaffedActualOvertimeCost	
UnstaffedActualOvertimeUnits	
UnstaffedActualRegularCost	
UnstaffedActualRegularUnits	
UnstaffedActualUnits	
UnstaffedAtCompletionCost	
UnstaffedAtCompletionUnits	
UnstaffedPlannedCost	
UnstaffedPlannedUnits	
UnstaffedRemainingCost	
UnstaffedRemainingLateCost	
UnstaffedRemainingLateUnits	
UnstaffedRemainingUnits	
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Message: ReadWBSResourceSpreadResponse Elements: One to many WBSResourceSpread elements that contain the following fields:

Field	Туре
WBSCode	string

WBSObjectId	int	
Resourceld	string	
ResourceObjectId	int	
StartDate	dateTime	
EndDate	dateTime	
PeriodType	SummarizedSpreadPeriodType string restricted to Week Month Quarter Year FinancialPeriod Day	
Period	ResourceRoleSpreadPeriod StartDate EndDate FinancialPeriodObjectId ActualCost ActualOvertimeCost ActualOvertimeUnits ActualRegularCost ActualRegularUnits ActualUnits AtCompletionCost AtCompletionUnits Limit PeriodActualCost PeriodActualUnits PeriodAtCompletionCost PeriodAtCompletionUnits PeriodAtCompletionUnits PlannedCost	

PlannedUnits
RemainingCost
RemainingLateCost
RemainingLateUnits
RemainingUnits
StaffedActualCost
StaffedActualOvertimeCost
StaffedActualOvertimeUnits
StaffedActualRegularCost
StaffedActualRegularUnits
StaffedActualUnits
StaffedAtCompletionCost
StaffedAtCompletionUnits
StaffedPlannedCost
StaffedPlannedUnits
StaffedRemainingCost
StaffedRemainingLateCost
StaffedRemainingLateUnits
StaffedRemainingUnits
UnstaffedActualCost
UnstaffedActualOvertimeCost
UnstaffedActualOvertimeUnits
UnstaffedActualRegularCost
UnstaffedActualRegularUnits
UnstaffedActualUnits
UnstaffedAtCompletionCost
UnstaffedAtCompletionUnits
UnstaffedPlannedCost
UnstaffedPlannedUnits
UnstaffedRemainingCost
UnstaffedRemainingLateCost
UnstaffedRemainingLateUnits
UnstaffedRemainingUnits
CumulativeActualCost
CumulativeActualOvertimeCost
CumulativeActualOvertimeUnits
CumulativeActualOvertimeOnits
CumulativeActualRegularUnits
0
CumulativeAtCompletionCost
CumulativeAtCompletionUnits
CumulativeLimit
CumulativePeriodActualUnits
CumulativePeriodAtCompletionCost
CumulativePlannedCost
CumulativePlannedUnits
 CumulativeRemainingCost

CumulativeRemainingLateCost
CumulativeRemainingLateUnits
CumulativeRemainingUnits
CumulativeStaffedActualCost
CumulativeStaffedActualOvertimeCost
CumulativeStaffedActualOvertimeUnits
CumulativeStaffedActualRegularCost
CumulativeStaffedActualRegularUnits
CumulativeStaffedActualUnits
CumulativeStaffedAtCompletionCost
CumulativeStaffedAtCompletionUnits
CumulativeStaffedPlannedCost
CumulativeStaffedPlannedUnits
CumulativeStaffedRemainingCost
CumulativeStaffedRemainingLateCost
CumulativeStaffedRemainingLateUnits
CumulativeStaffedRemainingUnits
CumulativeUnstaffedActualCost
CumulativeUnstaffedActualOvertimeCost
CumulativeUnstaffedActualOvertimeUnits
CumulativeUnstaffedActualRegularCost
CumulativeUnstaffedActualRegularUnits
CumulativeUnstaffedActualUnits
CumulativeUnstaffedAtCompletionCost
CumulativeUnstaffedAtCompletionUnits
CumulativeUnstaffedPlannedCost
CumulativeUnstaffedPlannedUnits
CumulativeUnstaffedRemainingCost
CumulativeUnstaffedRemainingLateCost
CumulativeUnstaffedRemainingLateUnits
CumulativeUnstaffedRemainingUnits
GumulativeOnstaneurtemainingOnits

ReadWBSExpenseSpread Operation

Description: Reads the summarized WBS spreads of the specified project resources

Service: Spread Service (on page 959)

Style: Document/literal wrapped

Input:

Message: ReadWBSExpenseSpread Elements:

Field	Туре	Description
WBSObjectId	int	The unique identifier of the associated WBS object.
ExpenseCategoryOb jectId	int	The unique identifier of the ExpenseCategory object.
PeriodType	SummarizedSpreadPeriodTyp e string restricted to Week Month Quarter Year Financial Period Day	The spread interval for WBS
StartDate	dateTime	The start date of the WBS Expense spread.
EndDate	dateTime	The end date of the WBS Expense spread.
IncludeCummulative	boolean	Enables the cumulative value.
SpreadField	ExpenseSpreadFieldType string restricted to ActualCost AtCompletionCost PlannedCost RemainingCost	One or more SpreadFieldTypes that contain the live activity spread data for the period.

Message: ReadWBSExpenseSpreadResponse

Elements: One to many ReadWBSExpenseSpread elements that contain the following fields:

Field	Туре	Description
WBSCode	string	The short code assigned to each WBS element.
WBSObjectId	int	The unique identifier of the WBS object.

ExpenseCategoryName	string	The name of the expense category.
ExpenseCategoryObjectId	int	The unique identifier of the ExpenseCategory object.
StartDate	dateTime	The start date of the WBS expense spread.
EndDate	dateTime	The end date of the WBS expense spread.
PeriodType	SummarizedSpread PeriodType string restricted to Week Month Quarter Year Financial Period Day	The spread interval for WBS.
Period	ExpenseSpreadPeri od string restricted to ActualCost AtCompletionCost PlannedCost RemainingCost	One or more ExpenseSpreadFieldTypes that contain the live activity spread data for the period.

ReadWBSRoleSpread Operation

Description: Reads the spreads of the specified role assignments to the activities from the specified WBS.

Service: Spread Service (on page 959)

Style: Document/literal wrapped

Input:

Message: ReadWBSRoleSpread Elements:

Field	Туре	Description
WBSObjectId	int	The unique identifier for the

		WBS.You can specify one or more WBSObjectId.
RoleObjectId	int	The unique identifier for the Role. Specify zero to many ResourceObjectIds
PeriodType	SummarizedSpreadPeriodTyp e string restricted to Week Month Quarter Year FinancialPeriod Day	Spread period type enumerations are used to specify the spread interval for EPS, project, WBS, Activity, and resource assignment spreads.
StartDate	dateTime	The start of the time period that you are interested in.
EndDate	dateTime	The end of the time period that you are interested in
IncludeCumulative	boolean	Set IncludeCumulative to true to read cumulative spread data.
SpreadField	ResourceRoleSpreadFieldTyp e string restricted to ActualCost ActualOvertimeCost ActualOvertimeUnits ActualRegularCost ActualRegularUnits ActualUnits AtCompletionCost AtCompletionUnits Limit PeriodActualCost PeriodActualUnits	The fields you want to include in the spread. Specify one to many SpreadField elements.

PeriodAtComple	etionCost
PeriodAtComple	
PlannedCost	
PlannedUnits	
RemainingCost	
RemainingLate	
RemainingLate	
RemainingUnits	
StaffedActualCo	
StaffedActualOv	
StaffedActualOv	
StaffedActualRe StaffedActualRe	
StaffedActualUn	•
StaffedAtCompl	
StaffedAtCompl	
StaffedPlanned	
StaffedPlanned	
StaffedRemainir	
StaffedRemainir	0
StaffedRemainir	•
StaffedRemainir	0
UnstaffedActual	
UnstaffedActual	0
UnstaffedAtCom	
UnstaffedAtCom	•
UnstaffedPlanne	•
UnstaffedPlanne	
UnstaffedRemai	
UnstaffedRemai	0
UnstaffedRemai	0
	0
UnstaffedRemai	

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Message: ReadWBSRoleSpreadResponse Elements: One to many WBSRoleSpread elements that contain the following fields:

Field	Туре
WBSCode	string

WBSObjectId	int		
RoleId	string		
RoleObjectId	int		
StartDate	dateTime		
EndDate	dateTime		
PeriodType	SummarizedSpreadPeriodType string restricted to Week Month Quarter Year FinancialPeriod Day		
Period			

L
PlannedUnits
RemainingCost
RemainingLateCost
RemainingLateUnits
RemainingUnits
StaffedActualCost
StaffedActualOvertimeCost
StaffedActualOvertimeUnits
StaffedActualRegularCost
StaffedActualRegularUnits
StaffedActualUnits
StaffedAtCompletionCost
StaffedAtCompletionUnits
StaffedPlannedCost
StaffedPlannedUnits
StaffedRemainingCost
StaffedRemainingLateCost
StaffedRemainingLateUnits
StaffedRemainingUnits
UnstaffedActualCost
UnstaffedActualOvertimeCost
UnstaffedActualOvertimeUnits
UnstaffedActualRegularCost
UnstaffedActualRegularUnits
UnstaffedActualUnits
UnstaffedAtCompletionCost
UnstaffedAtCompletionUnits
UnstaffedPlannedCost
UnstaffedPlannedUnits
UnstaffedRemainingCost
UnstaffedRemainingLateCost
UnstaffedRemainingLateUnits
UnstaffedRemainingUnits
CumulativeActualCost
CumulativeActualOvertimeCost
CumulativeActualOvertimeUnits
CumulativeActualRegularCost
CumulativeActualRegularUnits
CumulativeActualUnits
CumulativeActualOnits
CumulativeAtCompletionUnits CumulativeLimit
CumulativePeriodActualCost
CumulativePeriodActualUnits
CumulativePeriodAtCompletionCost
CumulativePeriodAtCompletionUnits
CumulativePlannedCost
CumulativePlannedUnits
CumulativeRemainingCost

CumulativeRemainingLateCost
CumulativeRemainingLateUnits
CumulativeRemainingUnits
CumulativeStaffedActualCost
CumulativeStaffedActualOvertimeCost
CumulativeStaffedActualOvertimeUnits
CumulativeStaffedActualRegularCost
CumulativeStaffedActualRegularUnits
CumulativeStaffedActualUnits
CumulativeStaffedAtCompletionCost
CumulativeStaffedAtCompletionUnits
CumulativeStaffedPlannedCost
CumulativeStaffedPlannedUnits
CumulativeStaffedRemainingCost
CumulativeStaffedRemainingLateCost
CumulativeStaffedRemainingLateUnits
CumulativeStaffedRemainingUnits
CumulativeUnstaffedActualCost
CumulativeUnstaffedActualOvertimeCos
t
CumulativeUnstaffedActualOvertimeUnit
S
CumulativeUnstaffedActualRegularCost
CumulativeUnstaffedActualRegularUnits
CumulativeUnstaffedActualUnits
CumulativeUnstaffedAtCompletionCost
CumulativeUnstaffedAtCompletionUnits
CumulativeUnstaffedPlannedCost
CumulativeUnstaffedPlannedUnits
CumulativeUnstaffedRemainingCost
CumulativeUnstaffedRemainingLateCost
CumulativeUnstaffedRemainingLateUnit
s
CumulativeUnstaffedRemainingUnits
5

ReadResourceAssignmentSpread Operation

Description: Reads the live resource assignment spread data from the specified resource assignment.

Service: Spread Service (on page 959)

Style: Document/literal wrapped

Input:

Message: ReadResourceAssignmentSpread

Elements:

Field	Туре	Description
ResourceAssignmentObjectId	int	The unique identifier for the ResourceAssignment. You can specify one or more ResourceAssignmentO bjectId.
PeriodType	SpreadPeriodType string restricted to Hour Day Week Month Quarter Year FinancialPeriod	Spread period type enumerations are used to specify the spread interval for EPS, project, WBS, Activity, and resource assignment spreads.
StartDate	dateTime	The start of the time period that you are interested in.
EndDate	dateTime	The end of the time period that you are interested in.
IncludeCumulative	boolean	Set IncludeCumulative to true to read cumulative spread data.

SpreadField	ResourceAssignmentSpr eadFieldType string restricted to ActualCost ActualOvertimeCost ActualOvertimeUnits ActualRegularCost ActualRegularUnits ActualRegularUnits ActualUnits AtCompletionCost AtCompletionUnits PlannedCost PlannedCost PlannedUnits RemainingLateCost RemainingLateUnits RemainingUnits StaffedRemainingLateCo st StaffedRemainingLateUn its StaffedRemainingLateUn its UnstaffedRemainingLate Cost UnstaffedRemainingLate Cost UnstaffedRemainingLate Units UnstaffedRemainingLate Units PeriodActualCost PeriodAtCompletionCost PeriodAtCompletionUnits	The fields you want to include in the spread. Specify one to many SpreadField elements.

Message: ReadResourceAssignmentSpreadResponse

Elements: One to many ResourceAssignmentSpread elements that contain the following fields:

Field ResourceAssignmentObjectId	Type int	Description The unique identifier of the ResourceAssignment.
StartDate	dateTime	The start date of spread data.
EndDate	dateTime	The end date of the spread data.
PeriodType	SpreadPeriodType string restricted to Hour Day Week Month Quarter Year FinancialPeriod	Specifies the spread interval for the EPS.
Period	ResourceAssignmentSpre adPeriod StartDate EndDate ActualCost ActualOvertimeCost ActualOvertimeUnits ActualRegularCost ActualRegularUnits ActualRegularUnits ActualUnits AtCompletionCost AtCompletionUnits PlannedCost PlannedUnits RemainingCost	One or more ResourceAssignmentS preadPeriods that contain the live activity spread data for the period. Contains the StartDate, EndDate, and one or more instances of the following data:

RemainingLateCost
RemainingLateUnits
RemainingUnits
StaffedRemainingCost
StaffedRemainingLateCos
t
StaffedRemainingLateUnit
S
StaffedRemainingUnits
UnstaffedRemainingCost
UnstaffedRemainingLateC
ost
UnstaffedRemainingLateU
nits
UnstaffedRemainingUnits
CumulativeActualCost
CumulativeActualOvertim
eCost
CumulativeActualOvertim
eUnits
CumulativeActualRegular
Cost
CumulativeActualRegular
Units
CumulativeActualUnits
CumulativeAtCompletionC
ost
CumulativeAtCompletionU
nits
CumulativePlannedCost
CumulativePlannedUnits
CumulativeRemainingCos
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CumulativeRemainingLate
Cost
CumulativeRemainingLate
Units
CumulativeRemainingUnit
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CumulativeStaffedRemain
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CumulativeStaffedRemain
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CumulativeUnstaffedRem ainingLateCost CumulativeUnstaffedRem ainingLateUnits CumulativeUnstaffedRem ainingUnits
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ReadResourceAssignmentSpreadZip Operation

Description: Reads the live resource assignment spread data from the specified resource assignments and exports the data to a compressed zip file.

Service: Spread Service (on page 959)

Style: Document/literal wrapped

Input:

Message: ReadResourceAssignmentSpreadZip Elements:

Field	Туре	Description
		The unique identifier for the ResourceAssignment.
ResourceAssignmentObjectId	int	You can specify one or more ResourceAssignmentO bjectId.
PeriodType	SpreadPeriodType string restricted to Hour Day Week Month Quarter	Spread period type enumerations are used to specify the spread interval for EPS, project, WBS, Activity, and resource assignment spreads.

	Year FinancialPeriod	
StartDate	dateTime	The start of the time period that you are interested in.
EndDate	dateTime	The end of the time period that you are interested in.
IncludeCumulative	boolean	Set IncludeCumulative to true to read cumulative spread data.
SpreadField	ResourceAssignmentSpr eadFieldType string restricted to ActualCost ActualOvertimeCost ActualOvertimeUnits ActualRegularCost ActualRegularUnits ActualRegularUnits ActualUnits AtCompletionUnits PlannedCost PlannedUnits RemainingLateCost RemainingLateCost RemainingLateUnits RemainingUnits StaffedRemainingLateCo st StaffedRemainingLateUn its StaffedRemainingLateUn its	The fields you want to include in the spread. Specify one to many SpreadField elements.

UnstaffedRemainingLate Cost UnstaffedRemainingLate Units UnstaffedRemainingUnit s PeriodActualCost PeriodActualUnits	
PeriodActualUnits PeriodAtCompletionCost PeriodAtCompletionUnits	

Message: ReadResourceAssignmentSpreadZipResponse

UpdateResourceAssignmentSpread Operation

Service: Spread Service (on page 959)

Style: Document/literal wrapped

Input:

Message: UpdateResourceAssignmentSpread Elements:

Field	Туре	Description
PeriodType	SpreadPeriodType string restricted to Hour Day Week Month Quarter Year FinancialPeriod	Spread period type enumerations are used to specify the spread interval for EPS, project, WBS, Activity, and resource assignment spreads.

ResourceAssignmentSpre ad	ResourceAssignmentObjectI d Period StartDate PlannedUnits RemainingUnits	The live resource assignment spread data.
ResourceAssignmentObje ctId	int	The unique ID of the associated resource assignment.
Period	StartDate PlannedUnits RemainingUnits	
StartDate	dateTime	The start of the time period that you are interested in.
PlannedUnits	double	The planned units of work for the resource assignment on the activity. This field is named BudgetedUnits in Primavera's Engineering & Construction and Maintenance & Turnaround solutions.
RemainingUnits	double	The remaining units of work to be performed by this resource on this activity. Before the activity is started, the remaining units are the same as the planned units. After the activity is completed, the remaining units are zero.

Message: UpdateResourceAssignmentSpreadResponse Elements: One to many elements that contain the following fields:

Field	Туре
Return	boolean

SyncServiceV1 Service

Operations:

ReadProjectBudget Operation (on page 1039) ReadProject Operation (on page 1041) ResolveProjects Operation (on page 1045) ReadResource Operation (on page 1048) ReadResourceHours Operation (on page 1049) ReadProjectByProjectCode Operation (on page 1050) UpdateProject Operation (on page 1051) UpdateResource Operation (on page 1054) UpdateGlobalObjects Operation (on page 1055) ReadGlobalObjects Operation (on page 1062)

WSDL: V1.wsdl

Primary Key Field: Object ID

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/Sync/V1

Default Transport URLs:

http://<hostname>:<port number>/p6/ws/services/SyncServiceV1?wsdl https://<hostname>:<port number>/p6/ws/services/SyncServiceV1?wsdl

Java Client Stub Class:

com.primavera.ws.p6.authentication.SyncServiceV1

Description:

The SyncServiceV1 service enables you to connect to P6 EPPM from an external application. Use this web service to setup connectivity with P6 EPPM from an external application such a Primavera Gateway.

ReadProjectBudget Operation

Description: Reads the project budget data.

Service: SyncServiceV1 Service (on page 1039)

Style: Document/literal wrapped

Input:

Message: ReadProjectBudget Elements:

Field	Туре	Description
ProjectObjectId	int	The unique ID of the associated project.
ProjectBudgetScope	string restricted to Project Top Level Lowest	The scope of the project budget.
IncludeSummaryType	boolean	An indicator that determines whether to include SummaryType with the project budget.
WBSLevel	int	The WBS levels to be included with the project budget.
BusinessObjectOptions	BusinessObjectOptions Element (on page 380)	Specifies which business objects to export according to the following rules: If no BusinessObjectOptio ns are specified, then all of the business objects in the project are exported. If any BusinessObjectOptio ns are specified, then only those business objects specified by the BusinessObjectOptio ns element are exported.

Message: ReadProjectBudgetResponse Elements: A ProjectBudgetResponse element that contains the following fields:

Field	Туре	Description
Project	ProjectType	Project data of a project identified in P6.
WBS	WBSType	Work Breakdown Structure associated with the project.
ResourceSummary	ResourceSummaryType	Summary of the resources associated with the project.
RoleSummary	RoleSummaryType	Summary of roles associated with the project.
ExpenseSummary	ExpenseSummaryType	Summary of expenses associated with the project.

ReadProject Operation

Description: Reads the project data.

Service: SyncServiceV1 Service (on page 1039)

Style: Document/literal wrapped

Input:

Message: ReadProject Elements:

Field	Туре	Description
RequestSettings	ReadProjectRequestSettingsT ype	The settings used while reading a project.
ProjectObjectId	int	The unique ID of the associated project.
WBSLevel	int	The WBS levels to be included with the project budget.
SkipOrdering	boolean	An indicator that determines whether to skip ordering
PagingObjectLimit	int	The maximum number of objects to get per page of the response. Specifying this limit turns on paging.
BusinessObjectOptions	<i>BusinessObjectOptions Element</i> (on page 380)	Specifies which business objects to export according to the following rules: If no BusinessObjectOptio ns are specified, then all of the business objects in the project are exported. If any BusinessObjectOptio ns are specified, then only those business objects specified by the BusinessObjectOptio ns element are exported.

Message: ReadProjectResponse

Elements: A ReadProjectResponse element that contains the following fields:

Field	Туре	Description
Role	RoleType	The roles included in the project.
Resource	ResourceType	The resources included in the project.
Calendar	CalendarType	The calendar associated with the project.
RiskThreshold	RiskThresholdType	The risk threshold associated with the project.
RiskThresholdlevel	RiskThresholdLevelType	The risk threshold level associated with the project.
RiskMatrix	RiskMatrixType	The risk matrix associated with the project.
RiskMatrixScore	RiskMatrixScoreType	The risk matrix score associated with the project.
RiskMatrixThreshold	RiskMatrixThresholdType	The risk matrix threshold associated with the project.
Project	ProjectType	The project identified in P6 EPPM.
BaselineProject	BaselineProjectType	The baseline project associated with the project.
WBS	WBSType	The WBS associated with the project.

CBS	CBSType	The CBS associated with the project.
CBSDurationSummary	CBSDurationSummaryType	The CBS Duration Summary associated with the project.
ProjectResource	ProjectResourceType	The project resource associated with the project.
Activity	ActivityType	The activity associated with the project.
ResourceAssignment	ResourceAssignmentType	The Resource Assignment associated with the project.
ActivityExpense	ActivityExpenseType	The Activity Expense associated with the project.
ActivityNote	ActivityNoteType	The Activity Note associated with the project.
Relationship	RelationshipType	The relationships associated with the project.
Risk	RiskType	The risks associated with the project.
ActivityRisk	ActivityRiskType	The activity risk associated with the project.
RiskImpact	RiskImpactType	The risk impact associated with the project.
RiskResponsePlan	RiskResponsePlanType	The risk response plan associated with the project.

RiskResponseAction	RiskResponseActionType	The risk response actions associated with the project.
RiskResponseActionImpact	RiskResponseActionImpactTy pe	The risk response action impacts associated with the projects.
LeanTask	LeanTaskType	The tasks associated with each activity in a project integrated with the Oracle Primavera Cloud Tasks app.
ActivityStep	ActivityStepType	The activity steps associated with each activity in the project.
PagingKey		
ProcessedGlobalObjects		

ResolveProjects Operation

Description: Retrieves ProjectType of a ProjectObjectID.

Service: SyncServiceV1 Service (on page 1039)

Style: Document/literal wrapped

Input:

Message: ResolveProjects Elements:

Field	Туре	Description
Code	CodeAssignmentType	The Assignment Codes associated with the project.

Project	ProjectOption	The project identified in P6 EPPM.
ProjectIds	lds	The unique ID of the project.
EPSIds	lds	The EPS ID associated with the project.
UpdatedSince	dateTime	Optional date used to filter results on the basis of comparing against the LastUpdateDate of the objects specified in the UpdatedSinceObject s list. Only objects updated after the specified UpdatedSince date will be returned.

UpdatedSinceObjects	string	Optional comma separated list of child object types of the project object to return if the objects have been updated since the UpdatedSince date specified. The object types available are: 'Project' 'WBS' 'Activity' 'ResourceAssignmen t' 'ActivityCode' 'ActivityCode' 'ActivityCodeType(pr oject)' 'ActivityExpense' 'ActivityRisk' 'ActivityRisk' 'ActivityStep' 'Calendar' 'CBS' 'LeanTask' 'ProjectResource' 'Relationship' 'RiskImpact' 'RiskResponseAction Impact' 'RiskResponsePlan'
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Message: ResolveProjectsResponse

Elements: A ReadProjectResponse element that contains the following field:

Field	Туре	Description
Project	ProjectType	The projects identified in P6 EPPM.

ReadResource Operation

Description: Reads the Resource data.

Service: SyncServiceV1 Service (on page 1039)

Style: Document/literal wrapped

Input:

Message: ReadResource Elements:

Field	Туре	Description
ResourceObjectId	int	The Resource Object Ids associated with a resource.
Filter	string	The filter criteria for Resource Objects.
ReadResourceOptions	ReadResourceOptions	The Resource fields that need to be read.

Output:

Message: ReadResourceResponse

Elements: A ReadResourceResponse element that contains the following fields:

Field	Turne	Description
	Туре	The Resources
Resource	ResourceType	associated with a project in P6 EPPM.
ResourceRate	ResourceRateType	The resource rates associated with each resource.

ReadResourceHours Operation

Description: Reads the ResourceHours.

Service: SyncServiceV1 Service (on page 1039)

Style: Document/literal wrapped

Input:

Message: ReadResourceHours Elements:

Field	Туре	Description
Project	ProjectRollupType	The project identified in P6 EPPM.
Filter	ResourceHoursFilterType	The search criteria filter.
ReadResourceHoursOptions	ReadResourceHoursOptions	The ResourceHours fields that need to be read.

Output:

Message: ReadResourceHoursResponse

Elements: A ReadResourceHoursResponse element that contains the following field:

	Turne	Description
Field	Туре	Description
ResourceHour	ResourceHourType	The resource-timesheet hours.
Project	ProjectType	The project identified in P6 EPPM.

TimesheetPeriod	TimesheetPeriodType	The timesheet period associated with the resource.
Timesheet	TimesheetType	The timesheets associated with the resource.

ReadProjectByProjectCode Operation

Description: Reads projects by project code.

Service: SyncServiceV1 Service (on page 1039)

Style: Document/literal wrapped

Input:

Message: ReadProjectByProjectCode Elements:

Field	Туре	Description
Code		The project codes associated with a project.
Project	ProjectOption	The project field name.

Output:

Message: ReadProjectByProjectCodeResponse

Elements: A ReadProjectByProjectCodeResponse element that contains the following field:

Field	Туре	Description
Project		The project identified in P6 EPPM.

UpdateProject Operation

Description: Reads and updates the project data in P6 EPPM.

Service: SyncServiceV1 Service (on page 1039)

Style: Document/literal wrapped

Input:

Message: UpdateProject Elements:

Field	Туре	Description
RequestSettings	UpdateProjectRequestSettings Type	The settings required while updating project data.
Project	ProjectType	The Project identified in P6 EPPM.
BaselineProject	BaselineProjectType	The baseline associated with the project.
Calendar	CalendarType	The calendar associated with the project.
WBS	WBSType	The Work Breakdown Structure of the project.
CBS	СВЅТуре	The Cost Breakdown Structure of the project.
ActivityCodeType	ActivityCodeTypeType	The activity code types of the project.
Activity	ActivityType	The activities of the project.
ActivityExpense	ActivityExpenseType	The activity expenses of the project.

ActivityNote	ActivityNoteType	The activity notes of the project.
ResourceAssignment	ResourceAssignmentType	The resource assignments of the project.
ProjectResource	ProjectResourceType	The project resources of the project.
Relationship	RelationshipType	The relationships of the project.
Risk	RiskType	The risks associated with the project.
ActivityRisk	ActivityRiskType	The activity risks associated with the project.
RiskImpact	RiskImpactType	The risk impacts of the project.
RiskResponsePlan	RisResponsePlanType	The risk response plans of the project.
RiskResponseAction	RiskResponseActionType	The risk response actions of the project.
LeanTask	LeanTaskType	The tasks associated with each activity in a project integrated with the Oracle Primavera Cloud Tasks app.
ActivityStep	ActivityStepType	The activity steps associated with the activities of project.

Message: UpdateProjectResponse

Elements: An UpdateProjectesponse element that contains the following fields:

Field	Туре	Description
ProjectResponse	GeneralResponseType	The projects identified in P6 EPPM.
BaselineProjectResponse	GeneralResponseType	The baseline project of the projects.
CalendarResponse	GeneralResponseType	The calendar associated with the project.
WBSResponse	GeneralResponseType	The Work Breakdown Structure of the project.
CBSResponse	GeneralResponseType	The Cost Breakdown Structure of the project.
ActivityCodeTypeResponse	GeneralResponseType	The Activity Code Types of the project.
ActivityCodeResponse	GeneralResponseType	The Activity Codes of the project.
ActivityExpenseResponse	GeneralResponseType	The Activity Expense Response of the project.
ActivityNoteResponse	GeneralResponseType	The Activity Notes of the project.
ResourceAssignmentResponse	GeneralResponseType	The Resource Assignments of the project.
ProjectResourceResponse	GeneralResponseType	The Project Resources of the project.
RelationshipResponse	GeneralResponseType	The Relationships of the project.
RiskResponse	GeneralResponseType	The risk responses of the project.

ActivityRiskResponse	CustomResponseType	The activity risk responses of the project.
RiskImpactResponse	CustomResponseType	The risk impact responses of the project.
RiskResponsePlanResponse	GeneralResponseType	The risk response plans of the project.
RiskResponseActionResponse	GeneralResponseType	The risk response actions of the project.
RiskResponseActionImpactRes ponse	CustomResponseType	The risk response action impacts of the project.
ActivityStepResponse	GeneralResponseType	The activity steps associated with each activity in a project.
LeanTaskResponse	GeneralResponseType	The tasks associated with each activity in a project integrated with the Oracle Primavera Cloud Tasks app.
DeleteUnreferencedResponse	DeleteUnreferencedResponse Type	The delete unreferenced items of a project.

UpdateResource Operation

Description: Updates the Resource data of the P6 EPPM project.

Service: SyncServiceV1 Service (on page 1039)

Style: Document/literal wrapped

Input:

Message: UpdateResource Elements:

Field	Туре	Description
Resource	ResourceType	The resources in P6 EPPM.
ResourceRate	ResourceRateType	The resource rate of the resource.

Message: UpdateResourceResponse Elements: An UpdateResourceResponse element that contains the following fields:

Field	Туре	Description
ResourceResponse	GeneralResponseType	The resources in P6 EPPM.
ResourceRateResponse	GeneralResponseType	The resource rate of the resource.

UpdateGlobalObjects Operation

Description: Updates the global objects.

Service: SyncServiceV1 Service (on page 1039)

Style: Document/literal wrapped

Input:

Message: UpdateGlobalObjects Elements:

Field	Туре	Description
RequestSettings	UpdateGlobalRequestSettings Type	The Settings applicable while updating Global Objects.

		The Olehal
GlobalPreferences	GlobalPreferencesType	The Global Preferences Object of P6 EPPM.
UnitOfMeasure	UnitOfMeasureType	The Unit of Measure Object of P6 EPPM.
CostAccount	CostAccountType	The Cost Account Object of P6 EPPM.
Currency	CurrencyType	The Currency Object of P6 EPPM.
UDFType	UDFTypeType	The UDF Types of P6 EPPM.
ExpenseCategory	ExpenseCategoryType	The Expense Category object of P6 EPPM.
NotebookTopic	NotebookTopicType	The Notebook Topic Object of P6 EPPM.
WBSCategory	WBSCategoryType	The WBS Category Object of P6 EPPM.
Calendar	CalendarType	The Calendar Object of P6 EPPM.
Location	LocationType	The Location Object of P6 EPPM.
ProjectCodeType	ProjectCodeTypeType	The Project Code Type Object of P6 EPPM.
ProjectCode	ProjectCodeType	The Project Code Object of P6 EPPM.
ResourceCodeType	ResourceCodeTypeType	The Resource Code Type Object of P6 EPPM.
ResourceCode	ResourceCodeType	The Resource Code Object of P6 EPPM.
ResourceCurve	ResourceCurveType	The Resource Curve Object of P6 EPPM.

Role	RoleType	The Role Object of P6 EPPM.
RoleCodeType	RoleCodeTypeType	The Role Code Type Object of P6 EPPM.
RoleCode	RoleCodeType	The Role Code Object of P6 EPPM.
ResourceAssignmentCode	ResourceAssignmentCodeTyp e	The Assignment Code Object of P6 EPPM.
ResourceAssignmentCodeType	ResourceAssignmentCodeTyp eType	The Assignment Code Type Object of P6 EPPM.
RoleRate	RoleRateType	The RoleRate of P6 EPPM.
Resource	ResourceType	The Resource Object of P6 EPPM.
ResourceRate	ResourceRateType	The Resource Rate Object of a resource in P6 EPPM.
EPS	EPSType	The EPS Object of P6 EPPM.
ActivityCodeType	ActivityCodeTypeType	The Activity Code Type Object in P6 EPPM.
ActivityCode	ActivityCodeType	The Activity Code Object of P6 EPPM.
FinancialPeriod	FinancialPeriodType	The Financial Period Object of P6 EPPM.
ResourceRole	ResourceRoleType	The Resource Role Objects in P6 EPPM.
RiskThreshold	RiskThresholdType	The Risk Threshold Objects in P6 EPPM.

RiskThresholdLevel	RiskThresholdLevelType	The Risk Threshold Level Objects of P6 EPPM.
RiskMatrix	RiskMatrixType	The Risk Matrix Object of P6 EPPM.
RiskMatrixScore	RiskMatrixScoreType	The Risk Matrix Score Object of P6 EPPM.
RiskMatrixThreshold	RiskMatrixThresholdType	The Risk Matrix Threshold Object of P6 EPPM.
BaselineType	BaselineTypeType	The Baseline Type Object of P6 EPPM.

Message: UpdateGlobalObjectsResponse Elements: An UpdateGlobalObjectsResponse element that contains the following fields:

Field	Туре	Description
GlobalPreferencesResponse	GlobalPreferencesResponseT ype	
UnitOfMeasureResponse	GeneralResponseType	The response type the service returns for Unit Of Measure objects.
CostAccountResponse	GeneralResponseType	The response type the service returns for Cost Account objects.
CurrencyResponse	GeneralResponseType	The response type the service returns for Currency Response objects.

CostAccountResponse	GeneralResponseType	The response type the service returns for Cost Account objects.
CurrencyResponse	GeneralResponseType	The response type the service returns for Currency objects.
UDFTypeResponse	GeneralResponseType	The response type the service returns for UDF Type objects.
ExpenseCategoryResponse	GeneralResponseType	The response type the service returns for Expense Category objects.
NotebookTopicResponse	GeneralResponseType	The response type the service returns for Notebook Topic objects.
WBSCategoryResponse	GeneralResponseType	The response type the service returns for WBS Category objects.
CalendarResponse	GeneralResponseType	The response type the service returns for Calendar objects.
LocationResponse	GeneralResponseType	The response type the service returns for Location objects.
ProjectCodeTypeResponse	GeneralResponseType	The response type the service returns for Project Code Type objects.
ProjectCodeResponse	GeneralResponseType	The response type the service returns for Project Code objects.

ResourceCodeTypeResponse	GeneralResponseType	The response type the service returns for Resource Code Type objects.
ResourceCodeResponse	GeneralResponseType	The response type the service returns for Resource Code objects.
RoleResponse	GeneralResponseType	The response type the service returns for Role objects.
RoleCodeTypeResponse	GeneralResponseType	The response type the service returns for Role Code Type objects.
RoleCodeResponse	GeneralResponseType	The response type the service returns for Role Code objects.
ResourceAssignmentCodeResp onse	GeneralResponseType	The response type the service returns for Assignment Code objects.
ResourceAssignmentCodeType Response	GeneralResponseType	The response type the service returns for Assignment Code Type objects.
RoleRateResponse	GeneralResponseType	The response type the service returns for Role Rate objects.
ResourceResponse	GeneralResponseType	The response type the service returns for Resource objects.
ResourceCurveResponse	GeneralResponseType	The response type the service returns for Resource Curve objects.

ResourceRateResponse	GeneralResponseType	The response type the service returns for Resource Rate objects.
ResourceRoleResponse	GeneralResponseType	The response type the service returns for Resource Role objects.
EPSResponse	GeneralResponseType	The response type the service returns for EPS objects.
ActivityCodeTypeResponse	GeneralResponseType	The response type the service returns for Activity Code Type objects.
ActivityCodeResponse	GeneralResponseType	The response type the service returns for Activity Code objects.
FinancialPeriodResponse	GeneralResponseType	The response type the service returns for Financial Period objects.
BaselineTypeResponse	GeneralResponseType	The response type the service returns for Baseline Type objects.
RiskThresholdResponse	GeneralResponseType	The response type the service returns for Risk Threshold objects.
RiskThresholdLevelResponse	GeneralResponseType	The response type the service returns for Risk Threshold Level objects.

RiskMatrixResponse	GeneralResponseType	The response type the service returns for Risk Matrix objects.
RiskMatrixScoreResponse	GeneralResponseType	The response type the service returns for Risk Matrix Score objects.
RiskMatrixThresholdResponse	GeneralResponseType	The response type the service returns for Risk Matrix Threshol d objects.

ReadGlobalObjects Operation

Description: Reads global objects.

Service: SyncServiceV1 Service (on page 1039)

Style: Document/literal wrapped

Input:

Message: ReadGlobalObjects Elements:

Field	Туре	Description
RequestSettings	ReadGlobalRequestSettingsT ype	The settings for a ReadGlobalObjects request.
GlobalPreferences	ReadGlobalPreferencesOption	The global filter criteria and columns read during a ReadGlobalObjects request.

UnitOfMeasure	ReadUnitOfMeasureOption	The filter criteria and columns for Unit of Measure objects.
CostAccount	ReadCostAccountOption	The filter criteria and columns for Cost Account objects.
Currency	ReadCurrencyOption	The filter criteria and columns for Currency objects.
UDFType	ReadUDFOption	The filter criteria and columns for UDF Type objects.
ExpenseCategory	ReadExpenseCategoryOption	The filter criteria and columns for Expense Category objects.
NotebookTopic	ReadNotebookTopicOption	The filter criteria and columns for Notebook Topic objects.
WBSCategory	ReadWBSCategoryOption	The filter criteria and columns for WBS Category objects.
Calendar	ReadCalendarOption	The filter criteria and columns for Calendar objects.
Location	ReadLocationOption	The filter criteria and columns for Location objects.
ProjectCodeType	ReadProjectCodeTypeOption	The filter criteria and columns for Project Code Type objects.

ProjectCode	ReadProjectCodeOption	The filter criteria and columns for Project Code objects.
ResourceCodeType	ReadResourceCodeTypeOptio n	The filter criteria and columns for Resource Code Type objects.
ResourceCode	ReadResourceCodeOption	The filter criteria and columns for Resource Code objects.
RoleCodeType	ReadRoleCodeTypeOption	The filter criteria and columns for Role Code Type objects.
RoleCode	ReadRoleCodeOption	The filter criteria and columns for Role Code objects.
ResourceAssignmentCode	ResourceAssignmentCodeTyp e	The filter criteria and columns for Assignment Code objects.
ResourceAssignmentCodeType	ResourceAssignmentCodeTyp eType	The filter criteria and columns for Assignment Code Type objects.
ResourceCurve	ResourceCurveType	The filter criteria and columns for Resource Curve objects.
Role	RoleType	The filter criteria and columns for Role objects.
RoleRate	RoleRateType	The filter criteria and columns for Role Rate objects.

RoleLimit	RoleLimitType	The filter criteria and columns for Role Limit objects.
Resource	ResourceType	The filter criteria and columns for Resource objects.
ResourceRate	ResourceRateType	The filter criteria and columns for Resource Rate objects.
EPS	EPSType	The filter criteria and columns for EPS objects.
ActivityCodeType	ActivityCodeTypeType	The filter criteria and columns for Activity Code Type objects.
ActivityCode	ActivityCodeType	The filter criteria and columns for Activity Code objects.
FinancialPeriod	FinancialPeriodType	The filter criteria and columns for Financial Period objects.
ResourceRole	ReadResourceRoleOption	The filter criteria and columns for Resource Role objects.
RiskThreshold	RiskThresholdType	The filter criteria and columns for Risk Threshold objects.
RiskThresholdLevel	RiskThresholdLevelType	The filter criteria and columns for Risk Threshold Level objects.

RiskMatrix	RiskMatrixType	The filter criteria and columns for Risk Matrix objects.
RiskMatrixScore	RiskMatrixScoreType	The filter criteria and columns for Risk Matrix Score objects.
RiskMatrixThreshold	RiskMatrixThresholdType	The filter criteria and columns for Risk Matrix Threshol d objects.
BaselineType	BaselineTypeType	The filter criteria and columns for Baseline Type objects.

Message: ReadGlobalObjectsResponse Elements: A ReadGlobalObjectsResponse element that contains the following fields:

Field	Туре	Description
GlobalPreferences	GlobalPreferencesType	
UnitOfMeasure	UnitOfMeasureType	The response type the service returns for Unit Of Measure objects.
CostAccount	CostAccountType	The response type the service returns for Cost Account objects.

Currency	CurrencyType	The response type the service returns for Currency Response objects.
UDFType	UDFTypeType	The response type the service returns for UDF Type objects.
ExpenseCategory	ExpenseCategoryType	The response type the service returns for Expense Category objects.
NotebookTopic	NotebookTopicType	The response type the service returns for Notebook Topic objects.
WBSCategory	WBSCategoryType	The response type the service returns for WBS Category objects.
Calendar	CalendarType	The response type the service returns for Calendar objects.
Location	LocationType	The response type the service returns for Location objects.
ProjectCodeType	ProjectCodeTypeType	The response type the service returns for Project Code Type objects.
ProjectCode	ProjectCodeType	The response type the service returns for Project Code objects.

ResourceCodeType	ResourceCodeTypeType	The response type the service returns for Resource Code Type objects.
ResourceCode	ResourceCodeType	The response type the service returns for Resource Code objects.
ResourceCurve	ResourceCurveType	The response type the service returns for Resource Curve objects.
Role	RoleType	The response type the service returns for Role objects.
RoleCodeType	RoleCodeTypeType	The response type the service returns for Role Code Type objects.
RoleCode	RoleCodeType	The response type the service returns for Role Code objects.
ResourceAssignmentCode	ResourceAssignmentCodeTyp e	The response type the service returns for Assignment Code objects.
ResourceAssignmentCodeType	ResourceAssignmentCodeTyp eType	The response type the service returns for Assignment Code Type objects.
RoleRate	RoleRateType	The response type the service returns for Role Limit objects.

RoleLimit	RoleLimitType	The response type the service returns for Role Rate objects.
Resource	ResourceType	The response type the service returns for Resource objects.
ResourceRate	ResourceRateType	The response type the service returns for Resource Rate objects.
EPS	EPSType	The response type the service returns for EPS objects.
ActivityCodeType	ActivityCodeTypeType	The response type the service returns for Activity Code Type objects.
ActivityCode	ActivityCodeType	The response type the service returns for Activity Code objects.
FinancialPeriod	FinancialPeriodType	The response type the service returns for Financial Period objects.
ResourceRole	ResourceRoleType	The response type the service returns for Resource Role objects.
RiskThreshold	RiskThresholdType	The response type the service returns for Risk Threshold objects.

RiskThresholdLevel	RiskThresholdLevelType	The response type the service returns for Risk Threshold Level objects.
RiskMatrix	RiskMatrixType	The response type the service returns for Risk Matrix objects.
RiskMatrixScore	RiskMatrixScoreType	The response type the service returns for Risk Matrix Score objects.
RiskMatrixThreshold	RiskMatrixThresholdType	The response type the service returns for Risk Matrix Threshol d objects.
BaselineType	BaselineTypeType	The response type the service returns for Baseline Type objects.

Timesheet Services

OverheadCode Service

Operations:

CreateOverheadCodes Operation (on page 1071) ReadOverheadCodes Operation (on page 1071) UpdateOverheadCodes Operation (on page 1072) DeleteOverheadCodes Operation (on page 1072) GetFieldLengthOverheadCode Operation (on page 1072)

WSDL: OverheadCode.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/OverheadCode/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/OverheadCodeService?wsdl https://<hostname>:<port number>/p6ws/services/OverheadCodeService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.overheadcode.OverheadCodeService

Description:

Overhead codes are used to log timesheet hours for activities, which are not associated with any current projects.

CreateOverheadCodes Operation

Description: Creates multiple OverheadCode objects in the database. You can create up to 1000 OverheadCode objects with a single call.

Service: OverheadCode Service (on page 1070)

Style: Document/literal wrapped

Input:

Message: CreateOverheadCodes

Elements: OverheadCode elements that contain **OverheadCode Fields** (on page 1073) fields

Required fields:

- Name
- Description

Output:

Message: CreateOverheadCodesResponse Output: Zero to many ObjectId elements

ReadOverheadCodes Operation

Description: Reads OverheadCode objects from the database.

Service: OverheadCode Service (on page 1070)

Style: Document/literal wrapped

Input:

Message: ReadOverheadCodes

Elements: One to many field names from the **OverheadCode Fields** (on page 1073) field list

You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadOverheadCodesResponse

Output: Zero to many OverheadCode elements that contain OverheadCode fields.

UpdateOverheadCodes Operation

Description: Updates multiple OverheadCode objects in the database. You can update up to 1000 OverheadCode objects with a single call.

Service: OverheadCode Service (on page 1070)

Style: Document/literal wrapped

Input:

Message: UpdateOverheadCodes

Elements: OverheadCode elements that contain **OverheadCode Fields** (on page 1073) fields.

Required fields: The ObjectId must be specified.

Output:

Message: UpdateOverheadCodesResponse Output: boolean

DeleteOverheadCodes Operation

Description: Deletes multiple OverheadCode objects in the database. You can delete up to 1000 OverheadCode objects with a single call.

Service: OverheadCode Service (on page 1070)

Style: Document/literal wrapped

Input:

Message: DeleteOverheadCodes Elements: One to many ObjectId elements

Output:

Message: DeleteOverheadCodesResponse Output: boolean

GetFieldLengthOverheadCode Operation

Description: Returns length of variable character fields for a BO.

Service: OverheadCode Service (on page 1070)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthOverheadCode Elements: FieldLength

Output:

Message: GetFieldLengthOverheadCode Elements: One to many FieldLengthOverheadCodes.

OverheadCode Fields

Field	Туре	Read Only	Filterable Orderable	Description
CreateDate	dateTime	х	x	The date this nonworktype was created.
CreateUser	string restricted to maxLength(2 55)	x	x	The name of the user that created this nonworktype.
Description	string restricted to maxLength(4 0)		x	The description of the overhead code.
LastUpdate Date	dateTime	х	х	The date this nonworktype was last updated.
LastUpdate User	string restricted to maxLength(2 55)	x	x	The name of the user that last updated this nonworktype.
Name	string restricted to maxLength(3 2)		x	The name of the overhead code.
ObjectId	int		x	The unique ID generated by the system.

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ResourceHour Service

Operations:

CreateResourceHours Operation (on page 1074) ReadResourceHours Operation (on page 1075) UpdateResourceHours Operation (on page 1075) DeleteResourceHours Operation (on page 1076) GetFieldLengthResourceHour Operation (on page 1076)

WSDL: ResourceHour.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/ResourceHour/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/ResourceHourService?wsdl https://<hostname>:<port number>/p6ws/services/ResourceHourService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.resourcehour.ResourceHourService

Description:

A resource hour corresponds to an entry on a timesheet edited in Timesheets. Resource hours may not be exported directly by the XMLExporter, but all child resource hours are exported automatically when exporting timesheets. Resource hours are read only.

CreateResourceHours Operation

Description: Creates multiple ResourceHour objects in the database. You can create up to 1000 ResourceHour objects with a single call.

Service: ResourceHour Service (on page 1074)

Style: Document/literal wrapped

Input:

Message: CreateResourceHours

Elements: ResourceHour elements that contain *ResourceHour Fields* (on page 1076) fields Required fields: The following fields are required when creating the ResourceHour object:

- OverheadCodeObjectId|ResourceAssignmentObjectId
- ResourceObjectId
- TimesheetPeriodObjectId

Message: CreateResourceHoursResponse Output: Zero to many ObjectIds

ReadResourceHours Operation

Description: Reads ResourceHour objects from the database.

Service: ResourceHour Service (on page 1074)

Style: Document/literal wrapped

Input:

Message: ReadResourceHours

Elements: One to many fields from the **ResourceHour Fields** (on page 1076) field list You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadResourceHoursResponse

Output: Zero to many ResourceHour elements that contain ResourceHour fields.

UpdateResourceHours Operation

Description: Updates multiple ResourceHour objects in the database. You can update up to 1000 ResourceHour objects with a single call.

Service: ResourceHour Service (on page 1074)

Style: Document/literal wrapped

Input:

Message: UpdateResourceHours

Elements: ResourceHour elements that contain *ResourceHour Fields* (on page 1076) fields

Output:

Message: UpdateResourceHoursResponse Output: boolean

DeleteResourceHours Operation

Description: Deletes multiple ResourceHour objects in the database. You can delete up to 1000 ResourceHour objects with a single call.

Service: ResourceHour Service (on page 1074)

Style: Document/literal wrapped

Input:

Message: DeleteResourceHours Elements: One to many ObjectIds

Output:

Message: DeleteResourceHoursResponse Output: boolean

GetFieldLengthResourceHour Operation

Description: Returns length of variable character fields for a BO.

Service: ResourceHour Service (on page 1074)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthResourceHour Elements: FieldLength

Output:

Message: GetFieldLengthResourceHourResponse Elements: One to many FieldLengthResourceHours.

ResourceHour Fields

Field	Туре	Read Only	Filterable Orderable	Description
ActivityObjectI d	int	x	x	The unique ID of the activity to which the resource is assigned.
ActivityTimesh eetLinkFlag	boolean		x	the value which indicates if the record is a real timesheet entry (false) or simply a

				placeholder for a timesheet entry (true).
ApprovedHour s	double		x	The number of hours, approved.
ApprovedOver timeHours	double		x	The number of overtime hours, approved.
CreateDate	dateTime	x	x	The date this data was created.
CreateUser	string	x	х	The name of the user that created this data.
Date	dateTime		x	The date to which the hours apply.
IsBaseline	boolean	x	x	The boolean value indicating if this business object is related to a Project or Baseline
IsTemplate	boolean	x	x	The boolean value indicating if this business object is related to a template Project.
LastUpdateDat e	dateTime	x	x	The date this data was last updated.
LastUpdateUs er	string	x	x	The name of the user that last updated this data.
ObjectId	int		х	The unique ID generated by the system.
OverheadCod eName	string restricted to maxLength(3	x	x	The name of the overhead code.

	2)			
OverheadCod eObjectId	int		x	The unique ID of the overhead code, if the hours are for an overhead activity.
ProjectId	string restricted to maxLength(4 0)	x	x	The short code that uniquely identifies the project.
ProjectName	string restricted to maxLength(1 00)	x	x	The name of the associated project.
ProjectObjectI d	int		x	The unique ID of the associated project.
ResourceAssi gnmentObjectI d	int		x	The unique ID of the associated resource assignment.
Resourceld	string restricted to maxLength(2 55)	x	x	The short code that uniquely identifies the resource.
ResourceInteg ratedType	string restricted to " 'ERP' 'Fusion' 'Gateway' 'PrimaveraCl oudScope'	X	X	The flag indicating whether the resource is integrated with an Enterprise Resource Planning (ERP) system. 'Fusion' indicates the resource is integrated with Oracle Fusion. 'ERP' indicates the resource is integrated with another ERP

				system. 'Gateway' indicates the resource is integrated with Oracle Primavera Gateway.
ResourceNam e	string restricted to maxLength(2 55)	x	x	The name of the resource.
ResourceObje ctId	int		x	The unique ID of the associated resource.
Status	string restricted to " 'Submitted' 'Approved' 'Resource Manager Approved' 'Project Manager Approved' 'Active' 'Rejected' 'Resubmitted ' 'Reopened' 'Submitted for RM' 'Resubmitted for RM'		X	The approval level, when timesheets require approval: 'Submitted', 'Approved', 'Resource Manager Approved', 'Project Manager Approved', 'Active', or 'Rejected'.
TimesheetPeri odObjectId	int		x	The unique ID of the associated timesheet.
TimesheetStat usDate	dateTime	x	x	The status date of the associated timesheet.
UnapprovedH ours	double		х	The actual non-overtime units submitted by

				the resource on the activity. These units remain submitted until the timesheet is approved.
UnapprovedO vertimeHours	double		x	The actual overtime units submitted by the resource on the acitivity. These units remain submitted until the timesheet is approved.
WBSObjectId	int	х		The unique ID of the WBS for the activity.

TimesheetAudit Service

Operations:

ReadTimesheetAudits Operation (on page 1081) *GetFieldLengthTimesheetAudit Operation* (on page 1081)

WSDL: TimesheetAudit.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/TimesheetAudit/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/TimesheetAuditService?wsdl https://<hostname>:<port number>/p6ws/services/TimesheetAuditService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.timesheetaudit.TimesheetAuditService

Description:

The timesheet audit class facilitates reading the timesheet audit records, added to the PM database as triggered by user activity, one record at a time. Fields that can be loaded on the TimesheetAudit object include information about the approval and rejection history (e.g., reviewers and review dates), information about the timesheets (e.g., number of overhead, overtime, and project hours), and information about the audit (e.g., the date the timesheet audit was created). Timesheet audits are readonly.

ReadTimesheetAudits Operation

Description: Reads TimesheetAudit objects from the database.

Service: TimesheetAudit Service (on page 1080)

Style: Document/literal wrapped

Input:

Message: ReadTimesheetAudits

Elements: One to many field names from the *TimesheetAudit Fields* (on page 1081) field list

You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadTimesheetAuditsResponse

Output: Zero to many TimesheetAudit elements that contain TimesheetAudit fields.

GetFieldLengthTimesheetAudit Operation

Description: Returns length of variable character fields for a BO.

Service: TimesheetAudit Service (on page 1080)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthTimesheetAudit Elements: FieldLength

Output:

Message: GetFieldLengthTimesheetAuditResponse Elements: One to many FieldLengthTimesheetAudits.

TimesheetAudit Fields

Field	Туре	Read Only	Filterable Orderable	Description
ApproverUserN ame	string	x	x	The user name of the approver.
ApproverUserO	int	Х	Х	The unique user

bjectId				ID of the approver.
AuditDate	dateTime	x	x	The date this timesheet audit was created.
ObjectId	int	x	x	The unique ID generated by the system.
OverheadHours	double	x	x	The total overhead hours for the timesheet.
OverheadOverti meHours	double	x	x	The total overhead overtime hours for the timesheet.
PendingOverhe adHours	double	x	x	The total pending overhead hours for the timesheet.
PendingOverhe adOvertimeHou rs	double	x	x	The total pending overhead overtime hours for the timesheet.
PendingProject Hours	double	x	x	The total pending project hours for the timesheet.
PendingProject OvertimeHours	double	x	x	The total pending project overtime hours for the timesheet.
ProjectHours	double	x	x	The total project hours for the timesheet.
ProjectId	string	x	x	The short code that uniquely identifies the project.
ProjectObjectId	int	x	x	The unique ID of the associated project.
ProjectOvertime Hours	double	x	х	The total project overtime hours

				for the timesheet.
Resourceld	string	x	x	The short code that uniquely identifies the resource.
ResourceName	string	x	x	The name of the resource.
ResourceObject Id	int	x	x	The unique ID of the associated resource.
TimesheetActivi tyStatus	string restricted to 'Submitted' 'Approved' 'Resource Manager Approved' 'Project Manager Approved' 'Active' 'Rejected' 'Resubmitted for RM' 'Resubmitted for RM'	X	X	The status of the timesheet activity, the value of which will depend on who approved or rejected it. Valid values are 'Submitted', 'Approved', 'Resource Manager Approved', 'Project Manager Approved', and 'Rejected'.
TimesheetAppr ovingAs	string restricted to " 'Project Manager' 'Resource Manager' 'Project Manager Delegate' 'Resource Manager Delegate'	X	X	The role of the timesheet approver. Valid values are 'Project Manager', 'Resource Manager', 'Project Manager Delegate', and 'Resource Manager Delegate'.

TimesheetPerio dEndDate	dateTime	x	x	The timesheet period end date.
TimesheetPerio dObjectId	int	x	x	The unique ID of the timesheet period.
TimesheetPerio dStartDate	dateTime	x	x	The timesheet period start date.
TimesheetStatu s	string restricted to " 'Submitted' 'Approved' 'Resource Manager Approved' 'Project Manager Approved' 'Active' 'Rejected' 'Not Started' 'Resubmitted for RM' 'Resubmitted for RM'	X	X	The status of the timesheet. Valid values are 'Submitted', 'Approved', 'Resource Manager Approved', 'Project Manager Approved', and 'Rejected'.

TimesheetDelegate Service

Operations:

ReadTimesheetDelegates Operation (on page 1085) GetFieldLengthTimesheetDelegate Operation (on page 1085)

WSDL: TimesheetDelegate.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/TimesheetDelegate/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/TimesheetDelegateService?wsdl https://<hostname>:<port number>/p6ws/services/TimesheetDelegateService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.timesheetdelegate.TimesheetDelegateService

Description:

Timesheet delegates provide resource and project managers the ability to assign a user to process their timesheets as a delegate. After selecting a delegate for their resources or projects, the resource or project manager can activate and disable the delegate's approval rights at any time. Timesheet delegates for resource managers can review timesheets for resources to whom the resource manager has been assigned as a timesheet approval manager. Timesheet delegates for a project manager can review timesheets for resources who are assigned to activities within the project(s) for which the project manager has been granted approval rights. A project manager can delegate approval rights to different users for each project.

TimesheetDelegates are readonly.

ReadTimesheetDelegates Operation

Description: Reads TimesheetDelegate objects from the database.

Service: TimesheetDelegate Service (on page 1084)

Style: Document/literal wrapped

Input:

Message: ReadTimesheetDelegates

Elements: One to many field names from the *TimesheetDelegate Fields* (on page 1086) field list

You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadTimesheetDelegatesResponse Output: Zero to many TimesheetDelegate elements that contain TimesheetDelegate fields.

GetFieldLengthTimesheetDelegate Operation

Description: Returns length of variable character fields for a BO.

Service: TimesheetDelegate Service (on page 1084)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthTimesheetDelegate Elements: FieldLength

Output:

Message: GetFieldLengthTimesheetDelegateResponse Elements: One to many FieldLengthTimesheetDelegates.

TimesheetDelegate Fields

Field	Туре	Read Only	Filterable Orderable	Description
ActiveFlag	boolean	х	x	The flag indicating whether this delegate is active.
ApproverUser Name	string restricted to maxLength(3 2)	x	x	The approver user's login name.
ApproverUser ObjectId	int	х	х	The unique ID of the approver user.
CreateDate	dateTime	x	х	The date this timesheet delegate was created.
CreateUser	string restricted to maxLength(2 55)	x	x	The name of the user that created this timesheet delegate.
DelegateUser EmailAddress	string restricted to maxLength(1 20)	x	x	The delegate user's email address.
DelegateUser Name	string restricted to maxLength(2 55)	x	x	The delegate user's login name.

DelegateUser ObjectId	int	x	x	The unique ID of the delegate user.
LastUpdateD ate	dateTime	x	x	The date this timesheet delegate was last updated.
LastUpdateU ser	string	x	x	The name of the user that last updated this timesheet delegate.
ObjectId	int	x	x	The unique ID generated by the system.
ProjectObject Id	int	x	x	The unique ID of the associated project.

TimesheetPeriod Service

Operations:

CreateTimesheetPeriods Operation (on page 1088) ReadTimesheetPeriods Operation (on page 1088) UpdateTimesheetPeriods Operation (on page 1089) DeleteTimesheetPeriods Operation (on page 1089) GetFieldLengthTimesheetPeriod Operation (on page 1089)

WSDL: TimesheetPeriod.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/TimesheetPeriod/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/TimesheetPeriodService?wsdl https://<hostname>:<port number>/p6ws/services/TimesheetPeriodService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.timesheetperiod.TimesheetPeriodService

Description:

Timesheet periods indicate both the start date and duration of a group of assigned timesheets.

CreateTimesheetPeriods Operation

Description: Creates TimesheetPeriod objects in the database.

Service: TimesheetPeriod Service (on page 1087)

Style: Document/literal wrapped

Input:

Message: CreateTimesheetPeriods

Elements: TimesheetPeriod elements that contain *TimesheetPeriod Fields* (on page 1090) fields.

Required fields: The following fields are required when creating the TimesheetPeriod object:

- ObjectId
- StartDate
- EndDate

Output:

Message: CreateTimesheetPeriodsResponse Output: Zero to many ObjectId elements

ReadTimesheetPeriods Operation

Description: Reads TimesheetPeriod objects from the database.

Service: TimesheetPeriod Service (on page 1087)

Style: Document/literal wrapped

Input:

Message: ReadTimesheetPeriods

Elements: One to many field names from the *TimesheetPeriod Fields* (on page 1090) field list

You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadTimesheetPeriodsResponse

Output: Zero to many TimesheetPeriod elements that contain TimesheetPeriod fields.

UpdateTimesheetPeriods Operation

Description: Updates TimesheetPeriod objects in the database.

Service: TimesheetPeriod Service (on page 1087)

Style: Document/literal wrapped

Input:

Message: UpdateTimesheetPeriods

Elements: TimesheetPeriod elements that contain *TimesheetPeriod Fields* (on page 1090) fields.

Required fields: The following fields are required when creating the TimesheetPeriod object:

- ObjectId
- StartDate
- EndDate

Output:

Message: UpdateTimesheetPeriodsResponse Output: boolean

DeleteTimesheetPeriods Operation

Description: Deletes TimesheetPeriod objects from the database.

Service: TimesheetPeriod Service (on page 1087)

Style: Document/literal wrapped

Input:

Message: DeleteTimesheetPeriods Elements: One to many ObjectId elements

Output:

Message: DeleteTimesheetPeriodsResponse Output: boolean

GetFieldLengthTimesheetPeriod Operation

Description: Returns length of variable character fields for a BO.

Service: TimesheetPeriod Service (on page 1087)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthTimesheetPeriod Elements: FieldLength

Output:

Message: GetFieldLengthTimesheetPeriodResponse Elements: One to many FieldLengthTimesheetPeriods.

TimesheetPeriod Fields

Field	Туре	Read Only	Filterable Orderable	Description
CreateDate	dateTime	x	x	The date this timesheet period was created.
CreateUser	string restricted to maxLength(2 55)	x	x	The name of the user that created this timesheet period.
EndDate	dateTime		x	The timesheet period end date.
LastUpdate Date	dateTime	x	x	The date this timesheet period was last updated.
LastUpdate User	string restricted to maxLength(2 55)	x	x	The name of the user that last updated this timesheet period.
ObjectId	int		x	The unique ID generated by the system.
StartDate	dateTime		x	The timesheet period start date.

Timesheet Service

Operations:

CreateTimesheets Operation (on page 1091) ReadTimesheets Operation (on page 1092) UpdateTimesheets Operation (on page 1092) DeleteTimesheets Operation (on page 1092)

GetFieldLengthTimesheet Operation (on page 1093)

WSDL: Timesheet.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/Timesheet/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/TimesheetService?wsdl https://<hostname>:<port number>/p6ws/services/TimesheetService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.timesheet.TimesheetService

Description:

Timesheets are used to allow resources to enter status. Timesheets are read only in the Integration API.

Description:

Timesheets are used to allow resources to enter status.

This business object has a multi-part object ID; its object ID is a combination of its timesheet period object ID and its resource object ID.

CreateTimesheets Operation

Description: Creates multiple Timesheet objects in the database. You can create up to 1000 Timesheet objects with a single call.

Service: Timesheet Service (on page 1090)

Style: Document/literal wrapped

Input:

Message: CreateTimesheets

Elements: Timesheet elements that contain *Timesheet Fields* (on page 1093) fields

Required fields:

- ResourceObjectId
- TimesheetPeriodObjectId

Output:

Message: CreateTimesheetsResponse Output: Zero to many ObjectIds

ReadTimesheets Operation

Description: Reads Timesheet objects from the database.

Service: Timesheet Service (on page 1090)

Style: Document/literal wrapped

Input:

Message: ReadTimesheets

Elements: One to many fields from the Timesheet Fields (on page 1093) field list

You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadTimesheetsResponse Output: Zero to many Timesheet elements that contain Timesheet fields.

UpdateTimesheets Operation

Description: Updates multiple Timesheet objects in the database. You can update up to 1000 Timesheet objects with a single call.

Service: Timesheet Service (on page 1090)

Style: Document/literal wrapped

Input:

Message: UpdateTimesheets

Elements: Timesheet elements that contain *Timesheet Fields* (on page 1093) fields

Output:

Message: UpdateTimesheetsResponse Output: boolean

DeleteTimesheets Operation

Description: Deletes multiple Timesheet objects in the database. You can delete up to 1000 Timesheet objects with a single call.

Service: Timesheet Service (on page 1090)

Style: Document/literal wrapped

Input:

Message: DeleteTimesheets Elements: One to many ObjectIds Output:

Message: DeleteTimesheetsResponse Output: boolean

GetFieldLengthTimesheet Operation

Description: Returns length of variable character fields for a BO.

Service: Timesheet Service (on page 1090)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthLengthTimesheet Elements: FieldLength

Output:

Message: GetFieldLengthTimesheetResponse Elements: One to many FieldLengthTimesheets.

Timesheet Fields

Field	Туре	Read Only	Filterable Orderable	Description
CreateDate	dateTime	x	x	The date this timesheet was created.
CreateUser	string restricted to maxLength(2 55)	x	x	The name of the user that created this timesheet.
IsDaily	boolean		x	The flag that identifies whether timesheet users enter hours daily or by entire timesheet reporting period.
LastReceive dDate	dateTime		x	The last date on which the timesheet was submitted by the resource.
LastUpdateD ate	dateTime	x	x	The date this timesheet was last

				updated.
LastUpdateU ser	string restricted to maxLength(2 55)	x	x	The name of the user that last updated this timesheet.
Notes	string			The notes associated with the timesheet.
Resourceld	string restricted to maxLength(2 0)	x	x	The short code that uniquely identifies the resource.
ResourceNa me	string restricted to maxLength(1 00)	x	x	The name of the resource.
ResourceObj ectId	int		x	The unique ID of the associated resource.
Status	string restricted to 'Submitted' 'Approved' 'Resource Manager Approved' 'Project Manager Approved' 'Active' 'Rejected' 'Not Started' 'Resubmitted' 'Reopened' 'Submitted for RM' 'Resubmitted for RM'		X	The current status of the timesheet: 'Submitted', 'Approved', 'Resource Manager Approved', 'Project Manager Approved', 'Active', or 'Rejected'.
StatusDate	dateTime		x	The date on which the status of the timesheet was last

			changed.
TimesheetP eriodObjectI d	int		The unique ID of the timesheet period.

User Services

User Service

Operations:

CreateUsers Operation (on page 1096) ReadUsers Operation (on page 1096) UpdateUsers Operation (on page 1097) DeleteUserConsent Operation (on page 1097) GetFieldLengthUser Operation (on page 1097) ReadUserBaselines Operation (on page 1098) UpdateUserBaselines Operation (on page 1098) SetUserPassword Operation (on page 1098) SetMailServerPassword Operation (on page 1099) SetPrimaryBaselineProject Operation (on page 1100) GetPrimaryBaselineProject Operation (on page 1100) GetSecondaryBaselineProject Operation (on page 1100) SetSecondaryBaselineProject Operation (on page 1101) GetTertiaryBaselineProject Operation (on page 1101) SetTertiaryBaselineProject Operation (on page 1102) LoadUserFilteredActivities Operation (on page 1102) LoadUserFilteredMilestoneActivities Operation (on page 1103) ResetUserPreferences Operation (on page 1104)

WSDL: User.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/User/V1 Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/UserService?wsdl https://<hostname>:<port number>/p6ws/services/UserService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.user.UserService

Description:

The set of application users who are allowed to use the system. Each user is assigned a global security profile and project security profile.

Note that the Password and MailServerPassword fields are writable fields only; these fields may not be loaded from the database and are therefore not included in the AllFields array. A user may only change his own password, and only if the old password is specified. An administrator may change any user's password and does not have to specify the user's old password when doing so.

CreateUsers Operation

Description: Creates multiple User objects in the database. You can create up to 1000 User objects with a single call.

Service: User Service (on page 1095)

Style: Document/literal wrapped

Input:

Message: CreateUsers

Elements: User elements that contain *User Fields* (on page 1104) fields

Required fields: You must supply the Name field.

Output:

Message: CreateUsersResponse Output: Zero to many ObjectId elements

ReadUsers Operation

Description: Reads User objects from the database.

Service: User Service (on page 1095)

Style: Document/literal wrapped

Input:

Message: ReadUsers

Elements: One to many field names from the User Fields (on page 1104) field list

You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadUsersResponse

Output: Zero to many User elements that contain User fields.

UpdateUsers Operation

Description: Updates multiple User objects in the database. You can update up to 1000 User objects with a single call.

Service: User Service (on page 1095)

Style: Document/literal wrapped

Input:

Message: UpdateUsers Elements: User elements that contain *User Fields* (on page 1104) fields. Required fields: The ObjectId must be specified.

Output:

Message: UpdateUsersResponse Output: boolean

DeleteUserConsent Operation

Description: Deletes multiple UserConsent objects in the database.

Service: UserConsent Service (on page 1147)

Style: Document/literal wrapped

Input:

Message: DeleteUserConsent Elements: One to many ObjectId elements

Output:

Message: DeleteUserConsentResponse Output: boolean

GetFieldLengthUser Operation

Description: Returns length of variable character fields for a BO.

Service: User Service (on page 1095)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthUser Elements: FieldLength

Output:

Message: GetFieldLengthUserResponse Elements: One to many FieldLengthUsers.

ReadUserBaselines Operation

Description: Reads User objects from the database.

Service: User Service (on page 1095)

Style: Document/literal wrapped

Input:

Message: ReadUserBaselines

Elements:

- One to one ProjectObjectId elements
- One to One fields from the User Fields (on page 1104) field list

You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadUserBaselinesResponse

Output: Zero to Zero User elements that contain User fields.

UpdateUserBaselines Operation

Description: Updates multiple User objects in the database. You can update up to 1000 User objects with a single call.

Service: User Service (on page 1095)

Style: Document/literal wrapped

Input:

Message: UpdateUserBaselines

Elements: User elements that contain User Fields (on page 1104) fields.

Required fields: The ObjectId must be specified.

Output:

Message: UpdateUserBaselinesResponse Output:

SetUserPassword Operation

Service: User Service

Style: Document/literal wrapped

Input:

Message: SetUserPassword

Elements:

Field	Туре	Description
UserObjectId	int	The unique identifier of the user.
OldPassword	string	The old password.
NewPassword	string	The new password.

Required fields

You must supply the UserObjectId and OldPassword fields when you use the SetUserPassword operation. If you are an Admin Superuser, the OldPassword field is not required.

Output:

Message: SetUserPasswordResponse Elements: Success

SetMailServerPassword Operation

Service: User Service

Style: Document/literal wrapped

Input:

Message: SetMailServerPassword

Elements:

Field	Туре	Description
UserObjectId	int	The unique identifier of the user.
NewPassword	string	The new password.

Required fields

You must supply the both the UserObjectId and the NewPassword fields when you use the SetMailServerPassword operation.

Output:

Message: SetMailServerPasswordResponse

Elements: Success

SetPrimaryBaselineProject Operation

Description: Sets a user's primary baseline to evaluate project progress.

Service: User Service (on page 1095)

Style: Document/literal wrapped

Input:

Message: SetPrimaryBaselineProjectRequest Elements:

- UserObjectId
- ProjectObjectId
- PrimaryBaselineObjectId

Output:

Message: SetPrimaryBaselineProjectResponse Output: boolean

GetPrimaryBaselineProject Operation

Description: Gets the user's primary baseline for a project.

Service: User Service (on page 1095)

Style: Document/literal wrapped

Input:

Message: GetPrimaryBaselineProject Elements:

- UserObjectId
- ProjectObjectid

Output:

Message: GetPrimaryBaselineProjectResponse Output:PrimaryBaselineProjectId

GetSecondaryBaselineProject Operation

Description: Gets the user's secondary baseline for a specified project. The Secondary Baseline fields must be populated in order to retrieve data.

Service: User Service (on page 1095)

Style: Document/literal wrapped

Input:

Message: GetSecondaryBaselineProject Elements:

- UserObjectId
- ProjectObjectid

Output:

Message: GetSecondaryBaselineProjectResponse Element: SecondaryBaselineProjectId

SetSecondaryBaselineProject Operation

Description: Sets a user's secondary baseline project for a specific project.

Service: User Service (on page 1095)

Style: Document/literal wrapped

Input:

Message: SetSecondaryBaselineProject Elements:

- UserObjectId
- ProjectObjectId
- SecondaryBaselineObjectId

Output:

Message: SetSecondaryBaselineProjectResponse Element: Success

GetTertiaryBaselineProject Operation

Description: Gets the user's tertiary baseline for a specified project. The Tertiary Baseline fields must be populated in order to retrieve data.

Service: User Service (on page 1095)

Style: Document/literal wrapped

Input:

Message: GetTertiaryBaselineProject Elements:

- UserObjectId
- ProjectObjectid

Output:

Message: GetTertiaryBaselineProjectResponse Element: TertiaryBaselineProjectId

SetTertiaryBaselineProject Operation

Description: Sets a user's tertiary baseline for a specific project.

Service: User Service (on page 1095)

Style: Document/literal wrapped

Input:

Message: SetTertiaryBaselineProject Elements:

- UserObjectId
- ProjectObjectId
- TertiaryBaselineObjectId

Output:

Message: SetTertiaryBaselineProjectResponse Element: Success

LoadUserFilteredActivities Operation

Description: Loads non-milestone activities that match filters on specified user.

Service: User Service (on page 1095).

Input:

Message: LoadUserFilteredActivities

Elements:

Name	Туре	Description	Required
ObjectId	int	Unique identifier for the user.	Yes
Fields	string	One or more <i>User Fields</i> (on page 1104) from the User fields list.	Yes
WhereClause	string	Optional clause used to filter results.	No
OrderBy	string	Optional clause used to specify the order in which results are returned.	No

Output:

Message: LoadUserFilteredActivitiesResponse Elements:

Name	Туре	Description
ActivityObjectIds	string	Unique identifiers for the activities returned on operation success.

LoadUserFilteredMilestoneActivities Operation

Description: Loads milestone activities that match filters set on a specified user.

Service: User Service (on page 1095)

Input:

Message: LoadUserFilteredMilestoneActivities

Elements:

Name	Туре	Description	Required
ObjectId	int	Unique identifier for the user.	Yes
Fields	string	One or more User Fields (on page 1104) from the User fields list.	Yes
WhereClause	string	Optional clause used to filter results.	No
OrderBy	string	Optional clause used to specify the order in which results are returned.	No

Output:

Message: LoadUserFilteredMilestoneActivitiesResponse Elements:

Name Type Description	
-----------------------	--

ActivityObjectIds	string	Unique identifiers for
		milestone activities returned on operation
		rotanioa on operation
		success.

ResetUserPreferences Operation

Description: Resets a user's preferences.

Service: User Service (on page 1095)

Style: Document/literal wrapped

Input:

Message: ResetUserPreferences Elements:

UserObjectId

Required fields

You must supply the UserObjectId.

Output:

Message: SetUserPasswordResponse Elements: Success

User Fields

Field	Туре	Read Only	Filterable Orderable	Description
AllResourceAc cessFlag	boolean		x	The flag that determines whether the user has all resource access (TRUE) or restricted resource access (FALSE). Admin Superusers always have all resource access.

AssignmentSt affingPreferen ce	string restricted to " 'New' 'Existing' 'Ask Me'			The value that determines whether the current or the new resource's Units per Time and Overtime factor is used to calculate costs when assigning the resource to an existing activity assignment. If the Assignment StaffingPref erence is set to 'Ask Me', the default value is then current resource.
CreateDate	dateTime	x	x	The date this user was created.
CreateUser	string	x	x	The name of the user that created this user.
Currencyld	string restricted to maxLength(6)	x	x	The unique currency abbreviation for the currency associated with this user.

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CurrencyNam e	string restricted to maxLength(40)	x	x	The name of the currency associated with this user.
CurrencyObje ctId	int		x	The unique ID of the associated currency
CurrencyShow Decimals	boolean			The flag which when set to true will show decimal places for the currency, and when set to false will not Display decimal places. Possible values : 'True' or 'False'
CurrencyShow Symbol	boolean			The flag which when set to true will show Currency Symbol for the currency, and when set to false will not Display Currency Symbol. Possible values : 'True' or 'False'

DateFormatTy pe	string restricted to "Month, Day, Year" "Day, Month, Year" "Year, Month, Day"	f ; , , , , , , , , , , , , , , , , , ,	The date format type for the user: Month, Day, Year' , 'Day, Month, Year' or Year, Month, Day'.
DateSeparator	string restricted to "/" "-" "."	۲ f	The date Separator for the user: /' , '-' or '.'
DateShowFou rDigitYear	boolean	\ 5 1 5 6 7 8 8 8 8 8 9 8 9 9 9 9 9 9 9 9 9 9 9 9	The flag which when set to true will show four digit year for the Date format specified, and when set to false will not show four digit year. Possible yalues : True' or False'
DateShowMin utes	boolean	\ 5 - - - 5 - - 5 - - - - - - - - - - -	The flag which when set to true will show minutes value for the Time format specified, and when set to false will not show minutes value. Possible

		values : 'True' or 'False'
DateTimeFor matType	string restricted to "12 hour (1:30 PM)" "24 hour (13:30)" "Do not show time"	The date format type for the user: '12 hour (1:30 PM)', '24 hour (13:30)' or 'Do not show time'.
DateUseLeadi ngZero	boolean	The flag which when set to true will show leading zero for the Date format specified, and when set to false will not show leading zero. Possible values : 'True' or 'False'
DateUseMont hName	boolean	The flag which when set to true will show month value for the Date format specified, and when set to false will not show month value. Possible values :

		'True' or 'False'
DoNotShowNe wFeaturesAga in	boolean	The flag that, when set to true, will suppress the What's New dialog for the user until the next version change.
DurationDecim alCount	string restricted to "0" "1" "2"	The Duration Decimal count for the user is the number of decimal places to be displayed for the Duration. : '0','1' or '2'.
DurationUnitT ype	string restricted to "Hour" "Day" "Week" "Month" "Year" "Day Hours" "Hours Minutes"	The Duration Unit Type for the user is the Display Time units In: 'Hour','Day',' Week','Mont h' or 'Year'.
DurationUseFr action	boolean	The flag which when set to true will show units for the Duration, and when set to false will not

			show units. Possible values : 'True' or 'False'
EmailAddress	string restricted to maxLength(255)	X	The current user's return email address. This will be used in the "FROM" line for any email sent by this user. Example: "yourname @yourdoma in.com". For MAPI users, this may just be the MAPI profile name or mailbox name.
EmailProtocol	string restricted to 'Internet Mail' 'MAPI Mail'	x	The email type for the user: 'Internet Mail' or 'MAPI Mail'.
EnableUserTo ModifyViewSet tingsFlag	boolean	Х	The flag that when set to true allows the user to change his or her personal view settings in P6. When a user changes the user interface view settings, the

			changes do not affect the settings of other users assigned to the same view.
FinancialPerio dEndObjectId	int		The unique ID generated by the system of the last financial period viewable in columns in Project Managemen t.
FinancialPerio dStartObjectId	int		The unique ID generated by the system of the first financial period viewable in columns in Project Managemen t.
GUID	string restricted to pattern '\{[0-9a-fA-F]{8}-[0-9a-fA-F] {4}-[0-9a-fA-F]{4}-[0-9a-fA- F]{4}-[0-9a-fA-F]{12}\} '	x	The globally unique ID generated by the system.
GlobalProfileO bjectId	int	x	The unique ID of the global security profile

				assigned to the user. See the GlobalProfil e class for constants defining the fixed profiles of Admin Superuser and No Global Privileges.
LastUpdateDa te	dateTime	x	x	The date this user was last updated.
LastUpdateUs er	string restricted to maxLength(255)	x	x	The name of the user that last updated this user.
MailServerLog inName	string restricted to maxLength(255)		X	The mail login name (profile name) for the current user to send outgoing email. If the email protocol is MAPI, this field should contain the MAPI profile name (e.g. "Microsoft Mail Settings"). This field is not required for Internet email users.

			1
Name	string restricted to maxLength(255)	х	The user's login name.
NewProjectDu rationType	string restricted to 'Fixed Units/Time' 'Fixed Duration and Units/Time' 'Fixed Units' 'Fixed Duration and Units'		the default duration type assigned to new activities. Valid values are 'Fixed Units/Time', 'Fixed Duration and Units/Time', 'Fixed Units', or 'Fixed Duration and Units'.
ObjectId	int	x	The unique ID generated by the system.
OfficePhone	string restricted to maxLength(32)	x	The work phone number of the user.
OutgoingMailS erver	string restricted to maxLength(120)	X	The outgoing mail server (SMTP) address used to send outgoing email for this user. The address may be a host name or an IP

			address. This field is used only with the Internet email protocol, and is not required for MAPI. Example: "smtp.yourd omain.com".
PersonalName	string restricted to maxLength(255)	х	The user's personal or actual name.
RateSourcePr eference	string restricted to " 'Resource' 'Role' 'Ask Me'		The value that determines which price/unit will be used by default to calculate costs for the assignment when both a resource and role are assigned. If the value is 'Resource', the resource's price/unit will be used. If the value is 'Role', the role's price/unit will be used. If the value is 'Ask me', the default is set to 'Resource'.

ReportingFlag	boolean	x	The flag that determines whether the user can access ODS database as a database user.
ResourceReq uests	See the ResourceRequest table below		The resource requests used as search templates to search for qualified resources.
RespectActivit yDurationType	boolean		the setting that indicates whether to recalculate the Duration, Units, or Units/Time for existing assignments based on the activity Duration Type (true) or to preserve the Duration, Units, or Units/Time for existing assignments (false) when adding or removing assignments on activities.

RoleLimitDispl ayOption	string restricted to 'Custom Role Limit' 'Calculated Primary Resources Limit'	The option for how RoleLimit is displayed. Valid values are 'Custom', and 'PrimaryRol e'.
ShowDuration TimeUnit	boolean	The flag which when set to true will show units for the Duration, and when set to false will not show units. Possible values : 'True' or 'False'
ShowTimeUnit	boolean	The flag which when set to true will show units for the Time, and when set to false will not show units. Possible values : 'True' or 'False'
SmallScaleDe cimalCount	string restricted to "0" "1" "2"	The Small Scale Decimal count for the user is the number of decimal places to be displayed for the Time.

			: '0','1' or '2'.
SmallScaleUni tType	string restricted to "Hour" "Day" "Week" "Month" "Year" "Day Hours" "Hours Minutes"		The Small Scale Unit Type for the user is the Display Time units In: 'Hour','Day',' Week','Mont h' or 'Year'.
SmallScaleUs eFraction	boolean		The flag which when set to true will show sub units for the Time units format specified, and when set to false will not show sub units. Possible values : 'True' or 'False'
TeamMember ActivityFilters	string		The Statuser activity filters for the Team Member application.
TeamMember ActivitySortFiel d	string	x	Select whether column name entries are sorted in ascending or

			 descending order.
TeamMember ActivitySortOr der	string	x	From the Sort Order list, you can select to list projects in the scorecard in either ascending (e.g., A to Z) or descending (e.g., Z to A) order.
TeamMember ApplicationThe me	string		The user interface theme setting for P6 Team Member Web.
TeamMember DateFormat	string		The date format setting for the P6 Team Member Web.
TeamMember DisplayTimeFl ag	boolean		The display hours setting for P6 Team Member Web.
TeamMember DisplayTimeF ormat	string		The display hours format setting for P6 Team Member Web.

TeamMember Locale	string		The user-specific locale set for P6 Team Member Web.
TeamMember ProjectFilter	string		The project filter for P6 Team Member Web.
TeamMember ResourceFilter	string	х	The user-specific resource filter for P6 Team Member Web.
TeamMember DisplayQRQui ckAccess	string	x	The flag that is used to to determine if a user has seen the QR quick access link in P6 Team Member Web.
TeamMember TaskStatusFilt er	string		The task status filter for P6 Team Member Web.
TeamMember TimeframeFilt er	string		The time frame filter for P6 Team Member Web.

TeamMember WBSFilter	string	х		The user-specific wbs filter for P6 Team Member Web.
TeamMember WorkUnitType	string restricted to 'Hour' 'Day' 'Week' 'Month' 'Year' 'Days Hours' 'Hours Minutes'			The work unit type user preference for P6 Team Member Web.
UnitsPerTime ShowAsPerce ntage	boolean			The flag which when set to true will show Units/Time as Percentage, and when set to false will display as Units/Durati on. Possible values : 'True' or 'False'
UserInterface ViewObjectId	int		X	The unique ID of the associated user interface view.

ResourceRequest Table

FinishDate	dateTime
MatchAllCriteria	boolean
Name	string
RequestedUnits	double
SequenceNumber	int
ShowOnlyLaborRe sources	boolean
ShowOverallocate dResources	boolean
SortResultsByAvail ability	boolean
StartDate	dateTime
UseActivityDates	boolean

ResourceRequest Criterion	 CriterionType string restricted to 'Primary Role' 'Role' 'Resource' 'Resource Code' Proficiency string restricted to '1 - Master' '2 - Expert' '3 - Skilled' '4 - Proficient' '5 - Inexperienced' ValueObjectId int
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GlobalProfile Service

Operations:

CreateGlobalProfiles Operation (on page 1123) ReadGlobalProfiles Operation (on page 1123) UpdateGlobalProfiles Operation (on page 1124) DeleteGlobalProfiles Operation (on page 1124) HasPrivilege Operation (on page 1124) GetFieldLengthGlobalProfile Operation (on page 1125)

WSDL: GlobalProfile.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/GlobalProfile/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/GlobalProfileService?wsdl https://<hostname>:<port number>/p6ws/services/GlobalProfileService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.globalprofile.GlobalProfileService

Description:

A global profile defines a set of privileges for access to global, or application-wide, information such as cost accounts, resources, and roles. To control user access to global information, you create global profiles, and then assign specific profiles to individual users. All users are required to have a global profile.

To allow complete access to all global information and all projects, a global profile called Admin Superuser is provided. You can assign the Admin Superuser profile to as many users as you like. However, since the Admin Superuser profile enables access to all information, you would typically restrict the number of users to whom you assign this profile.

CreateGlobalProfiles Operation

Description: Creates multiple GlobalProfile objects in the database. You can create up to 1000 GlobalProfile objects with a single call.

Service: GlobalProfile Service (on page 1122)

Style: Document/literal wrapped

Input:

Message: CreateGlobalProfiles

Elements: GlobalProfile elements that contain *GlobalProfile Fields* (on page 1125) fields

Required fields: You must supply the Name field.

Output:

Message: CreateGlobalProfilesResponse Output: Zero to many ObjectId elements

ReadGlobalProfiles Operation

Description: Reads GlobalProfile objects from the database.

Service: GlobalProfile Service (on page 1122)

Style: Document/literal wrapped

Input:

Message: ReadGlobalProfiles

Elements: One to many field names from the *GlobalProfile Fields* (on page 1125) field list

You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadGlobalProfilesResponse

Output: Zero to many GlobalProfile elements that contain GlobalProfile fields.

UpdateGlobalProfiles Operation

Description: Updates multiple GlobalProfile objects in the database. You can update up to 1000 GlobalProfile objects with a single call.

Service: GlobalProfile Service (on page 1122)

Style: Document/literal wrapped

Input:

Message: UpdateGlobalProfiles

Elements: GlobalProfile elements that contain *GlobalProfile Fields* (on page 1125) fields. Required fields: The ObjectId must be specified.

Output:

Message: UpdateGlobalProfilesResponse Output: boolean

DeleteGlobalProfiles Operation

Description: Deletes multiple GlobalProfile objects in the database. You can delete up to 1000 GlobalProfile objects with a single call.

Service: GlobalProfile Service (on page 1122)

Style: Document/literal wrapped

Input:

Message: DeleteGlobalProfiles Elements: One to many ObjectId elements

Output:

Message: DeleteGlobalProfilesResponse Output: boolean

HasPrivilege Operation

Description: Returns a boolean for whether or not a global profile has a specified privilege.

Service: GlobalProfile Service (on page 1122)

Style: Document/literal wrapped

Input:

Message: HasPrivilege Elements:

- ProfileObjectId
- Privilege

Output:

Message: HasPrivilegeResponse Element: boolean

GetFieldLengthGlobalProfile Operation

Description: Returns length of variable character fields for a BO.

Service: GlobalProfile Service (on page 1122)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthGlobalProfile Elements: FieldLength

Output:

Message: GetFieldLengthGlobalProfileResponse Elements: One to many FieldLengthRoleGlobalProfiles.

GlobalProfile Fields

Field	Туре	Read Only	Filtera ble Ordera ble	Description
CreateDate	dateTime	x	x	The date this Global Profile was created.
CreateUser	string restricted to maxLength(255)	x	x	The name of the user that created this Global Profile.
IsDefault	boolean		x	The flag that indicates this security profile is assigned to new users by default. When a GlobalProfile object is deleted from the database, all users assigned to that profile are reassigned to the default profile. You cannot not delete the default profile.
IsSuperUser	boolean	x	x	The flag that identifies the superuser profile. Superuser profiles are automatically

				granted all privileges.	
LastUpdateDate	dateTime	x	x	The date this Global Profile was last updated.	
LastUpdateUser	string restricted to maxLength(255)	x	x	The name of the user that last updated this Global Profile.	
Name	string restricted to maxLength(100)		x	The privileges that are turned on.	
ObjectId	int		x	The unique ID generated by the system.	
Privilege					
Has	boolean			The name of the global profile privilege. See Global Privilege Definitions (on page 1126) for	
Name	string			additional details.	

Global Privilege Definitions

Administration Privileges

Add/Edit/Delete OBS option

Determines whether the profile will enable users to create, modify, and remove hierarchical data for the global Organizational Breakdown Structure.

Add/Edit/Delete Security Profiles option

Determines whether the profile will enable users to create, modify, and remove global and project security profiles, which grant access to application-wide and project-specific information.

Add/Edit/Delete Users option

Determines whether the profile will enable users to create, modify, and remove P6 EPPM user data. To search the LDAP directory when provisioning, users must also have the Provision Users from LDAP global privilege.

Add/Edit/Delete User Interface Views option

Determines whether the profile will enable users to create, modify, and remove user interface views configurations, which control the functionality users can access in P6.

Edit Application Settings option

Determines whether the profile will enable users to modify application settings, which set global preferences for P6 EPPM.

Provision Users from LDAP option

Determines whether the profile will enable users to search the LDAP directory when provisioning. For users who do not have this privilege assigned to their profile, the option to load an LDIF file to provision users will still be enabled. To search the LDAP directory, users also must also have the 'Add/Edit/Delete Users' global privilege.

View Published Audit Data option

Determines whether the profile will enable users to view published table auditing data.

Codes Privileges

Add Global Activity Codes option

Determines whether the profile will enable users to create global activity codes and code values data. This privilege also selects the 'Edit Global Activity Codes' global privilege.

Edit Global Activity Codes option

Determines whether the profile will enable users to modify global activity codes data. This privilege also enables users to create, modify, and remove global activity code values.

Delete Global Activity Codes option

Determines whether the profile will enable users to remove global activity codes and code values data. This privilege also selects the 'Add Global Activity Codes' and 'Edit Global Activity Codes' global privileges.

Add Global Issue Codes option

Determines whether the profile will enable users to create global issue codes and code values data. This privilege also selects the 'Edit Global Issue Codes' global privilege.

Edit Global Issue Codes option

Determines whether the profile will enable users to modify global issue codes data. This privilege also enables users to create, modify, and remove global issue code values.

Delete Global Issue Codes option

Determines whether the profile will enable users to remove global issue codes and code values data. This privilege also selects the 'Add Global Issue Codes' and 'Edit Global Issue Codes' global privileges.

Add Project Codes option

Determines whether the profile will enable users to create project codes and code values data. This privilege also selects the 'Edit Project Codes' global privilege.

Edit Project Codes option

Determines whether the profile will enable users to modify project codes data. This privilege also enables users to create, modify, and remove project code values.

Delete Project Codes option

Determines whether the profile will enable users to remove project codes and code values data. This privilege also selects the 'Add Project Codes' and 'Edit Project Codes' global privileges.

Add Resource Codes option

Determines whether the profile will enable users to create resource codes and code values data. This privilege also selects the 'Edit Resource Codes' global privilege.

Edit Resource Codes option

Determines whether the profile will enable users to modify resource codes data. This privilege also enables users to create, modify, and remove resource code values.

Delete Resource Codes option

Determines whether the profile will enable users to remove resource codes and code values data. This privilege also selects the 'Add Resource Codes' and 'Edit Resource Codes' global privileges.

Add Role Codes option

Determines whether the profile will enable users to create role codes and code values data. This privilege also selects the 'Edit Role Codes' global privilege.

Edit Role Codes option

Determines whether the profile will enable users to modify role codes data. This privilege also enables users to create, modify, and remove role code values.

Delete Role Codes option

Determines whether the profile will enable users to remove role codes and code values data. This privilege also selects the 'Add Role Codes' and 'Edit Roles' global privileges.

Add Assignment Codes option

Determines whether the profile will enable users to create assignment codes and code values data. This privilege also selects the 'Edit Assignment Codes' global privilege.

Edit Assignment Codes option

Determines whether the profile will enable users to modify assignment codes data. This privilege also enables users to create, modify, and remove assignment code values.

Delete Assignment Codes option

Determines whether the profile will enable users to remove assignment codes and code values data. This privilege also selects the 'Add Assignment Codes' and 'Edit Assignment Codes' global privileges.

Add/Delete Secure Codes option

Determines whether the profile will enable users to create and remove all secure project codes, global and EPS-level activity codes, resource codes, role codes, issue codes, and code values data. This privilege also selects the 'Edit Secure Codes,' 'Assign Secure Codes,' and 'View Secure Codes' global privileges.

Edit Secure Codes option

Determines whether the profile will enable users to modify all secure project codes, global and EPS-level activity codes, resource codes, role codes, issue codes, and code values data. This privilege also selects the 'Assign Secure Codes' and 'View Secure Codes' global privileges.

Assign Secure Codes option

Determines whether the profile will enable users to assign all secure project codes, global and EPS-level activity codes, resource codes role codes, issue codes, and code values data. This privilege also selects the 'View Secure Codes' global privilege.

View Secure Codes option

Determines whether the profile will enable users to display all secure project codes, global and EPS-level activity codes, resource codes, role codes, issue codes, and code values data.

Global Data Privileges

Add/Edit/Delete Categories and Overhead Codes option

Determines whether the profile will enable users to create, modify, and remove categories and overhead codes data, which can be applied to all projects. Overhead codes are only available to P6 Team Member Web users.

Add/Edit/Delete Cost Accounts option

Determines whether the profile will enable users to create, modify, and remove cost accounts data.

Add/Edit/Delete Currencies option

Determines whether the profile will enable users to create, modify, and remove currencies data.

Add/Edit/Delete Locations option

Determines whether the profile will enable users to create, modify, and remove locations data.

Add/Edit/Delete Financial Period Calendar option

Determines whether the profile will enable users to create, modify, and remove financial period calendar data. To edit period data, users must also have the 'Edit Period Performance' project privilege assigned to their profile.

Add/Edit/Delete Funding Sources option

Determines whether the profile will enable users to create, modify, and remove funding source data.

Add/Edit/Delete Global Calendars option

Determines whether the profile will enable users to create, modify, and remove global calendars data.

Add/Edit/Delete Global Portfolios option

Determines whether the profile will enable users to create, modify, and remove global portfolio configurations in Manage Portfolios Views.

Add/Edit/Delete Risk Categories, Matrices, and Thresholds option

Determines whether the profile will enable users to create, modify, and remove risk categories, risk scoring matrices, and risk thresholds data.

Add/Edit/Delete Timesheet Period Dates option

Determines whether the profile will enable users to create, modify, and remove individual or batched timesheet periods.

Add/Edit/Delete User Defined fields option

Determines whether the profile will enable users to create, modify, and remove User Defined fields. Even without this privilege, users can still display User Defined fields information.

Add/Edit/Delete Stored Images option

Determines whether the profile will enable users to create, modify, and remove stored images in P6 EPPM and P6 Professional.

Resources Privileges

Add Resources option

Determines whether the profile will enable users to create resource data. This privilege also selects the 'Edit Resources' global privilege.

Edit Resources option

Determines whether the profile will enable users to modify resource data. This privilege also enables users to assign, modify, and remove role assignments. To display resources' price/unit in reports, users must have this privilege and the 'View Resource and Role Costs/Financials' global privilege assigned to their profile. To display resource skill level (a resource's role proficiency) in the application and in reports, users must have this privilege and the 'View Resource Role Proficiency' global privilege assigned to their profile.

Delete Resources option

Determines whether the profile will enable users to remove resource data. This privilege also selects the 'Add Resources' and 'Edit Resources' global privileges.

Add/Edit/Delete Resource Calendars option

Determines whether the profile will enable users to create, modify, and remove resource calendars data. This privilege also enables users to edit Shifts in P6 Professional.

Add/Edit/Delete Resource Curves option

Determines whether the profile will enable users to create, modify, and remove resource distribution curves definitions.

Add/Edit/Delete Roles option

Determines whether the profile will enable users to create, modify, and remove roles data.

Add/Edit/Delete Global Resource and Role Teams option

Determines whether the profile will enable users to create, modify, and remove global Resource Teams and Role Teams. A Resource/Role Team is a collection of resources/roles.

Add/Edit/Delete Rate Types and Units of Measure option

Determines whether the profile will enable users to create, modify, and remove resource rate types and units of measure data.

View Resource and Role Costs/Financials option

Determines whether the profile will enable users to display all values for labor, material, and nonlabor resource costs, price/unit values for roles, and costs for resource and resource assignments User Defined fields. For users who do not have this privilege assigned to their profile, all areas that display monetary values for labor, material, and nonlabor resources and roles will display dashes and cannot be edited. For resources, such areas include resource price/unit, values in resource spreadsheets and histograms in Resource Analysis and Team Usage, and Cost data types for Resource User Defined fields. For roles, the area is the price/unit value in roles data. To display resources' price/unit, users must have this privilege and the 'Edit Resources' global privilege assigned to their profile.

View Resource Role Proficiency option

Determines whether the profile will enable users to display, group/sort, filter, search, and report on resource and role proficiency. To display resource skill level (a resource's role proficiency), users must have this privilege and the Edit Resources global privilege assigned to their profile.

Approve Resource Timesheets option

Determines whether the profile will enable users to approve or reject submitted timesheets as a Resource Manager.

Templates Privileges

Add/Edit/Delete Activity Step Templates option

Determines whether the profile will enable users to create, modify, and remove Activity Step Templates, which are used to add a set of common steps to multiple activities.

Add/Edit/Delete Issue Forms option

Determines whether the profile will enable users to create, modify, and remove issue forms.

Add/Edit/Delete Microsoft Project and Primavera Templates option

Determines whether the profile will enable users to create, modify, and remove templates that are used to import/export data from/to Microsoft Project or Primavera XML formats.

Add/Edit/Delete Project Templates option

Determines whether the profile will enable users to create, modify, and remove templates that can be used when creating new projects. To create project templates, users must also have the 'Add Projects' project privilege assigned to their profile. To modify templates, you must have the same project privileges that are required to modify projects. To delete project templates, users must also have the 'Delete Projects' project privilege assigned to their profile.

Tools Privileges

Administer Global External Applications option

Determines whether the profile will enable users to create, modify, and remove entries in the list of global external applications in P6 Professional.

Administer Global Scheduled Services option

Determines whether users have the privilege to modify settings on the Global Scheduled Services dialog box. You can modify the following publishing services if you have this privilege: Publish Enterprise Data, Publish Enterprise Summaries, Publish Resource Management, Publish Security. With this privilege, you can enable the service, choose how often the service will run, and at what time the service will run.

Administer Project Scheduled Services option

Determines whether the profile will enable users to set up the Apply Actuals, Summarize, Schedule, and Level scheduled services to run at specific time intervals.

Edit Global Change Definitions option

Determines whether the profile will enable users to create, modify, and remove Global Change specifications available to all users in P6 Professional.

Import P6 Professional XER and MPX option

Determines whether the profile will enable users to import projects, resources, and roles from XER and MPX formats using P6 Professional. To create new projects when importing, users must also have the 'Create Project' project privilege assigned to their profile. Users must be an Admin or Project Superuser to update a project from an XER file.

Import XLS option

Determines whether the profile will enable users to import projects, resources, and roles from XLS files into P6 Professional and P6. P6 Professional users must also be a Project Superuser to update a project from XLS format. P6 users do not need to be a Project Superuser, but do require the Add/Edit Activities Except Relationships privilege.

Import XML option

Determines whether the profile will enable users to import projects from P6, P6 Professional, and Microsoft Project using XML format. To create new projects when importing, users must also have the 'Create Project' project privilege assigned to their profile.

Enable Work Offline option

Determines whether the profile will enable users to work offline in P6 Professional configured to a database with a P6 Pro Cloud Connect alias. To work offline, the database alias must have the Enable Client-side Cache option selected. To see this privilege, select the Enable offline mode option in the General pane of Application Settings.

Views and Reports Privileges

Add/Edit/Delete Global Activity and Assignment Layouts, Views and Filters option

Determines whether the profile will enable users to create, modify, and remove global activity and resource assignment layouts, views, and filters.

Add/Edit/Delete Global Dashboards option

Determines whether the profile will enable users to create, modify, and remove global dashboards.

Add/Edit/Delete Global Project, WBS and Portfolio Layouts, Views and Filters option

Determines whether the profile will enable users to create, modify, and remove global project, WBS, and portfolio layouts, views, and filters. This privilege is required to save view changes made to the Portfolio Analysis page.

Add/Edit/Delete Global Reports option

Determines whether the profile will enable users to create, modify, and remove global reports, including editing report groups and global report batches and saving global reports created or modified in P6 Professional.

Edit Global Tracking Layouts option

Determines whether the profile will enable users to create, modify, and remove global tracking layouts in P6 Professional.

Edit Projects from Scorecards option

Determines whether the profile will enable users to create, modify, and remove projects from scorecards in the Portfolio View portlet and the Portfolio Analysis page. This privilege is required to save data changes made to the Portfolio Analysis page. The following project privileges are also required for scorecards: 'Edit Project Details Except Costs/Financials' to edit project data, 'View Project Costs/Financials' to view project cost data, 'Edit WBS Costs/Financials' to edit project cost data, 'Create Project' to add a project, and 'Delete Project' to delete a project.

Add/Edit/Delete Global Visualizer Layouts option

Determines whether the profile will enable users to create, modify, and remove global layouts in Visualizer.

Add/Edit/Delete Global Visualizer Filters option

Determines whether the profile will enable users to create, modify, and remove global filters in Visualizer.

ProjectProfile Service

Operations:

CreateProjectProfiles Operation (on page 1134) ReadProjectProfiles Operation (on page 1135) UpdateProjectProfiles Operation (on page 1135) DeleteProjectProfiles Operation (on page 1136) GetFieldLengthProjectProfile Operation (on page 1136)

WSDL: ProjectProfile.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/ProjectProfile/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/ProjectProfileService?wsdl https://<hostname>:<port number>/p6ws/services/ProjectProfileService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.projectprofile.ProjectProfileService

Description:

A project profile defines a set of privileges for access to project-specific information. Project profiles are assigned to users based on the OBS hierarchy. To control access to project-specific information, you create project profiles, and then assign specific OBS elements and associated project profiles to individual users. The assigned OBS element determines the EPS and WBS elements for which the user can access project information. The assigned project profile determines the type of access privileges the user has to that project information.

All WBS elements are required to have an assigned responsible OBS. If a user's project profile assignment includes a WBS element's responsible OBS, then the user can access all activities, risks, and issues related to that WBS element. Similarly, all thresholds and project issues also have an assigned responsible OBS. If a user's project profile assignment includes a threshold or issue's responsible OBS, then the user can access that threshold or issue.

A user is not required to have a profile for every project. However, unless a user's global profile is Admin Superuser, that user cannot access a project without a project profile. To allow complete access to a project/OBS assignment, a project profile is included named Project Superuser. You can apply the Project Superuser profile to as many users and for as many projects as you like.

CreateProjectProfiles Operation

Description: Creates multiple ProjectProfile objects in the database. You can create up to 1000 ProjectProfile objects with a single call.

Service: ProjectProfile Service (on page 1134)

Style: Document/literal wrapped

Input:

Message: CreateProjectProfiles

Elements: ProjectProfile elements that contain *ProjectProfile Fields* (on page 1136) fields

Required fields: You must supply the Name field.

Output:

Message: CreateProjectProfilesResponse Output: Zero to many ObjectId elements

ReadProjectProfiles Operation

Description: Reads ProjectProfile objects from the database.

Service: ProjectProfile Service (on page 1134)

Style: Document/literal wrapped

Input:

Message: ReadProjectProfiles

Elements: One to many field names from the *ProjectProfile Fields* (on page 1136) field list You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadProjectProfilesResponse

Output: Zero to many ProjectProfile elements that contain ProjectProfile fields.

UpdateProjectProfiles Operation

Description: Updates multiple ProjectProfile objects in the database. You can update up to 1000 ProjectProfile objects with a single call.

Service: ProjectProfile Service (on page 1134)

Style: Document/literal wrapped

Input:

Message: UpdateProjectProfiles

Elements: ProjectProfile elements that contain *ProjectProfile Fields* (on page 1136) fields. Required fields: The ObjectId must be specified.

Output:

Message: UpdateProjectProfilesResponse Output: boolean

DeleteProjectProfiles Operation

Description: Deletes multiple ProjectProfile objects in the database. You can delete up to 1000 ProjectProfile objects with a single call.

Service: ProjectProfile Service (on page 1134)

Style: Document/literal wrapped

Input:

Message: DeleteProjectProfiles Elements: One to many ObjectId elements

Output:

Message: DeleteProjectProfilesResponse Output: boolean

GetFieldLengthProjectProfile Operation

Description: Returns length of variable character fields for a BO.

Service: ProjectProfile Service (on page 1134)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthProjectProfile Elements: FieldLength

Output:

Message: GetFieldLengthProjectProfileResponse Elements: One to many FieldLengthRoleProjectProfiles.

ProjectProfile Fields

Field	Туре	Rea d Onl y	Filterable Orderable	Description
CreateDate	dateTime	х	х	The date this project profile was created.
CreateUser	string restricted to	х	х	The name of the user that created this project profile.

mayl onath(25			1
5)			
boolean		x	The flag that indicates this security profile is the default profile assigned to UserOBS objects. When a ProjectProfile object is deleted from the database, all UserOBS objects assigned to that profile are reassigned to the default profile. You cannot not delete the default profile.
boolean	х	x	The flag that indicates this is the project superuser profile, which gives a user read/write privileges for all project and OBS specific information and features
dateTime	x	x	The date this project profile was last updated.
string restricted to maxLength(25 5)	х	x	The name of the user that last updated this project profile.
string restricted to maxLength(10 0)		x	The unique name of this project profile
int		x	The unique ID generated by the system.
boolean			The name of the global profile privilege. See Project Privilege Definitions (on page 1138) for additional details.
string			
	boolean boolean dateTime string restricted to maxLength(25 5) string restricted to maxLength(10 0) int boolean	5) boolean boolean k c dateTime x string restricted to maxLength(25 5) x string restricted to maxLength(10 0) int boolean k x x x x x x x x x x x x x	5)IbooleanXbooleanXkXdateTimeXXXstring restricted to maxLength(25 5)XString restricted to maxLength(10 0)XXXstring restricted to maxLength(10 0)XXXString restricted to maxLength(10 0)XIntXIntXbooleanI

Project Privilege Definitions

Activities Privileges

Add/Edit Activities Except Relationships option

Determines whether the profile will enable users to create and modify all activity information in projects, except activity relationships. Users assigned a profile with this privilege can also designate another user as an activity owner and be assigned as a status reviewer for reviewing status updates from P6 Team Member interface users. Users assigned Team Member work distribution filters must have this privilege assigned. To modify activity IDs, users must also have the Edit Activity ID project privilege assigned to their profile. To use the Recalculate Assignment Costs feature, users must also have the 'View Project Costs/Financials' project privilege assigned to their profile.

Delete Activities option

Determines whether the profile will enable users to remove activities from projects.

Add/Edit/Delete Activity Relationships option

Determines whether the profile will enable users to create, modify, and remove activity relationships assigned to projects.

Edit Activity ID option

Determines whether the profile will enable users to modify activity IDs. To modify activity IDs, users must also have the 'Add/Edit Activities Except Relationships' project privilege assigned to their profile.

Add/Edit/Delete Expenses option

Determines whether the profile will enable users to create, modify, and remove expenses assigned to projects.

Delete Discussion Comments option

Determines whether the profile will enable users to delete discussion comments assigned to activities.

Codes Privileges

Add Project Activity Codes option

Determines whether the profile will enable users to create project activity codes and code values data. This privilege also selects the 'Edit Project Activity Codes' project privilege.

Edit Project Activity Codes option

Determines whether the profile will enable users to modify project activity codes data. This privilege also enables users to create, modify, and remove project activity code values.

Delete Project Activity Codes option

Determines whether the profile will enable users to remove project activity codes and code values data. This privilege also selects the 'Add Project Activity Codes' and 'Edit Project Activity Codes' project privileges.

Add EPS Activity Codes option

Determines whether the profile will enable users to create EPS-level activity codes and code values. This privilege also selects the 'Edit EPS Activity Codes' project privilege.

Edit EPS Activity Codes option

Determines whether the profile will enable users to modify the name of EPS-level activity codes. This privilege also enables users to create, modify, and remove EPS-level activity code values.

Delete EPS Activity Codes option

Determines whether the profile will enable users to remove EPS-level activity codes and code values data. This privilege also selects the 'Add EPS Activity Codes' and 'Edit EPS Activity Codes' project privileges.

EPS and Project Privileges

Add/Edit/Delete EPS Except Costs/Financials option

Determines whether the profile will enable users to create, modify, and remove EPS hierarchy nodes, edit EPS notebook, and edit all EPS-related data except financial information.

Edit EPS Costs/Financials option

Determines whether the profile will enable users to modify EPS budget logs, funding sources, and spending plans.

Add Projects option

Determines whether the profile will enable users to create, copy, and paste projects within the EPS node. To create project templates, users must also have the 'Add/Edit/Delete Project Templates' global privilege assigned to their profile.

Delete Projects option

Determines whether the profile will enable users to delete, cut, and paste projects within the EPS node. To delete project templates, users must also have the 'Add/Edit/Delete Project Templates' global privilege assigned to their profile.

Edit Project Details Except Costs/Financials option

Determines whether the profile will enable users to set Project Preferences and to edit project-level data. This privilege also enables users to assign or remove a risk scoring matrix to a project in the Risk Scoring Matrices page in Enterprise Data.

Certain Project Preferences, such as editing Publication Priority, require additional privileges. To assign a project baseline, users must also have the 'Assign Project Baselines' project privilege assigned to their profile. To edit cost UDFs, users must also have the 'Edit WBS Costs/Financials' project privilege assigned to their profile.

Add/Edit/Delete WBS Except Costs/Financials option

Determines whether the profile will enable users to create, modify, and remove WBS hierarchy nodes and other WBS level data including notebook entries, earned value settings, milestones, and dates. This privilege does not allow users to edit cost and financial data at the WBS level.

Edit WBS Costs/Financials option

Determines whether the profile will enable users to modify Project or WBS budget logs, funding sources, spending plan, and financial data at the project level. To edit costs and financials at the WBS level, including cost UDFs, users must also have the 'Add/Edit/Delete WBS Except Costs/Financials' project privilege assigned to their profile. The 'Edit WBS Costs/Financials' projects the 'View Project Costs/Financials' project privilege.

View Project Costs/Financials option

Determines whether the profile will enable users to display all monetary values for projects. For users who do not have this privilege assigned to their profile, all areas that display monetary values will display dashes and cannot be edited. To use the Recalculate Assignment Costs feature, users must also have the 'Add/Edit Activities Except Relationships' project privilege assigned to their profile. To display the resource price/unit, users must have the 'View Resource and Role Costs/Financials' global privilege assigned to their profile.

Delete Project Data with Timesheet Actuals option

Determines whether the profile will enable users to delete activities and resource assignments for projects that have timesheet actuals. This includes cutting an activity with timesheet actuals and pasting the activity to another project. To delete project data at all different levels (activity, WBS, project, and EPS), users must also have the appropriate privileges assigned to their profile. For example, to delete activities with timesheet actuals, users must also have the 'Delete Activities' project privilege assigned to their profile. To delete activities and WBS nodes with timesheet actuals, users must additionally have the 'Add/Edit/Delete WBS Except Costs/Financials' project privilege assigned to their profile.

Delete Published Project Data option

Determines whether the profile will enable users to delete published project data using the Delete Published Data action on the EPS page.

Export Project Data option

Determines whether the profile will enable users to export project data and download data to Excel using the Download link below grids.

Project Data Privileges

Add/Edit/Delete Issues and Issue Thresholds option

Determines whether the profile will enable users to create, modify, and remove thresholds and issues assigned to projects. The privilege also enables users to assign issue codes to project issues.

Add/Edit/Delete Project Baselines option

Determines whether the profile will enable users to create, modify, and remove baselines for projects.

Add/Edit/Delete Project Calendars option

Determines whether the profile will enable users to create, modify, and remove calendars assigned to projects.

Add/Edit/Delete Risks option

Determines whether the profile will enable users to create, modify, and remove risks assigned to projects.

Add/Edit/Delete Template Documents option

Determines whether the profile will enable users to create, modify, remove project template documents. If the content repository is installed and configured, this privilege also enables P6 users to check out and start reviews for project template documents. P6 Professional users cannot open documents added via a P6 installation with a configured content repository. A profile must be assigned the 'Add/Edit/Delete Work Products and Documents' project privilege before you can select this privilege.

Add/Edit/Delete Work Products and Documents option

Determines whether the profile will enable users to create, modify, and remove project documents that do not have a security policy applied. Document security policies are available only in P6 and only for documents stored in the content repository. When the content repository is installed and configured, this privilege also enables users to create document folders in P6.

Assign Project Baselines option

Determines whether the profile will enable users to assign project baselines to projects. To assign project baselines, users must also have the 'Edit Project Details Except Costs/Financials' project privilege assigned to their profile.

Approve Timesheets as Project Manager option

Determines whether the profile will enable users to approve or reject submitted timesheets as a Project Manager in Timesheet Approval.

Related Applications Privileges

Administer Project External Applications option

Determines whether the profile will enable users to modify entries in the External Applications feature in P6 Professional.

Exchange Project Data with Primavera Unifier option

Determines whether the profile will enable users to exchange project data with a linked Primavera Unifier project.

Exchange Project Data with Oracle Primavera Cloud option

Determines whether the profile will enable users to exchange project data with a linked Oracle Primavera Cloud project.

Exchange Project Data with Gateway option

Determines whether the profile will enable users to exchange project data with a project linked via Primavera Gateway.

Resource Assignments Privileges

Add/Edit Activity Resource Requests option

Determines whether the profile will enable users to create and modify resource requests for activities.

Add/Edit/Delete Resource Assignments for Resource Planning option

Determines whether the profile will enable users to add, edit, or delete resource assignments on the Planning Page of the Resources Section.

Add/Edit/Delete Role Assignments for Resource Planning option

Determines whether the profile will enable users to add, edit, or delete role assignments on the Planning Page of the Resources Section.

Edit Committed Flag for Resource Planning option

Determines whether profile will enable the users to edit the committed flag on the Planning Page of the Resources Section.

Edit Future Periods option

Determines whether the profile will enable users to enter, modify, and delete future period assignment values in the Planned Units and Remaining (Early) Units fields of the Resource Usage Spreadsheet using P6 Professional. The 'Add/Edit Activities Except Relationships' project privilege is also required for this functionality.

Edit Period Performance option

Determines whether the profile will enable users to modify period performance values for labor and nonlabor units as well as labor, nonlabor, material, and expense costs using P6 Professional. The 'Add/Edit Activities Except Relationships' and 'View Project Costs/Financials' project privileges are also required for this functionality.

Tools Privileges

Apply Actuals option

Determines whether the profile will enable users to apply actuals to activities in projects.

Check In/Check Out Projects and Open Projects Exclusively option

Determines whether the profile will enable users to check projects out to work remotely and then check them back in using P6 Professional, and whether users can open projects exclusively. Opening a project exclusively places a lock on the project allowing only the user who opened the project to make changes to the project. Other users can view project data, but cannot make updates until the exclusive lock is released.

Level Resources option

Determines whether the profile will enable users to level resources in projects. This privilege also selects the 'Schedule Project' project privilege.

Schedule Projects option

Determines whether the profile will enable users to schedule projects.

Monitor Project Thresholds option

Determines whether the profile will enable users to run the threshold monitor for projects in P6 Professional.

Store Period Performance option

Determines whether the profile will enable users to track actual this period values for actual units and costs in projects. The 'Add/Edit Activities Except Relationships' project privilege is also required for this functionality.

Summarize Projects option

Determines whether the profile will enable users to summarize data for all projects in the EPS.

Edit Publication Priority option

Determines whether the profile will enable users to edit the Publication Priority for the project. This privilege should be granted only to administrators to optimize the flow of projects through the service queue.

Run Baseline Update option

Determines whether the profile will enable users to update baselines assigned to projects with new project information using the Update Baseline tool.

Run Global Change option

Determines whether the profile will enable users to run Global Change specifications to update activity detail information in P6 Professional.

Allow Integration with Primavera Unifier option

Determines whether the profile will enable users to link projects to Primavera Unifier projects and schedule sheets.

Perform Global Search & Replace option

Determines whether the profile will enable users to use Global Search & Replace to update project, WBS, and activity information in P6.

Views and Reports Privileges

Add/Edit Project Level Layouts option

Determines whether the profile will enable users to create, modify, and remove project level layouts in the Activities, Assignments, or WBS windows in P6 Professional.

Edit Project Reports option

Determines whether the profile will enable users to modify reports, modify report batches, and export reports for projects in P6 Professional.

Publish Project Website option

Determines whether the profile will enable users to publish a Web site for projects in P6 Professional.

Add/Edit/Delete Project Visualizer Layouts option

Determines whether the profile will enable users to create, modify, and remove project layouts in Visualizer.

ResourceAccess Service

Operations:

CreateResourceAccess Operation (on page 1144) ReadResourceAccess Operation (on page 1145) DeleteResourceAccess Operation (on page 1145) GetFieldLengthResourceAccess Operation (on page 1146)

WSDL: ResourceAccess.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/ResourceAccess/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/ResourceAccessService?wsdl https://<hostname>:<port number>/p6ws/services/ResourceAccessService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.resourceaccess.ResourceAccessService

Description:

Resource access allows you to restrict a user's ability to access resources. If the User.AllResourceAccessFlag is True, the user has access to all resources and resource access does not apply. If the User.AllResourceAccessFlag is False, the user has restricted resource access. In this case, the user is assigned to a resource in the resource hierarchy and that resource becomes the user's root resource access node. The position of the user's root resource access node in the hierarchy determines the user's resource access. The user has access to that root resource access node and all of its children, but no other resources above in the hierarchy. If the user is not assigned to any resources, that user does not have access to resources. Admin Superusers always have all resource access.

Note that project access overrides resource access. If a user can access a project, the user is able to see all resources assigned to that project. The user can then assign these resources anywhere but will only be able to edit them if the user has resource access to them.

Resource Access business objects may not be updated. To change the values on a Resource Access object, create a new object with the desired values and delete the old object.

CreateResourceAccess Operation

Description: Creates multiple ResourceAccess objects in the database. You can create up to 1000 ResourceAccess objects with a single call.

Service: ResourceAccess Service (on page 1144)

Style: Document/literal wrapped

Input:

Message: CreateResourceAccess

Elements: ResourceAccess elements that contain *ResourceAccess Fields* (on page 1146) fields

Required fields:

- UserObjectId
- ResourceObjectId

Output:

Message: CreateResourceAccessResponse Output: Zero to many ObjectId elements

ReadResourceAccess Operation

Description: Reads ResourceAccess objects from the database.

Service: ResourceAccess Service (on page 1144)

Style: Document/literal wrapped

Input:

Message: ReadResourceAccess

Elements: One to many field names from the *ResourceAccess Fields* (on page 1146) field list

You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadResourceAccessResponse

Output: Zero to many ResourceAccess elements that contain ResourceAccess fields.

DeleteResourceAccess Operation

Description: Deletes multiple ResourceAccess objects in the database. You can delete up to 1000 ResourceAccess objects with a single call.

Service: ResourceAccess Service (on page 1144)

Style: Document/literal wrapped

Input:

Message: DeleteResourceAccess

Elements: One to many ObjectId elements

Output:

Message: DeleteResourceAccessResponse Output: boolean

GetFieldLengthResourceAccess Operation

Description: Returns length of variable character fields for a BO.

Service: ResourceAccess Service (on page 1144)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthResourceAccess Elements: FieldLength

Output:

Message: GetFieldLengthResourceAccessResponse Elements: One to many FieldLengthResourceAccesses.

ResourceAccess Fields

Field	Туре	Read Only	Filterable Orderable	Description
CreateDate	dateTime	x	x	The date this resource security was created.
CreateUser	string restricted to maxLength(2 55)	x	x	The name of the user that created this resource security.
LastUpdate Date	dateTime	x	х	The date this resource security was last updated.
LastUpdate User	string restricted to maxLength(2 55)	x	x	The name of the user that last updated this resource security.

Resourceld	string restricted to maxLength(2 0)	x	x	The short code that uniquely identifies the resource.
ResourceN ame	string restricted to maxLength(1 00)	x	x	The name of the resource.
ResourceO bjectId	int		x	The unique ID of the associated resource.
UserName	string restricted to maxLength(2 55)	x	x	The user's login name.
UserObjectI d	int		x	The unique ID of the associated user.

UserConsent Service

Operations:

CreateUserConsent Operation (on page 1148) ReadUserConsent Operation (on page 1148) UpdateUsersConsent Operation (on page 1148) DeleteUserConsent Operation (on page 1097) GetFieldLengthUserConsent Operation (on page 1149)

WSDL: UserConsent.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/UserConsent/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/UserConsent?wsdl https://<hostname>:<port number>/p6ws/services/UserConsent?wsdl

Java Client Stub Class:

com.primavera.ws.p6.userconsent.UserConsentService

Description:

Consent notices inform users how personal information (PI) is collected, processed, stored, and transmitted, along with details related to applicable regulations and policies. Consent notices also alert users that the action they are taking may risk exposing PI.

CreateUserConsent Operation

Description: Creates multiple UserConsent objects in the database.

Service: UserConsent Service (on page 1147)

Style: Document/literal wrapped

Input:

Message: CreateUserConsent

Elements: User elements that contain UserConsent Fields (on page 1150) fields

Required fields:

- UserId
- ConsentType

Output:

Message: CreateUserConsentResponse Output: Zero to many ObjectId elements

ReadUserConsent Operation

Description: Reads UserConsent objects from the database.

Service: UserConsent Service (on page 1147)

Style: Document/literal wrapped

Input:

Message: ReadUserConsent

Elements: One to many field names from the *UserConsent Fields* (on page 1150) Fields field list

Output:

Message: ReadUserConsentResponse Output: Zero to many UserConsent elements that contain UserConsent fields.

UpdateUsersConsent Operation

Description: Updates multiple UserConsent objects in the database.

Service: UserConsent Service (on page 1147)

Style: Document/literal wrapped

Input:

Message: UpdateUserConsent Elements: User elements that contain *UserConsent Fields* (on page 1150) fields. Required fields:

- UserId
- ConsentType

Output:

Message: UpdateUserConsentResponse Output: boolean

DeleteUserConsent Operation

Description: Deletes multiple UserConsent objects in the database.

Service: UserConsent Service (on page 1147)

Style: Document/literal wrapped

Input:

Message: DeleteUserConsent Elements: One to many ObjectId elements

Output:

Message: DeleteUserConsentResponse Output: boolean

GetFieldLengthUserConsent Operation

Description: Returns length of variable character fields for a BO.

Service: UserConsent Service (on page 1147)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthUserConsent Elements: FieldLength

Output:

Message: GetFieldLengthUserConsentResponse Elements: One to many FieldLengthUserConsent.

UserConsent Fields

Field	Туре	Read Only	Filterable Orderable	Description
ConsentAcc eptanceDat e	dateTime			The date and time of the most recent change of the consent status of the associated user.
ConsentAcc eptanceStat us	int			The consent status of the associated user.
ConsentTyp e	int			The context in which the consent acceptance is recorded. Possible values are 1-7 and correspond to the following consent types: 1 = Login consent 2 = Add User consent 3 = Add Resource consent 4 = Add Module consent 5 = Download consent 6 = TeamMember login consent 7 = Visualizer login consent
Userld	int			The unique ID of the associated user.

UserInterfaceView Service

Operations:

ReadUserInterfaceViews Operation (on page 1151)

GetFieldLengthUserInterfaceView Operation (on page 1152)

WSDL: UserInterfaceView.wsdI

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/UserInterfaceView/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/UserInterfaceViewService?wsdl https://<hostname>:<port number>/p6ws/services/UserInterfaceViewService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.userinterfaceview.UserInterfaceViewService

Description:

A user interface view is a customized view of P6 Web Access that enables and disables access to P6 Web Access functionality. You can assign a single user interface view to multiple users. However, every user has exactly one user interface view. The system assigns a default user interface view if one has not been specified for the user.

If you set the EnableUserToModifyViewSettingsFlag field in the User object to true, users can modify their copy of the user interface view. When a user changes the user interface view settings, the changes do not affect the settings of other users assigned to the same view.

When you assign a user interface view to a user, the new view replaces the user's current user interface view, including any modifications they may have made to the view.

ReadUserInterfaceViews Operation

Description: Reads UserInterfaceView objects from the database.

Service: UserInterfaceView Service (on page 1150)

Style: Document/literal wrapped

Input:

Message: ReadUserInterfaceViews

Elements: One to many field names from the **UserInterfaceView Fields** (on page 1152) field list

You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadUserInterfaceViewsResponse

Output: Zero to many UserInterfaceView elements that contain UserInterfaceView fields.

GetFieldLengthUserInterfaceView Operation

Description: Returns length of variable character fields for a BO.

Service: UserInterfaceView Service (on page 1150)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthInterfaceView Elements: FieldLength

Output:

Message: GetFieldLengthUserInterfaceViewResponse Elements: One to many FieldLengthUserInterfaceViews.

UserInterfaceView Fields

Field	Туре	Re ad On Iy	Filter able Orde rable	Description
CreateDate	dateTime	х	х	The date this user interface view was created.
CreateUser	string restricted to maxLength(2 55)	x	x	The name of the user that created this user interface view.
LastUpdate Date	dateTime	x	х	The date this user interface view was last updated.
LastUpdate User	string	х	x	The name of the user that last updated this user interface view.
Name	string	х	x	The name of the user interface view.
ObjectId	int	х	х	The unique ID generated by the system.
StatusUpdat esApproval	boolean	х		Status update page access flag.
UIViewId	ObjectId	х	х	The unique ID generated by the system

UIViewNam e	string	х	x	The name of the user interface view.
Userld	ObjectId	Х	Х	The unique ID of the associated user.
UserObjectI d	int	х	х	The unique ID of the associated user.

UserLicense Service

Operations:

CreateUserLicenses Operation (on page 1153) ReadUserLicenses Operation (on page 1154) DeleteUserLicenses Operation (on page 1154) GetFieldLengthUserLicense Operation (on page 1155)

WSDL: UserLicense.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/UserLicense/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/UserLicenseService?wsdl https://<hostname>:<port number>/p6ws/services/UserLicenseService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.userlicense.UserLicenseService

Description:

A user license grants access to applications within the Primavera suite.

UserLicense business objects may not be updated. To change the values on a UserLicense object, create a new object with the desired values and delete the old object.

CreateUserLicenses Operation

Description: Creates multiple UserLicense objects in the database. You can create up to 1000 UserLicense objects with a single call.

Service: UserLicense Service (on page 1153)

Style: Document/literal wrapped

Input:

Message: CreateUserLicenses

Elements: UserLicense elements that contain *UserLicense Fields* (on page 1155) fields Required fields:

- UserObjectId
- LicenseType

Output:

Message: CreateUserLicensesResponse Output: Zero to many ObjectId elements

ReadUserLicenses Operation

Description: Reads UserLicense objects from the database.

Service: UserLicense Service (on page 1153)

Style: Document/literal wrapped

Input:

Message: ReadUserLicenses

Elements: One to many field names from the UserLicense Fields (on page 1155) field list

You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadUserLicensesResponse

Output: Zero to many UserLicense elements that contain UserLicense fields.

DeleteUserLicenses Operation

Description: Deletes multiple UserLicense objects in the database. You can delete up to 1000 UserLicense objects with a single call.

Service: UserLicense Service (on page 1153)

Style: Document/literal wrapped

Input:

Message: DeleteUserLicenses Elements: One to many ObjectId elements

Elements. One to many e

Output:

Message: DeleteUserLicensesResponse Output: boolean

GetFieldLengthUserLicense Operation

Description: Returns length of variable character fields for a BO.

Service: UserLicense Service (on page 1153)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthUserLicense Elements: FieldLength

Output:

Message: GetFieldLengthUserLicenseResponse Elements: One to many FieldLengthUserLicenses.

UserLicense Fields

Field	Туре	Read Only	Filterable Orderable	Description
CreateDate	dateTime	x	x	The date this user license was created.
CreateUser	string restricted to maxLength(2 55)	x	x	The name of the user that created this user license.
LastUpdate Date	dateTime	х	х	The date this user license was last updated.
LastUpdate User	string restricted to maxLength(2 55)	x	x	The name of the user that last updated this user license.
LicenseTyp e	string restricted to 'Contributor' 'Enterprise Reports' 'Integration API'		X	The property that permits you to configure access to different functional areas of the application suite.

	'P6 Analytics' 'P6 Professional' 'Portfolios' 'Timesheet Interfaces' 'Projects' 'Resources' 'Team Member Interfaces' 'Web Services'			
ObjectId	int		x	The unique ID generated by the system.
UserName	string restricted to maxLength(2 55)	x	x	The user's login name.
UserObjectI d	int		x	The unique ID of the associated user.

UserOBS Service

Operations:

CreateUserOBS Operation (on page 1157) ReadUserOBS Operation (on page 1157) UpdateUserOBS Operation (on page 1158) DeleteUserOBS Operation (on page 1158) GetFieldLengthUserOBS Operation (on page 1158)

WSDL: UserOBS.wsdl

Primary Key Field: ObjectId

Target Namespace: http://xmlns.oracle.com/Primavera/P6/WS/UserOBS/V1

Default Transport URLs:

http://<hostname>:<port number>/p6ws/services/UserOBSService?wsdl

https://<hostname>:<port number>/p6ws/services/UserOBSService?wsdl

Java Client Stub Class:

com.primavera.ws.p6.userobs.UserOBSService

Description:

A UserOBS object represents an association between a user object and an OBS object. Users are assigned to global OBS elements to define the scope of project and EPS security for the users. For a user to have access to a project or EPS, the user must be assigned to an OBS element within that project or EPS. (Or, the user must have Admin Superuser privileges.) This gives the user access to any WBS areas their assigned OBS is responsible for.

CreateUserOBS Operation

Description: Creates multiple UserOBS objects in the database. You can create up to 1000 UserOBS objects with a single call.

Service: UserOBS Service (on page 1156)

Style: Document/literal wrapped

Input:

Message: CreateUserOBS

Elements: UserOBS elements that contain UserOBS Fields (on page 1159) fields

Required fields:

- UserObjectId
- OBSObjectId

Output:

Message: CreateUserOBSResponse Output: Zero to many ObjectId elements

ReadUserOBS Operation

Description: Reads UserOBS objects from the database.

Service: UserOBS Service (on page 1156)

Style: Document/literal wrapped

Input:

Message: ReadUserOBS

Elements: One to many field names from the **UserOBS Fields** (on page 1159) field list You may also include an optional element that contains a filter clause and an optional element that contains an OrderBy clause. Warning: If you do not specify a filter, all business objects of this data type will be returned. Refer to the Filters topic in the *P6 EPPM Web Services Programming Guide* for additional details.

Output:

Message: ReadUserOBSResponse

Output: Zero to many UserOBS elements that contain UserOBS fields.

UpdateUserOBS Operation

Description: Updates multiple UserOBS objects in the database. You can update up to 1000 UserOBS objects with a single call.

Service: UserOBS Service (on page 1156)

Style: Document/literal wrapped

Input:

Message: UpdateUserOBS

Elements: UserOBS elements that contain *UserOBS Fields* (on page 1159) fields. Required fields: The ObjectId must be specified.

Output:

Message: UpdateUserOBSResponse Output: boolean

DeleteUserOBS Operation

Description: Deletes multiple UserOBS objects in the database. You can delete up to 1000 UserOBS objects with a single call.

Service: UserOBS Service (on page 1156)

Style: Document/literal wrapped

Input:

Message: DeleteUserOBS Elements: One to many ObjectId elements

Output:

Message: DeleteUserOBSResponse Output: boolean

GetFieldLengthUserOBS Operation

Description: Returns length of variable character fields for a BO.

Service: UserOBS Service (on page 1156)

Style: Document/literal wrapped

Input:

Message: GetFieldLengthUserOBS Elements: FieldLength

Output:

Message: GetFieldLengthUserOBSResponse Elements: One to many FieldLengthUserOBSs.

UserOBS Fields

Field	Туре	Read Only	Filterable Orderable	Description
CreateDate	dateTime	X	х	The date this association was created.
CreateUser	string restricted to maxLength(2 55)	x	x	The name of the user that created this association.
LastUpdate Date	dateTime	x	x	The date this association was last updated.
LastUpdate User	string restricted to maxLength(2 55)	x	x	The name of the user that last updated this association.
OBSName	string restricted to maxLength(1 00)	х	х	The name of the person/role in the organization, sometimes referred to as the "responsible manager".
OBSObjectI d	int		x	The unique ID of the OBS to which the user is granted access.
ProfileName	string restricted to maxLength(1 00)	x	x	The name of security profile.
ProjectProfil	int		Х	The unique ID of

eObjectId				the project profile with which the user is granted access to the project and OBS. See the ProjectProfile class for a constant defining the fixed profile of Project Superuser.
UserName	string restricted to maxLength(2 55)	x	x	The user's login name.
UserObjectI d	int		x	The unique ID of the user who is assigned to the project OBS.

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