

Oracle  
**Primavera P6 EPPM**  
**Business Object Events Reference Guide for On-Premises**

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Oracle Primavera P6 EPPM Business Object Events Reference Guide for On-Premises

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# About This Guide

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## Scope

Use this guide to learn more about the types of events that can be triggered when using P6.

## Audience

This guide is intended to be used by system and network administrators.

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

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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.

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**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.

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# Overview of Eventing (On Premises Only)

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Depending on administrative settings, events can be triggered by changes that take place in the P6 database. These events can be classified into two types of events:

- ▶ **Business object events:** Triggered when the P6, the P6 Integration API (on-premises only), or P6 EPPM Web Services is used to update or create objects in the P6 database.
- ▶ **Special operation events:** Triggered when a supported operation or job service is invoked.

When a change triggers an event, the P6 Event Notification system sends the event message to a user configured message queue. You can use the events in a client application to trigger subsequent actions. You could, for example, launch an external workflow based on the existence of a specific event.

---

**Note:** The content in this section details optional configuration for P6. You do not need to configure eventing for P6 in order to enable P6 for

users to work in the application.

---

## Event Triggers

An event may be one of two types, a business object event or a special operation event.

- ▶ See Business Object Events for a list of business object events.
- ▶ See Special Operation Events for a list of special operation events.

### Changes that trigger events

With the exception of the Timesheet object, create and update changes made to supported objects using P6, the P6 Integration API (on-premises only), or P6 EPPM Web Services will trigger an event. When a status change is made to a Timesheet object using P6, a TimesheetUpdated event will be triggered.

### Changes that do not trigger events

The following create and update changes do not trigger events:

- ▶ Create and update changes made to objects that do not support events
- ▶ Create and update changes made to objects that support events but are not configured to send events
- ▶ Changes made in P6 Professional

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**Note:** Additionally, an event is triggered when you run either the Apply Actuals or Summarize Job service from P6 Professional. Receiving either of these events depends on administrative settings and requires that P6, the P6 Integration API (on-premises only), or P6 EPPM Web Services is running on the same database as P6 Professional.

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## Business Object vs Special Operation Events

Events are triggered when a supported business object is updated or changed. Forty-seven P6 business objects support both create and update event notification messages.

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**Note:** Only updates to physical fields trigger events. Updates or changes to calculated fields or BLOBs, GUIDs, or SequenceNumbers do not trigger events.

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In addition to update and create changes to the database, changes caused by special operations also trigger events. Twenty-two special operations trigger events when the operation specified by the message completes.

- ▶ See **Business Object Events** (on page 9) for additional information about business object events.
- ▶ See **Special Operation Events** (on page 13) for additional information about special operation events.

Administrators can enable and disable event notification messages on a per object basis. Refer to the *P6 EPPM Application Administration Guide* for additional information.



## Business Object Events

Forty-seven P6 business objects support create and update event notification messages. Administrators can enable and disable event notification messages on a per object basis.

The table below lists the business objects that support event notification messages along with the message that is sent when an event is triggered:

| Object                 | Notification Message                                      | Triggered Message                                         |
|------------------------|-----------------------------------------------------------|-----------------------------------------------------------|
| Activity               | <b>ActivityCreated Message</b> (on page 20)               | <b>ActivityUpdated Message</b> (on page 21)               |
| ActivityCodeAssignment | <b>ActivityCodeAssignmentCreated Message</b> (on page 19) | <b>ActivityCodeAssignmentUpdated Message</b> (on page 19) |
| ActivityExpense        | <b>ActivityExpenseCreated Message</b> (on page 25)        | <b>ActivityExpenseUpdated Message</b> (on page 25)        |
| ActivityNote           | <b>ActivityNoteCreated Message</b> (on page 27)           | <b>ActivityNoteUpdated Message</b> (on page 28)           |
| ActivityOwner          | <b>ActivityOwnerCreated Message</b> (on page 29)          | <b>ActivityOwnerUpdated Message</b> (on page 29)          |
| ActivityRisk           | <b>ActivityRiskCreated Message</b> (on page 30)           | <b>ActivityRiskUpdated Message</b> (on page 30)           |
| ActivityStep           | <b>ActivityStepCreated Message</b> (on page 31)           | <b>ActivityStepUpdated Message</b> (on page 31)           |
| BaselineProject        | <b>BaselineProjectCreated Message</b> (on page 32)        | <b>BaselineProjectUpdated Message</b> (on page 33)        |
| Calendar               | <b>CalendarCreated Message</b> (on page 38)               | <b>CalendarUpdated Message</b> (on page 38)               |
| EPS                    | <b>EPSCreated Message</b> (on page 42)                    | <b>EPSUpdated Message</b> (on page 42)                    |
| EPSBudgetChangeLog     | <b>EPSBudgetChangeLogCreated Message</b> (on page 40)     | <b>EPSBudgetChangeLogUpdated Message</b> (on page 40)     |
| EPSFunding             | <b>EPSFundingCreated Message</b> (on page 43)             | <b>EPSFundingUpdated Message</b> (on page 43)             |
| EPSNote                | <b>EPSNoteCreated Message</b> (on page 44)                | <b>EPSNoteUpdated Message</b> (on page 45)                |
| Project                | <b>ProjectCreated Message</b> (on page 46)                | <b>ProjectUpdated Message</b> (on page 46)                |

| Object                 | Notification Message                                      | Triggered Message                                         |
|------------------------|-----------------------------------------------------------|-----------------------------------------------------------|
|                        | page 49)                                                  | page 49)                                                  |
| ProjectBudgetChangeLog | <b>ProjectBudgetChangeLogCreated Message</b> (on page 46) | <b>ProjectBudgetChangeLogUpdated Message</b> (on page 46) |
| ProjectCodeAssignment  | <b>ProjectCodeAssignmentCreated Message</b> (on page 48)  | <b>ProjectCodeAssignmentUpdated Message</b> (on page 48)  |
| ProjectFunding         | <b>ProjectFundingCreated Message</b> (on page 56)         | <b>ProjectFundingUpdated Message</b> (on page 56)         |
| ProjectIssue           | <b>ProjectIssueCreated Message</b> (on page 57)           | <b>ProjectIssueUpdated Message</b> (on page 57)           |
| ProjectNote            | <b>ProjectNoteCreated Message</b> (on page 60)            | <b>ProjectNoteUpdated Message</b> (on page 60)            |
| ProjectPortfolio       | <b>ProjectPortfolioCreated Message</b> (on page 61)       | <b>ProjectPortfolioUpdated Message</b> (on page 61)       |
| ProjectResource        | <b>ProjectResourceCreated Message</b> (on page 62)        | <b>ProjectResourceUpdated Message</b> (on page 63)        |
| Relationship           | <b>RelationshipCreated Message</b> (on page 64)           | <b>RelationshipUpdated Message</b> (on page 65)           |
| Resource               | <b>ResourceCreated Message</b> (on page 72)               | <b>ResourceUpdated Message</b> (on page 72)               |
| ResourceAssignment     | <b>ResourceAssignmentCreated Message</b> (on page 66)     | <b>ResourceAssignmentUpdated Message</b> (on page 67)     |
| ResourceCodeAssignment | <b>ResourceCodeAssignmentCreated Message</b> (on page 70) | <b>ResourceCodeAssignmentUpdated Message</b> (on page 71) |
| ResourceRate           | <b>ResourceRateCreated Message</b> (on page 74)           | <b>ResourceRateUpdated Message</b> (on page 75)           |
| ResourceRole           | <b>ResourceRoleCreated Message</b> (on page 76)           | <b>ResourceRoleUpdated Message</b> (on page 76)           |
| ResourceTeam           | <b>ResourceTeamCreated Message</b> (on page 77)           | <b>ResourceTeamUpdated Message</b> (on page 78)           |
| Risk                   | <b>RiskCreated Message</b> (on page 80)                   | <b>RiskUpdated Message</b> (on page 80)                   |
| RiskCategory           | <b>RiskCategoryCreated Message</b> (on page 79)           | <b>RiskCategoryUpdated Message</b> (on page 79)           |

| Object                   | Notification Message                                        | Triggered Message                                           |
|--------------------------|-------------------------------------------------------------|-------------------------------------------------------------|
| RiskImpact               | <b>RiskImpactCreated Message</b> (on page 82)               | <b>RiskImpactUpdated Message</b> (on page 83)               |
| RiskMatrix               | <b>RiskMatrixCreated Message</b> (on page 84)               | <b>RiskMatrixUpdated Message</b> (on page 84)               |
| RiskMatrixScore          | <b>RiskMatrixScoreCreated Message</b> (on page 85)          | <b>RiskMatrixScoreUpdated Message</b> (on page 85)          |
| RiskMatrixThreshold      | <b>RiskMatrixThresholdCreated Message</b> (on page 87)      | <b>RiskMatrixThresholdUpdated Message</b> (on page 87)      |
| RiskResponseAction       | <b>RiskResponseActionCreated Message</b> (on page 88)       | <b>RiskResponseActionUpdated Message</b> (on page 88)       |
| RiskResponseActionImpact | <b>RiskResponseActionImpactCreated Message</b> (on page 90) | <b>RiskResponseActionImpactUpdated Message</b> (on page 90) |
| RiskResponsePlan         | <b>RiskResponsePlanCreated Message</b> (on page 91)         | <b>RiskResponsePlanUpdated Message</b> (on page 92)         |
| RiskThreshold            | <b>RiskThresholdCreated Message</b> (on page 93)            | <b>RiskThresholdUpdated Message</b> (on page 93)            |
| RiskThresholdLevel       | <b>RiskThresholdLevelCreated Message</b> (on page 94)       | <b>RiskThresholdLevelUpdated Message</b> (on page 95)       |
| Role                     | <b>RoleCreated Message</b> (on page 96)                     | <b>RoleUpdated Message</b> (on page 96)                     |
| RoleRate                 | <b>RoleRateCreated Message</b> (on page 97)                 | <b>RoleRateUpdated Message</b> (on page 98)                 |
| RoleTeam                 | <b>RoleTeamCreated Message</b> (on page 99)                 | <b>RoleTeamUpdated Message</b> (on page 99)                 |
| Timesheet                | Not Applicable                                              | <b>TimesheetUpdated Message</b> (on page 100)               |
| UDFValue                 | <b>UDFValueCreated Message</b> (on page 102)                | <b>UDFValueUpdated Message</b> (on page 103)                |
| User                     | <b>UserCreated Message</b> (on page 105)                    | <b>UserUpdated Message</b> (on page 105)                    |
| UserOBS                  | <b>UserOBSCreated Message</b> (on page 106)                 | <b>UserOBSUpdated Message</b> (on page 107)                 |
| WBS                      | <b>WBSCreated Message</b> (on page 108)                     | <b>WBSUpdated Message</b> (on page 109)                     |

| Object | Notification Message | Triggered Message |
|--------|----------------------|-------------------|
|        | page 108)            | page 108)         |

### Sample Business Object Event Message

Sample ActivityCreated Message: When an activity is created, the system sends an ActivityCreated message similar to the following message:

```
<?xml version="1.0" encoding="UTF-8"?>
<MessagingObjects
xmlns="http://xmlns.oracle.com/Primavera/P6/V8.2/Common/Event"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <ActivityCreated>
    <Id>Auto-1</Id>
    <ObjectId>125500</ObjectId>
    <ProjectObjectId>11840</ProjectObjectId>
    <WBSObjectId>36320</WBSObjectId>
  </ActivityCreated>
</MessagingObjects>
```

Sample ActivityUpdated Message: When an activity is updated, the system sends an ActivityUpdated message similar to the following message:

```
<?xml version="1.0" encoding="UTF-8"?>
<MessagingObjects
xmlns="http://xmlns.oracle.com/Primavera/P6/V8.2/Common/Event"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <ActivityUpdated>
    <Id>Auto-1</Id>
    <Name>t2</Name>
    <ObjectId>125500</ObjectId>
    <ProjectObjectId>11840</ProjectObjectId>
    <WBSObjectId>36320</WBSObjectId>
    <NewValues>
      <Name>t2</Name>
    </NewValues>
    <OldValues>
      <Name>Auto-1</Name>
    </OldValues>
  </ActivityUpdated>
</MessagingObjects>
```

## Special Operation Events

Special operation events are triggered when the operations listed below complete. The special operation event messages contain operation-specific fields that are included with the message depending on which operation triggered the event message. For additional information relating to the messages, refer to the reference section of this document or the p6events.xsd schema file that is shipped on P6 media.

**JobService:** Occurs when the JobService completes. The event message includes a status element that indicates whether the operation completed successfully or not.

**Publication Service:** Occurs when the specified Publish service completes. The event message includes a status element that indicates whether the operation completed successfully or not.

**API:** Occurs after an XML file has been imported regardless of success or failure of the import.

**Content Repository:** Occurs when a document has been successfully checked into the content repository, or when a folder or document has been successfully added to the repository.

**Stored Procedure:** Occurs when the stored procedure completes successfully.

| Special Operation Type | Operation                  | Message                                                                                               |
|------------------------|----------------------------|-------------------------------------------------------------------------------------------------------|
| Job Service            | ApplyActuals               | <b>ApplyActualsInvoked Message</b> (on page 111)                                                      |
| Job Service            | CopyProject                | <b>CopyProjectInvoked Message</b> (on page 115)                                                       |
| Job Service            | CopyorCreateBaseline       | <b>CopyBaselineInvoked Method</b> (on page 113) or <b>CreateBaselineInvoked Message</b> (on page 115) |
| Job Service            | Export                     | <b>ExportInvoked Message</b> (on page 117)                                                            |
| Job Service            | GlobalSearchandReplace     | <b>GlobalSearchandReplacInvoked Message</b> (on page 118)                                             |
| Job Service            | Import                     | <b>ImportInvoked Message</b> (on page 119)                                                            |
| Job Service            | Level                      | <b>LevelInvoked Message</b> (on page 119)                                                             |
| Job Service            | PublishAuditdata           | <b>PublishAuditdataInvoked Message</b> (on page 120)                                                  |
| Job Service            | RecalculateAssignmentCosts | <b>RecalculateAssignmentCosts Invoked Message</b> (on page 124)                                       |
| Job Service            | Schedule                   | <b>ScheduleInvoked Message</b> (on page 125)                                                          |

| <b>Special Operation Type</b> | <b>Operation</b>                    | <b>Message</b>                                                                 |
|-------------------------------|-------------------------------------|--------------------------------------------------------------------------------|
| Job Service                   | StorePeriodPerformance              | <b><i>StorePeriodPerformanceInvoked Message</i></b> (on page 126)              |
| Job Service                   | Summarize                           | <b><i>SummarizeInvoked Message</i></b> (on page 127)                           |
| Job Service                   | Updatebaseline                      | <b><i>UpdatebaselineInvoked Message</i></b> (on page 128)                      |
| Publication Service           | PublishProject                      | <b><i>PublishProjectInvoked Message</i></b> (on page 121)                      |
| Publication Service           | PublishEnterpriseData               | <b><i>PublishEnterpriseDataInvoked Message</i></b> (on page 120)               |
| Publication Service           | PublishSecurity                     | <b><i>PublishSecurityInvoked Message</i></b> (on page 124)                     |
| Publication Service           | PublishEnterpriseSummaries          | <b><i>PublishEnterpriseSummariesInvoked Message</i></b> (on page 121)          |
| Publication Service           | PublishResourceManagement           | <b><i>PublishResourceManagementInvoked Message</i></b> (on page 122)           |
| Publication Service           | PublishResourceRoleAssignmentSpread | <b><i>PublishResourceRoleAssignmentSpreadInvoked Message</i></b> (on page 123) |
| API                           | XML Import                          | <b><i>XMLImportInvoked Message</i></b> (on page 129)                           |
| Content Repository            | AddDocument                         | <b><i>ContentRepositoryDocumentAdded Message</i></b> (on page 112)             |
| Content Repository            | AddFolder                           | <b><i>ContentRepositoryFolderAdded Message</i></b> (on page 112)               |
| Content Repository            | CheckIn                             | <b><i>ContentRepositoryDocumentCheckedIn Message</i></b> (on page 112)         |
| Stored Procedure              | ConvertProjectToBaseline            | <b><i>ConvertProjectToBaselineInvoked Message</i></b> (on page 112)            |
| Stored Procedure              | CreateProjectFromTemplate           | <b><i>CreateProjectFromTemplateInvoked Message</i></b> (on page 117)           |
| Stored Procedure              | CreateTemplateFromProject           | <b><i>CreateTemplatefromProjectInvoked Message</i></b> (on page 117)           |
| Stored Procedure              | RestoreBaselineProject              | <b><i>RestoreBaselineProjectInvoked Message</i></b> (on page 125)              |

## JMS Message Properties Support

Using JMS messages properties, you can select event messages that are received for P6 based on the following message properties:

- ▶ Type
- ▶ Group
- ▶ Name
- ▶ Operation

| Property Name | Possible Property Values                                                                                                                                                  |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Type          | <ul style="list-style-type: none"><li>▶ Business Objects</li><li>▶ Special Operations</li></ul>                                                                           |
| Group         | <ul style="list-style-type: none"><li>▶ <b>For business object events:</b> Activity, EPS...</li><li>▶ <b>For special operations events:</b> Job Service, API...</li></ul> |

|                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name                                        | <ul style="list-style-type: none"> <li>▶ <b>For business object events:</b> <ul style="list-style-type: none"> <li>▶ <b>Activity:</b> Activity, ActivityCodeAssignment, ActivityExpense, ActivityNote, ActivityOwner, ActivityStep, Relationship, ResourceAssignment</li> <li>▶ <b>EPS:</b> EPS EPSBudgetChangeLog, EPSFunding, EPSNote</li> <li>▶ <b>Global:</b> Calendar, Timesheet, User, UserOBS</li> <li>▶ <b>Project:</b> BaselineProject, Project, ProjectBudgetChangeLog, ProjectCodeAssignment, ProjectFunding, ProjectIssue, ProjectNote, ProjectPortfolio, ProjectResource, WBS</li> <li>▶ <b>Resource:</b> Resource, RsourceCodeAssignment, ResourceRate, ResourceRole, ResourceTeam, Role, RoleRate, RoleTeam</li> <li>▶ <b>Risk:</b> ActivityRisk, Risk, RiskCategory, RiskImpact, RiskMatrix, RiskMatrixScore, RiskMatrixThreshold, RiskResponseAction, RiskResponseActionImpact, RiskResponsePlan, RiskThreshold, RiskThresholdLevel</li> <li>▶ <b>UDF:</b> UDF</li> </ul> </li> <li>▶ <b>For special operations events:</b> Apply Actuals, Schedule... <ul style="list-style-type: none"> <li>▶ <b>Job Service:</b> Apply Actuals, Schedule, Store Period Performance, Summarize, Level, Recalculate Assignment Costs</li> <li>▶ <b>Publication Service:</b> Publish Project, Publish Enterprise Data, Publish Enterprose Summaries, Publish Resource Management, Publish Security</li> <li>▶ <b>API:</b> XML Import</li> <li>▶ <b>Content Repository:</b> Add Document, Add Folder, Check In</li> <li>▶ <b>Stored Procedures:</b> Copy Project, Copy Project As Baseline, Create project From Template, Create Copy As Template, Copy Baseline Project, Restore Baseline Project, Convert project to Baseline</li> </ul> </li> </ul> |
| Operation (only for business object events) | <ul style="list-style-type: none"> <li>▶ Created</li> <li>▶ Updated</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |



## Sample Special Operation Event Message

A message similar to the following is triggered by the ScheduledInvoked event:

```
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<MessagingObjects
xmlns="http://xmlns.oracle.com/Primavera/P6/V8.2/Common/Event"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <ScheduleInvoked>
    <DataDate>2015-01-03T08:00:00</DataDate>
    <Project>
      <Id>Auto-Testproj2</Id>
      <Name>Auto-Testproj2</Name>
      <ObjectId>1001</ObjectId>
    </Project>
    <Status>Completed</Status>
  </ScheduleInvoked>
</MessagingObjects>
```



# Reference Material

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## In This Section

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### Business Object Event Message Contents

#### ActivityCodeAssignmentCreated Message

| Field                    | Type | Description                                                           |
|--------------------------|------|-----------------------------------------------------------------------|
| ActivityCodeObjectId     | int  | The unique ID of the associated activity code.                        |
| ActivityCodeTypeObjectId | int  | The unique ID of the parent activity code type.                       |
| ActivityObjectId         | int  | The unique ID of the activity to which the activity code is assigned. |
| ProjectObjectId          | int  | The unique ID of the associated project.                              |

#### ActivityCodeAssignmentUpdated Message

| Field                    | Type | Description                                                           |
|--------------------------|------|-----------------------------------------------------------------------|
| ActivityCodeObjectId     | int  | The unique ID of the associated activity code.                        |
| ActivityCodeTypeObjectId | int  | The unique ID of the parent activity code type.                       |
| ActivityObjectId         | int  | The unique ID of the activity to which the activity code is assigned. |
| ProjectObjectId          | int  | The unique ID of the associated project.                              |

|           |                                                                                                                                                                                            |                                                                   |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| NewValues | <p>ActivityCodeAssignmentType</p> <p>Refer to the entries in the <b>ActivityCodeAssignmentType</b> Table below.</p> <p>Additional information can be found in the p6events.xsd schema.</p> | The new values of Physical and writable fields that have changed. |
| OldValues | <p>ActivityCodeAssignmentType</p> <p>Refer to the entries in the <b>ActivityCodeAssignmentType</b> Table below.</p> <p>Additional information can be found in the p6events.xsd schema.</p> | The old values of Physical and writable fields that have changed. |

### ActivityCodeAssignmentType Table

| Type: ActivityCodeAssignmentType |      |
|----------------------------------|------|
| Elements                         | Type |
| ActivityCodeObjectId             | int  |
| ActivityObjectId                 | int  |

### ActivityCreated Message

| Field    | Type   | Description                                                             |
|----------|--------|-------------------------------------------------------------------------|
| Id       | string | The short ID that uniquely identifies the activity within the project.  |
| Name     | string | The name of the activity. The activity name does not have to be unique. |
| ObjectId | int    | The unique ID generated by the system.                                  |

| Field           | Type | Description                                |
|-----------------|------|--------------------------------------------|
| ProjectObjectId | int  | The unique ID of the associated project.   |
| WBSObjectId     | int  | The unique ID of the WBS for the activity. |

### ActivityUpdated Message

| Field           | Type                                                                                                                                            | Description                                                             |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| Id              | string                                                                                                                                          | The short ID that uniquely identifies the activity within the project.  |
| Name            | string                                                                                                                                          | The name of the activity. The activity name does not have to be unique. |
| ObjectId        | int                                                                                                                                             | The unique ID generated by the system.                                  |
| ProjectObjectId | int                                                                                                                                             | The unique ID of the associated project.                                |
| WBSObjectId     | int                                                                                                                                             | The unique ID of the WBS for the activity.                              |
| NewValues       | ActivityType<br>Refer to the entries in the <b>ActivityType</b> Table below.<br>Additional information can be found in the p6events.xsd schema. | The new values of Physical and writable fields that have changed.       |
| OldValues       | ActivityType<br>Refer to the entries in the <b>ActivityType</b> Table below.<br>Additional information can be found in the p6events.xsd schema. | The old values of Physical and writable fields that have changed.       |

**ActivityType Table**

| Type: ActivityType            |                                                                                                                                 |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Elements                      | Type                                                                                                                            |
| ActualFinishDate              | dateTime                                                                                                                        |
| ActualLaborUnits              | double                                                                                                                          |
| ActualNonLaborUnits           | double                                                                                                                          |
| ActualStartDate               | dateTime                                                                                                                        |
| ActualThisPeriodLaborUnits    | double                                                                                                                          |
| ActualThisPeriodNonLaborUnits | double                                                                                                                          |
| AtCompletionLaborUnits        | double                                                                                                                          |
| AtCompletionNonLaborUnits     | double                                                                                                                          |
| AutoComputeActuals            | boolean                                                                                                                         |
| CalendarObjectId              | int                                                                                                                             |
| CBSCode                       | string                                                                                                                          |
| DBPhysicalPercentComplete     | double                                                                                                                          |
| DurationType                  | string<br>restricted to<br>'Fixed Units/Time'<br>'Fixed Duration and Units/Time'<br>'Fixed Units'<br>'Fixed Duration and Units' |
| ExpectedFinishDate            | dateTime                                                                                                                        |
| Id                            | string                                                                                                                          |
| IsNewFeedback                 | boolean                                                                                                                         |
| IsStarred                     | boolean                                                                                                                         |

|                         |                                                                                                                                                                                                                          |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LevelingPriority        | string<br>restricted to<br>'Top'<br>'High'<br>'Normal'<br>'Low'<br>'Lowest'                                                                                                                                              |
| LocationObjectId        | int                                                                                                                                                                                                                      |
| Name                    | string                                                                                                                                                                                                                   |
| ObjectId                | int                                                                                                                                                                                                                      |
| PercentCompleteType     | string<br>restricted to<br>'Physical'<br>'Duration'<br>'Units'                                                                                                                                                           |
| PlannedDuration         | double                                                                                                                                                                                                                   |
| PlannedFinishDate       | dateTime                                                                                                                                                                                                                 |
| PlannedLaborUnits       | double                                                                                                                                                                                                                   |
| PlannedNonLaborUnits    | double                                                                                                                                                                                                                   |
| PlannedStartDate        | dateTime                                                                                                                                                                                                                 |
| PrimaryConstraintDate   | dateTime                                                                                                                                                                                                                 |
| PrimaryConstraintType   | string<br>restricted to<br>'Start On'<br>'Start On or Before'<br>'Start On or After'<br>'Finish On'<br>'Finish On or Before'<br>'Finish On or After'<br>'As Late As Possible'<br>'Mandatory Start'<br>'Mandatory Finish' |
| PrimaryResourceObjectId | int                                                                                                                                                                                                                      |

|                          |                                                                                                                                                                                                                          |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ProjectObjectId          | int                                                                                                                                                                                                                      |
| RemainingDuration        | double                                                                                                                                                                                                                   |
| RemainingEarlyFinishDate | dateTime                                                                                                                                                                                                                 |
| RemainingEarlyStartDate  | dateTime                                                                                                                                                                                                                 |
| RemainingLaborUnits      | double                                                                                                                                                                                                                   |
| RemainingLateFinishDate  | dateTime                                                                                                                                                                                                                 |
| RemainingLateStartDate   | dateTime                                                                                                                                                                                                                 |
| RemainingNonLaborUnits   | double                                                                                                                                                                                                                   |
| ResumeDate               | dateTime                                                                                                                                                                                                                 |
| ReviewRequired           | boolean                                                                                                                                                                                                                  |
| ReviewStatus             | string<br>restricted to<br>'OK'<br>'For Review'<br>'Rejected'                                                                                                                                                            |
| SecondaryConstraintDate  | dateTime                                                                                                                                                                                                                 |
| SecondaryConstraintType  | string<br>restricted to<br>'Start On'<br>'Start On or Before'<br>'Start On or After'<br>'Finish On'<br>'Finish On or Before'<br>'Finish On or After'<br>'As Late As Possible'<br>'Mandatory Start'<br>'Mandatory Finish' |
| Status                   | string<br>restricted to<br>'Not Started'<br>'In Progress'<br>'Completed'                                                                                                                                                 |



|             |                                                                                                                                                      |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| SuspendDate | dateTime                                                                                                                                             |
| Type        | string<br>restricted to<br>'Task Dependent'<br>'Resource Dependent'<br>'Level of Effort'<br>'Start Milestone'<br>'Finish Milestone'<br>'WBS Summary' |
| WBSObjectId | int                                                                                                                                                  |

### ActivityExpenseCreated Message

| Field                   | Type   | Description                                                                                                                                 |
|-------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------------------|
| ActivityObjectId        | int    | The unique ID of the activity to which the project expense is linked. Every project expense is associated with one activity in the project. |
| CostAccountObjectId     | int    | The unique ID of the cost account associated with the project expense.                                                                      |
| ExpenseCategoryObjectId | int    | The unique ID of the expense category for the project expense.                                                                              |
| ExpenseItem             | string | The name of the project expense.                                                                                                            |
| ObjectId                | int    | The unique ID generated by the system.                                                                                                      |
| ProjectObjectId         | int    | The unique ID of the associated project.                                                                                                    |

### ActivityExpenseUpdated Message

| Field            | Type | Description                                                                                                                        |
|------------------|------|------------------------------------------------------------------------------------------------------------------------------------|
| ActivityObjectId | int  | The unique ID of the activity to which the project expense is linked. Every project expense is associated with one activity in the |

| Field               | Type                                                                                                                                                                  | Description                                                            |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|
|                     |                                                                                                                                                                       | project.                                                               |
| CostAccountObjectId | int                                                                                                                                                                   | The unique ID of the cost account associated with the project expense. |
| ExpenseCategoryId   | int                                                                                                                                                                   | The unique ID of the expense category for the project expense.         |
| ExpenseItem         | string                                                                                                                                                                | The name of the project expense.                                       |
| ObjectId            | int                                                                                                                                                                   | The unique ID generated by the system.                                 |
| ProjectObjectId     | int                                                                                                                                                                   | The unique ID of the associated project.                               |
| NewValues           | ActivityExpenseType<br><br>Refer to the entries in the <b>ActivityExpenseType</b> Table below.<br><br>Additional information can be found in the p6events.xsd schema. | The new values of Physical and writable fields that have changed.      |
| OldValues           | ActivityExpenseType<br><br>Refer to the entries in the <b>ActivityExpenseType</b> Table below.<br><br>Additional information can be found in the p6events.xsd schema. | The old values of Physical and writable fields that have changed.      |

### ActivityExpenseType Table

|                           |      |
|---------------------------|------|
| Type: ActivityExpenseType |      |
| Elements                  | Type |

|                         |                                                                                                |
|-------------------------|------------------------------------------------------------------------------------------------|
| AccrualType             | string<br>restricted to<br>'Start of Activity'<br>'End of Activity'<br>'Uniform Over Activity' |
| ActivityObjectId        | int                                                                                            |
| ActualCost              | double                                                                                         |
| AutoComputeActuals      | boolean                                                                                        |
| CostAccountObjectId     | int                                                                                            |
| DocumentNumber          | string                                                                                         |
| ExpenseCategoryObjectId | int                                                                                            |
| ExpenseItem             | string                                                                                         |
| ObjectId                | int                                                                                            |
| PlannedCost             | double                                                                                         |
| PlannedUnits            | double                                                                                         |
| PricePerUnit            | double                                                                                         |
| RemainingCost           | double                                                                                         |
| UnitOfMeasure           | string                                                                                         |
| Vendor                  | string                                                                                         |

### ActivityNoteCreated Message

| Field                 | Type | Description                                                           |
|-----------------------|------|-----------------------------------------------------------------------|
| ActivityObjectId      | int  | The unique ID of the activity to which the activity note is assigned. |
| NotebookTopicObjectId | int  | The unique ID of the associated notebook topic.                       |
| ObjectId              | int  | The unique ID generated by the system.                                |

**ActivityNoteUpdated Message**

| Field                 | Type                                                                                                                                                    | Description                                                           |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| ActivityObjectId      | int                                                                                                                                                     | The unique ID of the activity to which the activity note is assigned. |
| NotebookTopicObjectId | int                                                                                                                                                     | The unique ID of the associated notebook topic.                       |
| ObjectId              | int                                                                                                                                                     | The unique ID generated by the system.                                |
| NewValues             | ActivityNoteType<br>Refer to the entries in the <b>ActivityNoteType</b> Table below.<br>Additional information can be found in the p6events.xsd schema. | The new values of Physical and writable fields that have changed.     |
| OldValues             | ActivityNoteType<br>Refer to the entries in the <b>ActivityNoteType</b> Table below.<br>Additional information can be found in the p6events.xsd schema. | The old values of Physical and writable fields that have changed.     |

**ActivityNoteType Table**

| Type: ActivityNoteType |      |
|------------------------|------|
| Elements               | Type |
| ActivityObjectId       | int  |
| NotebookTopicObjectId  | int  |
| ObjectId               | int  |

**ActivityOwnerCreated Message**

| Field            | Type | Description                               |
|------------------|------|-------------------------------------------|
| ActivityObjectId | int  | The unique ID of the associated activity. |
| ProjectObjectId  | int  | The unique ID of the associated project.  |
| UserObjectId     | int  | The unique ID of the associated user.     |

**ActivityOwnerUpdated Message**

| Field                | Type                                                                                                                                                            | Description                                                          |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| ActivityObject<br>Id | int                                                                                                                                                             | The unique ID of the associated activity.                            |
| ProjectObject<br>Id  | int                                                                                                                                                             | The unique ID of the associated project.                             |
| UserObjectId         | int                                                                                                                                                             | The unique ID of the associated user.                                |
| NewValues            | ActivityOwnerType<br>Refer to the entries in the<br><b>ActivityOwnerType</b> Table below.<br>Additional information can be found<br>in the p6events.xsd schema. | The new values of Physical and<br>writable fields that have changed. |
| OldValues            | ActivityOwnerType<br>Refer to the entries in the<br><b>ActivityOwnerType</b> Table below.<br>Additional information can be found<br>in the p6events.xsd schema. | The old values of Physical and<br>writable fields that have changed. |

**ActivityOwnerType Table**

| Type: ActivityOwnerType |      |
|-------------------------|------|
| Elements                | Type |

|                   |         |
|-------------------|---------|
| ActivityObjectId  | int     |
| IsActivityFlagged | boolean |
| UserObjectId      | int     |

### ActivityRiskCreated Message

| Field            | Type | Description                                                  |
|------------------|------|--------------------------------------------------------------|
| ActivityObjectId | int  | The unique ID of the activity to which the risk is assigned. |
| ProjectObjectId  | int  | The unique ID of the associated project.                     |
| RiskObjectId     | int  | The unique ID of the associated risk.                        |

### ActivityRiskUpdated Message

| Field            | Type                                                                                                                                                    | Description                                                       |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| ActivityObjectId | int                                                                                                                                                     | The unique ID of the activity to which the risk is assigned.      |
| ProjectObjectId  | int                                                                                                                                                     | The unique ID of the associated project.                          |
| RiskObjectId     | int                                                                                                                                                     | The unique ID of the associated risk.                             |
| NewValues        | ActivityRiskType<br>Refer to the entries in the <b>ActivityRiskType</b> Table below.<br>Additional information can be found in the p6events.xsd schema. | The new values of Physical and writable fields that have changed. |

|           |                                                                                                                                                                |                                                                   |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| OldValues | <b>ActivityRiskType</b><br>Refer to the entries in the <b>ActivityRiskType</b> Table below.<br>Additional information can be found in the p6events.xsd schema. | The old values of Physical and writable fields that have changed. |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|

### ActivityRiskType Table

| Type: ActivityRiskType |      |
|------------------------|------|
| Elements               | Type |
| ActivityObjectId       | int  |
| RiskObjectId           | int  |

### ActivityStepCreated Message

| Field            | Type   | Description                                                    |
|------------------|--------|----------------------------------------------------------------|
| ActivityObjectId | int    | The unique ID of the activity to which the steps are assigned. |
| Name             | string | The name of the activity step.                                 |
| ObjectId         | int    | The unique ID generated by the system.                         |
| ProjectObjectId  | int    | The unique ID of the associated project.                       |

### ActivityStepUpdated Message

| Field            | Type   | Description                                                    |
|------------------|--------|----------------------------------------------------------------|
| ActivityObjectId | int    | The unique ID of the activity to which the steps are assigned. |
| Name             | string | The name of the activity step.                                 |

|                 |                                                                                                                                                         |                                                                   |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| ObjectId        | int                                                                                                                                                     | The unique ID generated by the system.                            |
| ProjectObjectId | int                                                                                                                                                     | The unique ID of the associated project.                          |
| NewValues       | ActivityStepType<br>Refer to the entries in the <b>ActivityStepType</b> Table below.<br>Additional information can be found in the p6events.xsd schema. | The new values of Physical and writable fields that have changed. |
| OldValues       | ActivityStepType<br>Refer to the entries in the <b>ActivityStepType</b> Table below.<br>Additional information can be found in the p6events.xsd schema. | The old values of Physical and writable fields that have changed. |

### ActivityStepType Table

| Type: ActivityStepType |         |
|------------------------|---------|
| Elements               | Type    |
| ActivityObjectId       | int     |
| IsCompleted            | boolean |
| Name                   | string  |
| ObjectId               | int     |
| PercentComplete        | double  |
| Weight                 | double  |

### BaselineProjectCreated Message

| Field | Type | Description |
|-------|------|-------------|
|-------|------|-------------|



| Field    | Type   | Description                                                                                                                                                             |
|----------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Id       | string | 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. |
| Name     | string | The name of the baseline project.                                                                                                                                       |
| ObjectId | int    | The unique ID generated by the system.                                                                                                                                  |

### BaselineProjectUpdated Message

| Field     | Type                                                                                                                                                          | Description                                                                                                                                                             |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Id        | string                                                                                                                                                        | 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. |
| Name      | string                                                                                                                                                        | The name of the baseline project.                                                                                                                                       |
| ObjectId  | int                                                                                                                                                           | The unique ID generated by the system.                                                                                                                                  |
| NewValues | BaselineProjectType<br>Refer to the entries in the <b>BaselineProjectType</b> Table below.<br>Additional information can be found in the p6events.xsd schema. | The new values of Physical and writable fields that have changed.                                                                                                       |
| OldValues | BaselineProjectType<br>Refer to the entries in the <b>BaselineProjectType</b> Table below.<br>Additional information can be found in the p6events.xsd schema. | The old values of Physical and writable fields that have changed.                                                                                                       |

**BaselineProjectType Table**

| Type: BaselineProjectType                   |                                                                                                                                                      |
|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| Elements                                    | Type                                                                                                                                                 |
| ActivityDefaultActivityType                 | string<br>restricted to<br>'Task Dependent'<br>'Resource Dependent'<br>'Level of Effort'<br>'Start Milestone'<br>'Finish Milestone'<br>'WBS Summary' |
| ActivityDefaultCalendarObjectId             | int                                                                                                                                                  |
| ActivityDefaultCostAccountObjectId          | int                                                                                                                                                  |
| ActivityDefaultDurationType                 | string<br>restricted to<br>'Fixed Units/Time'<br>'Fixed Duration and Units/Time'<br>'Fixed Units'<br>'Fixed Duration and Units'                      |
| ActivityDefaultPercentCompleteType          | string<br>restricted to<br>'Physical'<br>'Duration'<br>'Units'                                                                                       |
| ActivityDefaultPricePerUnit                 | double                                                                                                                                               |
| ActivityIdBasedOnSelectedActivity           | boolean                                                                                                                                              |
| ActivityIdIncrement                         | int                                                                                                                                                  |
| ActivityIdPrefix                            | string                                                                                                                                               |
| ActivityIdSuffix                            | int                                                                                                                                                  |
| ActivityPercentCompleteBasedOnActivitySteps | boolean                                                                                                                                              |
| AddActualToRemaining                        | boolean                                                                                                                                              |

|                              |                                                                                                                           |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| AddedBy                      | string                                                                                                                    |
| AllowStatusReview            | boolean                                                                                                                   |
| AnnualDiscountRate           | double                                                                                                                    |
| AnticipatedFinishDate        | dateTime                                                                                                                  |
| AnticipatedStartDate         | dateTime                                                                                                                  |
| AssignmentDefaultDrivingFlag | boolean                                                                                                                   |
| AssignmentDefaultRateType    | string<br>restricted to<br>'Price / Unit'<br>'Price / Unit 2'<br>'Price / Unit 3'<br>'Price / Unit 4'<br>'Price / Unit 5' |
| BaselineTypeObjectId         | int                                                                                                                       |
| CostQuantityRecalculateFlag  | boolean                                                                                                                   |
| CriticalActivityFloatLimit   | double                                                                                                                    |
| CriticalActivityPathType     | string<br>restricted to<br>'Critical Float'<br>'Longest Path'                                                             |
| DateAdded                    | dateTime                                                                                                                  |
| DefaultPriceTimeUnits        | string<br>restricted to<br>'Hour'<br>'Day'<br>'Week'<br>'Month'<br>'Year'<br>'Days Hours'<br>'Hours Minutes'              |
| Description                  | string                                                                                                                    |

|                                |                                                                                           |
|--------------------------------|-------------------------------------------------------------------------------------------|
| DiscountApplicationPeriod      | string<br>restricted to<br>'Month'<br>'Quarter'<br>'Year'                                 |
| EnablePublication              | boolean                                                                                   |
| EnableSummarization            | boolean                                                                                   |
| FiscalYearStartMonth           | int                                                                                       |
| HistoryInterval                | string<br>restricted to<br>'Month'<br>'Week'<br>'Quarter'<br>'Year'<br>'Financial Period' |
| HistoryLevel                   | string<br>restricted to<br>'None'<br>'Project'<br>'WBS'<br>'Activity'                     |
| Id                             | string                                                                                    |
| IndependentETCLaborUnits       | double                                                                                    |
| IndependentETCTotalCost        | double                                                                                    |
| LastBaselineUpdateDate         | dateTime                                                                                  |
| LastFinancialPeriodObjectId    | int                                                                                       |
| LastUpdateBaselineOptions      | string                                                                                    |
| LevelingPriority               | int                                                                                       |
| LinkActualToActualThisPeriod   | boolean                                                                                   |
| LinkPercentCompleteWithActual  | boolean                                                                                   |
| LinkPlannedAndAtCompletionFlag | boolean                                                                                   |

|                                                 |                                                                                                          |
|-------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| LocationObjectId                                | int                                                                                                      |
| MustFinishByDate                                | dateTime                                                                                                 |
| Name                                            | string                                                                                                   |
| OBSObjectId                                     | int                                                                                                      |
| ObjectId                                        | int                                                                                                      |
| OriginalBudget                                  | double                                                                                                   |
| OwnerResourceObjectId                           | int                                                                                                      |
| ParentEPSObjectId                               | int                                                                                                      |
| PlannedStartDate                                | dateTime                                                                                                 |
| PrimaryResourcesCanMarkActivitiesAsCompleted    | boolean                                                                                                  |
| ProjectForecastStartDate                        | dateTime                                                                                                 |
| PublicationPriority                             | int                                                                                                      |
| ResetPlannedToRemainingFlag                     | boolean                                                                                                  |
| ResourceCanBeAssignedToSameActivityMoreThanOnce | boolean                                                                                                  |
| ResourcesCanAssignThemselvesToActivities        | boolean                                                                                                  |
| ResourcesCanEditAssignmentPercentComplete       | boolean                                                                                                  |
| RiskMatrixObjectId                              | int                                                                                                      |
| ScheduledFinishDate                             | dateTime                                                                                                 |
| Status                                          | string<br>restricted to<br>'Planned'<br>'Active'<br>'Inactive'<br>'What-If'<br>'Requested'<br>'Template' |
| StatusReviewerObjectId                          | int                                                                                                      |

|                      |        |
|----------------------|--------|
| StrategicPriority    | int    |
| WBSCodeSeparator     | string |
| WebSiteRootDirectory | string |
| WebSiteURL           | string |

### CalendarCreated Message

| Field           | Type                                                           | Description                                                                                                                                                                                                                        |
|-----------------|----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name            | string                                                         | The name of the calendar.                                                                                                                                                                                                          |
| ObjectId        | int                                                            | The unique ID generated by the system.                                                                                                                                                                                             |
| ProjectObjectId | int                                                            | The unique ID of the associated project.                                                                                                                                                                                           |
| Type            | string<br>restricted to<br>'Global'<br>'Project'<br>'Resource' | 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. |

### CalendarUpdated Message

| Field           | Type                                | Description                                                                                          |
|-----------------|-------------------------------------|------------------------------------------------------------------------------------------------------|
| Name            | string                              | The name of the calendar.                                                                            |
| ObjectId        | int                                 | The unique ID generated by the system.                                                               |
| ProjectObjectId | int                                 | The unique ID of the associated project.                                                             |
| Type            | string<br>restricted to<br>'Global' | The calendar type - either 'Global', 'Resource', or 'Project'. 'Global' calendars can be assigned to |

| Field     | Type                                                                                                                                            | Description                                                                                                                   |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
|           | 'Project'<br>'Resource'                                                                                                                         | projects and resources. 'Resource' calendars can be assigned only to resources. 'Project' calendars are specific to projects. |
| NewValues | CalendarType<br>Refer to the entries in the <b>CalendarType</b> Table below.<br>Additional information can be found in the p6events.xsd schema. | The new values of Physical and writable fields that have changed.                                                             |
| OldValues | CalendarType<br>Refer to the entries in the <b>CalendarType</b> Table below.<br>Additional information can be found in the p6events.xsd schema. | The old values of Physical and writable fields that have changed.                                                             |

### CalendarType Table

| Type: CalendarType   |         |
|----------------------|---------|
| Elements             | Type    |
| BaseCalendarObjectId | int     |
| HoursPerDay          | double  |
| HoursPerMonth        | double  |
| HoursPerWeek         | double  |
| HoursPerYear         | double  |
| IsDefault            | boolean |
| IsPersonal           | boolean |
| Name                 | string  |
| ObjectId             | int     |

|                 |                                                                |
|-----------------|----------------------------------------------------------------|
| ProjectObjectId | int                                                            |
| Type            | string<br>restricted to<br>'Global'<br>'Project'<br>'Resource' |
| CalendarData    | string                                                         |

### EPSBudgetChangeLogCreated Message

| Field        | Type   | Description                                                                                                                 |
|--------------|--------|-----------------------------------------------------------------------------------------------------------------------------|
| ChangeNumber | string | The change number that is automatically incremented according to when changes are added. This can be changed to any number. |
| EPSObjectId  | int    | The unique ID of the EPS element to which the budget change log applies.                                                    |
| ObjectId     | int    | The unique ID generated by the system.                                                                                      |

### EPSBudgetChangeLogUpdated Message

| Field        | Type                   | Description                                                                                                                 |
|--------------|------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| ChangeNumber | string                 | The change number that is automatically incremented according to when changes are added. This can be changed to any number. |
| EPSObjectId  | int                    | The unique ID of the EPS element to which the budget change log applies.                                                    |
| ObjectId     | int                    | The unique ID generated by the system.                                                                                      |
| NewValues    | EPSBudgetChangeLogType | The new values of Physical and                                                                                              |



| Field     | Type                                                                                                                                                                    | Description                                                       |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
|           | Refer to the entries in the <b>EPSBudgetChangeLogType</b> Table below.<br><br>Additional information can be found in the p6events.xsd schema.                           | writable fields that have changed.                                |
| OldValues | EPSBudgetChangeLogType<br>Refer to the entries in the <b>EPSBudgetChangeLogType</b> Table below.<br><br>Additional information can be found in the p6events.xsd schema. | The old values of Physical and writable fields that have changed. |

### EPSBudgetChangeLogType Table

| Type: EPSBudgetChangeLogType |                                                                      |
|------------------------------|----------------------------------------------------------------------|
| Elements                     | Type                                                                 |
| Amount                       | double                                                               |
| ChangeNumber                 | string                                                               |
| Date                         | dateTime                                                             |
| EPSObjectId                  | int                                                                  |
| ObjectId                     | int                                                                  |
| ProjectObjectId              | int                                                                  |
| Reason                       | string                                                               |
| Responsible                  | string                                                               |
| Status                       | string<br>restricted to<br>'Pending'<br>'Approved'<br>'Not Approved' |

### EPSCreated Message

| Field    | Type   | Description                                                     |
|----------|--------|-----------------------------------------------------------------|
| Id       | string | The short code assigned to each EPS element for identification. |
| Name     | string | The name of the EPS element.                                    |
| ObjectId | int    | The unique ID generated by the system.                          |

### EPSUpdated Message

| Field     | Type                                                                                                                                  | Description                                                       |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| Id        | string                                                                                                                                | The short code assigned to each EPS element for identification.   |
| Name      | string                                                                                                                                | The name of the EPS element.                                      |
| ObjectId  | int                                                                                                                                   | The unique ID generated by the system.                            |
| NewValues | EPSType<br>Refer to the entries in the <b>EPSType</b> Table below.<br>Additional information can be found in the p6events.xsd schema. | The new values of Physical and writable fields that have changed. |
| OldValues | EPSType<br>Refer to the entries in the <b>EPSType</b> Table below.<br>Additional information can be found in the p6events.xsd schema. | The old values of Physical and writable fields that have changed. |

**EPSType Table**

| Type: EPSType         |          |
|-----------------------|----------|
| Elements              | Type     |
| AnticipatedFinishDate | dateTime |
| AnticipatedStartDate  | dateTime |
| Id                    | string   |
| Name                  | string   |
| OBSObjectld           | int      |
| Objectld              | int      |
| OriginalBudget        | double   |
| ParentObjectld        | int      |

**EPSFundingCreated Message**

| Field                 | Type | Description                                                          |
|-----------------------|------|----------------------------------------------------------------------|
| EPSObjectld           | int  | The unique ID of the associated EPS for this EPS funding.            |
| FundingSourceObjectld | int  | The unique ID of the associated funding source for this EPS funding. |
| Objectld              | int  | The unique ID generated by the system.                               |

**EPSFundingUpdated Message**

| Field                 | Type | Description                                                 |
|-----------------------|------|-------------------------------------------------------------|
| EPSObjectld           | int  | The unique ID of the associated EPS for this EPS funding.   |
| FundingSourceObjectld | int  | The unique ID of the associated funding source for this EPS |

| Field     | Type                                                                                                                                                    | Description                                                       |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
|           |                                                                                                                                                         | funding.                                                          |
| ObjectId  | int                                                                                                                                                     | The unique ID generated by the system.                            |
| NewValues | EPSFundingType<br>Refer to the entries in the <b>EPSFundingType</b> Table below.<br><br>Additional information can be found in the p6events.xsd schema. | The new values of Physical and writable fields that have changed. |
| OldValues | EPSFundingType<br>Refer to the entries in the <b>EPSFundingType</b> Table below.<br><br>Additional information can be found in the p6events.xsd schema. | The old values of Physical and writable fields that have changed. |

### EPSFundingType Table

| Type: EPSFundingType  |        |
|-----------------------|--------|
| Elements              | Type   |
| Amount                | double |
| FundShare             | double |
| FundingSourceObjectId | int    |
| ObjectId              | int    |
| ProjectObjectId       | int    |

### EPSNoteCreated Message

| Field | Type | Description |
|-------|------|-------------|
|-------|------|-------------|

|                       |     |                                                 |
|-----------------------|-----|-------------------------------------------------|
| EPSObjectId           | int | The unique ID of the associated EPS.            |
| NotebookTopicObjectId | int | The unique ID of the associated notebook topic. |
| ObjectId              | int | The unique ID generated by the system.          |

### EPSNoteUpdated Message

| Field                 | Type                                                                                                                                    | Description                                                       |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| EPSObjectId           | int                                                                                                                                     | The unique ID of the associated EPS.                              |
| NotebookTopicObjectId | int                                                                                                                                     | The unique ID of the associated notebook topic.                   |
| ObjectId              | int                                                                                                                                     | The unique ID generated by the system.                            |
| NewValues             | EPSNoteType<br>Refer to the entries in the <b>EPSNoteType</b> below.<br>Additional information can be found in the p6events.xsd schema. | The new values of Physical and writable fields that have changed. |
| OldValues             | EPSNoteType<br>Refer to the entries in the <b>EPSNoteType</b> below.<br>Additional information can be found in the p6events.xsd schema. | The old values of Physical and writable fields that have changed. |

### EPSNoteType Table

| Type: EPSNoteType |      |
|-------------------|------|
| Elements          | Type |
| EPSObjectId       | int  |

|                       |     |
|-----------------------|-----|
| NotebookTopicObjectId | int |
| ObjectId              | int |
| ProjectObjectId       | int |

### ProjectBudgetChangeLogCreated Message

| Field           | Type   | Description                                                                                                                 |
|-----------------|--------|-----------------------------------------------------------------------------------------------------------------------------|
| ChangeNumber    | string | The change number that is automatically incremented according to when changes are added. This can be changed to any number. |
| ObjectId        | int    | The unique ID generated by the system.                                                                                      |
| ProjectObjectId | int    | The unique ID of the associated project.                                                                                    |
| WBSObjectId     | int    | The unique ID of the WBS element to which the budget change log applies.                                                    |

### ProjectBudgetChangeLogUpdated Message

| Field           | Type                       | Description                                                                                                                 |
|-----------------|----------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| ChangeNumber    | string                     | The change number that is automatically incremented according to when changes are added. This can be changed to any number. |
| ObjectId        | int                        | The unique ID generated by the system.                                                                                      |
| ProjectObjectId | int                        | The unique ID of the associated project.                                                                                    |
| WBSObjectId     | int                        | The unique ID of the WBS element to which the budget change log applies.                                                    |
| NewValues       | ProjectBudgetChangeLogType | The new values of Physical and                                                                                              |

| Field     | Type                                                                                                                                                                            | Description                                                       |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
|           | Refer to the entries in the <b>ProjectBudgetChangeLogType</b> Table below.<br><br>Additional information can be found in the p6events.xsd schema.                               | writable fields that have changed.                                |
| OldValues | ProjectBudgetChangeLogType<br>Refer to the entries in the <b>ProjectBudgetChangeLogType</b> Table below.<br><br>Additional information can be found in the p6events.xsd schema. | The old values of Physical and writable fields that have changed. |

### ProjectBudgetChangeLogType Table

| Type: ProjectBudgetChangeLogType |                                                                      |
|----------------------------------|----------------------------------------------------------------------|
| Elements                         | Type                                                                 |
| Amount                           | double                                                               |
| ChangeNumber                     | string                                                               |
| Date                             | dateTime                                                             |
| ObjectId                         | int                                                                  |
| ProjectObjectId                  | int                                                                  |
| Reason                           | string                                                               |
| Responsible                      | string                                                               |
| Status                           | string<br>restricted to<br>'Pending'<br>'Approved'<br>'Not Approved' |
| WBSObjectId                      | int                                                                  |

### ProjectCodeAssignmentCreated Message

| Field                   | Type | Description                                                         |
|-------------------------|------|---------------------------------------------------------------------|
| ProjectCodeObjectId     | int  | The unique ID of the associated project code.                       |
| ProjectCodeTypeObjectId | int  | The unique ID of the parent project code type.                      |
| ProjectObjectId         | int  | The unique ID of the project to which the project code is assigned. |

### ProjectCodeAssignmentUpdated Message

| Field                   | Type                                                                                                                                                                       | Description                                                         |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| ProjectCodeObjectId     | int                                                                                                                                                                        | The unique ID of the associated project code.                       |
| ProjectCodeTypeObjectId | int                                                                                                                                                                        | The unique ID of the parent project code type.                      |
| ProjectObjectId         | int                                                                                                                                                                        | The unique ID of the project to which the project code is assigned. |
| NewValues               | ProjectCodeAssignmentType<br>Refer to the entries in the <b>ProjectCodeAssignment Type</b> Table below.<br>Additional information can be found in the p6events.xsd schema. | The new values of Physical and writable fields that have changed.   |



| Field     | Type                                                                                                                                                                      | Description                                                       |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| OldValues | ProjectCodeAssignmentType<br>Refer to the entries in the <b>ProjectCodeAssignmentType</b> Table below.<br>Additional information can be found in the p6events.xsd schema. | The old values of Physical and writable fields that have changed. |

### ProjectCodeAssignmentType Table

| Type: ProjectCodeAssignmentType |      |
|---------------------------------|------|
| Elements                        | Type |
| ProjectCodeObjectId             | int  |
| ProjectObjectId                 | int  |

### ProjectCreated Message

| Field    | Type   | Description                                                                                                                         |
|----------|--------|-------------------------------------------------------------------------------------------------------------------------------------|
| Id       | string | The short code assigned to each Project element for identification. Each Project element is uniquely identified by this short code. |
| Name     | string | The name of the Project element.                                                                                                    |
| ObjectId | int    | The unique ID generated by the system.                                                                                              |

### ProjectUpdated Message

| Field | Type   | Description                                                                                          |
|-------|--------|------------------------------------------------------------------------------------------------------|
| Id    | string | The short code assigned to each Project element for identification. Each Project element is uniquely |

| Field     | Type                                                                                                                                          | Description                                                       |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
|           |                                                                                                                                               | identified by this short code.                                    |
| Name      | string                                                                                                                                        | The name of the Project element.                                  |
| ObjectId  | int                                                                                                                                           | The unique ID generated by the system.                            |
| NewValues | ProjectType<br>Refer to the entries in the <b>ProjectType</b> Table below.<br>Additional information can be found in the p6events.xsd schema. | The new values of Physical and writable fields that have changed. |
| OldValues | ProjectType<br>Refer to the entries in the <b>ProjectType</b> Table below.<br>Additional information can be found in the p6events.xsd schema. | The old values of Physical and writable fields that have changed. |

### ProjectType Table

| Type: ProjectType                  |                                                                                                                                                      |
|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| Elements                           | Type                                                                                                                                                 |
| ActivityDefaultActivityType        | string<br>restricted to<br>'Task Dependent'<br>'Resource Dependent'<br>'Level of Effort'<br>'Start Milestone'<br>'Finish Milestone'<br>'WBS Summary' |
| ActivityDefaultCalendarObjectId    | int                                                                                                                                                  |
| ActivityDefaultCostAccountObjectId | int                                                                                                                                                  |

|                                             |                                                                                                                                 |
|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| ActivityDefaultDurationType                 | string<br>restricted to<br>'Fixed Units/Time'<br>'Fixed Duration and Units/Time'<br>'Fixed Units'<br>'Fixed Duration and Units' |
| ActivityDefaultPercentCompleteType          | string<br>restricted to<br>'Physical'<br>'Duration'<br>'Units'                                                                  |
| ActivityDefaultPricePerUnit                 | double                                                                                                                          |
| ActivityIdBasedOnSelectedActivity           | boolean                                                                                                                         |
| ActivityIdIncrement                         | int                                                                                                                             |
| ActivityIdPrefix                            | string                                                                                                                          |
| ActivityIdSuffix                            | int                                                                                                                             |
| ActivityPercentCompleteBasedOnActivitySteps | boolean                                                                                                                         |
| AddActualToRemaining                        | boolean                                                                                                                         |
| AddedBy                                     | string                                                                                                                          |
| AllowNegativeActualUnitsFlag                | boolean                                                                                                                         |
| AllowStatusReview                           | boolean                                                                                                                         |
| AnnualDiscountRate                          | double                                                                                                                          |
| AnticipatedFinishDate                       | dateTime                                                                                                                        |
| AnticipatedStartDate                        | dateTime                                                                                                                        |
| AssignmentDefaultDrivingFlag                | boolean                                                                                                                         |

|                                |                                                                                                                           |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| AssignmentDefaultRateType      | string<br>restricted to<br>'Price / Unit'<br>'Price / Unit 2'<br>'Price / Unit 3'<br>'Price / Unit 4'<br>'Price / Unit 5' |
| CheckOutStatus                 | boolean                                                                                                                   |
| ContractManagementGroupName    | string                                                                                                                    |
| ContractManagementProjectName  | string                                                                                                                    |
| CostQuantityRecalculateFlag    | boolean                                                                                                                   |
| CriticalActivityFloatLimit     | double                                                                                                                    |
| CriticalActivityPathType       | string<br>restricted to<br>'Critical Float'<br>'Longest Path'                                                             |
| CurrentBaselineProjectObjectId | int                                                                                                                       |
| DateAdded                      | dateTime                                                                                                                  |
| DefaultPriceTimeUnits          | string<br>restricted to<br>'Hour'<br>'Day'<br>'Week'<br>'Month'<br>'Year'<br>'Days Hours'<br>'Hours Minutes'              |
| Description                    | string                                                                                                                    |
| DiscountApplicationPeriod      | string<br>restricted to<br>'Month'<br>'Quarter'<br>'Year'                                                                 |

|                           |                                                                                                                                                                                                         |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EarnedValueComputeType    | string<br>restricted to<br>'Activity Percent Complete'<br>'0 / 100'<br>'50 / 50'<br>'Custom Percent Complete'<br>'WBS Milestones Percent Complete'<br>'Activity Percent Complete Using Resource Curves' |
| EarnedValueETCComputeType | string<br>restricted to<br>'ETC = Remaining Cost for Activity'<br>'PF = 1'<br>'PF = Custom Value'<br>'PF = 1 / CPI'<br>'PF = 1 / (CPI * SPI)'                                                           |
| EarnedValueETCUserValue   | double                                                                                                                                                                                                  |
| EarnedValueUserPercent    | double                                                                                                                                                                                                  |
| EnablePublication         | boolean                                                                                                                                                                                                 |
| EnableSummarization       | boolean                                                                                                                                                                                                 |
| FiscalYearStartMonth      | int                                                                                                                                                                                                     |
| HistoryInterval           | string<br>restricted to<br>'Month'<br>'Week'<br>'Quarter'<br>'Year'<br>'Financial Period'                                                                                                               |
| HistoryLevel              | string<br>restricted to<br>'None'<br>'Project'<br>'WBS'<br>'Activity'                                                                                                                                   |

|                                              |                                                           |
|----------------------------------------------|-----------------------------------------------------------|
| Id                                           | string                                                    |
| IndependentETCLaborUnits                     | double                                                    |
| IndependentETCTotalCost                      | double                                                    |
| IntegratedType                               | string<br>restricted to<br>'ERP'<br>'Fusion'<br>'Gateway' |
| LastFinancialPeriodObjectId                  | int                                                       |
| LevelingPriority                             | int                                                       |
| LinkActualToActualThisPeriod                 | boolean                                                   |
| LinkPercentCompleteWithActual                | boolean                                                   |
| LinkPlannedAndAtCompletionFlag               | boolean                                                   |
| LocationObjectId                             | int                                                       |
| MustFinishByDate                             | dateTime                                                  |
| Name                                         | string                                                    |
| OBSObjectId                                  | int                                                       |
| ObjectId                                     | int                                                       |
| OriginalBudget                               | double                                                    |
| OwnerResourceObjectId                        | int                                                       |
| ParentEPSObjectId                            | int                                                       |
| PlannedStartDate                             | dateTime                                                  |
| PrimaryResourcesCanMarkActivitiesAsCompleted | boolean                                                   |
| ProjectForecastStartDate                     | dateTime                                                  |
| PublicationPriority                          | int                                                       |
| ResetPlannedToRemainingFlag                  | boolean                                                   |

|                                                 |                                                                                                          |
|-------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| ResourceCanBeAssignedToSameActivityMoreThanOnce | boolean                                                                                                  |
| ResourcesCanAssignThemselvesToActivities        | boolean                                                                                                  |
| ResourcesCanEditAssignmentPercentComplete       | boolean                                                                                                  |
| ResourcesCanMarkAssignmentAsCompleted           | boolean                                                                                                  |
| ResourcesCanViewInactiveActivities              | boolean                                                                                                  |
| RiskMatrixObjectId                              | int                                                                                                      |
| ScheduledFinishDate                             | dateTime                                                                                                 |
| Status                                          | string<br>restricted to<br>'Planned'<br>'Active'<br>'Inactive'<br>'What-If'<br>'Requested'<br>'Template' |
| StatusReviewerObjectId                          | int                                                                                                      |
| StrategicPriority                               | int                                                                                                      |
| SummarizeToWBSLevel                             | int                                                                                                      |
| SummarizedDataDate                              | dateTime                                                                                                 |
| SummaryLevel                                    | string<br>restricted to<br>'WBS Level'<br>'Assignment Level'                                             |
| UseProjectBaselineForEarnedValue                | boolean                                                                                                  |
| WBSCodeSeparator                                | string                                                                                                   |
| WebSiteRootDirectory                            | string                                                                                                   |
| WebSiteURL                                      | string                                                                                                   |

**ProjectFundingCreated Message**

| Field                 | Type | Description                                                              |
|-----------------------|------|--------------------------------------------------------------------------|
| FundingSourceObjectld | int  | The unique ID of the associated funding source for this project funding. |
| Objectld              | int  | The unique ID generated by the system.                                   |
| ProjectObjectld       | int  | The unique ID of the associated project source for this project funding. |

**ProjectFundingUpdated Message**

| Field                 | Type                                                                                                                                                        | Description                                                              |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| FundingSourceObjectld | int                                                                                                                                                         | The unique ID of the associated funding source for this project funding. |
| Objectld              | int                                                                                                                                                         | The unique ID generated by the system.                                   |
| ProjectObjectld       | int                                                                                                                                                         | The unique ID of the associated project source for this project funding. |
| NewValues             | ProjectFundingType<br>Refer to the entries in the <b>ProjectFundingType</b> Table below.<br>Additional information can be found in the p6events.xsd schema. | The new values of Physical and writable fields that have changed.        |
| OldValues             | ProjectFundingType<br>Refer to the entries in the <b>ProjectFundingType</b> Table below.<br>Additional information can be found in the p6events.xsd schema. | The old values of Physical and writable fields that have changed.        |



**ProjectFundingType Table**

| Type: ProjectFundingType |        |
|--------------------------|--------|
| Elements                 | Type   |
| Amount                   | double |
| FundShare                | double |
| FundingSourceObjectId    | int    |
| ObjectId                 | int    |
| ProjectObjectId          | int    |

**ProjectIssueCreated Message**

| Field            | Type   | Description                                                                                                                                                                                                                     |
|------------------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ActivityObjectId | int    | The unique ID of the activity to which the project issue applies.                                                                                                                                                               |
| Name             | string | 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.                                                      |
| ObjectId         | int    | The unique ID generated by the system.                                                                                                                                                                                          |
| ProjectObjectId  | int    | The unique ID of the associated project.                                                                                                                                                                                        |
| WBSObjectId      | int    | 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. |

**ProjectIssueUpdated Message**

| Field | Type | Description |
|-------|------|-------------|
|-------|------|-------------|

| Field            | Type                                                                                                                                                    | Description                                                                                                                                                                                                                     |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ActivityObjectId | int                                                                                                                                                     | The unique ID of the activity to which the project issue applies.                                                                                                                                                               |
| Name             | string                                                                                                                                                  | 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.                                                      |
| ObjectId         | int                                                                                                                                                     | The unique ID generated by the system.                                                                                                                                                                                          |
| ProjectObjectId  | int                                                                                                                                                     | The unique ID of the associated project.                                                                                                                                                                                        |
| WBSObjectId      | int                                                                                                                                                     | 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. |
| NewValues        | ProjectIssueType<br>Refer to the entries in the <b>ProjectIssueType</b> Table below.<br>Additional information can be found in the p6events.xsd schema. | The new values of Physical and writable fields that have changed.                                                                                                                                                               |
| OldValues        | ProjectIssueType<br>Refer to the entries in the <b>ProjectIssueType</b> Table below.<br>Additional information can be found in the p6events.xsd schema. | The old values of Physical and writable fields that have changed.                                                                                                                                                               |

### ProjectIssueType Table

Type: ProjectIssueType

| Elements         | Type                                                                        |
|------------------|-----------------------------------------------------------------------------|
| ActivityObjectId | int                                                                         |
| ActualValue      | double                                                                      |
| DateIdentified   | dateTime                                                                    |
| IdentifiedBy     | string                                                                      |
| LowerThreshold   | double                                                                      |
| Name             | string                                                                      |
| OBSObjectId      | int                                                                         |
| ObjectId         | int                                                                         |
| Priority         | string<br>restricted to<br>'Top'<br>'High'<br>'Normal'<br>'Low'<br>'Lowest' |
| ProjectObjectId  | int                                                                         |
| ResolutionDate   | dateTime                                                                    |
| ResourceObjectId | int                                                                         |
| Status           | string<br>restricted to<br>'Open'<br>'On Hold'<br>'Closed'                  |
| UpperThreshold   | double                                                                      |
| WBSObjectId      | int                                                                         |

**ProjectNoteCreated Message**

| Field                 | Type | Description                                     |
|-----------------------|------|-------------------------------------------------|
| NotebookTopicObjectId | int  | The unique ID of the associated notebook topic. |
| ObjectId              | int  | The unique ID generated by the system.          |
| ProjectObjectId       | int  | The unique ID of the associated project.        |
| WBSObjectId           | int  | The unique ID of the associated WBS.            |

**ProjectNoteUpdated Message**

| Field                 | Type                                                                                                                                                  | Description                                                       |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| NotebookTopicObjectId | int                                                                                                                                                   | The unique ID of the associated notebook topic.                   |
| ObjectId              | int                                                                                                                                                   | The unique ID generated by the system.                            |
| ProjectObjectId       | int                                                                                                                                                   | The unique ID of the associated project.                          |
| WBSObjectId           | int                                                                                                                                                   | The unique ID of the associated WBS.                              |
| NewValues             | ProjectNoteType<br>Refer to the entries in the <b>ProjectNoteType</b> Table below.<br>Additional information can be found in the p6events.xsd schema. | The new values of Physical and writable fields that have changed. |
| OldValues             | ProjectNoteType<br>Refer to the entries in the <b>ProjectNoteType</b> Table below.<br>Additional information can be found in the p6events.xsd schema. | The old values of Physical and writable fields that have changed. |

**ProjectNoteType Table**

| Type: ProjectNoteType |      |
|-----------------------|------|
| Elements              | Type |
| NotebookTopicObjectId | int  |
| ObjectId              | int  |
| ProjectObjectId       | int  |
| WBSObjectId           | int  |

**ProjectPortfolioCreated Message**

| Field        | Type   | Description                                                                        |
|--------------|--------|------------------------------------------------------------------------------------|
| Name         | string | The name of the project portfolio.                                                 |
| ObjectId     | int    | The unique ID generated by the system.                                             |
| UserObjectId | int    | The unique ID of a specific user who has access to the selected project portfolio. |

**ProjectPortfolioUpdated Message**

| Field        | Type                                                                                  | Description                                                                        |
|--------------|---------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| Name         | string                                                                                | The name of the project portfolio.                                                 |
| ObjectId     | int                                                                                   | The unique ID generated by the system.                                             |
| UserObjectId | int                                                                                   | The unique ID of a specific user who has access to the selected project portfolio. |
| NewValues    | ProjectPortfolioType<br>Refer to the entries in the <b>ProjectPortfolioType</b> Table | The new values of Physical and writable fields that have changed.                  |

| Field     | Type                                                                                                                                                            | Description                                                       |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
|           | below.<br>Additional information can be found in the p6events.xsd schema.                                                                                       |                                                                   |
| OldValues | ProjectPortfolioType<br>Refer to the entries in the <b>ProjectPortfolioType</b> Table below.<br>Additional information can be found in the p6events.xsd schema. | The old values of Physical and writable fields that have changed. |

### ProjectPortfolioType Table

| Type: ProjectPortfolioType |         |
|----------------------------|---------|
| Elements                   | Type    |
| Description                | string  |
| IncludeClosedProjects      | boolean |
| IncludeWhatIfProjects      | boolean |
| Name                       | string  |
| ObjectId                   | int     |
| UserObjectId               | int     |
| Projects                   |         |

### ProjectResourceCreated Message

| Field           | Type | Description                              |
|-----------------|------|------------------------------------------|
| ObjectId        | int  | The unique ID generated by the system.   |
| ProjectObjectId | int  | The unique ID of the associated project. |

| Field                | Type | Description                               |
|----------------------|------|-------------------------------------------|
| ResourceObjec<br>tId | int  | The unique ID of the associated resource. |
| RoleObjectId         | int  | The unique ID of the associated role.     |
| WBSObjectId          | int  | The unique ID of the associated WBS.      |

### ProjectResourceUpdated Message

| Field                | Type                                                                                                                                                                      | Description                                                          |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| ObjectId             | int                                                                                                                                                                       | The unique ID generated by the system.                               |
| ProjectObjectI<br>d  | int                                                                                                                                                                       | The unique ID of the associated project.                             |
| ResourceObjec<br>tId | int                                                                                                                                                                       | The unique ID of the associated resource.                            |
| RoleObjectId         | int                                                                                                                                                                       | The unique ID of the associated role.                                |
| WBSObjectId          | int                                                                                                                                                                       | The unique ID of the associated WBS.                                 |
| NewValues            | ProjectResourceType<br>Refer to the entries in the<br><b>ProjectResourceType</b> Table<br>below.<br>Additional information can be<br>found in the p6events.xsd schema.    | The new values of Physical and<br>writable fields that have changed. |
| OldValues            | ProjectResourceType<br>Refer to the entries in the<br><b>ProjectResourceType</b> Table<br>below.<br>Additional information can be<br>found in the p6events.xsd<br>schema. | The old values of Physical and<br>writable fields that have changed. |

**ProjectResourceType Table**

| Type: ProjectResourceType       |         |
|---------------------------------|---------|
| Elements                        | Type    |
| CommittedFlag                   | boolean |
| LifeOfProjectFlag               | boolean |
| ObjectId                        | int     |
| ProjectObjectId                 | int     |
| ProjectResourceCategoryObjectId | int     |
| ResourceObjectId                | int     |
| RoleObjectId                    | int     |
| WBSObjectId                     | int     |

**RelationshipCreated Message**

| Field                       | Type                                            | Description                                                                                              |
|-----------------------------|-------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| ObjectId                    | int                                             | The unique ID generated by the system.                                                                   |
| PredecessorActivityObjectId | int                                             | The unique ID of the predecessor activity.                                                               |
| PredecessorProjectObjectId  | int                                             | The unique ID of the project that owns the predecessor activity.                                         |
| SuccessorActivityObjectId   | int                                             | The unique ID of the successor activity.                                                                 |
| SuccessorProjectObjectId    | int                                             | The unique ID of the project that owns the successor activity.                                           |
| Type                        | string<br>restricted to<br>'Finish to<br>Start' | The type of relationship: 'Finish to Start', 'Finish to Finish', 'Start to Start', or 'Start to Finish'. |



|  |                                                             |  |
|--|-------------------------------------------------------------|--|
|  | 'Finish to Finish'<br>'Start to Start'<br>'Start to Finish' |  |
|--|-------------------------------------------------------------|--|

### RelationshipUpdated Message

| Field                       | Type                                                                                                                                                            | Description                                                                                              |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| ObjectId                    | int                                                                                                                                                             | The unique ID generated by the system.                                                                   |
| PredecessorActivityObjectId | int                                                                                                                                                             | The unique ID of the predecessor activity.                                                               |
| PredecessorProjectObjectId  | int                                                                                                                                                             | The unique ID of the project that owns the predecessor activity.                                         |
| SuccessorActivityObjectId   | int                                                                                                                                                             | The unique ID of the successor activity.                                                                 |
| SuccessorProjectObjectId    | int                                                                                                                                                             | The unique ID of the project that owns the successor activity.                                           |
| Type                        | string<br>restricted to<br>'Finish to Start'<br>'Finish to Finish'<br>'Start to Start'<br>'Start to Finish'                                                     | The type of relationship: 'Finish to Start', 'Finish to Finish', 'Start to Start', or 'Start to Finish'. |
| NewValues                   | RelationshipType<br><br>Refer to the entries in the <b>RelationshipType</b> Table below.<br><br>Additional information can be found in the p6events.xsd schema. | The new values of Physical and writable fields that have changed.                                        |

|           |                                                                                                                                                                        |                                                                   |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| OldValues | <p>RelationshipType</p> <p>Refer to the entries in the <b>RelationshipType</b> Table below.</p> <p>Additional information can be found in the p6events.xsd schema.</p> | The old values of Physical and writable fields that have changed. |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|

### RelationshipType Table

| Type: RelationshipType      |                                                                                                                                        |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Elements                    | Type                                                                                                                                   |
| Lag                         | double                                                                                                                                 |
| ObjectId                    | int                                                                                                                                    |
| PredecessorActivityObjectId | int                                                                                                                                    |
| PredecessorProjectObjectId  | int                                                                                                                                    |
| SuccessorActivityObjectId   | int                                                                                                                                    |
| SuccessorProjectObjectId    | int                                                                                                                                    |
| Type                        | <p>string</p> <p>restricted to</p> <p>'Finish to Start'</p> <p>'Finish to Finish'</p> <p>'Start to Start'</p> <p>'Start to Finish'</p> |

### ResourceAssignmentCreated Message

| Field               | Type | Description                                                      |
|---------------------|------|------------------------------------------------------------------|
| ActivityObjectId    | int  | The unique ID of the activity to which the resource is assigned. |
| CostAccountObjectId | int  | The unique ID of the cost account associated with                |

|                  |     |                                                                                                                                                                                                                                                                          |
|------------------|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                  |     | this resource assignment.                                                                                                                                                                                                                                                |
| ObjectId         | int | The unique ID generated by the system.                                                                                                                                                                                                                                   |
| ProjectObjectId  | int | The unique ID of the associated project.                                                                                                                                                                                                                                 |
| ResourceObjectId | int | The unique ID of the associated resource.                                                                                                                                                                                                                                |
| RoleObjectId     | int | 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. |

### ResourceAssignmentUpdated Message

| Field               | Type | Description                                                                                                                                                                                                                                                              |
|---------------------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ActivityObjectId    | int  | The unique ID of the activity to which the resource is assigned.                                                                                                                                                                                                         |
| CostAccountObjectId | int  | The unique ID of the cost account associated with this resource assignment.                                                                                                                                                                                              |
| ObjectId            | int  | The unique ID generated by the system.                                                                                                                                                                                                                                   |
| ProjectObjectId     | int  | The unique ID of the associated project.                                                                                                                                                                                                                                 |
| ResourceObjectId    | int  | The unique ID of the associated resource.                                                                                                                                                                                                                                |
| RoleObjectId        | int  | 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. |

| Field     | Type                                                                                                                                                                | Description                                                       |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| NewValues | ResourceAssignmentType<br>Refer to the entries in the <b>ResourceAssignmentType</b> Table below.<br>Additional information can be found in the p6events.xsd schema. | The new values of Physical and writable fields that have changed. |
| OldValues | ResourceAssignmentType<br>Refer to the entries in the <b>ResourceAssignmentType</b> Table below.<br>Additional information can be found in the p6events.xsd schema. | The old values of Physical and writable fields that have changed. |

**ResourceAssignmentType Table**

| Type: ResourceAssignmentType |          |
|------------------------------|----------|
| Elements                     | Type     |
| ActivityObjectId             | int      |
| ActualCost                   | double   |
| ActualCurve                  | string   |
| ActualFinishDate             | dateTime |
| ActualOvertimeCost           | double   |
| ActualOvertimeUnits          | double   |
| ActualRegularCost            | double   |
| ActualRegularUnits           | double   |
| ActualStartDate              | dateTime |
| ActualThisPeriodCost         | double   |

|                          |                                                                                                                     |
|--------------------------|---------------------------------------------------------------------------------------------------------------------|
| ActualThisPeriodUnits    | double                                                                                                              |
| ActualUnits              | double                                                                                                              |
| AtCompletionCost         | double                                                                                                              |
| AtCompletionUnits        | double                                                                                                              |
| CostAccountObjectId      | int                                                                                                                 |
| DrivingActivityDatesFlag | boolean                                                                                                             |
| IsActivityFlagged        | boolean                                                                                                             |
| IsCostUnitsLinked        | boolean                                                                                                             |
| ObjectId                 | int                                                                                                                 |
| OvertimeFactor           | double                                                                                                              |
| PendingPercentComplete   | double                                                                                                              |
| PendingRemainingUnits    | double                                                                                                              |
| PlannedCost              | double                                                                                                              |
| PlannedCurve             | string                                                                                                              |
| PlannedFinishDate        | dateTime                                                                                                            |
| PlannedLag               | double                                                                                                              |
| PlannedStartDate         | dateTime                                                                                                            |
| PlannedUnits             | double                                                                                                              |
| PlannedUnitsPerTime      | double                                                                                                              |
| Proficiency              | string<br>restricted to<br>'1 - Master'<br>'2 - Expert'<br>'3 - Skilled'<br>'4 - Proficient'<br>'5 - Inexperienced' |

|                       |                                                                                                                           |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------|
| RateSource            | string<br>restricted to<br>'Resource'<br>'Role'<br>'Override'                                                             |
| RateType              | string<br>restricted to<br>'Price / Unit'<br>'Price / Unit 2'<br>'Price / Unit 3'<br>'Price / Unit 4'<br>'Price / Unit 5' |
| RemainingCost         | double                                                                                                                    |
| RemainingCurve        | string                                                                                                                    |
| RemainingFinishDate   | dateTime                                                                                                                  |
| RemainingStartDate    | dateTime                                                                                                                  |
| RemainingUnits        | double                                                                                                                    |
| RemainingUnitsPerTime | double                                                                                                                    |
| ResourceCurveObjectId | int                                                                                                                       |
| ResourceObjectId      | int                                                                                                                       |
| ResourceType          | string<br>restricted to<br>'Labor'<br>'Nonlabor'<br>'Material'                                                            |
| RoleObjectId          | int                                                                                                                       |

### ResourceCodeAssignmentCreated Message

| Field | Type | Description |
|-------|------|-------------|
|-------|------|-------------|

|                          |     |                                                                       |
|--------------------------|-----|-----------------------------------------------------------------------|
| ResourceCodeObjectId     | int | The unique ID of the associated resource code.                        |
| ResourceCodeTypeObjectId | int | The unique ID of the parent resource code type.                       |
| ResourceObjectId         | int | The unique ID of the resource to which the resource code is assigned. |

### ResourceCodeAssignmentUpdated Message

| Field                    | Type                                                                                                                                                                         | Description                                                           |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| ResourceCodeObjectId     | int                                                                                                                                                                          | The unique ID of the associated resource code.                        |
| ResourceCodeTypeObjectId | int                                                                                                                                                                          | The unique ID of the parent resource code type.                       |
| ResourceObjectId         | int                                                                                                                                                                          | The unique ID of the resource to which the resource code is assigned. |
| NewValues                | ResourceCodeAssignment Type<br>Refer to the entries in the <b>ResourceCodeAssignmentType</b> Table below.<br>Additional information can be found in the p6events.xsd schema. | The new values of Physical and writable fields that have changed.     |
| OldValues                | ResourceCodeAssignment Type<br>Refer to the entries in the <b>ResourceCodeAssignmentType</b> Table below.<br>Additional information can be found in the p6events.xsd schema. | The old values of Physical and writable fields that have changed.     |

### ResourceCodeAssignmentType Table

| Type: ResourceCodeAssignmentType |      |
|----------------------------------|------|
| Elements                         | Type |
| ResourceCodeObjectId             | int  |
| ResourceObjectId                 | int  |

### ResourceCreated Message

| Field    | Type   | Description                                           |
|----------|--------|-------------------------------------------------------|
| Id       | string | The short code that uniquely identifies the resource. |
| Name     | string | The name of the resource.                             |
| ObjectId | int    | The unique ID generated by the system.                |

### ResourceUpdated Message

| Field     | Type                                                                                                                                            | Description                                                       |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| Id        | string                                                                                                                                          | The short code that uniquely identifies the resource.             |
| Name      | string                                                                                                                                          | The name of the resource.                                         |
| ObjectId  | int                                                                                                                                             | The unique ID generated by the system.                            |
| NewValues | ResourceType<br>Refer to the entries in the <b>ResourceType</b> Table below.<br>Additional information can be found in the p6events.xsd schema. | The new values of Physical and writable fields that have changed. |



| Field     | Type                                                                                                                                            | Description                                                       |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| OldValues | ResourceType<br>Refer to the entries in the <b>ResourceType</b> Table below.<br>Additional information can be found in the p6events.xsd schema. | The old values of Physical and writable fields that have changed. |

### ResourceType Table

| Type: ResourceType     |                                                           |
|------------------------|-----------------------------------------------------------|
| Elements               | Type                                                      |
| AutoComputeActuals     | boolean                                                   |
| CalculateCostFromUnits | boolean                                                   |
| CalendarObjectId       | int                                                       |
| CurrencyObjectId       | int                                                       |
| DefaultUnitsPerTime    | double                                                    |
| EmailAddress           | string                                                    |
| EmployeeId             | string                                                    |
| Id                     | string                                                    |
| IntegratedType         | string<br>restricted to<br>'ERP'<br>'Fusion'<br>'Gateway' |
| IsActive               | boolean                                                   |
| IsOverTimeAllowed      | boolean                                                   |
| LocationObjectId       | int                                                       |
| Name                   | string                                                    |

|                                  |                                                                |
|----------------------------------|----------------------------------------------------------------|
| ObjectId                         | int                                                            |
| OfficePhone                      | string                                                         |
| OtherPhone                       | string                                                         |
| OvertimeFactor                   | double                                                         |
| ParentObjectId                   | int                                                            |
| PrimaryRoleObjectId              | int                                                            |
| ResourceType                     | string<br>restricted to<br>'Labor'<br>'Nonlabor'<br>'Material' |
| ShiftObjectId                    | int                                                            |
| TimesheetApprovalManagerObjectId | int                                                            |
| Title                            | string                                                         |
| UnitOfMeasureObjectId            | int                                                            |
| UseTimesheets                    | boolean                                                        |
| UserObjectId                     | int                                                            |

### ResourceRateCreated Message

| Field            | Type     | Description                                                           |
|------------------|----------|-----------------------------------------------------------------------|
| EffectiveDate    | dateTime | The effective date for the resource price and maximum units per time. |
| ObjectId         | int      | The unique ID generated by the system.                                |
| ResourceObjectId | int      | The unique ID of the associated resource.                             |

|                     |     |                                        |
|---------------------|-----|----------------------------------------|
| ShiftPeriodObjectID | int | The unique ID of the associated shift. |
|---------------------|-----|----------------------------------------|

### ResourceRateUpdated Message

| Field               | Type                                                                                                                                                    | Description                                                           |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| EffectiveDate       | dateTime                                                                                                                                                | The effective date for the resource price and maximum units per time. |
| ObjectID            | int                                                                                                                                                     | The unique ID generated by the system.                                |
| ResourceObjectID    | int                                                                                                                                                     | The unique ID of the associated resource.                             |
| ShiftPeriodObjectID | int                                                                                                                                                     | The unique ID of the associated shift.                                |
| NewValues           | ResourceRateType<br>Refer to the entries in the <b>ResourceRateType</b> Table below.<br>Additional information can be found in the p6events.xsd schema. | The new values of Physical and writable fields that have changed.     |
| OldValues           | ResourceRateType<br>Refer to the entries in the <b>ResourceRateType</b> Table below.<br>Additional information can be found in the p6events.xsd schema. | The old values of Physical and writable fields that have changed.     |

### ResourceRateType Table

|                        |      |
|------------------------|------|
| Type: ResourceRateType |      |
| Elements               | Type |

|                     |          |
|---------------------|----------|
| EffectiveDate       | dateTime |
| MaxUnitsPerTime     | double   |
| ObjectId            | int      |
| PricePerUnit        | double   |
| PricePerUnit2       | double   |
| PricePerUnit3       | double   |
| PricePerUnit4       | double   |
| PricePerUnit5       | double   |
| ResourceObjectId    | int      |
| ShiftPeriodObjectId | int      |

### ResourceRoleCreated Message

| Field                | Type | Description                               |
|----------------------|------|-------------------------------------------|
| ResourceObjec<br>tId | int  | The unique ID of the associated resource. |
| RoleObjectId         | int  | The unique ID of the associated role.     |

### ResourceRoleUpdated Message

| Field                | Type                                                                                    | Description                                                       |
|----------------------|-----------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| ResourceObjec<br>tId | int                                                                                     | The unique ID of the associated resource.                         |
| RoleObjectId         | int                                                                                     | The unique ID of the associated role.                             |
| NewValues            | ResourceRoleType<br>Refer to the entries in the<br><b>ResourceRoleType</b> Table below. | The new values of Physical and writable fields that have changed. |

|           |                                                                                                                                                         |                                                                   |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
|           | Additional information can be found in the p6events.xsd schema.                                                                                         |                                                                   |
| OldValues | ResourceRoleType<br>Refer to the entries in the <b>ResourceRoleType</b> Table below.<br>Additional information can be found in the p6events.xsd schema. | The old values of Physical and writable fields that have changed. |

### ResourceRoleType Table

| Type: ResourceRoleType |                                                                                                                     |
|------------------------|---------------------------------------------------------------------------------------------------------------------|
| Elements               | Type                                                                                                                |
| Proficiency            | string<br>restricted to<br>'1 - Master'<br>'2 - Expert'<br>'3 - Skilled'<br>'4 - Proficient'<br>'5 - Inexperienced' |
| ResourceObjectId       | int                                                                                                                 |
| RoleObjectId           | int                                                                                                                 |

### ResourceTeamCreated Message

| Field        | Type   | Description                            |
|--------------|--------|----------------------------------------|
| Name         | string | The name of the resource team.         |
| ObjectId     | int    | The unique ID generated by the system. |
| UserObjectId | int    | The unique ID of the associated user.  |

**ResourceTeamUpdated Message**

| Field        | Type                                                                                                                                                    | Description                                                       |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| Name         | string                                                                                                                                                  | The name of the resource team.                                    |
| ObjectId     | int                                                                                                                                                     | The unique ID generated by the system.                            |
| UserObjectId | int                                                                                                                                                     | The unique ID of the associated user.                             |
| NewValues    | ResourceTeamType<br>Refer to the entries in the <b>ResourceTeamType</b> Table below.<br>Additional information can be found in the p6events.xsd schema. | The new values of Physical and writable fields that have changed. |
| OldValues    | ResourceTeamType<br>Refer to the entries in the <b>ResourceTeamType</b> Table below.<br>Additional information can be found in the p6events.xsd schema. | The old values of Physical and writable fields that have changed. |

**ResourceTeamType Table**

| Type: ResourceTeamType |        |
|------------------------|--------|
| Elements               | Type   |
| Description            | string |
| Name                   | string |
| ObjectId               | int    |
| UserObjectId           | int    |
| Resources              |        |

**RiskCategoryCreated Message**

| Field          | Type   | Description                                                               |
|----------------|--------|---------------------------------------------------------------------------|
| Name           | string | The name of the risk category.                                            |
| ObjectId       | int    | The unique ID generated by the system.                                    |
| ParentObjectId | int    | The unique ID of the parent risk type of this risk type in the hierarchy. |

**RiskCategoryUpdated Message**

| Field          | Type                                                                                                                                                    | Description                                                               |
|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
| Name           | string                                                                                                                                                  | The name of the risk category.                                            |
| ObjectId       | int                                                                                                                                                     | The unique ID generated by the system.                                    |
| ParentObjectId | int                                                                                                                                                     | The unique ID of the parent risk type of this risk type in the hierarchy. |
| NewValues      | RiskCategoryType<br>Refer to the entries in the <b>RiskCategoryType</b> Table below.<br>Additional information can be found in the p6events.xsd schema. | The new values of Physical and writable fields that have changed.         |
| OldValues      | RiskCategoryType<br>Refer to the entries in the <b>RiskCategoryType</b> Table below.<br>Additional information can be found in the p6events.xsd schema. | The old values of Physical and writable fields that have changed.         |

**RiskCategoryType Table**

| Type: RiskCategoryType |        |
|------------------------|--------|
| Elements               | Type   |
| Name                   | string |
| ObjectId               | int    |
| ParentObjectId         | int    |

**RiskCreated Message**

| Field                        | Type     | Description                                                                                                                                         |
|------------------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| Id                           | string   | The ID of the Risk. Must be unique within a project.                                                                                                |
| IdentifiedByResourceObjectId | int      | The unique ID of the resource that identified the risk.                                                                                             |
| IdentifiedDate               | dateTime | The date this risk was identified.                                                                                                                  |
| ObjectId                     | int      | The unique ID generated by the system.                                                                                                              |
| ProjectObjectId              | int      | The unique ID of the associated project.                                                                                                            |
| ResourceObjectId             | int      | The unique ID of the associated resource.                                                                                                           |
| RiskCategoryObjectId         | int      | The unique ID 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. |

**RiskUpdated Message**

| Field                 | Type   | Description                                          |
|-----------------------|--------|------------------------------------------------------|
| Id                    | string | The ID of the Risk. Must be unique within a project. |
| IdentifiedByResourceO | int    | The unique ID of the resource                        |



|                      |                                                                                                                                         |                                                                                                                                                     |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| bjectId              |                                                                                                                                         | that identified the risk.                                                                                                                           |
| IdentifiedDate       | dateTime                                                                                                                                | The date this risk was identified.                                                                                                                  |
| ObjectId             | int                                                                                                                                     | The unique ID generated by the system.                                                                                                              |
| ProjectObjectId      | int                                                                                                                                     | The unique ID of the associated project.                                                                                                            |
| ResourceObjectId     | int                                                                                                                                     | The unique ID of the associated resource.                                                                                                           |
| RiskCategoryObjectId | int                                                                                                                                     | The unique ID 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. |
| NewValues            | RiskType<br>Refer to the entries in the <b>RiskType</b> Table below.<br>Additional information can be found in the p6events.xsd schema. | The new values of Physical and writable fields that have changed.                                                                                   |
| OldValues            | RiskType<br>Refer to the entries in the <b>RiskType</b> Table below.<br>Additional information can be found in the p6events.xsd schema. | The old values of Physical and writable fields that have changed.                                                                                   |

### RiskType Table

| Type: RiskType |        |
|----------------|--------|
| Elements       | Type   |
| Cause          | string |
| Description    | string |
| Effect         | string |

|                              |                                                                                                      |
|------------------------------|------------------------------------------------------------------------------------------------------|
| Id                           | string                                                                                               |
| IdentifiedByResourceObjectId | int                                                                                                  |
| IdentifiedDate               | dateTime                                                                                             |
| Name                         | string                                                                                               |
| Note                         | string                                                                                               |
| ObjectId                     | int                                                                                                  |
| ProjectObjectId              | int                                                                                                  |
| ResourceObjectId             | int                                                                                                  |
| RiskCategoryObjectId         | int                                                                                                  |
| Status                       | string<br>restricted to<br>'Proposed'<br>'Open'<br>'Active'<br>'Rejected'<br>'Managed'<br>'Impacted' |
| Type                         | string<br>restricted to<br>'Threat'<br>'Opportunity'                                                 |

### RiskImpactCreated Message

| Field                          | Type | Description                                     |
|--------------------------------|------|-------------------------------------------------|
| ProjectObjectId                | int  | The unique ID of the associated project.        |
| RiskObjectId                   | int  | The unique ID of the associated risk.           |
| RiskThresholdLevelObjec<br>tId | int  | The unique ID of the associated Risk Threshold. |

|                       |     |                                                      |
|-----------------------|-----|------------------------------------------------------|
| RiskThresholdObjectId | int | The unique ID of the associated Risk Threshold Type. |
|-----------------------|-----|------------------------------------------------------|

### RiskImpactUpdated Message

| Field                      | Type                                                                                                                                                | Description                                                       |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| ProjectObjectId            | int                                                                                                                                                 | The unique ID of the associated project.                          |
| RiskObjectId               | int                                                                                                                                                 | The unique ID of the associated risk.                             |
| RiskThresholdLevelObjectId | int                                                                                                                                                 | The unique ID of the associated Risk Threshold.                   |
| RiskThresholdObjectId      | int                                                                                                                                                 | The unique ID of the associated Risk Threshold Type.              |
| NewValues                  | RiskImpactType<br>Refer to the entries in the <b>RiskImpactType</b> Table below.<br>Additional information can be found in the p6events.xsd schema. | The new values of Physical and writable fields that have changed. |
| OldValues                  | RiskImpactType<br>Refer to the entries in the <b>RiskImpactType</b> Table below.<br>Additional information can be found in the p6events.xsd schema. | The old values of Physical and writable fields that have changed. |

### RiskImpactType Table

|                      |      |
|----------------------|------|
| Type: RiskImpactType |      |
| Elements             | Type |

|                            |     |
|----------------------------|-----|
| RiskObjectId               | int |
| RiskThresholdLevelObjectId | int |

### RiskMatrixCreated Message

| Field    | Type   | Description                            |
|----------|--------|----------------------------------------|
| Name     | string | The name of the risk matrix.           |
| ObjectId | int    | The unique ID generated by the system. |

### RiskMatrixUpdated Message

| Field     | Type                                                                                                                                                | Description                                                       |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| Name      | string                                                                                                                                              | The name of the risk matrix.                                      |
| ObjectId  | int                                                                                                                                                 | The unique ID generated by the system.                            |
| NewValues | RiskMatrixType<br>Refer to the entries in the <b>RiskMatrixType</b> Table below.<br>Additional information can be found in the p6events.xsd schema. | The new values of Physical and writable fields that have changed. |
| OldValues | RiskMatrixType<br>Refer to the entries in the <b>RiskMatrixType</b> Table below.<br>Additional information can be found in the p6events.xsd schema. | The old values of Physical and writable fields that have changed. |

### RiskMatrixType Table

Type: RiskMatrixType

| Elements          | Type                                                                                           |
|-------------------|------------------------------------------------------------------------------------------------|
| Description       | string                                                                                         |
| Name              | string                                                                                         |
| ObjectId          | int                                                                                            |
| RiskScoringMethod | string<br>restricted to<br>'Highest'<br>'Average of Impacts'<br>'Average of Individual Scores' |

#### RiskMatrixScoreCreated Message

| Field              | Type | Description                                  |
|--------------------|------|----------------------------------------------|
| ObjectId           | int  | The unique ID generated by the system.       |
| RiskMatrixObjectId | int  | The unique ID of the associated Risk Matrix. |

#### RiskMatrixScoreUpdated Message

| Field              | Type                                                                                                                                                          | Description                                                       |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| ObjectId           | int                                                                                                                                                           | The unique ID generated by the system.                            |
| RiskMatrixObjectId | int                                                                                                                                                           | The unique ID of the associated Risk Matrix.                      |
| NewValues          | RiskMatrixScoreType<br>Refer to the entries in the <b>RiskMatrixScoreType</b> Table below.<br>Additional information can be found in the p6events.xsd schema. | The new values of Physical and writable fields that have changed. |

|           |                                                                                                                                                                      |                                                                   |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| OldValues | <b>RiskMatrixScoreType</b><br>Refer to the entries in the <b>RiskMatrixScoreType</b> Table below.<br>Additional information can be found in the p6events.xsd schema. | The old values of Physical and writable fields that have changed. |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|

**RiskMatrixScoreType Table**

| Type: RiskMatrixScoreType |        |
|---------------------------|--------|
| Elements                  | Type   |
| ObjectId                  | int    |
| ProbabilityThresholdLevel | int    |
| RiskMatrixObjectId        | int    |
| Severity1                 | int    |
| Severity1Label            | string |
| Severity2                 | int    |
| Severity2Label            | string |
| Severity3                 | int    |
| Severity3Label            | string |
| Severity4                 | int    |
| Severity4Label            | string |
| Severity5                 | int    |
| Severity5Label            | string |
| Severity6                 | int    |
| Severity6Label            | string |
| Severity7                 | int    |

|                |        |
|----------------|--------|
| Severity7Label | string |
| Severity8      | int    |
| Severity8Label | string |
| Severity9      | int    |
| Severity9Label | string |

#### RiskMatrixThresholdCreated Message

| Field                 | Type | Description                                     |
|-----------------------|------|-------------------------------------------------|
| RiskMatrixObjectId    | int  | The unique ID of the associated Risk Matrix.    |
| RiskThresholdObjectId | int  | The unique ID of the associated Risk Threshold. |

#### RiskMatrixThresholdUpdated Message

| Field                 | Type                                                                                                                                                                                 | Description                                                       |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| RiskMatrixObjectId    | int                                                                                                                                                                                  | The unique ID of the associated Risk Matrix.                      |
| RiskThresholdObjectId | int                                                                                                                                                                                  | The unique ID of the associated Risk Threshold.                   |
| NewValues             | <p>RiskMatrixThresholdType</p> <p>Refer to the entries in the <b>RiskMatrixThresholdType</b> Table below.</p> <p>Additional information can be found in the p6events.xsd schema.</p> | The new values of Physical and writable fields that have changed. |

|           |                                                                                                                                                                                      |                                                                   |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| OldValues | <p>RiskMatrixThresholdType</p> <p>Refer to the entries in the <b>RiskMatrixThresholdType</b> Table below.</p> <p>Additional information can be found in the p6events.xsd schema.</p> | The old values of Physical and writable fields that have changed. |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|

### RiskMatrixThresholdType Table

| Type: RiskMatrixThresholdType |      |
|-------------------------------|------|
| Elements                      | Type |
| RiskMatrixObjectId            | int  |
| RiskThresholdObjectId         | int  |

### RiskResponseActionCreated Message

| Field                    | Type   | Description                                                                       |
|--------------------------|--------|-----------------------------------------------------------------------------------|
| Id                       | string | The ID of the risk response action. This must be unique within the assigned risk. |
| ObjectId                 | int    | The unique ID generated by the system.                                            |
| ProjectObjectId          | int    | The unique ID of the project associated with the risk response action.            |
| RiskResponsePlanObjectId | int    | The unique ID of the risk response plan associated with the risk response action. |

### RiskResponseActionUpdated Message

| Field | Type   | Description                                                        |
|-------|--------|--------------------------------------------------------------------|
| Id    | string | The ID of the risk response action. This must be unique within the |



|                          |                                                                                                                                                                     |                                                                                   |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
|                          |                                                                                                                                                                     | assigned risk.                                                                    |
| ObjectId                 | int                                                                                                                                                                 | The unique ID generated by the system.                                            |
| ProjectObjectId          | int                                                                                                                                                                 | The unique ID of the project associated with the risk response action.            |
| RiskResponsePlanObjectId | int                                                                                                                                                                 | The unique ID of the risk response plan associated with the risk response action. |
| NewValues                | RiskResponseActionType<br>Refer to the entries in the <b>RiskResponseActionType</b> Table below.<br>Additional information can be found in the p6events.xsd schema. | The new values of Physical and writable fields that have changed.                 |
| OldValues                | RiskResponseActionType<br>Refer to the entries in the <b>RiskResponseActionType</b> Table below.<br>Additional information can be found in the p6events.xsd schema. | The old values of Physical and writable fields that have changed.                 |

### RiskResponseActionType Table

| Type: RiskResponseActionType |        |
|------------------------------|--------|
| Elements                     | Type   |
| ActivityObjectId             | int    |
| Id                           | string |
| Name                         | string |
| ObjectId                     | int    |
| ResourceObjectId             | int    |

|                          |                                                                                                    |
|--------------------------|----------------------------------------------------------------------------------------------------|
| RiskResponsePlanObjectId | int                                                                                                |
| Status                   | string<br>restricted to<br>'Proposed'<br>'Sanctioned'<br>'Rejected'<br>'In Progress'<br>'Complete' |

### RiskResponseActionImpactCreated Message

| Field                      | Type | Description                                                                                |
|----------------------------|------|--------------------------------------------------------------------------------------------|
| ProjectObjectId            | int  | The ID of the risk response action impact. This must be unique within the assigned risk.   |
| RiskResponseActionObjectId | int  | The unique ID of the risk response action associated with the risk response action impact. |
| RiskThresholdLevelObjectId | int  | The unique ID of the risk threshold level associated with the risk response action.        |
| RiskThresholdObjectId      | int  | The unique id of the risk threshold associated with the risk response action.              |

### RiskResponseActionImpactUpdated Message

| Field                      | Type | Description                                                                                |
|----------------------------|------|--------------------------------------------------------------------------------------------|
| ProjectObjectId            | int  | The unique ID of the project associated with the risk response action impact.              |
| RiskResponseActionObjectId | int  | The unique ID of the risk response action associated with the risk response action impact. |
| RiskThresholdLevelObjectId | int  | The unique ID of the risk threshold level associated with the risk response action impact. |

|                       |                                                                                                                                                                                  |                                                                                      |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| RiskThresholdObjectId | int                                                                                                                                                                              | The unique ID of the risk threshold associated with the risk response action impact. |
| NewValues             | RiskResponseActionImpact Type<br>Refer to the entries in the <b>RiskResponseActionImpactType</b> Table below.<br>Additional information can be found in the p6events.xsd schema. | The new values of Physical and writable fields that have changed.                    |
| OldValues             | RiskResponseActionImpact Type<br>Refer to the entries in the <b>RiskResponseActionImpactType</b> Table below.<br>Additional information can be found in the p6events.xsd schema. | The old values of Physical and writable fields that have changed.                    |

### RiskResponseActionImpactType Table

| Type: RiskResponseActionImpactType |      |
|------------------------------------|------|
| Elements                           | Type |
| RiskResponseActionObjectId         | int  |
| RiskThresholdLevelObjectId         | int  |

### RiskResponsePlanCreated Message

| Field    | Type   | Description                                                                     |
|----------|--------|---------------------------------------------------------------------------------|
| Id       | string | The ID of the risk response plan. This must be unique within the assigned risk. |
| ObjectId | int    | The unique ID generated by the system.                                          |

|                     |     |                                          |
|---------------------|-----|------------------------------------------|
| ProjectObjectI<br>d | int | The unique ID of the associated project. |
| RiskObjectI<br>d    | int | The unique ID of the associated risk.    |

### RiskResponsePlanUpdated Message

| Field           | Type                                                                                                                                                            | Description                                                                     |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| Id              | string                                                                                                                                                          | The ID of the risk response plan. This must be unique within the assigned risk. |
| ObjectId        | int                                                                                                                                                             | The unique ID generated by the system.                                          |
| ProjectObjectId | int                                                                                                                                                             | The unique ID of the associated project.                                        |
| RiskObjectId    | int                                                                                                                                                             | The unique ID of the associated risk.                                           |
| NewValues       | RiskResponsePlanType<br>Refer to the entries in the <b>RiskResponsePlanType</b> Table below.<br>Additional information can be found in the p6events.xsd schema. | The new values of Physical and writable fields that have changed.               |
| OldValues       | RiskResponsePlanType<br>Refer to the entries in the <b>RiskResponsePlanType</b> Table below.<br>Additional information can be found in the p6events.xsd schema. | The old values of Physical and writable fields that have changed.               |

### RiskResponsePlanType Table

Type: RiskResponsePlanType

| Elements     | Type                                                                                                                           |
|--------------|--------------------------------------------------------------------------------------------------------------------------------|
| Id           | string                                                                                                                         |
| IsActive     | boolean                                                                                                                        |
| Name         | string                                                                                                                         |
| ObjectId     | int                                                                                                                            |
| ResponseType | string<br>restricted to<br>'Avoid'<br>'Transfer'<br>'Reduce'<br>'Accept'<br>'Exploit'<br>'Facilitate'<br>'Enhance'<br>'Reject' |
| RiskObjectId | int                                                                                                                            |

### RiskThresholdCreated Message

| Field    | Type   | Description                            |
|----------|--------|----------------------------------------|
| Name     | string | The name of the risk score type.       |
| ObjectId | int    | The unique ID generated by the system. |

### RiskThresholdUpdated Message

| Field     | Type              | Description                            |
|-----------|-------------------|----------------------------------------|
| Name      | string            | The name of the risk score type.       |
| ObjectId  | int               | The unique ID generated by the system. |
| NewValues | RiskThresholdType | The new values of Physical and         |

|           |                                                                                                                                                           |                                                                   |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
|           | Refer to the entries in the <b>RiskThresholdType</b> Table below.<br>Additional information can be found in the p6events.xsd schema.                      | writable fields that have changed.                                |
| OldValues | RiskThresholdType<br>Refer to the entries in the <b>RiskThresholdType</b> Table below.<br>Additional information can be found in the p6events.xsd schema. | The old values of Physical and writable fields that have changed. |

### RiskThresholdType Table

| Type: RiskThresholdType |                                                                                                                                             |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| Elements                | Type                                                                                                                                        |
| Name                    | string                                                                                                                                      |
| ObjectId                | int                                                                                                                                         |
| ThresholdType           | string<br>restricted to<br>'Probability'<br>'Tolerance'<br>'Schedule'<br>'Cost'<br>'Relative Schedule'<br>'Relative Cost'<br>'User Defined' |

### RiskThresholdLevelCreated Message

| Field    | Type   | Description                                                    |
|----------|--------|----------------------------------------------------------------|
| Code     | string | The 10 character code for the threshold level. Must be unique. |
| ObjectId | int    | The unique ID generated by the system.                         |

|                       |     |                                                 |
|-----------------------|-----|-------------------------------------------------|
| RiskThresholdObjectId | int | The unique ID of the associated Risk Threshold. |
|-----------------------|-----|-------------------------------------------------|

### RiskThresholdLevelUpdated Message

| Field                 | Type                                                                                                                                                                | Description                                                       |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| Code                  | string                                                                                                                                                              | The 10 character code for the threshold level. Must be unique.    |
| ObjectId              | int                                                                                                                                                                 | The unique ID generated by the system.                            |
| RiskThresholdObjectId | int                                                                                                                                                                 | The unique ID of the associated Risk Threshold.                   |
| NewValues             | RiskThresholdLevelType<br>Refer to the entries in the <b>RiskThresholdLevelType</b> Table below.<br>Additional information can be found in the p6events.xsd schema. | The new values of Physical and writable fields that have changed. |
| OldValues             | RiskThresholdLevelType<br>Refer to the entries in the <b>RiskThresholdLevelType</b> Table below.<br>Additional information can be found in the p6events.xsd schema. | The old values of Physical and writable fields that have changed. |

### RiskThresholdLevelType Table

| Type: RiskThresholdLevelType |        |
|------------------------------|--------|
| Elements                     | Type   |
| Code                         | string |

|                       |                                                         |
|-----------------------|---------------------------------------------------------|
| Color                 | string<br>restricted to<br>pattern<br>'#[A-Fa-f0-9]{6}' |
| CostRange             | double                                                  |
| Level                 | int                                                     |
| Name                  | string                                                  |
| ObjectId              | int                                                     |
| ProbabilityRange      | double                                                  |
| Range                 | string                                                  |
| RiskThresholdObjectId | int                                                     |
| ScheduleRange         | double                                                  |
| ToleranceRange        | int                                                     |

### RoleCreated Message

| Field    | Type   | Description                                                       |
|----------|--------|-------------------------------------------------------------------|
| Id       | string | The short code that uniquely identifies the role.                 |
| Name     | string | The name of the role. The role name uniquely identifies the role. |
| ObjectId | int    | The unique ID generated by the system.                            |

### RoleUpdated Message

| Field | Type   | Description                                       |
|-------|--------|---------------------------------------------------|
| Id    | string | The short code that uniquely identifies the role. |



|           |                                                                                                                                         |                                                                   |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| Name      | string                                                                                                                                  | The name of the role. The role name uniquely identifies the role. |
| ObjectId  | int                                                                                                                                     | The unique ID generated by the system.                            |
| NewValues | RoleType<br>Refer to the entries in the <b>RoleType</b> Table below.<br>Additional information can be found in the p6events.xsd schema. | The new values of Physical and writable fields that have changed. |
| OldValues | RoleType<br>Refer to the entries in the <b>RoleType</b> Table below.<br>Additional information can be found in the p6events.xsd schema. | The old values of Physical and writable fields that have changed. |

### RoleType Table

| Type: RoleType         |         |
|------------------------|---------|
| Elements               | Type    |
| CalculateCostFromUnits | boolean |
| Id                     | string  |
| Name                   | string  |
| ObjectId               | int     |
| ParentObjectId         | int     |

### RoleRateCreated Message

| Field | Type | Description |
|-------|------|-------------|
|-------|------|-------------|

|              |     |                                        |
|--------------|-----|----------------------------------------|
| ObjectId     | int | The unique ID generated by the system. |
| RoleObjectId | int | The unique ID of the associated role.  |

### RoleRateUpdated Message

| Field        | Type                                                                                                                                     | Description                                                       |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| ObjectId     | int                                                                                                                                      | The unique ID generated by the system.                            |
| RoleObjectId | int                                                                                                                                      | The unique ID of the associated role.                             |
| NewValues    | RoleRateType<br>Refer to the entries in the RoleRateType Table below.<br>Additional information can be found in the p6events.xsd schema. | The new values of Physical and writable fields that have changed. |
| OldValues    | RoleRateType<br>Refer to the entries in the RoleRateType Table below.<br>Additional information can be found in the p6events.xsd schema. | The old values of Physical and writable fields that have changed. |

### RoleRateType Table

| Type: RoleRateType |        |
|--------------------|--------|
| Elements           | Type   |
| ObjectId           | int    |
| PricePerUnit       | double |
| PricePerUnit2      | double |
| PricePerUnit3      | double |
| PricePerUnit4      | double |

|               |        |
|---------------|--------|
| PricePerUnit5 | double |
| RoleObjectId  | int    |

### RoleTeamCreated Message

| Field        | Type   | Description                                                                |
|--------------|--------|----------------------------------------------------------------------------|
| Name         | string | The name of the role team.                                                 |
| ObjectId     | int    | The unique ID generated by the system.                                     |
| UserObjectId | int    | The unique ID of a specific user who has access to the selected role team. |

### RoleTeamUpdated Message

| Field        | Type                                                                                                                                            | Description                                                                |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|
| Name         | string                                                                                                                                          | The name of the role team.                                                 |
| ObjectId     | int                                                                                                                                             | The unique ID generated by the system.                                     |
| UserObjectId | int                                                                                                                                             | The unique ID of a specific user who has access to the selected role team. |
| NewValues    | RoleTeamType<br>Refer to the entries in the <b>RoleTeamType</b> Table below.<br>Additional information can be found in the p6events.xsd schema. | The new values of Physical and writable fields that have changed.          |

|           |                                                                                                                                                        |                                                                   |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| OldValues | <b>RoleTeamType</b><br>Refer to the entries in the <b>RoleTeamType</b> Table below.<br>Additional information can be found in the p6events.xsd schema. | The old values of Physical and writable fields that have changed. |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|

### RoleTeamType Table

| Type: RoleTeamType |        |
|--------------------|--------|
| Elements           | Type   |
| Description        | string |
| Name               | string |
| ObjectId           | int    |
| UserObjectId       | int    |
| Roles              |        |

### TimesheetUpdated Message

| Field                   | Type     | Description                                                     |
|-------------------------|----------|-----------------------------------------------------------------|
| ResourceId              | string   | The short code that uniquely identifies the resource.           |
| ResourceName            | string   | The name of the resource.                                       |
| ResourceObjectId        | int      | The unique ID of the associated resource.                       |
| StatusDate              | dateTime | The date on which the status of the timesheet was last changed. |
| TimesheetPeriodObjectId | int      | The unique ID of the timesheet period.                          |

|              |                                                                                                                                                                  |                                                                   |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| UserName     | string                                                                                                                                                           | The user name who updated the timesheet.                          |
| UserObjectId | int                                                                                                                                                              | The unique ID of the associated user.                             |
| NewValues    | <p>TimesheetType</p> <p>Refer to the entries in the <b>TimesheetType</b> Table below.</p> <p>Additional information can be found in the p6events.xsd schema.</p> | The new values of Physical and writable fields that have changed. |
| OldValues    | <p>TimesheetType</p> <p>Refer to the entries in the <b>TimesheetType</b> Table below.</p> <p>Additional information can be found in the p6events.xsd schema.</p> | The old values of Physical and writable fields that have changed. |

### TimesheetType Table

| Type: TimesheetType |                                                                                                                                                                                                                                                                                                  |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Elements            | Type                                                                                                                                                                                                                                                                                             |
| Status              | <p>string</p> <p>restricted to</p> <p>'Submitted'</p> <p>'Approved'</p> <p>'Resource Manager Approved'</p> <p>'Project Manager Approved'</p> <p>'Active'</p> <p>'Rejected'</p> <p>'Not Started'</p> <p>'Resubmitted'</p> <p>'Reopened'</p> <p>'Submitted for RM'</p> <p>'Resubmitted for RM'</p> |

**UDFValueCreated Message**

| Field              | Type                                                                                                                             | Description                                                                                                                  |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| Cost               | double                                                                                                                           | The value of the cost UDF.                                                                                                   |
| Double             | double                                                                                                                           | The value of the double UDF.                                                                                                 |
| FinishDate         | dateTime                                                                                                                         | The value of the finish date UDF.                                                                                            |
| ForeignObjectId    | int                                                                                                                              | The unique ID of the business object to which the UDF is assigned: ProjectObjectId, ActivityObjectId, ResourceObjectId, etc. |
| Indicator          | string<br>restricted to<br>'None'<br>'Red'<br>'Yellow'<br>'Green'<br>'Blue'                                                      | The value of the indicator UDF.                                                                                              |
| Integer            | int                                                                                                                              | The value of the integer UDF.                                                                                                |
| ProjectObjectId    | int                                                                                                                              | The unique ID of the associated project.                                                                                     |
| StartDate          | dateTime                                                                                                                         | The value of the start date UDF.                                                                                             |
| Text               | string                                                                                                                           | The value of the text UDF.                                                                                                   |
| UDFCodeObjectId    | int                                                                                                                              | The unique ID of the associated UDF code.                                                                                    |
| UDFTypeObjectId    | int                                                                                                                              | The unique ID of the associated UDF type.                                                                                    |
| UDFTypeSubjectArea | string<br>restricted to<br>'Activity'<br>'Activity Expense'<br>'Activity Step'<br>'Project'<br>'Project Issue'<br>'Project Risk' | The subject area of the associated user-defined field type.                                                                  |

|  |                                                                                                                |  |
|--|----------------------------------------------------------------------------------------------------------------|--|
|  | 'Resource'<br>'Resource Assignment'<br>'WBS'<br>'Work Products and Documents'<br>'Activity Step Template Item' |  |
|--|----------------------------------------------------------------------------------------------------------------|--|

### UDFValueUpdated Message

| Field              | Type                                                                                                                                                                                                                                               | Description                                                                                                                  |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| ForeignObjectId    | int                                                                                                                                                                                                                                                | The unique ID of the business object to which the UDF is assigned: ProjectObjectId, ActivityObjectId, ResourceObjectId, etc. |
| ProjectObjectId    | int                                                                                                                                                                                                                                                | The unique ID of the associated project.                                                                                     |
| UDFCodeObjectId    | int                                                                                                                                                                                                                                                | The unique ID of the associated UDF code.                                                                                    |
| UDFTypeObjectId    | int                                                                                                                                                                                                                                                | The unique ID of the associated UDF type.                                                                                    |
| UDFTypeSubjectArea | string<br>restricted to<br>'Activity'<br>'Activity Expense'<br>'Activity Step'<br>'Project'<br>'Project Issue'<br>'Project Risk'<br>'Resource'<br>'Resource Assignment'<br>'WBS'<br>'Work Products and Documents'<br>'Activity Step Template Item' | The subject area of the associated user-defined field type..                                                                 |

|           |                                                                                                                                                 |                                                                   |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| NewValues | UDFValueType<br>Refer to the entries in the <b>UDFValueType</b> Table below.<br>Additional information can be found in the p6events.xsd schema. | The new values of Physical and writable fields that have changed. |
| OldValues | UDFValueType<br>Refer to the entries in the <b>UDFValueType</b> Table below.<br>Additional information can be found in the p6events.xsd schema. | The old values of Physical and writable fields that have changed. |

**UDFValueType Table**

| Type: UDFValueType |                                                                             |
|--------------------|-----------------------------------------------------------------------------|
| Elements           | Type                                                                        |
| Cost               | double                                                                      |
| Double             | double                                                                      |
| FinishDate         | dateTime                                                                    |
| ForeignObjectId    | int                                                                         |
| Indicator          | string<br>restricted to<br>'None'<br>'Red'<br>'Yellow'<br>'Green'<br>'Blue' |
| Integer            | int                                                                         |
| StartDate          | dateTime                                                                    |
| Text               | string                                                                      |



|                 |     |
|-----------------|-----|
| UDFCodeObjectId | int |
| UDFTypeObjectId | int |

### UserCreated Message

| Field        | Type   | Description                            |
|--------------|--------|----------------------------------------|
| Name         | string | The user's login name.                 |
| ObjectId     | int    | The unique ID generated by the system. |
| PersonalName | string | The user's personal or actual name.    |

### UserUpdated Message

| Field        | Type                                                                                                                                    | Description                                                       |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| Name         | string                                                                                                                                  | The user's login name.                                            |
| ObjectId     | int                                                                                                                                     | The unique ID generated by the system.                            |
| PersonalName | string                                                                                                                                  | The user's personal or actual name.                               |
| NewValues    | UserType<br>Refer to the entries in the <b>UserType</b> Table below.<br>Additional information can be found in the p6events.xsd schema. | The new values of Physical and writable fields that have changed. |
| OldValues    | UserType<br>Refer to the entries in the <b>UserType</b> Table below.<br>Additional information can be found in the p6events.xsd schema. | The old values of Physical and writable fields that have changed. |

### UserType Table

| Type: UserType                     |                                                           |
|------------------------------------|-----------------------------------------------------------|
| Elements                           | Type                                                      |
| AllResourceAccessFlag              | boolean                                                   |
| CurrencyObjectId                   | int                                                       |
| EmailAddress                       | string                                                    |
| EmailProtocol                      | string<br>restricted to<br>'Internet Mail'<br>'MAPI Mail' |
| EnableUserToModifyViewSettingsFlag | boolean                                                   |
| GlobalProfileObjectId              | int                                                       |
| MailServerLoginName                | string                                                    |
| Name                               | string                                                    |
| ObjectId                           | int                                                       |
| OfficePhone                        | string                                                    |
| OutgoingMailServer                 | string                                                    |
| PersonalName                       | string                                                    |
| ReportingFlag                      | boolean                                                   |
| UserInterfaceViewObjectId          | int                                                       |

### UserOBSCreated Message

| Field       | Type | Description                                                   |
|-------------|------|---------------------------------------------------------------|
| OBSObjectId | int  | The unique ID of the OBS to which the user is granted access. |

|              |     |                                                               |
|--------------|-----|---------------------------------------------------------------|
| UserObjectId | int | The unique ID of the user who is assigned to the project OBS. |
|--------------|-----|---------------------------------------------------------------|

### UserOBSUpdated Message

| Field        | Type                                                                                                                                          | Description                                                       |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| OBSObjectId  | int                                                                                                                                           | The unique ID of the OBS to which the user is granted access.     |
| UserObjectId | int                                                                                                                                           | The unique ID of the user who is assigned to the project OBS.     |
| NewValues    | UserOBSType<br>Refer to the entries in the <b>UserOBSType</b> Table below.<br>Additional information can be found in the p6events.xsd schema. | The new values of Physical and writable fields that have changed. |
| OldValues    | UserOBSType<br>Refer to the entries in the <b>UserOBSType</b> Table below.<br>Additional information can be found in the p6events.xsd schema. | The old values of Physical and writable fields that have changed. |

### UserOBSType Table

| Type: UserOBSType      |      |
|------------------------|------|
| Elements               | Type |
| OBSObjectId            | int  |
| ProjectProfileObjectId | int  |
| UserObjectId           | int  |

**WBSCreated Message**

| Field                  | Type   | Description                                                                                                                                                             |
|------------------------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Code                   | string | 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. |
| Name                   | string | The name of the WBS element.                                                                                                                                            |
| ObjectId               | int    | The unique ID generated by the system.                                                                                                                                  |
| ParentObjectId         | int    | The unique ID of the parent WBS of this WBS in the hierarchy.                                                                                                           |
| ProjectObjectId        | int    | The unique ID of the associated project.                                                                                                                                |
| StatusReviewerObjectId | int    | The unique ID generated by the system.                                                                                                                                  |

**WBSUpdated Message**

| Field                 | Type   | Description                                                                                                                                                             |
|-----------------------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Code                  | string | 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. |
| Name                  | string | The name of the WBS element.                                                                                                                                            |
| ObjectId              | int    | The unique ID generated by the system.                                                                                                                                  |
| ParentObjectId        | int    | The unique ID of the parent WBS of this WBS in the hierarchy.                                                                                                           |
| ProjectObjectId       | int    | The unique ID of the associated project.                                                                                                                                |
| StatusReviewerObjectI | int    | The unique ID generated by the                                                                                                                                          |

| Field     | Type                                                                                                                                  | Description                                                       |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| d         |                                                                                                                                       | system.                                                           |
| NewValues | WBSType<br>Refer to the entries in the <b>WBSType</b> Table below.<br>Additional information can be found in the p6events.xsd schema. | The new values of Physical and writable fields that have changed. |
| OldValues | WBSType<br>Refer to the entries in the <b>WBSType</b> Table below.<br>Additional information can be found in the p6events.xsd schema. | The old values of Physical and writable fields that have changed. |

### WBSType Table

| Type: WBSType          |                                                                                                                                                                                                         |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Elements               | Type                                                                                                                                                                                                    |
| AnticipatedFinishDate  | dateTime                                                                                                                                                                                                |
| AnticipatedStartDate   | dateTime                                                                                                                                                                                                |
| Code                   | string                                                                                                                                                                                                  |
| EarnedValueComputeType | string<br>restricted to<br>'Activity Percent Complete'<br>'0 / 100'<br>'50 / 50'<br>'Custom Percent Complete'<br>'WBS Milestones Percent Complete'<br>'Activity Percent Complete Using Resource Curves' |

|                           |                                                                                                                                               |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| EarnedValueETCComputeType | string<br>restricted to<br>'ETC = Remaining Cost for Activity'<br>'PF = 1'<br>'PF = Custom Value'<br>'PF = 1 / CPI'<br>'PF = 1 / (CPI * SPI)' |
| EarnedValueETCUserValue   | double                                                                                                                                        |
| EarnedValueUserPercent    | double                                                                                                                                        |
| IndependentETCLaborUnits  | double                                                                                                                                        |
| IndependentETCTotalCost   | double                                                                                                                                        |
| IntegratedType            | string<br>restricted to<br>'ERP'<br>'Fusion'<br>'Gateway'                                                                                     |
| IntegratedWBS             | Boolean                                                                                                                                       |
| Name                      | string                                                                                                                                        |
| OBSObjectld               | int                                                                                                                                           |
| Objectld                  | int                                                                                                                                           |
| OriginalBudget            | double                                                                                                                                        |
| ParentObjectld            | int                                                                                                                                           |
| ProjectObjectld           | int                                                                                                                                           |
| Status                    | string<br>restricted to<br>'Planned'<br>'Active'<br>'Inactive'<br>'What-If'<br>'Requested'<br>'Template'                                      |
| StatusReviewerObjectld    | int                                                                                                                                           |

|                     |     |
|---------------------|-----|
| WBSCategoryObjectId | int |
|---------------------|-----|

## Special Operation Event Message Contents

### ApplyActualsInvoked Message

| Field    | Type                                                                                       | Description                                             |
|----------|--------------------------------------------------------------------------------------------|---------------------------------------------------------|
| DataDate | dateTime                                                                                   | The DataDate field that is associated with the project. |
| Project  | ProjectIdentityType<br>Refer to the entries in the <b>ProjectIdentityType</b> Table below. | The complex element that identifies the project.        |
| Status   | JobStatusType<br>Refer to the entries in the <b>JobStatusType</b> Table below.             | Describes the state of the job after completion.        |

### ProjectIdentityType Table

| ProjectIdentityType |        |
|---------------------|--------|
| Id                  | string |
| Name                | string |
| ObjectId            | int    |

### JobStatusType Table

| JobStatusType                                      |
|----------------------------------------------------|
| string<br>restricted to<br>'Completed'<br>'Failed' |

### ContentRepositoryDocumentAdded Message

| Field            | Type   | Description                                                                |
|------------------|--------|----------------------------------------------------------------------------|
| UUID             | string | The Universal Unique Identifier of the document in the content repository. |
| UserName         | string | The user name who performed the operation.                                 |
| DocumentObjectId | int    | The object ID of the document that's involved in the operation.            |

### ContentRepositoryDocumentCheckedIn Message

| Field            | Type   | Description                                                                |
|------------------|--------|----------------------------------------------------------------------------|
| UUID             | string | The Universal Unique Identifier of the document in the content repository. |
| UserName         | string | The user name who performed the operation.                                 |
| DocumentObjectId | int    | The object ID of the document that's involved in the operation.            |

### ContentRepositoryFolderAdded Message

| Field            | Type   | Description                                                               |
|------------------|--------|---------------------------------------------------------------------------|
| UUID             | string | The Universal Unique Identifier of the document in the content repository |
| UserName         | string | The user name who performed the operation.                                |
| DocumentObjectId | int    | The object ID of the document that's involved in the operation.           |

### ConvertProjectToBaselineInvoked Message

| Field | Type | Description |
|-------|------|-------------|
|-------|------|-------------|



|                            |     |                                                                                                                    |
|----------------------------|-----|--------------------------------------------------------------------------------------------------------------------|
| NewBaselineProjectObjectId | int | The object ID of the new Baseline project (it's the same as the object ID of the project that has been converted). |
| ObjectId                   | int | The object ID of the project to which the new baseline project belongs.                                            |

### CopyBaselineInvoked Method

| Field                      | Type                                                                                   | Description                                                                                |
|----------------------------|----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| NewBaselineProjectObjectId | int                                                                                    | The project id generated for the newly created baseline.                                   |
| SourceProject              | SourceProjectType<br>Refer to the entries in the <b>SourceProjectType</b> table below. | The complex element that identifies the source project from which the baseline was copied. |
| TargetEPS                  | TargetEPSType<br>Refer to the entries in the <b>TargetEPSType</b> table below.         | The complex element that identifies the target EPS under which the baseline was copied.    |
| Status                     | JobStatusType<br>Refer to the entries in the <b>JobStatusType</b> table below.         | Describes the state of the job after completion.                                           |

### SourceProjectType Table

| SourceProjectType |          |
|-------------------|----------|
| Id                | string   |
| Name              | string   |
| ProjectObjectId   | ObjectId |

### TargetEPSType Table

| TargetEPSType   |          |
|-----------------|----------|
| Id              | string   |
| Name            | string   |
| ProjectObjectId | ObjectId |
| WBSObjectId     | ObjectId |

### JobStatusType Table

| JobStatusType                             |
|-------------------------------------------|
| string restricted to completed or failed. |

### CopyBaselineProjectInvoked Message

| Field                      | Type | Description                                                   |
|----------------------------|------|---------------------------------------------------------------|
| NewBaselineProjectObjectId | int  | The object ID of the project created by the stored procedure. |
| ObjectId                   | int  | The object ID of the parent EPS of the new project.           |
| BaselineProjectObjectId    | int  | The object ID of the project that was copied.                 |

### CopyProjectAsBaselineInvoked Message

| Field                      | Type | Description                                                   |
|----------------------------|------|---------------------------------------------------------------|
| NewBaselineProjectObjectId | int  | The object ID of the project created by the stored procedure. |
| EPSObjectId                | int  | The object ID of the parent EPS of the new project.           |
| ObjectId                   | int  | The object ID of the project that was copied.                 |

### CopyProjectInvoked Message

| Field              | Type | Description                                                   |
|--------------------|------|---------------------------------------------------------------|
| NewProjectObjectId | int  | The object ID of the project created by the stored procedure. |
| EPSObjectId        | int  | The object ID of the parent EPS of the new project.           |
| ObjectId           | int  | The object ID of the project that was copied.                 |

### CreateBaselineInvoked Message

| Field                      | Type                                                                                   | Description                                                                                |
|----------------------------|----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| NewBaselineProjectObjectId | int                                                                                    | The project id generated for the newly created baseline.                                   |
| SourceProject              | SourceProjectType<br>Refer to the entries in the <b>SourceProjectType</b> table below. | The complex element that identifies the source project for which the baseline was created. |
| TargetProject              | TargetProjectType<br>Refer to the entries in the <b>TargetProjectType</b> table below. | The complex element that identifies the target project for which the baseline was created. |
| Status                     | JobStatusType<br>Refer to the entries in the <b>JobStatusType</b> table below.         | Describes the state of the job after completion.                                           |

### SourceProjectType Table

| SourceProjectType |          |
|-------------------|----------|
| Id                | string   |
| Name              | string   |
| ProjectObjectId   | ObjectId |

### TargetProjectType Table

| TargetProjectType |          |
|-------------------|----------|
| Id                | string   |
| Name              | string   |
| ProjectObjectId   | ObjectId |
| WBSObjectId       | ObjectId |

### JobStatusType Table

| JobStatusType                             |
|-------------------------------------------|
| string restricted to completed or failed. |

### CreateCopyAsTemplateInvoked Message

| Field | Type | Description |
|-------|------|-------------|
|-------|------|-------------|

|                            |     |                                                                                 |
|----------------------------|-----|---------------------------------------------------------------------------------|
| NewTemplateProjectObjectId | int | The object ID of the template project that was created by the stored procedure. |
| EPSObjectId                | int | The object ID of the parent EPS of the new template project                     |
| ObjectId                   | int | The object ID of the project or template project that was copied.               |

#### CreateProjectFromTemplateInvoked Message

| Field              | Type | Description                                                   |
|--------------------|------|---------------------------------------------------------------|
| NewProjectObjectId | int  | The object ID of the project created by the stored procedure. |
| EPSObjectId        | int  | The unique ID of the associated EPS.                          |
| ObjectId           | int  | The unique ID generated by the system.                        |

#### CreateTemplatefromProjectInvoked Message

| Field                      | Type | Description                                                    |
|----------------------------|------|----------------------------------------------------------------|
| NewTemplateProjectObjectId | int  | The project id generated for the newly created template.       |
| EPSObjectId                | int  | The unique id of the EPS under which the template was created. |
| ObjectId                   | int  | The unique id generated for the newly created template.        |

#### ExportInvoked Message

| Field | Type | Description |
|-------|------|-------------|
|-------|------|-------------|

|                     |                                                                      |                                                                |
|---------------------|----------------------------------------------------------------------|----------------------------------------------------------------|
| ProjectObjectI<br>d | int                                                                  | The object ID of the project exported by the stored procedure. |
| ExportedAs          | String<br>Refer to the entries in the <b>ExportedAs</b> Table below. | The export type of the project.                                |
| Success             | Boolean.                                                             | Export Status (1 = success, 0 = failure)                       |

#### ExportedAs Table

| ExportedAs                                      |
|-------------------------------------------------|
| string<br>restricted to<br>'MSP'<br>'Primavera' |

#### GlobalSearchandReplaceInvoked Message

| Field  | Type                                                             | Description                                                              |
|--------|------------------------------------------------------------------|--------------------------------------------------------------------------|
| UserId | int                                                              | The object ID of the user who invoked the Global Search and Replace Job. |
| Status | String<br>Refer to the entries in the <b>Status</b> Table below. | The status of the job.                                                   |

#### Status Table

| Status                                                                      |
|-----------------------------------------------------------------------------|
| string<br>restricted to<br>'Completed'<br>'Failed'<br>'COMPLETEDWITHERRORS' |

**ImportInvoked Message**

| Field           | Type    | Description                                                                        |
|-----------------|---------|------------------------------------------------------------------------------------|
| ImportFile      | String  | The name of the file which is imported.                                            |
| EPSObjectId     | int     | The object ID of the EPS in which the project is imported by the stored procedure. |
| ProjectObjectId | int     | The object ID of the project imported by the stored procedure.                     |
| Success         | Boolean | Export Status (1 = success, 0 = failure)                                           |

**LevelInvoked Message**

| Field   | Type                                                                                       | Description                                      |
|---------|--------------------------------------------------------------------------------------------|--------------------------------------------------|
| Project | ProjectIdentityType<br>Refer to the entries in the <b>ProjectIdentityType</b> Table below. | The complex element that identifies the project. |
| Status  | JobStatusType<br>Refer to the entries in the <b>JobStatus</b> Type Table below.            | Describes the state of the job after completion. |

**ProjectIdentityType Table**

| ProjectIdentityType |        |
|---------------------|--------|
| Id                  | string |
| Name                | string |
| ObjectId            | int    |

### JobStatusType Table

| JobStatusType                                      |
|----------------------------------------------------|
| string<br>restricted to<br>'Completed'<br>'Failed' |

### PublishAuditdataInvoked Message

| Field  | Type                                                             | Description                             |
|--------|------------------------------------------------------------------|-----------------------------------------|
| Status | String<br>Refer to the entries in the <b>Status</b> Table below. | The status of the publishing audit job. |

### Status Table

| Status                                                                      |
|-----------------------------------------------------------------------------|
| string<br>restricted to<br>'Completed'<br>'Failed'<br>'COMPLETEDWITHERRORS' |

### PublishEnterpriseDataInvoked Message

| Field       | Type                                                                           | Description                                      |
|-------------|--------------------------------------------------------------------------------|--------------------------------------------------|
| CompletedOn | dateTime                                                                       | The date and time at which publishing completed. |
| Status      | JobStatusType<br>Refer to the entries in the <b>JobStatusType</b> Table below. | Describes the state of the job after completion. |



**JobStatusType Table**

| JobStatusType                                      |
|----------------------------------------------------|
| string<br>restricted to<br>'Completed'<br>'Failed' |

**PublishEnterpriseSummariesInvoked Message**

| Field       | Type                                                                           | Description                                      |
|-------------|--------------------------------------------------------------------------------|--------------------------------------------------|
| CompletedOn | dateTime                                                                       | The date and time at which publishing completed. |
| Status      | JobStatusType<br>Refer to the entries in the <b>JobStatusType</b> Table below. | Describes the state of the job after completion. |

**JobStatusType Table**

| JobStatusType                                      |
|----------------------------------------------------|
| string<br>restricted to<br>'Completed'<br>'Failed' |

**PublishProjectInvoked Message**

| Field       | Type                                                                                       | Description                                      |
|-------------|--------------------------------------------------------------------------------------------|--------------------------------------------------|
| CompletedOn | dateTime                                                                                   | The date and time at which publishing completed. |
| Project     | ProjectIdentityType<br>Refer to the entries in the <b>ProjectIdentityType</b> Table below. | The complex element that identifies the project. |

|        |                                                                                       |                                                  |
|--------|---------------------------------------------------------------------------------------|--------------------------------------------------|
| Status | <b>JobStatusType</b><br>Refer to the entries in the <b>JobStatusType</b> Table below. | Describes the state of the job after completion. |
|--------|---------------------------------------------------------------------------------------|--------------------------------------------------|

### ProjectIdentityType Table

| ProjectIdentityType |        |
|---------------------|--------|
| Id                  | string |
| Name                | string |
| ObjectId            | int    |

### JobStatusType Table

| JobStatusType                                      |
|----------------------------------------------------|
| string<br>restricted to<br>'Completed'<br>'Failed' |

### PublishResourceManagementInvoked Message

| Field       | Type                                                                                  | Description                                      |
|-------------|---------------------------------------------------------------------------------------|--------------------------------------------------|
| CompletedOn | dateTime                                                                              | The date and time at which publishing completed. |
| Status      | <b>JobStatusType</b><br>Refer to the entries in the <b>JobStatusType</b> Table below. | Describes the state of the job after completion. |

### JobStatusType Table

| JobStatusType |
|---------------|
|---------------|

string  
restricted to  
'Completed'  
'Failed'

### **PublishResourceRoleAssignmentSpreadInvoked Message**

| Field       | Type                                                     | Description                                      |
|-------------|----------------------------------------------------------|--------------------------------------------------|
| CompletedOn | dateTime                                                 | The date and time at which publishing completed. |
| Project     | ProjectType<br>Refer to the ProjectType table below.     | The complex element that identifies the project. |
| Status      | JobStatusType<br>Refer to the JobStatusType table below. | Describes the state of the job after completion. |

### **ProjectType Table**

| ProjectType |        |
|-------------|--------|
| Id          | string |
| Name        | string |
| ObjectId    | int    |

### **JobStatusType Table**

| JobStatusType                             |
|-------------------------------------------|
| string restricted to completed or failed. |

### PublishSecurityInvoked Message

| Field       | Type                                                                           | Description                                      |
|-------------|--------------------------------------------------------------------------------|--------------------------------------------------|
| CompletedOn | dateTime                                                                       | The date and time at which publishing completed. |
| Status      | JobStatusType<br>Refer to the entries in the <b>JobStatusType</b> Table below. | Describes the state of the job after completion. |

### JobStatusType Table

| JobStatusType                                      |
|----------------------------------------------------|
| string<br>restricted to<br>'Completed'<br>'Failed' |

### RecalculateAssignmentCostsInvoked Message

| Field        | Type                                                                                       | Description                                      |
|--------------|--------------------------------------------------------------------------------------------|--------------------------------------------------|
| Project      | ProjectIdentityType<br>Refer to the entries in the <b>ProjectIdentityType</b> Table below. | The complex element that identifies the project. |
| SyncOTFactor | boolean                                                                                    | The flag to synchronize the overtime factor.     |
| Status       | JobStatusType<br>Refer to the entries in the <b>JobStatusType</b> Table below.             | The state of the job after completion.           |

### ProjectIdentityType Table

| ProjectIdentityType |        |
|---------------------|--------|
| Id                  | string |

|          |        |
|----------|--------|
| Name     | string |
| ObjectId | int    |

### JobStatusType Table

| JobStatusType                                      |
|----------------------------------------------------|
| string<br>restricted to<br>'Completed'<br>'Failed' |

### RestoreBaselineProjectInvoked Message

| Field    | Type | Description                                                                                                 |
|----------|------|-------------------------------------------------------------------------------------------------------------|
| ObjectId | int  | The object id of the baseline project, which is the same as the object id of the project after the restore. |

### ScheduleInvoked Message

| Field    | Type                                                                                       | Description                                             |
|----------|--------------------------------------------------------------------------------------------|---------------------------------------------------------|
| DataDate | dateTime                                                                                   | The DataDate field that is associated with the project. |
| Project  | ProjectIdentityType<br>Refer to the entries in the <b>ProjectIdentityType</b> Table below. | The complex element that identifies the project.        |
| Status   | JobStatusType<br>Refer to the entries in the <b>JobStatusType</b> Table below.             | Describes the state of the job after completion.        |

**ProjectIdentityType Table**

| ProjectIdentityType |        |
|---------------------|--------|
| Id                  | string |
| Name                | string |
| ObjectId            | int    |

**JobStatusType Table**

| JobStatusType                                      |
|----------------------------------------------------|
| string<br>restricted to<br>'Completed'<br>'Failed' |

**StorePeriodPerformanceInvoked Message**

| Field           | Type                                                                                                       | Description                                              |
|-----------------|------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|
| FinancialPeriod | FinancialPeriodIdentityType<br>Refer to the entries in the <b>FinancialPeriodIdentityType</b> Table below. | The complex element that identifies the FinancialPeriod. |
| Project         | ProjectIdentityType<br>Refer to the entries in the <b>ProjectIdentityType</b> Table below.                 | The complex element that identifies the project.         |
| Status          | JobStatusType<br>Refer to the entries in the <b>JobStatusType</b> Table below.                             | Describes the state of the job after completion.         |

**FinancialPeriodIdentityType Table**

| FinancialPeriodIdentityType |
|-----------------------------|
|-----------------------------|

|           |          |
|-----------|----------|
| EndDate   | dateTime |
| Name      | string   |
| ObjectId  | int      |
| StartDate | dateTime |

### ProjectIdentityType Table

| ProjectIdentityType |        |
|---------------------|--------|
| Id                  | string |
| Name                | string |
| ObjectId            | int    |

### JobStatusType Table

| JobStatusType                                      |  |
|----------------------------------------------------|--|
| string<br>restricted to<br>'Completed'<br>'Failed' |  |

### SummarizeInvoked Message

| Field   | Type                                                                                       | Description                                      |
|---------|--------------------------------------------------------------------------------------------|--------------------------------------------------|
| Project | ProjectIdentityType<br>Refer to the entries in the <b>ProjectIdentityType</b> Table below. | The complex element that identifies the project. |
| Status  | JobStatusType<br>Refer to the entries in the <b>JobStatusType</b> Table below.             | Describes the state of the job after completion. |

### ProjectIdentityType Table

| ProjectIdentityType |        |
|---------------------|--------|
| Id                  | string |
| Name                | string |
| ObjectId            | int    |

### JobStatusType Table

| JobStatusType                                      |
|----------------------------------------------------|
| string<br>restricted to<br>'Completed'<br>'Failed' |

### UpdatebaselineInvoked Message

| Field          | Type                                                                    | Description                                                            |
|----------------|-------------------------------------------------------------------------|------------------------------------------------------------------------|
| BaselineProjId | int                                                                     | The object ID of the baseline project created by the stored procedure. |
| ParentProjId   | int                                                                     | The object ID of the parent project created by the stored procedure.   |
| Status         | String<br>Refer to the entries in the <b>JobStatusType</b> Table below. | The status of the Update Baseline job.                                 |

### Status Table

| Status |
|--------|
|--------|



string  
restricted to  
'Completed'  
'Failed'  
'COMPLETEDWITHERRORS'

### XERImportInvoked Message

| Field                 | Type    | Description                                                                                                                                                                                                                                                                                                                                   |
|-----------------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ImportFile            | string  | The file name of the XER file imported.                                                                                                                                                                                                                                                                                                       |
| CreateNewProject      |         | This complex element is included in the message if created new project has been specified for the XER import. It contains the EPSObjectld (the EPS where the project is imported to) and the ProjectObjectld (the object ID of the project created by the import). This element is mutually exclusive with the UpdateExistingProject element. |
| UpdateExistingProject |         | UpdateExistingProject: This complex element is included in the message if update existing project has been specified for the XER import. It contains the ProjectObjectld which is the object ID of the project that has been updated.                                                                                                         |
| Success               | boolean | The boolean that indicates if the import is successful or failed.                                                                                                                                                                                                                                                                             |
| ErrorMessage          | string  | Contains the exception message if the import fails.                                                                                                                                                                                                                                                                                           |

### XMLImportInvoked Message

| Field            | Type   | Description                                                                                                                                                                                  |
|------------------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ImportFile       | string | The file name of the XML file imported.                                                                                                                                                      |
| CreateNewProject |        | This complex element is included in the message if created new project has been specified for the XML import. It contains the EPSObjectld (the EPS where the project is imported to) and the |

|                       |         |                                                                                                                                                                                                                                       |
|-----------------------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                       |         | ProjectObjectId (the object ID of the project created by the import). This element is mutually exclusive with the UpdateExistingProject element.                                                                                      |
| UpdateExistingProject |         | UpdateExistingProject: This complex element is included in the message if update existing project has been specified for the XML import. It contains the ProjectObjectId which is the object ID of the project that has been updated. |
| Success               | boolean | The boolean that indicates if the import is successful or failed.                                                                                                                                                                     |
| ErrorMessage          | string  | Contains the exception message if the import fails.                                                                                                                                                                                   |