Oracle® Project Procurement Command Center Plus

Process Guide

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Oracle Project Procurement Command Center Plus Process Guide, Release 12.2

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Preface

Intended Audience

Welcome to Release 12.2 of the *Oracle Project Procurement Command Center Plus Process Guide.*

Implementers, administrators, users

See Related Information Sources on page viii for more Oracle E-Business Suite product information.

Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc.

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Structure

1 Overview of Oracle Project Procurement Command Center Plus

The chapter discusses the functional advantages of Oracle Project Procurement Command Center Plus and the business entities that enable project managers and project buyers to collaborate plan and process procurement actions.

2 Implementing Oracle Project Procurement Command Center Plus

The chapter discusses the prerequisite products and the post-installation setup required to use Oracle Project Procurement Command Center Plus.

3 Planning Procurement: Project Manager Actions

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5 Analyzing Items and Suppliers

The chapter describes the Item and Supplier Analysis pages and highlights the decisions that project managers and buyers can make using these pages.

6 Monitoring Procurement Execution

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A Using Interface Tables

B Using Spreadsheets to Create and Update Procurement Plans

Related Information Sources

Oracle E-Business Suite User's Guide

This guide explains how to navigate, enter and query data, and run concurrent requests using the user interface (UI) of Oracle E-Business Suite. It includes information on setting preferences and customizing the UI. In addition, this guide describes accessibility features and keyboard shortcuts for Oracle E-Business Suite.

Other related guides:

Oracle Purchasing User's Guide

Oracle iSupplier Portal User's Guide

Oracle iSupplier Portal Implementation Guide

Oracle iProcurement User Guide

Oracle iProcurement Implementation Guide

Integration Repository

The Oracle Integration Repository is a compilation of information about the service endpoints exposed by the Oracle E-Business Suite of applications. It provides a complete catalog of Oracle E-Business Suite's business service interfaces. The tool lets users easily discover and deploy the appropriate business service interface for integration with any system, application, or business partner.

The Oracle Integration Repository is shipped as part of the Oracle E-Business Suite. As your instance is patched, the repository is automatically updated with content appropriate for the precise revisions of interfaces in your environment.

Do Not Use Database Tools to Modify Oracle E-Business Suite Data

Oracle STRONGLY RECOMMENDS that you never use SQL*Plus, Oracle Data Browser, database triggers, or any other tool to modify Oracle E-Business Suite data unless otherwise instructed.

Oracle provides powerful tools you can use to create, store, change, retrieve, and maintain information in an Oracle database. But if you use Oracle tools such as SQL*Plus to modify Oracle E-Business Suite data, you risk destroying the integrity of your data and you lose the ability to audit changes to your data.

Because Oracle E-Business Suite tables are interrelated, any change you make using an Oracle E-Business Suite form can update many tables at once. But when you modify Oracle E-Business Suite data using anything other than Oracle E-Business Suite, you may change a row in one table without making corresponding changes in related tables. If your tables get out of synchronization with each other, you risk retrieving erroneous information and you risk unpredictable results throughout Oracle E-Business Suite.

When you use Oracle E-Business Suite to modify your data, Oracle E-Business Suite automatically checks that your changes are valid. Oracle E-Business Suite also keeps track of who changes information. If you enter information into database tables using database tools, you may store invalid information. You also lose the ability to track who has changed your information because SQL*Plus and other database tools do not keep a record of changes.

1

Overview of Oracle Project Procurement Command Center Plus

The chapter discusses the functional advantages of Oracle Project Procurement Command Center Plus and the business entities that enable project managers and project buyers to collaborate plan and process procurement actions.

This chapter covers the following topics:

- Overview
- Typical Users of Oracle Project Procurement Command Center Plus
- Business Actions
- Business Entities

Overview

Oracle Project Procurement Command Center Plus enables your project teams to establish and measure strategic project objectives and drive project procurement planning, decision-making, and execution throughout the lifecycle of the project. This product provides an integrated platform for project managers and project buyers to create, view, and update procurement plans so they have the information they need to make planning decisions without the need to alert, notify, or engage in unproductive communication to execute the plan. It breaks traditional functional silos and communication gaps between project management and procurement by ensuring your project teams are on the same page at all times in the lifecycle of the project.

Oracle Project Procurement Command Center Plus provides the ability to share information about the project needs and requirements with the buyer and information about procurement status with the project manager. The product brings together project and procurement information that is critical to aligning strategy with planning and execution. Project teams can establish strategic objectives, drive down-stream decision making through these objectives, and measure compliance with these objectives throughout the lifecycle of the project.

Based on the power of Oracle Information Discovery, Oracle Project Procurement Command Center Plus provides interactive, information-based tools that enable the project and procurement team to see and act on the same information. Procurement plans help in planning for goods and services lines. If the plan is for material or simple services, you can plan for the deliveries of these items or services over the project duration. If the plan is for complex service lines, you can plan for progress payments for the services rendered over a period of time within the project duration. The progress can be tracked as a milestone or a lumpsum based payment or can be released based on the amount of work being performed. The information discovery tools allow the teams to gain insight for decision-making by transforming information through filters or selecting dimensions that can aggregate, isolate, or correlate information from traditionally disconnected sources based on common and objective criteria. Out-of-the-box charts, graphs, and metrics provide critical, timely information that help project teams to work collaboratively and coordinate execution of the project procurement plan.

Using Oracle Project Procurement Command Center Plus, you can:

- Reduce planning time - Successful project execution is a direct result of systematic planning. Oracle Project Procurement Command Center Plus introduces an entity called Procurement Plan to offer a collaborative procurement planning platform for project managers and project buyers. While the project manager works with the design team in identifying detailed procurement needs, the project buyer can establish supply sources to meet the procurement needs. This collaborative platform reduces the number of planning iterations, and makes each iteration faster, thus reducing the planning time.

- Integrate execution based on a plan aligned to key objectives - The project teams can use the integrated project-based supply chain execution that reduces wastage and aligns delivery to key project and organizational objectives.

- Oracle Project Procurement Command Center Plus works based upon information in Oracle Project Management Planning and Control, and Oracle Purchasing and other related Oracle EBusiness Suite applications. Leverage investments in these applications projects and procurement to enable best in class project procurement processes. The information and processes supported by both these applications along with the procurement plan in Oracle Project Procurement Command Center Plus and the Oracle Information Discovery interface, equip you with tools to implement a procurement planning and execution process that is a competitive advantage in managing projects.

You can leverage benefits such as:

- Increase the chance of project success and prevent risks due to activities associated to project related purchased acquisitions.

- Increase the quality of project deliverables by ensuring the right items are ordered, services are procured or subcontracts arranged with the best suppliers that meet your project or organization objectives.

- Improve productivity of project managers and project buyers by providing a access to information that eliminates the need for off-line communication about procurement plans and status of orders and deliveries.

- Reduce wastage and improve profitability by insuring coordinated execution of orders and deliveries of materials and services needed to complete project tasks on-time.

- Leverage the technology of the Information Discovery platform to improve decision-making insight for project managers and buyers.

Typical Users of Oracle Project Procurement Command Center Plus

Oracle Project Procurement Command Center Plus empowers organizations managing large, complex, and procurement-intensive projects to make more effective decisions and eliminate wastage caused due to inefficiency in the procurement lifecycle. Project-based industries with a large percentage of revenue spent on procured materials and services, such as Engineering and Construction, Oil and Gas, and Aerospace and Defense benefit the most from the product's capabilities.

Business Actions

Oracle Project Procurement Command Center Plus can help project managers and project buyers complete the following business actions:

- Collaborate effectively on project supply chain decisions through the project lifecycle.

- Create and manage procurement plans that meet their project's acquisition strategy.

- Plan projects faster by managing procurement plan lines to update statuses, planned items or subcontracts, services, or associate approved sources of supply.

- Execute supply chain activities effectively using the project manager or project buyer command centers to view project, task, or procurement transactions statuses.

- Act quickly on procurement plans by initiating requisitions or supplier negotiations.

- Analyze and negotiate service level agreements and pricing to optimize costs.

- Collaborate effectively with approved suppliers.

- Empower decision-making using the Item and Supplier Analysis pages to select the best products, services, and suppliers.

- Discover project risks before they happen by leveraging the power of Oracle Information Discovery.

Project team members can collaborate when planning and acting on procurement activities for a project. They can:

- View common information and statuses about the project procurement plan and the project.
- View information about negotiations, agreements, orders, and other important transactions and documents needed to fulfill the project procurement plan.
- View information about suppliers and items, or services or contracts necessary to decide on purchases for a project.
- View and act on project procurement decisions without having to send notifications or rely on workflows.
- Access information that provides appropriate insights when making decisions about an action required on a project procurement plan.
- View metrics that indicate if previous decisions are providing the required results so that team member decisions are aligned with the procurement strategy for the project.

Business Entities

Oracle Project Procurement Command Center Plus provides the following business entities that enable project managers and project buyers to collaboratively plan and process procurement actions:

Procurement Plan Dashboard

This dashboard enables project managers to:

- Create and manage project procurement plans, which list all items and services needed for the project along with the estimated timeframe by when it is needed for the project along with payment schedule for procuring complex services.
- Initiate requisitions using a shopping cart experience.
- Update procurement plan lines or statuses to improve collaboration with project buyers.
- Update project or task information and schedules.

- View project schedules, budgets, and forecasts.
- Compile and act on key project measures affected by the procurement plan status.

The project manager command center provides information to the project manager for managing the project supply chain and is based on the project procurement plan. It consists of an overview page that is organized around the following key activities:

- Exceptions – Alerts guide the project manager to critical actions needed to address project risks.
- Workload Balance – Graphs, charts, metrics, and tables help the project manager know what work or decisions are the most important to address.
- Metrics – Graphs, charts, metrics, and tables help the project manager understand the overall health of the project's budget, schedule, and quality with regards to the status of the project and the procurement plan and services. .

For further information, see: Overview of Project Manager Actions, page 3-1.

Project Buyer Command Center

This command center enables project buyers to:

- Collaborate with project managers during the project lifecycle.
- View and manage procurement plans and update line status.
- Initiate negotiations using document builder.
- Manage and complete negotiations.
- Manage revisions to plan lines, and decide how the revisions will affect downstream procurement documents.

The project buyer command center provides information to the project buyer for managing the project supply chain and is based on the project procurement plan. The page is organized around the following key activities:

- Exceptions – Alerts guide the project buyer to critical actions that need to be taken to address risks to the project procurement plan or schedule.
- Workload Balance – Graphs, charts, metrics, and tables help the project buyer know what work or decisions are the most important to address.
- Metrics – Graphs, charts, metrics, and tables help the project buyer understand the overall status of the procurement plan for the projects they are responsible for.

For further information, see: Overview of Project Buyer Actions, page 4-1.

Item Analysis

The Item Analysis page enables project managers and project buyers to select the products and services that best suit the needs and objectives of the project. Using this page, project managers and project buyers can research information about items and services procured for projects. This additional information empowers the project managers and project buyers to analyze the items and services assigned to procurement plan line and make project decisions beneficial to their organizations and the needs of their project customers.

For further information, see: Analyzing Items, page 5-1

Supplier Analysis

The Supplier Analysis page enables project managers and project buyers to select the best suppliers. This page provides additional information to the project managers and project buyers when they need to analyze information about the suppliers who can fulfill orders for a procurement plan line. Using this page, the project team can review, compare supplier performance history, and select suppliers easily.

For further information, see: Analyzing Suppliers, page 5-9

2

Implementing Oracle Project Procurement Command Center Plus

The chapter discusses the prerequisite products and the post-installation setup required to use Oracle Project Procurement Command Center Plus.

This chapter covers the following topics:

Prerequisites

To use Oracle Project Procurement Command Center Plus, you must have the following:

- Release 12.2.3 or above of Oracle E-Business Suite
- License for Oracle EBS Project Management
- License for Oracle EBS Purchasing

Additionally, as Oracle Project Procurement Command Center Plus interacts with the following products, licensing and implementing these products is optional, but use of these products would enable a more complete experience and the optimal business information:

- Oracle iProcurement – Provides the ability to create requisitions from the command center.
- Oracle Sourcing – Provides the ability to create and manage supplier negotiations.
- Oracle Services Procurement - Provides the ability to manage procurement of complex services with negotiated payment schedule
- Oracle Supplier Lifecycle Management and Oracle Supplier Hub – Provides the ability to search suppliers using additional information, such as user-defined attributes (UDAs).
- Oracle Inventory – Provides the ability to search and track inventory items.
- Oracle Payables – Provides the ability to view invoice and payment information.

Setting Up Oracle Project Procurement Command Center Plus

Prior to performing Oracle Project Procurement Command Center Plus setup steps, you must ensure that the following are completed:

1. Installing Oracle E-Business Suite Information Discovery, Release 12.2 V6 (Doc ID 1970071.1).
2. Download and install patch 22187133:R12.PRC_PF.C, see patch readme.

Complete the following post-installation steps:

Required Steps

> **Note:** Following these installation and configuration steps does not ensure you have Project Procurement up and running within your organization. Deployment of this application goes above and beyond installation and configuration steps. It involves bringing about process changes within your organization around how the project-management team, the engineering team and the procurement team interact with each other during the planning and execution of the project. The team adopting project procurement will need to understand the value this application is trying to drive, and will need to enable this feature at the template and / or project level.

1. Set up the following profile options for Oracle Project Procurement Command Center Plus:
   - PO: Item and Supplier Analysis Data-load Cut-off – Set an applicable date based on how much data you want to use when evaluating items or services

and suppliers. This profile value determines the historical procurement documents, such as requisitions, purchase orders, agreements, and negotiations that are loaded into the data set that supports the Supplier and Item Analysis pages. The application does not load any data beyond this cut-off and compares this date with the creation date of the document header to determine the document information to load. You must set the value in the canonical date format (example: 2010/01/01).

> **Note:** If you choose a date that is too far in the past, then the amount of data to be loaded increases, resulting in longer full-load and incremental-load times, and more memory resources demanded by the Information Discovery server. If you select too recent a date, then the insights might not be extensive or accurate.

- PO: GL Calendar for Project Procurement – This profile option is set at the site level. Use the profile option to define a combination of Calendar and **Period Type** that is used to identify the period name for each requirement, and to bucket requirements by period names in the **Schedule Summary** tab of the dashboard, when the po-proc full load is run.

  If a project-level bucketing calendar is not defined, the value entered in this profile option determines the bucketing type used in the **Project Manager** view. Please note that the project-level bucketing setup does not apply to the **Project Buyer** dashboard which always uses the site-level profile option.

  Refer to the optional setup steps in the following paragraphs to view the setup for calendar name and period type.

  For more information on setting up GL Calendars, refer to *MyOracle Support* Note: 130539.1 (General Ledger Calendar Setup, Usage and Troubleshooting).

2. Set up access privileges for project manager and project buyer users as follows:

   - For project manager users, set up the following for the Projects Super User responsibility:

     - Role Name - UMX|PA_PSC_ENDECA_ACCESS_ROLE

     - Grant Name - PA_PSC_ENDECA_ACCESS_GRANT

     - Permission Set Name - PA Project Procurement Endeca Access Permission Set

   - For project buyer users, set up the following for the Project Procurement (Buyer) responsibility:

- Role Name - UMX|PO_PSC_ENDECA_ACCESS_ROLE
- Grant Name - PO_PSC_ENDECA_ACCESS_GRANT
- Permission Set Name - Purchasing Project Procurement Buyer Permission Set

See: Oracle E-Business Suite Security Guide and the 'steps to add product-specific roles to responsibilities to provide user access to Endeca-related pages and components in Oracle E-Business Suite' section in My Oracle Support note 1497685.1

3. Enable procurement planning on project templates that you intend to use for creating projects that you will enable for Oracle Project Procurement Command Center Plus. Use the Project Template Setup page. See: Specifying Project and Task Options for a Template, Oracle Projects Fundamentals Guide. The option value defaults to new projects created from templates with procurement planning enabled.

4. Select a financial plan type for procurement reporting that the application uses to compare actual results to planned values. You can select a predefined financial plan type or a user-defined financial plan type. To create your own financial plan type, see Financial Plan Types and Defining Financial Plan Type, *Oracle Projects Implementation Guide*.

   Note: Only a forecast financial plan that is set up as cost and revenue planned together is eligible for selection.

5. Enable a project for procurement planning. If the option value is not defaulted from a template, then you can update the project setup option to enable procurement planning for a project after it is created. You can only upload procurement plans or view projects in the Oracle Project Procurement Command Center Plus pages that have been enabled in the project setup. Project managers can access the Setup page using the following navigation: Projects: Delivery > Search Projects > Advanced Search > Search results > Project Name link > Procurement tab > Setup sub tab

   Note: Only projects that have shared structure are eligible for procurement planning.

6. Optional step: Define the calendar name and the period type. These values are defaulted from the profile option, but can be modified if the user requires different values.

7. Run Full Load Graph. See: Running the Full Load Graph, page 2-5

8. Set up the scheduler for incremental refresh. See: Setting up the Scheduler for Incremental Refresh, page 2-6

Optional Steps

1. You can use the predefined expenditure types or define applicable expenditure types to specify in the procurement plan. See: Expenditure Types and Defining Expenditure Types, *Oracle Projects Implementation Guide*.

2. You can use the predefined values in the PA_PSC_SUPP_SELECTION lookup to select applicable values for the Priority 1 and Priority 2 columns of the PO_PROC_PLAN_LINE_INTERFACE table. Else, you can set up applicable values for the user extensible PA_PSC_SUPP_SELECTION lookup to specify priority 1 and priority 2 values. See: Application Utilities Lookups and Oracle Application Object Library Lookups, *Oracle E-Business Suite Developer's Guide*

3. Enable touch-less processing for purchase requisitions created from the Oracle Project Procurement Command Center Plus by setting up automatic sourcing. See: Setting up Automatic Sourcing, *Oracle Purchasing User's Guide*.

4. Configure filtering components. See: Filtering Components in Oracle Information Discovery, *Oracle E-Business Suite Information Discovery Plus Integration and System Administration Guide.*

5. Update the White List that appears in the Tag Cloud of the Item Analysis page. Access the TagList.xlsx in Item sandbox (poprocitemetl.zip -> data-in folder) when you run the full load graph and update the excel sheet as per your requirements.

6. Descriptive Flexfields (DFF): Use the Plan Line DFF and the Period DFF to capture additional attributes on the procurement plan. For more information on configuring DFFs, see: *Oracle E-Business Suite Flexfields Guide.*

Running the Full Load Graph

Once you have run the full load graph in accordance with the *Installing Oracle E-Business Suite Information Discovery, Release 12.2 V6* document (Doc ID: 1970071.1), attribute configuration is loaded for all seeded attributes. Additionally, you need to run the following full data loads as follows:

To run a full Endeca Refresh on the Integrator Server:

1. Login to Integrator server using your Clover login.

2. Click the Scheduling tab.

3. Select the New Schedule link.

4. Enter a Description for the scheduler, for example, Projects Full Load Scheduler.

5. Select Periodic as the Type.

6. Select by interval as the Periodicity.

7. Enter a start date and time in the Not active before date/time field.

8. Enter an end date and time in the Not active after date/time field.

9. Enter a value in the Interval (minutes) field.

10. Ensure you select the Fire misfired event as soon as possible check box.

11. Select Execute graph from the Task Type list.

12. Select po-proc, po-proc-item and po-proc-sup from the Sandbox list one after another. Ensure to run the full load gragh for each of these sandboxes.

13. Select as follows from the graph list:

    - po-proc (FullLoadConfig.grf) when you select po-proc sandbox

    - po-proc-item(Full.grf) when you select po-proc-item sandbox

    - po-proc-sup(Full.grf) when you select po-proc-supp sandbox

14. Click Create to set the scheduler.

Setting Up the Scheduler for Incremental Refresh

Once the Full graph is run in accordance with the *Installing Oracle E-Business Suite Information Discovery, Release 12.2 V6* document (Doc ID: 1970071.1), initial data load for Oracle Project Procurement Command Center Plus is complete. For incremental refresh, you must determine how often the Information Discovery data should be refreshed from EBS depending upon your organizational requirements. Oracle recommends that you keep this near real time. As the data is updated in the EBS, you need to ensure it is updated in the Endeca MDEX server. You set up the Scheduler to load incremental graphs depending on the volume of information requiring update.

To set up the scheduler:

1. Login to Integrator server using your Clover login.

2. Click the Scheduling tab.

3. Select the New Schedule link.

4. Enter a Description for the scheduler, for example, Projects Full Load Scheduler.
5. Select Periodic as the Type.
6. Select by interval as the Periodicity.
7. Enter a start date and time in the Not active before date/time field.
8. Enter an end date and time in the Not active after date/time field.
9. Enter a value in the Interval (minutes) field.
10. Ensure you select the Fire misfired event as soon as possible check box.
11. Select Start a graph from the Task Type list.
12. Select po-proc, po-proc-item, and po-proc-sup from the Sandbox list one after another. Ensure to run the full load graph for each of these sandboxes.
13. Select as follows from the graph list:
    - po-proc(IncrementalLoadConfig.grf) when you select po-proc sandbox
    - po-proc-item(Incremental.grf) when you select po-proc-item sandbox
    - po-proc-sup(Incremental.grf) when you select po-proc-sup sandbox
14. Click Create to set the scheduler.

Running the Targeted Incremental Load Graph

The Targeted Incremental Load graph is run for the following actions:

Actions by the Project Manager

- Make Lines Ready for Planning - targeted for status on plan lines that were updated by this action

Actions by the Buyer

- Update Procurement Plan - targeted for status and buyer on plan lines that were updated by this action
- Create Sources of Supply - targeted for sources-of-supply records
- Implement Changes action from the dashboard, and from the view change history page - targeted for status and other columns on the plan line and schedule

- Update Sources of Supply - targeted for sources-of-supply records that were updated

The Targeted Incremental Load Graph performs updates and inserts for only part of that data that the Incremental Load Graph updates.

The targeted incremental load is incompatible with the regular incremental load - this is because Oracle Information Discovery can process only one incremental load at a time. The Targeted Incremental load graph usually completes within a minute.

Views and Joins to Load Command Center, Item Analysis, and Supplier Analysis Data

The following views are used by the ETL layer in Information Discovery to load and display command center, item analysis, and supplier analysis data to the Information Discovery data store:

- PO_ENDECA_BWC_PROCPLAN_V – View to extract procurement plan and related document data for full load graph – po-proc
- PO_ENDECA_BWC_PROCPLAN_INC_V - View to extract procurement plan and related document data for incremental graph –po-proc
- PO_ENDECA_BWC_PROC_VERSION_V – View to extract data for the revision data of the procurement plan lines for full and incremental load – po-proc
- PO_ENDECA_ITEMS_PROCUREMENT_V - View to extract item and service related data for system items for full load graph - po-proc-item
- PO_ENDECA_ITEMS_PROC_INC_V - View to extract item View to extract item and service related data for system items for incremental graph - po-proc-item
- PO_ENDECA_ITEMS_ASL_INC_V – View to extract data for approved supplier lists for incremental graph - po-proc-item
- PO_ENDECA_ITEMS_QTY_INC_V - View to extract data for quantity available data for incremental graph- po-proc-item
- PO_ENDECA_SUPPLIER_ANALYSIS_V - View to extract data for supplier data for full load graph- po-proc-sup
- PO_ENDECA_UDA_ATTRS_V - - View to extract data for supplier user defined attributes for incremental graph - po-proc-sup
- PO_ENDECA_SUPP_ANALYSIS_INC_V - View to extract data for supplier data for incremental graph - po-proc-sup

These views load data from Oracle Projects and Oracle Procurement (purchase orders, agreements, negotiations, and supplier) into the ETL.

Responsibilities and Menu Navigation

Oracle Project Procurement Command Center Plus enables:

- Project managers to use the Project Super User responsibility and Projects: Delivery menu item to access the Project Search and Overview page. This page serves as the starting point for project procurement planning. Users must select the Procurement link from the Actions column set for a project in the Project Search and Overview page project list table to access the Procurement tab and the project manager command center. Additionally, the Item Analysis and Supplier Analysis menu items are available as sub-tabs within the Procurement tab.

  For further details, see: Overview of Project Manager Actions, page 3-1 and Analyzing Items, page 5-1

- Project buyers to use the Project Procurement (Buyer) responsibility and Command Center menu item. The buyer command center serves as the starting point for project procurement processing. Additionally, the Item Analysis and Supplier Analysis menu items are available as sub-tabs in the Procurement menu.

  For further details, see:

  - Overview of Project Buyer Actions, page 4-1

  - Analyzing Items, page 5-1

  - Analyzing Suppliers, page 5-9

3

Planning Procurement: Project Manager Actions

The chapter discusses the actions that a project manager can perform using the project manager command center along with the Item Analysis and Supplier Analysis pages.

This chapter covers the following topics:

Overview of Project Manager Actions

Oracle Project Procurement Command Center Plus enables project managers to perform the following actions:

- Create a Project Procurement Plan
- Update a Project Procurement Plan
- View Procurement Planning Information and Metrics

- View Revision History
- View Revision History
- Analyze and Replace Items and Services to Procure
- Analyze Sources of Supply
- Manage Project Procurement Exceptions
- Release for Planning
- Create Purchase Requisitions

The project manager performs the project procurement planning related activities using the project manager command center. The starting point of the command center is the Project Search and Overview page. Project managers can search for projects and access the command center for the selected project using the following navigation:

Projects: Delivery > Search Projects > Advanced Search > Search results > Click Project Name link > Procurement tab to open the selected project.

From the command center, the project manager can access the following:

- Item Analysis and Supplier Analysis - All purchasing documents belonging to the operating units that the project manager has access to.
- Actions: View Agreement, View PO, View Negotiation - Only those documents belonging to the operating units that the project manager has access to. For negotiations, security is governed by the operating unit in which the negotiation is being created. For agreements, the application enables multiple operating units to be assigned to a single agreement. Hence, project managers having access to any of the assigned operating units can access the agreement. For purchase orders, if the PO: Enforce Projects Security profile is set to Yes, project managers can access only those purchase orders containing at least one project in the distribution to which the project manager is a key member, and any other PO-level security.
- Update tasks: for the selected tasks in the task list of the command center, the project manager can update multiple tasks or mass update a set of tasks using actions from the table level drop down menu.

The project manager cannot directly access the buyer command center.

Creating a Project Procurement Plan

Oracle Project Procurement Command Center Plus enables you to create a procurement plan and specify a periodic delivery schedule for the items and services associated to the plan lines using one of the following two methods:

- Use the interface tables to transfer data automatically, from a third-party system, or a custom built planning or scheduling system.
- Manually enter the data into a spreadsheet

Using Interface Tables

To transfer procurement plan data automatically:

1. Insert data into the following interface tables using the sample script:
   - **po_proc_plan_hdr_interface**: Holds the header information such as Project Name, Description, Start date, End Date and Duration
   - **po_proc_plan_line_interface**: Holds the plan line details
   - **po_proc_plan_prd_interface**: Holds the periodic requirements details, the progress payment details
   - **po_proc_plan_prog_interface**: Holds the progress summary details.
2. The sample script helps you populate the interface tables with data. After data is inserted in the tables, the script runs the Procurement Plan Import (POPROCIMP) concurrent program automatically and returns the concurrent request ID. Navigate to the concurrent program window or the **Procurement Plan** page to check if the plan was uploaded successfully. If the program fails, the application displays the status Complete-Error in the **Procurement Plan** page. Use the **Request Number** link to check the list of errors and take appropriate action. Additionally, you can check for errors using l_interface_txn_id:

   ```
   SELECT * FROM PO_INTERFACE_ERRORS WHERE
   INTERFACE_TRANSACTION_ID=l_interface_txn_id ;
   ```

For more information on the interface tables and script, see the appendix: Using Interface Tables, page A-1.

Using Spreadsheet

To create a procurement plan using a spreadsheet:

1. Search and locate a project for which you need to create a procurement plan. For detailed steps to search, see: *Oracle Business Suite Projects Fundamentals Guide.*
2. Select the applicable project and click the **Procurement** link to open the **Procurement Plan** page.
3. For projects that do not contain procurement plans, the **Procurement Plan** page displays the **Create Procurement Plan** button. Click the button to open the **Create**

Procurement Plan page for the selected project.

4. Click **Download** to download an XML Spreadsheet Template.

5. Refer to the appendix , page B-1in this guide for instructions for using the spreadsheet to create a new procurement plan for the project.

Updating Project Procurement Plan

Oracle Project Procurement Command Center Plus enables you to update a procurement plan using the following two methods:

- Using the interface tables
- Using a spreadsheet

Update Using the Interface Tables

To update using interface tables:

1. In the interface tables, add the existing procurement plan number.

2. Make the changes and follow the steps discussed in Creating a Project Procurement Plan > Using Interface Tables topic.

3. Refer to the appendix Using Interface Tables, page A-1 to find out which columns can be updated at various stages and statuses.

Update Using the Spreadsheet

You can modify content and add new lines to an existing procurement plan by downloading the existing procurement plan and uploading it back after making changes to it.

For more information, refer to the appendix Using Spreadsheets to Create and Update Procurement Plans, page B-1

To update a project procurement plan:

1. In the Project Search page, click on Advanced Search. From the search results, click the Project Name link to select a project, and then open the Procurement tab.

2. For projects that already have an existing procurement plans, the Procurement Plan page displays the Update Procurement Plan button. Click the Update Procurement Plan button to open the Update Procurement Plan page for the selected project. Ensure you enter a start and end date.

3. When there is a change in any of the attributes of a Procurement Plan Line, you can:
   - Freeze the current version of the line identified by the Procurement Plan, Procurement Plan Line Number and Procurement Plan Line Version Number
   - Create a new record for the same Procurement Plan, Procurement Plan Line Number and Procurement Plan but with the next higher Line Version Number
4. In order to keep a Procurement Plan Line Version in sync with the corresponding source of demand in the Engineering system, as a Project Manager, you can modify any of the following attributes of the line:
   - Category of the Procurement Plan Line
   - Item Description
   - Destination
   - Buyer Name
   - Suggested Supplier
   - Acquisition strategy primary objective
   - Acquisition strategy secondary objective
   - Source Information reference (All source related details)
   - Additional Information
   - Expenditure type
   - Planning Rate
   - Purchasing UOM
   - For one or more of the Schedules for a Material line:
     - Task Number
     - UOM
     - Location
     - Quantity
   - For one or more of the Pay Items for a Services line:

- Pay item type
- Pay item Description
- Task Number
- Quantity
- UOM
- Value(%)
- Price
- Need by date

- Add one or more Schedules for a Material line
- Add one or more Pay Items for a Services line
- Suggested suppliers
- Reference to a document detailing on or more components of the Technical Specifications
- Reference to a document detailing the Submittal Requirements

5. As a Project Manager, you can make any kind of change to the Procurement Plan Line irrespective of the status of the plan line. You can download, make changes, and upload the document. You can however, not make manual updates to the status of the plan line. The Version Number column in the Plan Lines sheet is a non-editable field. If you, as a Project Manager provide a value for the Version Number, the application will ignore it during data upload. The Version Number is automatically updated to 0 when a plan line is uploaded in the Draft status. Any changes to the plan lines in draft status will not increment the Version Number. The Version Number is incremented by 1 when any of the plan lines that are not in Draft status are changed or updated. For example, if a plan line is in the Ready for Planning status, and the attributes of the plan line are changed, then the application automatically increments the Version Number by 1. Incrementing the Version Number by 1 puts the plan line in Revised status. The following table displays details of the various scenarios and application behavior based on the status:

Scenario	Application Behavior
Updates to Plan lines that are in Draft status	No change in application behavior. Application will continue to work the way it works today

Scenario	Application Behavior

Updates to Plan lines that are in Ready for Planning status	When the plan line is in Ready for Planning status and the changed attribute falls under one of the following attributes:
	• Category of the Procurement Plan line
	• Item Description
	• Destination
	• Buyer Name
	• Suggested Supplier
	• Acquisition strategy primary objective
	• Acquisition strategy secondary objective
	• Source Information reference (All source related details)
	• Additional Informatio
	• Expenditure type
	• Planning Rate
	• Purchasing UOM
	• For one or more of the Schedules for a Material line:
	  • Task Number
	  • UOM
	  • Location
	  • Quantity
	• For one or more of the Pay Items for a Services line:

Scenario	Application Behavior
	- Pay item type - Pay item Description - Task Number - Quantity - UOM - Value(%) - Price - Need by date - Add one or more Schedules for a Material line - Add one or more Pay Items for a Services line - Suggested suppliers then, - The status of the plan line displays Revised - The plan lines that are in Revised status to be displayed as a metric in both PM and Buyer command center

Scenario	Application Behavior

Updates to Plan lines that are in Ready To Order status	When the plan line is in Ready to Order status and the changed attribute falls under one of the below attributes
	• Category of the Procurement Plan line
	• Item Description
	• Destination
	• Buyer Name
	• Suggested Supplier
	• Acquisition strategy primary objective
	• Acquisition strategy secondary objective
	• Source Information reference (All source related details)
	• Additional Information
	• Expenditure type
	• Planning Rate
	• Purchasing UOM
	• For one or more of the Schedules for a Material line:
	    • Task Number
	    • UOM
	    • Location
	    • Quantity
	• For one or more of the Pay Items for a Services line:

Scenario	Application Behavior
	- Pay item type - Pay item Description - Task Number - Quantity - UOM - Value(%) - Price - Need by date - Add one or more Schedules for a Material line - Add one or more Pay Items for a Services line - Suggested suppliers then, - The status of the plan line should be displayed as Revised - The plan lines that are in Revised status to be displayed as a metric in both PM and Buyer command center

6. Click Download to download a zip file containing the procurement plan spreadsheet and a Readme file.

7. Unzip the archive and extract the XML spreadsheet document in a local folder. If you use Microsoft Windows and Microsoft Office Excel, then double-clicking the file opens the spreadsheet in Microsoft Office Excel. If you are not able to open the file with this method, or if the file opens in a different application, then you can make a file- type association by right-clicking the extracted XML file and selecting the option Open With > Choose Program > Microsoft Office Excel.

8. Update existing lines and periodic requirements or add new lines. Please read through the Readme file available in the downloaded zip archive to understand how each field in the excel sheet is validated and populated.

9. Once all changes are made, use Save or Save As option to save the file in the same format. If the system prompts you, then choose to save the workbook in the same format.

10. To upload the excel sheet, click Browse in the Update Procurement Plan page for the selected project, select the file that was just saved, and click Upload.

Viewing Procurement Planning Information and Metrics

The command center page for a project displays work, project procurement financials, and services metrics, analysis charts and graphs, planning and procurement documents. This page enables you to manage the project supply chain effectively. This central page of the project manager command center indicates the current status of the project. You can see how much quantity has been requested, ordered, received, and invoiced for each task or for each periodic bucket. You can see the status of plan lines and negotiations. Additionally, you can see where the project has incurred unplanned spend and the procurement status for each task.

This page displays the following:

Heading Region

The heading region of the page displays the following:

- Project Name
- Project Number
- Date/time stamp of last ETL update
- Update Procurement Plan button

Search Region

The Search component allows you to submit keyword searches and provides type-ahead suggestions displaying attribute values that match the typed text. When you perform a search, the search term is added to the Selected Refinements component. As you type, you may be prompted to select a matching attribute value, or simply search for the entered text.

Selected Refinements

The Selected Refinements component displays all values that you have selected to filter data, and allows you to quickly make adjustments to the current refinement by removing items or clearing all filters from the list.

Bookmarks

The Bookmarks component allows you to save a given navigation and component state and return to it at a later time.

Available Refinements

The Available Refinements component allows you to filter data based on the currently available values or value ranges for selected attributes that are displayed within attribute groups. Expand the attribute groups to view and select attribute names.

Metrics Region

The page has three metric sections:

Work

Work Metric	Metric Display Title
Plan Lines	Total plan lines for the procurement plan of the project
Draft	Draft status from the procurement plan lines of the project
Ready For Planning	Ready for Planning for procurement planning lines of the project
Ready To Order	Ready to Order for procurement plan lines of the project

Work Metric	Metric Display Title
Revised	Number of Plan lines that are modified by the Project Manager that needs buyer review. This metrics lists the number of plan lines updated by the Project Manager that are in the Ready for Planning or Ready to Order statuses. When you click Revised, the application reapplies the Revised filter to the page and displays only those plan lines that are in the Revised status.
Active Suppliers	Number of suppliers against whom purchase orders are created for the Project
Supplier Change Requests	Change requests for the supplier
Supplier on Hold	Number of Suppliers on Hold
Open Notes	The Manage Notes action enables project buyers to create, update, or delete new actions. This action is available on PO header and lines, agreement header and lines, and requisition lines. Open notes come from Oracle Procurement Command Center.

Project Procurement Financials

Project Procurement Financials Metric	Metric Display Title
Project Currency	Currency indicator for the Project Currency
Budgeted Cost (PC)	Total burdened cost from the plan type associated to the project for procurement planning
Planned Procurement Cost (PC)	Total cost of the planned amounts from the procurement plan lines
Requisitioned	Total requisitioned for the procurement plan
Ordered	Total ordered for the procurement plan
Received	Total received for the procurement plan

Project Procurement Financials Metric	Metric Display Title
Invoiced	Total invoiced for the procurement plan
Paid	Total paid for the procurement plan

Services

Services Financials Metric	Metric Display Title
Accrued Retainage	Total Amount withheld as retainage against standard payment or prepayments for the Project
Progress Payments	Total amount paid for the Progress of Work against the Project
Progress Percentage	The total amount paid for the progress of work by the total amount allotted for the work for the Project

Exceptions Region

This region displays the following:

Exception Name	Description
Items with delayed shipments	Items with delayed shipments (not yet delivered)
Items past Need by Date but not requisitioned	Items not requisitioned
Items past Order by Date but not ordered	Items not ordered
Purchase Orders with Promised Date beyond Need by Date	Delivery dates beyond my Need by Date
Progress Payments Overdue	Service Lines with delayed progress reporting (Progress not yet processed)

Exception Name	Description
Invoices on Hold	Invoices created for the Projects that are put on hold due to non receipt of the deliverables
Deliverables Overdue	Deliverables with the due dates earlier than the system date for the Project
Services to be Requisitioned	Services to be requisitioned
Items to be ordered within the next 1 week	Items to be ordered within the next one week

Analysis Region

Note: Any chart containing 'amount' on one of the axes, only renders if the data is of a single functional currency. If the chart does not render, then you must apply a currency filter.

This region displays the following charts and graphs:

Chart Title	Tab	Details
Schedule	Schedule	Quantity by period for Quantity requested Quantity ordered Quantity received Quantity invoiced Quantity rejected Total quantity
Plan Lines Status	Schedule	Planning amount by period for line status: Draft, Ready for Planning, Ready to Order, and Revised
Task by Start Date	Planning Status	Task not started that have passed the scheduled start date

Chart Title	Tab	Details
Spend Analysis	Planning Status	Amount by item category
Actual Over Planned	Financial	Quantity ordered by period for the items on the project
Procured Cost Percentage	Financial	Percentage breakdown of total procured cost by: Total cost ordered Total cost received Total cost requisitioned Total cost rejected/returned Total cost remaining
Supplier Measures	Supplier	Average delivery rating by month for each supplier
Approved, Local Suppliers	Supplier	Total amount approved by approval year date
Average Lead Time	Item	Average lead time by period
Product Variety	Item	Planned items and ordered items for the project
Unplanned Orders	Orders	Unplanned orders by date
Change Orders	Orders	Supplier change request by date

Chart Title	Tab	Details
Progress Payments	Progress Payments	For the selected/filtered projects, displays the following amounts: - Requested Amount - Ordered Amount - Advance Paid Amount - Progress Payment Amount - Invoiced Amount - Retainage Amount - Paid Amount
Average Lead Time	Progress Payments	Average lead time by Item Description. Lead Time in the average number of days needed to procure the service. The lead time includes pre-ordering, Ordering and Post-ordering lead time. Lead time is obtained from the Sources of Supply.

Planning Documents Region

This region lists the tasks and related procurement plan information that meet the filter criteria applied by the you through searching, guided navigation, or selection of a chart series/section. The table in this section has the following sub-tabs:

- Tasks – the tasks for a project that have at least one associated procurement plan line

- Plan lines – the plan lines for the tasks in the tasks sub-tab. You can choose to filter information further based on the available result sets – for example Plan Lines, Delivery Tracker, Budget Tracker, Supplier Selection Strategy, Additional Information, Source Information, and Actions. You can view details such as Item Description, Item Category, Version Number (value displayed only if there are revisions to the plan line), Line Status, Previous Status (displays the Previous Status value only if the plan line is in Revised status – for example, if the plan line is Revised when it is in Ready to Order status, then the Line Status column displays Revised as the status and the Previous Status column will display Ready to Order), Buyer Name, UOM, Quantity, Planning Currency, Unit Price, Planning Amount, Functional Currency, Amount (Functional Currency), Project Currency, Amount (Project Currency), Suggested Supplier.

  The **Technical Specifications** text field enables you to enter a URL that typically opens a page (usually Content Management Systems) on the internet that is useful to suppliers. Each type of the technical specifications may itself be revisioned. Therefore, not only all the components of the technical specifications for each item needs to be communicated to the supplier, but also the right version of each must be communicated as well. If the plan line status is Ready for Planning, any updates to the URL initiate revision control. When procurement document lines (requisition lines, purchase order lines, and requisition lines) get created from plan lines, the URL cascades as a To Supplier attachment of type URL.

- Schedule – the schedule of item quantities in the procurement plan for the lines in the plan lines sub-tab

- Schedule Summary – summarized using period buckets identified by the setup of the project, or the profile option

- Progress Payments Summary – a summary of the progress payment

- Sources of Supply – the sources of supply authorized by the buyer for the plan lines

Actions in Planning Documents Region

Project managers can perform the following actions while reviewing the project details:

- In the Tasks tab, you can select multiple task rows and request the following actions using the Actions option available on the right side of the Tasks table:

  - Update Multiple Tasks – You can select multiple task rows and select the 'Update Multiple Tasks' action for task in current working version.

  - Mass Tasks Update – You can select multiple task rows and select the 'Mass Tasks Update' action for task in current working version.

  - Mass Update Progress – You can select multiple task rows and select the 'Mass Update Progress' action for task in latest published version.

  - Additionally, in the Tasks tab, if Actions is selected in the column set dropdown menu, you can update financial plans by selecting a task and the Update Financial Plans action to view and update the financial plan lines (budgets or forecasts) for the task selected.

- In the Plan Lines tab, you can select multiple lines and select Make Lines Ready for Planning action using the Actions option available on the right side of the Plan Lines table. You can also use Add to Shopping Cart from the Actions menu to create requisitions for Service lines. You can also select one or more lines and click View Revision History. When you click View Revision History, the Revision History page displays, where you can view the changes to the plan lines across different revisions. You can compare the changes of the selected procurement plan line with the earlier revision, original version and all the versions of the plan line. Additionally, in the Plan Lines tab, if Actions is selected in the column set dropdown menu, you can analyze items and suppliers. See: Analyzing and

Replacing Items, Analyzing Sources of Supply topics.

- In the Schedules tab, you can select multiple lines and select Add to Shopping Cart action using the Actions option available on the right side of the Schedule Details table. The schedule status is derived from various attributes that are available via ETL. The statuses are: Draft, Ready for Planning, Cancelled, Active, and Closed.

- The Schedule Line Groups tab has an analytical table that groups plan lines using grouping criteria, such as:

  - Source System Document
  - Source System Name
  - Item Category
  - Line Type
  - Buyer
  - Period Name

  You can see the number of plan lines, planned amount, and the total quantity in the group. Click a row-level action to include all eligible lines in the selected group when adding lines to the shopping cart. If a line status is not valid for the action selected, it is not eligible for the action. For example: lines with a status of Draft or Ready for Planning cannot be added to the shopping cart.

In order to prevent the creation of duplicate requisitions, or excess demand for the planned lines or schedules, the system calculates the open quantity while adding planned lines or schedules to the shopping cart. If the open quantity of planned line or schedule is calculated to be zero or negative, the planned line is not eligible to be added to shopping cart and displays an error message informing the user that the lines do not have open quantity.

Open quantity is calculated as difference of total quantity and sum total of available requisition quantity and shopping cart. For example, if the planned line has total quantity of 100 and 50 is created as a requisition; the quantity of 20 is already added to the shopping cart, then the open quantity or eligible quantity is 30.

Procurement Documents Region

This region displays details of the following purchasing documents associated with the plan lines:

- Negotiation
- Agreements

- Requisitions
- Orders
- Deliverables
- Notes

The **Manage Notes** region enables project managers to view notes. Notes are available for purchase order headers, purchase order lines, agreement headers, agreement lines, and requisition lines. This is helpful to process procurement documents rapidly. Project buyers can create, update, and delete notes.

Select Actions in the column set dropdown menu and view these purchasing documents from the respective sub-tabs.

Refinements

The following refinements are available:

- Agreement Supplier
- Supplier
- Agreement Status
- Negotiation Status
- Negotiation Number
- Negotiation Title
- Lead Time
- Requisition Status
- PO Status
- Order Number
- Negotiation Close Date
- Requisition Need By Date
- PO Need By Date

Note that Need By Date is available on the progress summary level for service lines. You may not use a past **Need By Date**, and if the Need By Date does not exist, the Period Start Date is used instead.

Viewing Revision History

Project Managers can use the Revision History page to view and compare the changes made to a procurement plan line with the earlier revision, original version and all the versions of plan line. To do this, you, as a project manager, need to select one or more plan lines and select the View Revision History action in the Plan Lines tab of the Project Manager Command Center.

The Revision History page shows the changes made at the header (Project Details), Plan line, Schedules, and Progress Summary levels.

If you select more than one plan line for viewing the revision changes, then the comparison is sorted by Line and Revision. If you select a single plan line for viewing the revision changes then the comparison is sorted by Revision, where the latest revision is shown first followed by subsequent revisions.

If you delete the plan line selected from the command center from the Selected Plan Line region then the application refreshes and shows the revision changes for the available line in the Show all Procurement Plan Line Changes region.

When you select only one plan line from the command center and the selected line is deleted from the Selected Plan Lines region, then the application refreshes and does not show any values if you choose the Compare to Original Plan Line or the Compare to Previous Revision from the actions menu.

If you select a goods line that has associated schedules details, then the application displays an icon adjacent to the Line Number to identify it as a goods line.

If you select a fixed price services line that has associated progress payment related details, then the application displays an icon adjacent to the Line Number to identify it as a fixed price services line.

Changes to a plan line also affect downstream documents such as purchase orders, and negotiations. The following columns in the **Revision History** page display the list of affected downstream documents:

- Impacted Document Type
- Operating Unit - Document Style - Document Number with revision
- Document Status

Click Return to Command Center to return to the Command Center.

Click Compare to Previous Revision and then click Go to view the changes between the previous revision and the current revision.

Click Compare to Original Revision and then click Go to view the changes between the original revision and the current revision.

Click the Compare to All Revisions and then click Go to view all the changes across all revisions of the Procurement Plan Line.

Analyzing and Replacing Items to Procure

Project managers can use the Item Analysis page to view, compare, analyze, and replace items and services to procure for the project. For items or services that are specified in the procurement plan, project managers can analyze them using the Procurement Plan for a given project.

To analyze and replace items and services to procure:

1. Navigate to the Items Analysis page using the following navigation: Procurement Plan page for a given project > Planning Documents region > Plan Lines tab > Actions from the column set dropdown menu

2. Select the applicable item or service.

3. Click the Analyze Item link to open the Item Analysis page.

4. The Item Analysis page provides a summary of the procurement history of the item or service, including current orders and suppliers. You can use the Search Box on this page to look for alternatives.

5. If you find an alternative item that works better for this project, then select the item in the Item Summary > Item Details > Details table and click Compare with Procurement Line action available on the right side of the Details table.

6. If you find an alternative item or service that works better for this project, then select the item in the Item Summary > Item Details > Details table and click Compare with Procurement Line action available on the right side of the Details table.

For further information regarding Item Analysis page, see Analyzing Items, page 5-1.

Analyzing Sources of Supply

Project managers can use the Supplier Analysis page to view, compare, and analyze the supplier performance for a given item or service. For suppliers who are specified in the procurement plan, project managers can analyze them using the Procurement Plan for a given project.

To analyze sources of supply:

1. Navigate to the Supplier Analysis page using the following navigation: Procurement Plan page for a given project > Planning Documents region > Plan Lines tab > Actions from the column set dropdown menu

2. Select the applicable item or service.

3. Click the Analyze Supplier link to open the Supplier Analysis page.

4. Use the information displayed in the Supplier Analysis page to view the performance history of the supplier and compare the suppliers.

For further information regarding Supplier Analysis page, see: Analyzing Suppliers, page 5-9.

Managing Project Procurement Exceptions

Oracle Project Procurement Command Center Plus enables project managers to manage project procurement exceptions that pose risks to the project schedule or budgets. Use the Exceptions region in the Procurement Plan page for a given project to view and act upon the risks to the project progress. Exceptions help alert you to approach problems on the project before they actually cause schedule delays or wastage. Click on these exceptions to see the plan lines with an exception, and quickly resolve the problems even before they occur.

Releasing Plan Lines for Planning

The project manager can authorize the project buyer to start sourcing the items or services required for the project by marking the applicable plan lines as ready for planning. This authorization changes the plan line status from 'Draft' to 'Ready for Planning'. The application displays an error if any of the selected plan lines are not in Draft status.

To release plan lines for planning:

1. Navigate to the Planning Documents region on the Procurement Plan page for a given project.

2. Click the Plan Lines tab.

3. Ensure that Plan Lines is selected in the Action dropdown menu.

4. Select the applicable items or services.

5. Scroll right to the Actions option available on the right side of the Plan Lines table.

6. Select Mark Lines Ready for Planning action to indicate to the project buyer that they can start finding suppliers for the item or service that is best suited for the project.

7. Upon successful completion of action, the application displays a confirmation message.

Creating Purchase Requisitions

Project managers can create purchase requisitions for plan lines that are in Ready to Order status. The application can alert the project managers when they need to create purchase requisitions or they can apply filters to identify the plan lines with items or services that need to be ordered. They can select one or more schedule detail lines for the procurement plan lines and create a single requisition. When creating requisition, they can:

- Update the item description (if not linked to an agreement)
- Specify the quantity / amount and need by date

To create purchase requisitions for good lines:

1. Navigate to the Planning Documents region on the Procurement Plan page for a given project.
2. Click the Schedules tab.
3. Select the applicable schedules.
4. Scroll right to the Actions option available on the right side of the Plan Lines table.
5. Select Add to Shopping Cart action.
6. Select Checkout in the Shopping Cart page
7. Review the requisition summary.
8. Click Submit to submit the requisition.
9. The application displays a confirmation message. Click Continue to return to the Procurement Plan page.

To create purchase requisitions for service lines:

1. Navigate to the Planning Documents region on the Procurement Plan page for a given project.
2. Click the Plan Lines tab.
3. Select the applicable plan lines.
4. Scroll right to the Actions option available on the right side of the Plan Lines table.
5. Select Add to Shopping Cart action.

6. Select Checkout in the Shopping Cart page.

7. Review the requisition summary.

8. Click Submit to submit the requisition.

Note that for both goods-based lines, and service-based lines, the need-by date, if available, is added to the newly created requisition. You may not add a past need-by date to the requisition.

Create the requisition from the **Schedules** tab or the **Plan Lines** tab. You can select multiple schedules that have different plan lines. If all schedules selected have the same technical specification URL, add the URL as a To Supplier URL type attachment at the requisition header level. If the URL is different for at least one of the selected lines, the system populates the URL of each plan line as a To Supplier URL type attachment at the requisition line level.

As Oracle Project Procurement Command Center Plus is integrated with Oracle iProcurement, the selected plan lines, quantities, budget amounts, task, and expenditure type details are populated automatically. If you have enabled touch-less processing in Oracle Purchasing, then the application automatically creates and approves the associated standard purchase orders for all purchase requisitions that get approved with an agreement link. If you have not enabled touch-less processing, then the project buyer needs to find these purchase requisitions in the Alerts section of the project buyer command center and place an order.

4

Processing Procurement: Project Buyer Actions

The chapter discusses the actions that a project buyer can perform using the project buyer command center along with the Item Analysis and Supplier Analysis pages.

This chapter covers the following topics:

Overview of Project Buyer Actions

Oracle Project Procurement Command Center Plus enables project buyers to perform the following actions:

- Review Project Procurement Plan
- Analyze Items
- Analyze Suppliers for a Plan Line

- Add to Document Builder
- Compare Offers
- Compare Suppliers and Award
- Review Sources of Supply
- Update Procurement Plan
- Viewing Revision History
- Create Sources of Supply
- Update Sources of Supply
- Implement Change

The project buyer is responsible for ensuring that the project is successfully executed and all the objectives of the project are met. To achieve this, they need to ensure that the right material or service is procured at the right price, and made available at the right location, with the right quality at the right time. The buyer uses the project buyer command center to take all decisions related to planning and execution of procurement activities on the project. The command center provides information to the project buyer for managing all procurement activities on the project, and is based on the procurement plan for all the projects the buyer is responsible for.

Use the Project Procurement (Buyer) responsibility to access the command center.

From the command center, the project buyer can access the following:

- All plan lines and procurement documents created in operating units that the buyer has access to. Additionally, if PO: Enforce Projects Security profile is set to Yes, then the buyer can access plan lines and related information only for those projects where the buyer is defined as a key member.
- Item Analysis and Supplier Analysis pages- All purchasing documents belonging to operating units that the buyer has access to.
- Actions: View Agreement, View PO, View Negotiation - Only those documents belonging to the operating units that the buyer has access to. For negotiations, security is governed by the operating unit in which the negotiation is being created. For agreements, the application enables multiple operating units to be assigned to a single agreement. Hence, buyers having access to any of the assigned operating units can access the agreement. For purchase orders, if the PO: Enforce Projects Security profile is set to Yes, buyers can access only those purchase orders containing at least one project in the distribution to which the buyer is a key member. Additionally, further security rules apply if you have set up security rules in the individual products and documents.

The project buyer has no access to the project manager command center.

Reviewing a Project Procurement Plan

Project buyers can review the procurement plans from the command center. The buyer's view and the project manager's view of the procurement plan are very similar to ensure that they are on the same page throughout the lifecycle of the project. The only difference is that the buyer is provided with a view across projects. This supports a centralized procurement situation where a single buyer is catering to multiple projects at the same time and needs the ability to consolidate demand across projects.

Start by reviewing the Ready for Planning plan lines entered by the project manager. You can see the item or service, the overall demand, and the budget allocated for it. You can use the column set selector on the top left to see supplier selection criteria and additional information about the item. You can review the schedule summary to assess the forecasted demand for each item split by each periodic bucket for the duration of the planning period.

This page displays the following:

Heading Region

The heading region of the page displays the date/time stamp of last the ETL update (your time-zone)

Search Region

The Search component allows you to submit keyword searches and provides type-ahead suggestions displaying attribute values that match the typed text. When you perform a search, the search term is added to the Selected Refinements component. As you type, you may be prompted to select a matching attribute value, or simply search for the entered text.

Selected Refinements

The Selected Refinements component displays all values that you have selected to filter data, and allows you to quickly make adjustments to the current refinement by removing items or clearing all filters from the list.

Bookmarks

The Bookmarks component allows you to save a given navigation and component state and return to it at a later time.

Available Refinements

The Available Refinements component allows you to filter data based on the currently available values or value ranges for selected attributes that are displayed within attribute groups. Expand the attribute groups to view and select attribute names.

Metrics Region

The page has three metric sections:

Work

Metric	Metric Display Title	Calculation
Totals	Plan Lines	Total Number of Plan Lines
Totals	Draft	Plan lines in Draft Status
Totals	Ready for Planning	Plan lines in 'Ready for Planning' status
Totals	Ready to Order	Plan Lines in 'Ready to Order' status
Totals	Revised	Number of Plan lines that are in Revised status for the projects to which the buyer has access. Click the Revised Metric to apply the filter to the page. Only those plan lines that are in revised status are shown in the Plan Lines tab.
Totals	Incomplete Negotiations	Total Negotiations which are not in 'complete' / 'complete – Purchase Order Created' status
Totals	Open Requisitions	Total number of requisitions in the pool
Totals	Orders to Process	Total number of orders that have not yet been approved.

Metric	Metric Display Title	Calculation
Totals	Open Notes	Total number of open notes.

Suppliers and Items

Metric	Metric Display Title	Calculation
Totals	Suppliers	Total number of distinct suppliers
Totals	Items	Total number of distinct items
Totals	On-Hold Suppliers	Total number of distinct Suppliers who have a hold (Purchasing Hold / Hold All Invoices / Hold Open Invoices) placed on Supplier Profile
Totals	Change Requests	Total Active Change Requests Pending Approval
Totals	Rejected Quantity	Total Quantity Rejected for open shipments
Totals	Overdue Quantity	Total Quantity Overdue (Quantity not received for shipments beyond promised-date / need-by-date)

Services

Metric	Metric Display Title	Calculation
Totals	Services	Total Number of Plan Lines for Services
Totals	Draft	Plan lines in Draft Status for Services

Metric	Metric Display Title	Calculation
Totals	Ready for Planning	Plan lines in 'Ready for Planning' status for Services
Totals	Ready to Order	Ready to Order
Totals	Revised	Number of Plan lines for Services that are in Revised status for the projects to which the buyer has access.
Totals	Progress Percentage	Total progress percentage

Exceptions Region

The following alerts convey exceptions that a project buyer needs to address immediately:

- Items past order-by-date (order-by-date on a schedule is in the past, but all planned quantity is not requested yet)
- Items overdue (need-by-date on a purchase order is in the past, but all ordered quantity is not received yet)
- Progress Payments Overdue (Service Lines with delayed progress reporting - Progress not yet processed)
- Invoices on Hold (Invoices created for the Projects that are put on hold due to non receipt of the deliverables)
- Deliverables Overdue (Deliverables with the due dates earlier than the system date for the Project)
- Agreements that expire in the next 30 days
- Services to be Requested
- Overdue Notes along with the due date for each note.

Work and Measure Region

Note: Any chart containing 'amount' on one of the axes, only renders if the data is of a single functional currency. If the chart does not render, then you must apply a currency filter.

This region displays charts and graphs for the following sub-tabs:

- Planned Amount
- Procurement Status
- Planning Status
- Progress Payment Summary
- Procurement Spending
- Supplier Measures
- Item Measures

Tab	Chart	Details
Planned Amount	Planned Amount by Operating Unit	Chart displays planned amount / number of items. When multiple functional currencies exist, amount charts do not appear. When all plan lines have same functional currency, we show bar chart for planned amount by operating unit. If all displayed records belong to the same OU, the x-axis changes to projects. If all items belong to the same project, x-axis changes to Category.
Planned Amount	Planned Amount Spread	When all plan lines have the same functional currency, the planned amount can be sliced by item category (then item description), Deliver-to-location or Expenditure type.

Tab	Chart	Details
Procurement Status	Procurement Plan Schedule	This chart shows quantity / amount planned / requested / ordered / Received / Rejected / Invoiced for each period based on schedule or Order-by-date (need-by-date – lead-time), or task number or cost code
Procurement Status	Tasks by Start Date	Shows total number of tasks by scheduled start-date period bucket of the task

Tab	Chart	Details
Planning Status	Plan Lines by Status	Number of plan lines / planned amount stacked by each status in each period. If looking within a single period, then number of plan lines / planned amount can be viewed by item description. Also, number of plan lines / planned amount can be viewed against unassigned / assigned lines. Note that amount-based comparisons are possible when data is of a single currency only. The Planning amount by period for Line Status displays Draft, Ready for Planning and Ready to Order, and Revised status for all the projects to which the buyer has access. Quantity by Line Status displays Draft, Ready for Planning, Ready to Order, and Revised status for all the projects to which the buyer has access. Count of Lines by Status displays Draft, Ready for Planning Ready to Order, and Revised status for all the projects to which the buyer has access. The Plan Line status shows the split of plan lines by Quantity and by Planning Amount for Revised status for all the projects to which the buyer has access.

Tab	Chart	Details
Planning Status	Negotiation Status	Number of negotiation stacked by status for each period bucket
Progress Payment Summary	Progress Payments	For the selected/filtered projects, displays the following amounts: Requested Amount Ordered Amount Advance Paid Amount Progress Payment Amount Invoiced Amount Retainage Amount Paid Amount
Progress Payment Summary	Lead Time by Items	Average lead time by Item Description. Lead Time in the average number of days needed to procure the service. The lead time includes pre-ordering, Ordering and Post-ordering lead time. Lead time is obtained from the Sources of Supply
Procurement Spending	Procurement Spread	Shows planned spend split by item / item category / Expenditure Type / Deliver To Location / Task Name / Cost Code
Procurement Spending	Procurement Cost Distribution	Total procurement cost incurred is split by Requisitioned / Ordered / Received / Rejected / Remaining
Procurement Spending	Items at Risk	Displays items at risk of being delayed.

Tab	Chart	Details
Supplier Measures	Supplier Measures	Price Compliance Rating, Quality Rating, On-Time Delivery rating of each supplier viewable by period (year / month / fortnightly / weekly)
Supplier Measures	Approved, Local Suppliers	Shows total spend on the project split by approved vs. unapproved suppliers (ASL) or by local vs. non-local suppliers (supplier country vs. task location) by period (year / month / fortnight / week)
Item Measures	Average Lead Time	Lead Time in days averaged for a given period – Lead time is obtained from associated GBPAs
Item Measures	Product Variety	Count of distinct planned items vs. count of distinct ordered items – if there was a consolidation of variety achieved at the ordering stage, there should be a decrease in the count of distinct items ordered.

Planning Documents Region

This region displays records matching the filter criteria that you have applied in the page:

- Plan Lines – Procurement plan lines that the buyer is eligible to view along with plan line details. You can choose to filter information further based on the available result sets – for example Plan Lines, Delivery Tracker, Budget Tracker, Supplier Selection Strategy, Additional Information, Source Information, and Actions. You can view details such as Item Description, Item Category, Item Number, Line Number, Line Type, Version Number (value displayed only if there are revisions to the plan line), Line Status, Previous Status (displays the Previous Status value only if the plan line is in Revised status – for example, if the plan line is Revised when it is in Ready to Order status, then the Line Status column displays Revised as the status and the Previous Status column will display Ready to Order), Buyer Name, Project Name, Operating Unit, UOM, Quantity, Planning Currency, Unit Price, Planning Amount, Functional Currency, Amount (Functional Currency), Project Currency, Amount (Project Currency), and Suggested Supplier.

The **Technical Specifications** text field enables you to enter a URL that typically opens a page (usually Content Management Systems) on the internet that is useful to suppliers. If the plan line status is Ready for Planning, any updates to the URL initiate revision control. When procurement document lines (requisition lines, purchase order lines, and requisition lines) get created from plan lines, the URL cascades as a To Supplier attachment of type URL.

- Plan Line Groups tab - The Plan Line Groups tab has an analytical table that groups plan lines using grouping criteria, such as:

  - Source System Document
  - Source System Name
  - Item Category
  - Line Type
  - Buyer
  - Project
  - Operating Unit

  You can see the number of plan lines, planned amount, and the total quantity in the group. Click a row-level action to include all eligible lines in the selected group when adding lines to Document Builder. If a line status is not valid for the action selected, it is not eligible for the action. For example: lines with a status of Draft cannot be added when you select the action for adding to Document Builder.

- Schedule – The schedule of dates/quantities for each line in the plan lines sub-tab

- Schedule Summary – Summarized information of how much quantity of each item is required in each period for each task for each deliver-to location. Period is defined by the period name that is derived from the Need By Date from the GL Calendar (identified in the site-level profile). The project-level profile option is not used for buyers.

- Progress Payment Summary - Lists the Progress Payment details

- Sources of Supply – Sources of Supply identified by the buyer for the lines in the Plan Lines sub-tab

- Projects – the projects associated to the lines displayed in the Plan Lines sub-tab

Actions in Planning Documents Region

Project buyers can perform the following actions while reviewing the project details:

- In the Plan Lines tab, you can select multiple task rows and request the following actions using the Actions option available on the right side of the Tasks table:
    - Update Procurement Plan: - See: Updating Procurement Plan
    - Create Sources of Supply – See: Creating Sources of Supply
    - Add to Document Builder: You can select one or more plan lines and add them to Document Builder in order to create a negotiation or a purchase order. Note that plan lines with a status of Active or Ready for Planning can be added to the Document Builder.
    - View Revision History - Select one or more lines and click View Revision History. When you click View Revision History, the Revision History page displays, where you can view the changes to the plan lines across different revisions. You can compare the changes of the selected procurement plan line with the earlier revision, original version and all the versions of the plan line.
    - Additionally, in the Plan Lines tab, if Actions is selected in the dropdown menu, you can analyze items and suppliers. See: Analyzing Items, Analyzing Suppliers topics
    - If the Actions is selected in the dropdown menu, Implement Changes action is available for the plan lines that are in the Revised status. On clicking the Implement Changes action of a plan line, the changes done to the plan line would be implemented in the corresponding procurement document.
- In the Plan Lines Group tab, you can perform actions such as Add to Document Builder.
    - Add to Document Builder: Plan lines have various grouping criteria, that enables users to select lines from the analytical table to perform line level actions. You can see the number of plan lines, planned amount, and the total quantity in the group, with a single action. The system adds eligible plan lines belonging to the group to Document Builder.

      For example, select Source Document Number as a grouping criteria by using the relevant document number. View the number of plan lines, quantity, and summed amount for all plan lines with the same Source Document Number. From the actions list, select Add to Document Builder, all eligible plan lines belonging to the Source Document Number, irrespective of the selected filters, get added to the Document Builder.

If you select a line that has a status which is not eligible for the action, you cannot add the line to Document Builder. For example: lines with a status of Draft cannot be added when you select the Add to Document Builder action.

- In the Sources of Supply tab, you can select multiple lines and select Update Sources of Supply action using the Actions option available on the right side of the Schedule Details table. See: Updating Sources of Supply

Procurement Documents Region

This region displays the purchasing documents associated with the plan lines displayed in the Planning Documents region:

- Negotiations
- Agreements
- Requisitions
- Orders
- Deliverables
- Notes

Select Actions in the dropdown menu and view these purchasing documents from the respective sub-tabs. Depending on the access privileges, project buyers can view these documents and any action the buyer has the authority to take on those documents are available to them from the applicable pages. Buyers can view the negotiation, proceed to compare, and award the suppliers. See: Comparing and Awarding Suppliers.

Creating and Managing Notes

Notes enable collaboration and help organize the workload within the procurement team. For example, a requisition in the pool might require a series of tasks such as estimating overall demand, performing market research, checking price or availability, and evaluating viable alternatives. A particular buyer may specialize in one of those areas. Notes enable a buyer to assign tasks to others in the procurement team with a target completion date, to create visibility into ownership, and to track tasks to completion. The buyer can track differences between forecasted completion dates and planned completion dates. Any difference between the forecasted and planned dates may constitute a delay, and this information provides an early warning to the buyer about delay in the delivery of the item or service.

The Manage Notes action enables buyers to rapidly collaborate with other users to process procurement documents. Use the Manage Notes action to create, update, or delete notes. Notes can be used for purchase order headers, purchase order lines, agreement headers, agreement lines, and requisition lines.

Managing Procurement Plan Revisions

Buyers can use the Revision History page to view and compare the changes made to a procurement plan line with the earlier revision, original version and all the versions of plan line. To do this, you, as a buyer, need to select one or more plan lines and select the View Revision History action in the Plan Lines tab of the Buyer Command Center.

The Revision History page shows the changes made at the header (Project Details), Plan line, Schedules, and Progress Summary levels. The page also displays the affected downstream documents (such as purchase orders, or negotiations) in a separate column.

If you select more than one plan line for viewing the revision changes, then the comparison is sorted by Line and Revision. If you select a single plan line for viewing the revision changes then the comparison is sorted by Revision, where the latest revision is shown first followed by subsequent revisions.

If you delete the plan line selected from the command center from the Selected Plan Line region then the application refreshes and shows the revision changes for the available line in the Show all Procurement Plan Line Changes region.

When you select only one plan line from the command center and the selected line is deleted from the Selected Plan Lines region, then the application refreshes and does not show any values if you choose the Compare to Original Plan Line or the Compare to Previous Revision from the actions menu.

If you select a goods line that has associated periodic requirement details, then the application displays an icon adjacent to the Line Number to identify it as a goods line.

If you select a fixed price services line that has associated progress payment related details, then the application displays an icon adjacent to the Line Number to identify it as a fixed price services line.

Click Return to Command Center to return to the Command Center.

Click Compare to Previous Revision and then click Go to view the changes between the previous revision and the current revision.

Click Compare to Original Revision and then click Go to view the changes between the original revision and the current revision.

Click the Compare to All Revisions and then click Go to view all the changes across all revisions of the Procurement Plan Line.

The **Impacted Downstream Documents** column and **Document Status** column enable you to view the procurement documents that are affected by the changes, along with their document status changes.

Click **Implement Changes** in the **Selected Plan Lines** table to implement the changes in the corresponding procurement document. The warning popup window that appears summarizes the changes that will take place when the buyer confirms that the changes are to be implemented.

Additionally, the buyer can mark downstream documents as Implemented manually, instead of relying on the default system-generated implement changes process.

In certain situations, the buyer may not want the system to perform the automatic implement action. For example, when the requirement for a month increases, it may not be appropriate to increase the quantity on an existing purchase order, if the buyer wants to use some other method to meet this requirement.

Use the **Mark as Implemented** action in the **Revision History** page only after you have made changes to downstream documents manually or if you decide to not implement the changes to downstream documents.

Click **Apply** to mark the record as processed without making any changes to downstream documents. Click **Cancel** to return to the previous page.

The table below describes the application behavior in various scenarios:

Line Type	Scenario	Application Behavior

Goods	When a Plan line is in Revised status and any of the following fields is altered:
	• Item Number
	• Item Category
	• Planning Currency
	• Buyer Name
	• Item Description
	• Expenditure type
	• Planning Rate
	• For one or more of the Schedules for a Material line:
	  • Task Number
	  • Quantity
	
	and there is a RFQ created for the line with RFQ in Open Status. (There are no other downstream documents like Requisitions, agreements and Purchase orders created for the plan line)
		When you, as a buyer, select the Implement changes action, then the application:
		• Calls the Amendment API to create an amendment to the negotiation document (RFQ) that is in Open status.
		• The changes requested are passed on to the Amendment API to create an amendment.
		• When the amendment document for the RFQ is created successfully then the status of the plan line is updated to Ready for Planning status
		• The Implement Changes icon is disabled to indicate that the change is already propagated to the procurement document.

<table>
<tr><th>Line Type</th><th>Scenario</th><th>Application Behavior</th></tr>
<tr><td>Goods</td><td>When a Plan line is in Revised status and any of the following fields is altered:
Item Number
Item Category
Planning Currency
Buyer Name
Item Description
Expenditure Type
Planning Rate
For one or more of the Schedules for a Material line:
Task Number
Quantity
and there is a RFQ created for the line with RFQ in Closed Status. (There are no other downstream documents like Requisitions, agreements and Purchase orders created for the plan line)</td><td>When you as a buyer select the Implement changes action, the application displays the following error message:

"The RFQ associated to the plan line is in Closed status. Please create a new round of negotiation to propagate the changes."</td></tr>
</table>

Line Type	Scenario	Application Behavior

Goods	When a Plan line is in Revised status and any of the following fields is altered:
	• Item Number
	• Item Description
	• Item Category
	• Planning Currency
	• Expenditure type
	• Planning Rate
	• Purchasing UOM
	• Buyer Name
	• Need by Date
	• For one or more of the Schedules for a Material line:
	  • Task Number
	  • Location
	  • Quantity
	
	and there is an agreement created as an outcome for the RFQ document and the agreement is in Incomplete status. Assuming that there are no requisitions/Purchase orders created for the plan line
		When you as a buyer select the Implement changes action, then the application:
		• Calls the Webservices API to propagate the changes from the Plan line on to the GBPA document
		• Changes the status of the Plan line from Revised to Ready To Order
		• The Implement Changes icon is disabled to indicate that the change is already propagated to the procurement document.

Line Type	Scenario	Application Behavior

Goods	When a Plan line is in Revised status and any of the following fields is altered:
	• Item Number
	• Item Description
	• Item Category
	• Planning Currency
	• Expenditure type
	• Planning Rate
	• Purchasing UOM
	• Buyer Name
	• Need by Date
	• For one or more of the Schedules for a Material line:
	  • Task Number
	  • Location
	  • Quantity
	and there is an agreement created as an outcome for the RFQ document and the agreement is in Approved status
		When you as a buyer select the Implement changes action, the application:
		• Calls the Webservices API to propagate the changes from the Plan line on to the GBPA document and pushes the document to Requires Reapproval pending approval from approval hierarchy
		• Changes the status of the Plan line from Revised to Ready To Order
		• The Implement Changes icon is disabled to indicate that the change is already propagated to the procurement document

Line Type	Scenario	Application Behavior

Goods	When a Plan line is in Revised status and any of the following fields is altered:
	• Item Number
	• Item Description
	• Item Category
	• Planning Rate
	• Purchasing UOM
	• Buyer Name
	• Need by Date
	• For one or more of the Schedules for a Material line:
	  • Task Number
	  • Location
	  • Quantity
	
	and there is a requisition created referring to an agreement and the requisition is in Incomplete status
		When you as a buyer select the Implement changes action, the application:
		• Calls the Webservices API to propagate the changes from the Plan line on to the GBPA document and pushes the document to Requires Reapproval pending approval from approval hierarchy
		• Changes the status of the Plan line from Revised to Ready To Order
		• The Implement Changes icon is disabled to indicate that the change is already propagated to the procurement document

<table>
<tr><th>Line Type</th><th>Scenario</th><th>Application Behavior</th></tr>
<tr><td>Goods</td><td>When a Plan line is in Revised status and any of the following fields is altered:
Item Number
Item Description
Item Category
Planning Currency
Expenditure Type
Planning Rate
Purchasing UOM
Buyer Name
Need by Date
For one or more of the Schedules for a Material line:
Task Number
Location
Quantity
and there is a requisition approved and a Purchase order created referring to the agreement/requisition combination and the Purchase order is in Incomplete status</td><td>When you as a buyer select the Implement changes action, the application:
Calls the Webservices API to propagate the changes from the Plan line on to the GBPA document and pushes the document to Requires Reapproval pending approval from approval hierarchy
Changed the status of the Plan line from Revised to Ready To Order
The Implement Changes icon is disabled to indicate that the change is already propagated to the procurement document</td></tr>
</table>

Line Type	Scenario	Application Behavior

Goods	When a Plan line is in Revised status and any of the following fields is altered:
	• Item Number
	• Item Description
	• Item Category
	• Planning Currency
	• Expenditure type
	• Planning Rate
	• Purchasing UOM
	• Buyer Name
	• Need by Date
	• For one or more of the Schedules for a Material line:
	  • Task Number
	  • Location
	  • Quantity
	
	and there is a requisition approved and a Purchase order created referring to the agreement/requisition combination and the Purchase order is in Approved status
		When you as a buyer select the Implement changes action, the application:
		• Calls the Webservices API to propagate the changes from the Plan line on to the GBPA document and pushes the document to Requires Reapproval pending approval from approval hierarchy
		• Changes the status of the Plan line from Revised to Ready To Order
		• The Implement Changes icon is disabled to indicate that the change is already propagated to the procurement document

Line Type	Scenario	Application Behavior

Goods	When a Plan line is in Revised status and any of the following fields is altered:
	• Item Number
	• Item Category
	• Planning Currency
	• Buyer Name
	• Item Description
	• Expenditure type
	• Planning Rate
	• For one or more of the Schedules for a Material line:
	    • Task Number
	    • Quantity
	
	and there is a requisition approved and a Purchase order created referring to the requisition and the Purchase order is in Incomplete status. There is no agreement reference in PO.
		When you as a buyer select the Implement change action, the application:
		• Calls the Webservices API to propagate the changes from the Plan line on to the Purchase order document and keeps the Purchase order document in Incomplete status
		• Changes the status of the Plan line from Revised to Ready To Order
		• The Implement Changes icon is disabled to indicate that the change is already propagated to the procurement document

Line Type	Scenario	Application Behavior

Goods	When a Plan line is in Revised status and any of the following fields is altered:
	• Item Number
	• Item Category
	• Planning Currency
	• Buyer Name
	• Item Description
	• Expenditure type
	• Planning Rate
	• For one or more of the Schedules for a Material line:
	    • Task Number
	    • Quantity
	
	and there is a requisition approved and a Purchase order created referring to the requisition and the Purchase order is in Approved status. There is no agreement reference in PO.
		When you as a buyer select the Implement changes action, the application:
		• Calls PDOI to propagate the changes from the Plan line on to the Purchase order document and pushes the Purchase order document to Requires Reapproval status pending approval from hierarchy
		• Changes the status of the Plan line from Revised to Ready To Order
		• The Implement Changes icon is disabled to indicate that the change is already propagated to the procurement document.

Line Type	Scenario	Application Behavior

Fixed Price Services	When a Plan line is in Revised status and any of the following fields is altered:
	• Category of the Procurement Plan line
	• Item Description
	• Destination
	• Expenditure type
	• Planning Rate
	• Purchasing UOM
	• For one or more of the Schedules for a Material line:
	  ◦ Pay item type
	  ◦ Pay item Description
	  ◦ Task Number
	  ◦ Quantity
	  ◦ UOM
	  ◦ Value (%)
	  ◦ Price
	  ◦ Need by Date
	
	and there is a requisition created for the plan line and the requisition is in Incomplete status
		When you as a buyer select the Implement changes action, the application:
		• Updates the status of the plan line to Ready To Order
		• The Implement Changes icon is disabled to indicate that the change is already propagated to the procurement document

Line Type	Scenario	Application Behavior

Fixed Price Services	When a Plan line is in Revised status and any of the following fields is altered:
	• Item Number
	• Item Category
	• Planning Currency
	• Buyer Name
	• Item Description
	• Expenditure type
	• Planning Rate
	• For one or more of the Schedules for a Material line:
	  • Pay Item Type
	  • Pay Item Description
	  • Task Number
	  • Quantity
	  • Value (%)
	  • Price
	  • Need by Date
	and there is a RFQ in Open status created referring the requisition document
		When you as a buyer select the Implement changes action, the application:
		• Calls the Amendment API to create an amendment to the negotiation document (RFQ) that is in Open status.
		• The changes requested are passed on to the Amendment API to create an amendment.
		• When the amendment document for the RFQ is created successfully the status of the plan line is updated to Ready To Order status
		• The Implement Changes icon is disabled to indicate that the change is already propagated to the procurement document

Line Type	Scenario	Application Behavior

Fixed Price Services	When a Plan line is in Revised status and any of the following fields is being altered:
	• Item Number
	• Item Category
	• Planning Currency
	• Buyer Name
	• Item Description
	• Expenditure type
	• Planning Rate
	• For one or more of the Schedules for a Material line:
	  • Pay Item Type
	  • Pay Item Description
	  • Task Number
	  • Quantity
	  • Value (%)
	  • Price
	  • Need by Date
	
	and there is a RFQ created referring to requisition for the line and the RFQ in Closed Status. (There are no other downstream documents like Purchase orders created for the plan line)
		When you as a buyer select the Implement changes action, the application displays the following error message:
		
		"The RFQ associated to the plan line is in Closed status. Please create a new round of negotiation to propagate the changes"

<table>
<tr><th>Line Type</th><th>Scenario</th><th>Application Behavior</th></tr>
<tr><td>Fixed Price Services</td><td>When a Plan line is in Revised status and any of the following fields is being altered:
Item Number
Item Category
Planning Currency
Buyer Name
Item Description
Expenditure type
Planning Rate
For one or more of the Schedules for a Material line:
Pay Item Type
Pay Item Description
Task Number
Quantity
Value (%)
Price
Need by Date
and there is a complex Purchase order created referring to RFQ for the plan line and the PO is in Incomplete status</td><td>When you as a buyer select the Implement changes action, the application:
Calls the Webservices API to propagate the changes from the Plan line on to the Purchase order document and keeps the Purchase order document in Incomplete status
Changes the status of the Plan line from Revised to Ready To Order
The Implement Changes icon is disabled to indicate that the change is already propagated to the procurement document</td></tr>
</table>

Line Type	Scenario	Application Behavior

Fixed Price Services	When a Plan line is in Revised status and any of the following fields is altered:
	• Item Number
	• Item Category
	• Planning Currency
	• Buyer Name
	• Item Description
	• Expenditure type
	• Planning Rate
	• For one or more of the Schedules for a Material line:
	  • Pay Item Type
	  • Pay Item Description
	  • Task Number
	  • Quantity
	  • Value (%)
	  • Price
	  • Need by Date
	
	and there is a complex Purchase order created referring to RFQ for the plan line and the PO is in Approved status
		When you as a buyer select the Implement changes action, the application:
		• Calls PDOI to propagate the changes from the Plan line on to the Purchase order document and pushes the Purchase order document to Requires Reapproval status pending approval from hierarchy
		• Changes the status of the Plan line from Revised to Ready To Order
		• The Implement Changes icon is disabled to indicate that the change is already propagated to the procurement document.

Analyzing Items for a Plan Line

Project buyers can analyze the item or service to confirm that the selected item or service is the best fit for the project requirement.

To analyze items for a plan line:

1. Navigate to the Item Analysis page using the following navigation: Buyer Command Center > Planning Documents region > Plan Lines tab > Actions from the dropdown menu

2. Select the applicable item or service.

3. Click the Analyze Item link to open the Item Analysis page. The Item Analysis page provides a summary of the procurement history of the item or service.

Analyzing Suppliers for a Plan Line

Project buyers can use the Supplier Analysis page to identify the best supplier or set of suppliers for a plan line using a large set of information made available to them. They can analyze the performance of a supplier using this page.

When you navigate to the Supplier Analysis page from a particular plan line using the Analyze Supplier action link available in the Plan Lines result region of the command center, the application carries over the context of the plan line to the Supplier Analysis page. The application automatically filters the suppliers based on the item or service, or description and category and displays suppliers who have supplied the item or service on the plan line in the past.

The Supplier Analysis page provides the performance and relationship summary for suppliers of this item or service. It displays all details about all the suppliers from whom the given item or service was ordered in the past. It provides quick insights into performance and relationship history of these suppliers. The metrics in the Supplier Analysis page for a given item or service shows how many active agreements, approved suppliers, and open orders the project buyer has for the item or service. These details enable project buyers to identify the correct procurement strategy for this item or service.

To analyze suppliers for a plan line:

1. Navigate to the Supplier Analysis page using the following navigation: Buyer Command Center > Planning Documents region > Plan Lines tab > Actions from the dropdown menu

2. Select the applicable item or service.

3. Click the Analyze Supplier link to open the Supplier Analysis page.

4. Analyze the comparative performance of the suppliers using the Compare action available on the right side of the Suppliers table in the Supplier Analysis page.

Selecting Existing Agreement as Source of Supply for Goods Lines

The buyer can identify the best suppliers based on a number of attributes such as their location, historical performance, number of years of relationship, total volume of relationship, their performance on negotiations, and other attributes like insurance, environmental compliance that the buying team maintains for the supplier. On identifying the list of most suitable suppliers, the application displays any active agreements available with those suppliers. If such agreements are available, then buyers can compare the agreements with the plan line by selecting the Compare Agreements with Plan Lines action.

The application makes it easier to identify the best possible agreement by visually indicating any potential problems with picking an agreement. For example, if the negotiated price on the agreement is higher than the amount budgeted on the plan line, or if the earliest need-by-date on the plan line is earlier than the lead-time on the agreement.

Buyers can compare each of the agreements with the plan line in context, and then add the chosen agreement as source of supply by clicking the Add as Source of Supply button.

If no agreements exist, or if the existing agreements do not suit the requirements of the plan line or project, then the buyer can initiate a new negotiation with these subset of suppliers. To accomplish this, select a set of suppliers and add them to the document builder using the Add to Document Builder action.

Creating and Publishing a Negotiation

Once you have identified the suppliers and added them to the document builder, you can initiate the negotiation creation process. Use the Document Builder to create and publish the negotiation.

Once the outcome document is created, the application populates the agreement number into the procurement plan line, along with the agreed amount, updated item ID, and item description. If the project buyer thinks that the total demand is satisfied, then they can change the plan line status to 'Ready to Order'. See: Updating Plan Lines

To create and publish negotiation for goods lines:

1. Click the Document Builder link available at the top of the Supplier Analysis page.
2. Add suppliers and plan lines to the document builder. You can add plan lines and suppliers to the document builder in the following ways:
   - Select Analyze Supplier on a particular plan line to open the Supplier Analysis

page in the context of a plan line. Select one or more suppliers in the suppliers' results table and use the Add to Document Builder action. The application adds the selected suppliers and the plan line in context to the document builder. The application displays a confirmation message informing you about the number of plan lines and suppliers added to the document builder. You can add more plan lines and suppliers by using the appropriate action from the buyer command center and Supplier Analysis page.

- Select one or more plan lines from the command center and use the Add to document builder action. The application adds the selected plan lines to the document builder.

- Select one or more suppliers from the Supplier Analysis page (when not in context) and use the Add to document builder action. The application adds the selected suppliers to the document builder.

3. In the Document Builder, specify the negotiation type and outcome document. By default, the New RFQ option is displayed if you add plan lines. When you add requisition lines, you can choose between New RFQ or New Order. When requisitions are in the document builder, by default the option is New Order.

   Note: The application displays the operating unit that is set in the MO: Default Operating Unit profile. All negotiation styles enabled for RFQ are available for you to select. The outcome documents can be of any style linked to the blanket purchase agreement document type. The Supplier Site and Contact list of values are similar to the values in the Sourcing Supplier tab. The application defaults Group Line Number using the document builder grouping rules. You can ungroup the grouped lines, or attempt to group lines that the auto-grouping logic of document builder did not pick up. Manual grouping of lines is subject to validations existing in the current document builder.

4. Click Cancel to go back to the page from where you launched the document builder.

5. Select Apply. This initiates a negotiation in Oracle Sourcing. You are taken to the draft Negotiation page and the application establishes the linkage to the negotiation line as a source of supply. From within Oracle Sourcing pages, enter other details for the negotiation and publish it. See: Oracle Sourcing Implementation and Administration guide and Oracle Sourcing User guide Note: For a negotiation that is in Draft status, you can add suppliers to the negotiation from the Sourcing pages using the Add Suppliers button. This brings you to the Supplier Analysis page. Analyze the suppliers, select them, and then add them using the Add to Negotiation action available on the right side of the Suppliers table in the Supplier

Analysis page. If you delete the negotiation line after creating it through the document builder, then the application removes the linkage of the negotiation line as a source of supply. During the award completion stage, the application updates the sources of supply when a particular negotiation line is awarded to a supplier (multiple suppliers).

To create and publish negotiation for services lines:

1. The Project Manager uploads the procurement plan and updates the status as Ready for Planning.

2. The buyer identifies the lead time and associates the lead time to plan line using the Source of Supply page, and updates the Update Procurement Plan action to update the status to Ready to Order.

3. The Project Manager now creates a requisition for the plan line.

4. The buyer now adds that requisition to the Document builder and creates a negotiation (RFQ) with the outcome document (Complex Purchase Order).

5. The Purchase Order is available from the Deliverables tab, where you can view any exceptions that might occur such as Deliverables Overdue or Invoices on Hold.

Comparing Suppliers and Awarding

Traditionally, offer comparison limits your analysis to the offer entered by the supplier. Oracle Project Procurement Command Center Plus allows you to compare suppliers based on their performance and relationship, and helps you take the right sourcing decision based on which supplier best meets the project's objectives, instead of just going by the best bid price. From the command center, it is easy to track the status of a negotiation. When a negotiation is closed, check if you have active offers, and navigate to the negotiation.

To compare suppliers and award:

1. In the buyer command center, look at Closed negotiations.

2. Review to see if suppliers have submitted offers

3. Navigate to the Procurement Documents region in the buyer command center.

4. Within the Negotiations tab, select Actions in the dropdown menu.

5. Select negotiations with Closed status and click View Negotiation link. This takes you to the Negotiation page.

6. Select the Award by Quote action to open the Award by Quote page.

7. Select multiple offers and select Compare Suppliers button in the Award by Quote page. This opens the Supplier Analysis page with the selected offers' suppliers pre-filtered.

8. Select the suppliers and click the Compare action.

9. After analyzing the suppliers, scroll-down and click Return to Previous page. This brings you back to the Negotiation page.

10. Select a supplier or multiple suppliers, if you want to split the award, and proceed to complete the award process. For information regarding the awarding process, see Awarding in different ways, Oracle Sourcing User guide.

Reviewing Sources of Supply

Once the contract has been awarded, the blanket agreement details automatically come in as sources of supply. You can review the sources of supply in the Planning Documents tab > Sources of Supply sub-tab of the buyer command center.

Updating Plan Lines

For plan lines with Ready for Planning and Ready to Order status, project buyers can update the buyer assigned to the plan line. Additionally, they can update the status of the plan lines from Ready for Planning status to Ready to Order status, when they are satisfied with the sources of supply selected for the plan line. The Project buyer can also update the status of the plan lines with the Revised status, when the buyer do not want to implement the changes of the plan line on to the downstream documents. Plan line status can be updated from Revised to either Ready for Planning or Ready to Order.

To update plan lines:

1. Scroll to the Planning Documents region in the buyer command center.

2. In the Plan Lines tab, select plan lines with Ready for Planning or Ready to Order or Revised status. You can select multiple lines.

3. Select Update Procurement Plan action.

4. For the plan lines in Ready for Planning status, update the status by selecting Ready to Order from the drop down list in the Update Procurement Plan Lines page and click Apply to indicate that the planning exercise for the selected plan lines is completed.

5. For the plan lines in Revised status, update the status by selecting either Ready for Planning or Ready to Order from the drop down list in the Update Procurement Plan Lines page and click on Apply to indicate that the planning exercise for the

selected plan line is completed.

6. Update the buyer to assign a different buyer or reassign the selected plan lines to yourself and click Apply. Buyer can be any active buyer enabled in the operating unit accessible to the project buyer updating the procurement plan status. If you leave either the Status or Buyer field blank, then the application leaves it blank for the selected plan lines. On selecting a status or a buyer or both, the application updates all selected plan lines with the specified value. It displays a confirmation message and returns the control back to you.

7. If you click Add More Lines, then the application takes you back to the command center where you can select more plan lines and click Update Procurement Plan action.

8. If you click Cancel, then the application removes the lines and they do not re-appear unless you select those lines again to be added back to this page.

9. If you remove all records, then the application disables the Apply button.

Creating Sources of Supply

Project buyers can directly specify sources of supply on plan lines after finalizing the supplier for an item or service. You can select one or more plan lines with Ready for Planning and Ready to Order status.

There can be situations where multiple sources of supply get attached to a procurement plan line. It is the buyer's prerogative to ensure that the sources of supply are current and valid. Multiple sources of supply can come in when one agreement is to be used for base-load and another for peak-load. The application differentiates the agreements using the effective dates of the agreements.

To create sources of supply:

1. Scroll to the Planning Documents region in the buyer command center.

2. Select plan lines with Ready for Planning and Ready to Order status. You can select multiple lines.

3. Select Create Sources of Supply action.

4. Enter the following in the Create Sources of Supply page:

   - Agreement number: The list of values displays all the global blanket purchase agreements (GBPA) available in a given operating unit. If you select a GBPA, then the application populates the Supplier field automatically.

   - Agreement Line Number: Lists all agreement lines for the selected GBPA.

Additionally, the list of values displays item description, price and validity date for each agreement line. If lead time is specified in the GBPA line, then the application populates it. The application defaults the effective from-and-to dates from the GBPA.

- Supplier: If agreement number is specified, then the application populates the Supplier field and you cannot update it. Otherwise, you can enter the supplier name.
- If all selected plan lines have the same inventory item with same description and category, then the application enables the agreement/agreement line number.
- Lead time: Any positive integer value. The application uses the lead time that you specify here later to prompt the project manager to create requisitions. It calculates the order-by-date by subtracting the lead time from need-by-date, and alerts the project manager if requisitions are not created by the order-by-date.
- Effective From / To: Applicable dates (application does not time stamp). Effective dates signify the validity of the source-of-supply line. If a source of supply is valid and effective when the project manager creates requisition, then the application stamps the blanket agreement identified as source of supply on to the requisition. The negotiated price flows from the blanket agreement to the requisition line. If multiple sources of supply are effective for a single plan line at the same time, or if no sources of supply exist, then the application creates requisitions without blanket agreement reference.

  The Current Sources column lists the number of sources of supply existing for the line. If it is non-zero, then a pop-up window appears on mouse-over to display the details of the sources of supply.

5. Click Apply. You can review the sources of supply in the Planning Documents tab > Sources of Supply sub-tab of the buyer command center. See: Reviewing Sources of Supply.
6. If you remove all records, then the application disables the Apply button.

   Note: The application enables the Agreement Number field only if all plan lines added are for the same inventory item, or for description-based items for the same category. Otherwise, you can enter only supplier and lead-time. If plan lines are for an inventory item, then the Agreement list of values displays only those blanket agreements that have at least one active agreement line for the same inventory item. If plan lines are for description based item, then the Agreement list of values displays only those agreements that have at least one active agreement for the same purchasing category. In cases where the lead-time and effective dates default from the agreement/agreement line, the buyer can change these values.

Updating Sources of Supply

Project buyers can update the sources of supply for items or services. They can choose one or more sources of supply and either delete the sources or update them.

Note: You can only update the Source of Supply for goods lines.

To update sources of supply:

1. Scroll to the Planning Documents region in the Buyer command center.
2. In the Sources of Supply sub-tab, select one or more items or services.
3. Select Update Sources of Supply action available in the Actions option on the right side of the Sources of Supply table.
4. Enter applicable details in the Update Sources of Supply page and click Apply.

   Note: If plan lines are for an inventory item, then the agreement list of values displays only those blanket agreements that have at least one active agreement line for the same inventory item. If plan lines are for description based item, then the agreement list of values displays only those agreements that have at least one active agreement for the same purchasing category. If you select an agreement number, then the application defaults the supplier and you cannot update it. In cases where the lead-time and effective dates default from the agreement/agreement line, the buyer can change these values.

5

Analyzing Items and Suppliers

The chapter describes the Item and Supplier Analysis pages and highlights the decisions that project managers and buyers can make using these pages.

This chapter covers the following topics:

- Analyzing Items
- Analyzing Suppliers

Analyzing Items

Project managers and buyers can analyze items or services to procure for a project using the Item Analysis page. The Item Analysis page is centered upon items that have been ordered for a project in the past. It brings in historically segregated, structured, and unstructured data from purchasing document attachments about the item and makes it available to you in a way that enables quick decision making.

Item Analysis page provides additional information to the buyer and project manager when they need to analyze the items or services assigned to a procurement plan line. When they click on Analyze Item for a plan line, the application carries the context of the plan to the Item Analysis page and pre-filters the page with the item or service number and description. If the page is accessed directly from the menu, no automatic filters are applied. This page provides all the current and historical procurement information of items in one page.

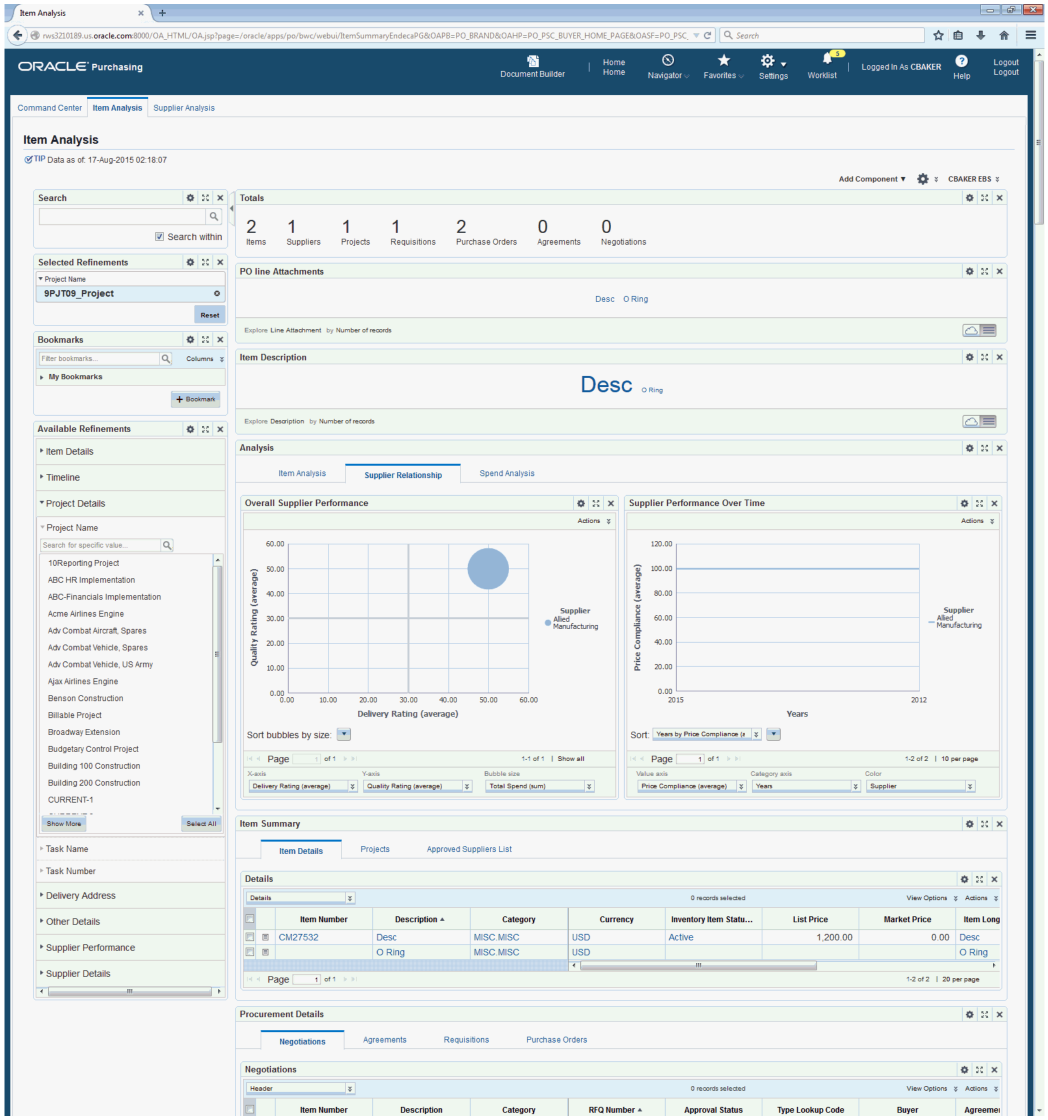
Project managers or buyers can assess the risk of procuring an item or service by looking at past history. For example, if an item or service has had quality issues in the past, they can anticipate that they might probably encounter quality issues in the future. Additionally, the Item Analysis page displays availability information and provides insight into other projects that have procured or planning to procure a given item or service. The Search functionality in this page enables the project team to find an item or service by entering keywords as textual content from attachments is also available for search. The consolidated information regarding items enables the project manager or buyer to determine if they are buying the right item or service, if there are viable alternatives, determine most appropriate budget for the item or service, and determine the procurement strategy based on historical and future demand.

Buyers and project managers can also see the current procurement status of an item or service, including which projects have ordered the item or service and any existing agreements or suppliers of the item or service and how much has been spent or is committed to be spent on the item.

Project managers can access the page by clicking on Analyze Item from Procurement Plan, Plan Line tab. Project buyers can access the page by clicking on Analyze Item from buyer command center. Additionally, they can directly access the page from the Item Analysis menu.

Item Analysis Page Details

This page provides additional information to the project manager and buyer when they need to analyze the items assigned to a procurement plan line.



Heading Region

This region displays the date and time stamp of the last ETL update.

Search Region

The Search component allows you to submit keyword searches and provides type-ahead suggestions displaying attribute values that match the typed text. When you perform a search, the search term is added to the Selected Refinements component. As you type, you may be prompted to select a matching attribute value, or simply search for the entered text.

Selected Refinements Region

The Selected Refinements component displays all values that you have selected to filter data, and allows you to quickly make adjustments to the current refinement by removing items or clearing all filters from the list.

Bookmarks Region

The Bookmarks component allows you to save a given navigation and component state and return to it at a later time.

Available Refinements Region

The Available Refinements component allows you to filter data based on the currently available values or value ranges for selected attributes that are displayed within attribute groups. Expand the attribute groups to view and select attribute names.

Totals Region

This region displays the following metrics based on the filters applied on the page:

Metric	Metric Display Title	Description
Totals	Items	Total number of items represented in the current view
Totals	Suppliers	Number of suppliers who supplied the item in the past
Totals	Projects	Number of projects for which the item has been procured, or is being planned
Totals	Requisitions	Number of requisitions in which the item is referenced
Totals	Purchase Orders	Number of purchase orders in which the item is referenced
Totals	Agreements	Number of agreements in which the item is referenced
Totals	Negotiations	Number of negotiations in which the item is referenced

PO Line Attachments and Item Description Region

This region displays the item or service description and PO line level attachments.

Analysis Region

This region displays the following charts and graphs:

Tab	Chart Title	Details
Item Analysis	Trend Analysis - Total Spend Vs. Off Contract	Total spend refers to the sum of purchase order line amounts. Off contract spend refers to those purchase order lines which do not have BPA/CPA reference. The graph only renders when there is a single value for currency code chosen either explicitly or implicitly.
Item Analysis	Trend Analysis - Average Lead Time	This value is derived from agreement lines, and is converted to days as the UOM. This is the default Trend graph.
Item Analysis	Trend Analysis - Average Price	This value is derived from unit price on purchase order lines. The graph only renders when there is a single value for currency code chosen either explicitly or implicitly.
Supplier Relationship	Overall Supplier Performance	X-Axis: On-time delivery rating (default) / quality rating / price compliance rating Y-Axis: Quality rating (default) / on-time delivery rating / price compliance rating Bubble size: Total spend (OU functional currency) The application does not display this chart when there are multiple functional currencies.

Tab	Chart Title	Details
Supplier Relationship	Supplier Performance – Price Compliance (average)	Please refer to Analyzing Suppliers, page 5-9 for calculation of price compliance. Each supplier is a line with a different color.
Supplier Relationship	Supplier Performance - Quality Rating (average)	Please refer to Analyzing Suppliers, page 5-9 for calculation of quality rating. Each supplier is a line with a different color.
Supplier Relationship	Supplier Performance - On Time Delivery Rating (average)	Please refer to Analyzing Suppliers, page 5-9 for calculation of on-time delivery rating. Each supplier is a line with a different color.
Supplier Relationship	Items Supplier Analysis - Number of Items by Supplier	Shows number of distinct items supplied by suppliers. Clicking on a supplier drills down to the supplier sites. The graph only renders when you choose a UOM value, either implicitly or explicitly.
Spend Analysis	Total Spend Spread - Total Spend by Category	Split total spend data by item categories. This is the default Spend Analysis graph. The graph only renders when there is a single value for currency code chosen either explicitly or implicitly.
Spend Analysis	Total Spend Spread - Total Spend by Deliver to Location	Split total spend by deliver to location on purchase order shipments. The graph only renders when there is a single value for currency code chosen either explicitly or implicitly.

Tab	Chart Title	Details
Spend Analysis	Total Spend Spread - Total Spend by Item Description	Split total spend by item description (comprises both inventory items and description based items). The graph only renders when there is a single value for currency code chosen either explicitly or implicitly.
Spend Analysis	Total Spend Spread - Total Spend by Supplier	Split total spend by supplier name. The graph only renders when there is a single value for currency code chosen either explicitly or implicitly.
Spend Analysis	Contract Vs Off Contract Spend Spread Contract Spend, Off Contract Spend by Category	Total spend refers to the sum of purchase orders line amounts. Off contract spend refers to those purchase order lines which do not have BPA/ CPA reference. The graph only renders when there is a single value for currency code chosen either explicitly or implicitly. The x-axis shows the category code, and Y axis is the stack comprising contract and off contract spends.

Item Summary Region

This region displays a summary of the item or service within the following tabs:

- The Item Details tab

  This tab displays the following information from the column set drop down menu:

  - The Details option displays relevant details as captured in the Item Master. All the attributes are existing fields in Item Master definition. For non-inventory items, the application populates only Item Description, Category, and List Price columns.

  - The Price and Spend option displays currency, unit price details, total spend with and without BPA/CPA reference and the sum of contract and off contract spend.

- The Quantity Summary option displays the sum of currently available (available to reserve) quantities across inventory organizations accessible to the project manager and buyer, the sum of overdue quantities on purchase orders that are open for receiving overdue, the sum of net ordered quantity ((quantity ordered – quantity cancelled) – total delivered quantity) across all open purchase order lines, and the sum of ordered quantities across all approved requisitions that have not been placed on a purchase order yet.

- The Procurement Documents option displays the negotiations, requisitions, agreements, and purchase orders applicable to the selected item.

- The Lead Time option displays the lead time details for the selected item.

- The Projects tab displays the summary of the projects for which the item or service has been planned or ordered.

- The Approved Suppliers List tab displays the approved suppliers for the selected item or service and enables the project manager and buyer to analyze the suppliers using the Action drop down menu.

Procurement Details Region

This region displays details of all purchasing documents where the item or service is referenced at least once in any of the following document lines:

- Negotiation
- Agreements
- Requisitions
- Orders

Select Actions in the column set drop down menu and view these purchasing documents from the respective sub-tabs. Project managers can only view these documents. Project manager's access to these documents is based on the access rules governed by the prevailing Oracle Purchasing setup and responsibilities assigned to the project manager. Project buyers can edit or take action on the individual purchasing documents based on the access restrictions set up within Oracle Purchasing and the responsibilities assigned to the buyer.

Actions in Item Analysis

Project managers and project buyers can perform the following action while analyzing the items or services:

- Compare two or more items or services using the Compare action available on the right side of the Item Details table.

Additionally:

- Project managers can compare and replace an item or service with the item or service specified on the procurement plan using the Compare with Procurement Line action available on the right side of the Item Details table. Replace item or service is possible only when the plan line is in draft status. Project managers can replace an item or service only with another item or service in the same purchasing category. They need to manually change the quantity and planning rate of the replaced item or service, if required. Where there is no match (for item number, description, and category) or where the budget exceeds what's on the plan line, or where the earliest need-by-date cannot be met by the lead-time, the application uses an alert icon to catch your attention to the potential problem of replacing the item. See: Analyzing and Replacing Items to Procure, page 3-23.

- Project buyers can compare an item with the item specified on the procurement plan for analysis purposes using the Compare with Procurement Line action available on the right side of the Item Details table. See: Analyzing Items for a Plan Line, page 4-31.

Analyzing Suppliers

Project managers and buyers can analyze suppliers who can supply items or service for a project using the Supplier Analysis page. The Supplier Analysis page is based upon suppliers, bringing in data sources from multiple modules together in one page to help gain insight about the performance of the supplier, the relationship your organization has with the supplier, and how one supplier compares to others.

Historical procurement information provides great insight into the on-time delivery, quality and price-compliance trends of the supplier, and also provides quick summary of the relationship your organization has had with the supplier. If you have installed Oracle Supplier Lifecycle Management or Oracle Supplier Hub and have configured user defined attributes for suppliers, then the powerful search and filtering features of Oracle Information Discovery make it easy to find the right supplier using all the extensive information you have collected about the supplier, such as insurance, environmental compliance, financial stability, or quality maturity information. You can be sure you are selecting the best suppliers when you use the analysis page to investigate each supplier's history. Buyers and project managers can also see the current status of a supplier, including which projects have orders, negotiations or any existing agreements with a supplier, how much has been spent or is committed to be spent with the supplier and how well the supplier has performed with regards to supplying the ordered items or services.

Project managers can access the page by clicking on Analyze Supplier from Procurement Plan, Plan Line tab. Project buyers can access the page by clicking on Analyze Supplier from buyer command center and Add Supplier from RFI/RFQ Invited Suppliers page. They can directly access the page from the Supplier Analysis menu. Additionally, project buyers can access this page as follows:

- From within Oracle Sourcing, buyers can invoke the new Supplier Analysis page to select a set of eligible suppliers that meets the Sourcing event's eligibility criteria.

- From Offer Comparison and Evaluation pages, the advanced supplier search pages are accessible to compare supplier's performance based on selected parameters and buyers can choose the most suitable supplier. When project managers access the Supplier Analysis page using this option, the Supplier Analysis page is pre-filtered for the list of suppliers whose offers are being compared.

- From Supplier Search pages within Supplier Management Administrator / User flows.

Essentially, the Supplier Analysis page offers a dashboard to the Supplier Management User, providing the following:

- Ability to receive alerts that needs the supplier manager's attention for example, when a payment hold is placed on a supplier.

- Ability to refer to historical Supplier Performance data – on quantitative as well as qualitative aspects.

- Quantitative aspects are measured from transaction data. The following are considered in the current release:

    - On-time delivery performance

    - Quality performance (inspection / delivery rejections)

    - Price compliance (variance between Agreement / PO Price Vs invoice price)

- Ability to search through seeded and user-defined attributes to satisfy complex search requirements. Ability to bookmark these so that they can be easily accessible in the future.

- Ability to select suppliers from the result list, notify them or create RFx directly from this page.

Supplier Analysis Page Details

This page provides additional information to the project manager and buyer when they need to analyze information about the suppliers who can fulfill orders for a procurement plan line.

Heading Region

This region displays date and time stamp of the last ETL update.

Search Region

The Search component allows you to submit keyword searches and provides type-ahead suggestions displaying attribute values that match the typed text. When you perform a search, the search term is added to the Selected Refinements component. As you type, you may be prompted to select a matching attribute value, or simply search for the entered text.

Selected Refinements Region

The Selected Refinements component displays all values that you have selected to filter data, and allows you to quickly make adjustments to the current refinement by removing items or clearing all filters from the list.

Bookmarks Region

The Bookmarks component allows you to save a given navigation and component state and return to it at a later time.

Available Refinements Region

The Available Refinements component allows you to filter data based on the currently available values or value ranges for selected attributes that are displayed within attribute groups. Expand the attribute groups to view and select attribute names.

Suppliers Region

This region displays the supplier metrics under the following headings:

- Suppliers: Total number of unique suppliers in the result list based on filters applied.
- Approved Suppliers: Total number of suppliers who appear in the approved supplier list for at least one item or service/ category..
- On-hold suppliers: Total number of suppliers who have at least one active hold (hold all payments, hold all purchase orders etc).
- Active agreements: The number of blanket / complex purchase agreements which are currently active for the suppliers.
- Orders - total number of orders issued to all the selected suppliers.
- Change requests - total number of supplier initiated change orders (all statuses).
- Ordered items - total number of unique items ordered from the selected list of suppliers.

Supplier Analysis Region

This region displays the following charts and graphs:

Tab	Chart Title	Details
Performance	Supplier Performance	X-Axis: On-time delivery rating (default) / quality rating / price compliance rating Y-Axis: Quality rating (default) / On-time delivery rating / price compliance rating Bubble size: Total spend (OU functional currency) Chart does not display data when there are multiple functional currencies.
Relationship	Holds by Supplier	Number of holds by hold type, by supplier.
Relationship	Supplier's Geographic Distribution	Number of suppliers by country. If a particular supplier is selected, then drill down is enabled to the supplier state.
Approved Supplier Lists	Approved and Local Suppliers	Shows total spend on the project split by approved versus unapproved suppliers (ASL) or by local versus non-local suppliers (supplier country versus task location) by period. Chart does not display data when there are multiple functional currencies.
Approved Supplier Lists	Number of Suppliers by Product Services	Number of suppliers by products and services category.

Tab	Chart Title	Details
Procurement History	Spend by Supplier	Contract versus off-contract spend by currency by supplier. Chart does not display data when there are multiple functional currencies.
Procurement History	Spend Trend	Contract versus non-contract spend by currency and need-by-date, each supplier is a line with a different color. Chart does not display data when there are multiple functional currencies.
Change Request Trend	Change Request Trend	Number of change requests by year, supplier.

Supplier Information Region

This region displays supplier information within the following tabs:

- The Supplier tab in this region provides an overview of the supplier and the performance details. Additionally, project managers and buyers can view the detailed information of the supplier. Project buyers can add the selected supplier as source of supply only if they navigate to this page from the command center where they need to analyze supplier for a plan line and then add as source of supply.

- The Relationship tab in this region displays the active purchase orders, blanket purchase agreements, and negotiations. Additionally, it displays holds applied on active documents, total count of orders, total spend, number of negotiations in which a selected supplier participated, negotiations in which the selected supplier was awarded, average spend per year, receipt and use details.

- The Addresses tab in this region displays address details of the selected supplier.

- The Projects tab displays the projects for which the supplier is associated to a purchasing document. The Approved Supplier List displays the ASL approval status, item, supplier category, and manufacturer details of approved suppliers.

Documents Region

This region displays details of the following purchasing documents associated with the suppliers:

- Purchase Orders
- Agreements
- Negotiations (to which the suppliers have been invited)

Select Actions in the column set drop down menu and view these purchasing documents from the respective sub-tabs. Project managers can only view these documents. Project buyers can view the negotiation, proceed to compare, and award the suppliers. See: Comparing Suppliers and Awarding, page 4-34.

See: *Oracle Procurement Command Center Plus Process Guide* for more details

Actions in Supplier Analysis

Project managers and project buyers can perform the following action while analyzing the suppliers:

- Compare two or more suppliers using the Compare action available on the right side of the Supplier Details table. The comparison enables you to view the supplier performance in terms of on-time delivery rating, quality rating, price compliance rating, order count, total spend, blanket purchase agreements, negotiations awarded, and participated negotiations.
- Compare two or more agreements using the Compare action available on the right side of the Agreements table.
- Select one or more agreements and compare with the plan line in context using the Compare with Demand action available on the right side of the Agreements table. When no plan line exists in context, the application displays an error. The basic requirement for comparison are as follows:
  - If the plan line has an inventory item, comparison is possible only with agreement lines of the same item.
  - If the plan lines has a description-based item, comparison is possible only with description-based agreement lines of the same category.
  - If the agreement is inactive, or if there's a problem in adding the agreement line as source-of-supply, then the application displays an appropriate error message.
  - If you do not want to retain the context of the plan line, then you can click Remove to remove the plan-line context.
  - The Create Source of Supply action is available only to the project buyer. Buyers can click the '+' icon which takes them to the Create Source of Supply page for the plan line, where all information is defaulted. Click Apply or make

applicable changes and then click Apply.

Additionally, project buyers can perform the following actions:

- Add as Supplier to Negotiation - When a buyer navigates to the Supplier Analysis page while using the Add Supplier feature during negotiation creation, they can select one or more suppliers and add them to the negotiation. Clicking on the action adds the selected suppliers to the negotiation and the application displays a confirmation message. Clicking on Return to Previous Page link takes you back to the Negotiation Suppliers page. If you add a supplier who is already added to the negotiation, then the application displays a note indicating the situation. You cannot add suppliers to a negotiation without any negotiation context.

- Add to Document Builder - Using this action, you can add one or more suppliers to the document builder. When you perform this action with a plan line in context, the application adds the plan line to the document builder along with the selected suppliers. If you add a supplier who is already added to the negotiation, then the application displays a warning message. You can add suppliers to the document builder from the Invite Suppliers page using the Add to Invite List action available on the Supplier Overview page.

- Add to Negotiation - You can add a plan line to a draft negotiation using this action. The application groups the additional quantity arising out of this plan line with the selected negotiation line, and establishes a link between the plan line and negotiation line.

6

Monitoring Procurement Execution

The chapter discusses examples that demonstrate how project managers and buyers can use Oracle Project Procurement Command Center Plus to monitor the progress of project procurement and ensure that the project is insulated from various procurement delays and issues.

This chapter covers the following topics:

- Reviewing Procurement Status
- Reviewing Exceptions
- Insulating Project Schedule from Material Delivery Delays
- Keeping Project On-Track by Monitoring Material Availability
- Ensuring that Project Strategic Objectives are Met

Reviewing Procurement Status

Reviewing the procurement status enables you to quickly identify project risks, make a decision and take the appropriate action. The regions display the various status data that helps you in making effective decisions to meet the project's objectives.

The charts on the project manager's command center indicate the current status for the project. You can see how much quantity has been requested, ordered, received, and invoiced for each task or for each calendar period. You can see the status of plan lines and negotiations. You can see where you have incurred unplanned spend and the status of procurement for each task.

See: Viewing Procurement Planning Information and Metrics, page 3-12 and Reviewing Project Procurement Plan, page 4-3 .

Reviewing Exceptions

Review alerts to find potential problems and take corrective action. The conditions causing the alert must be resolved in order for the alert to be disabled. Alerts display:

- Items with delayed shipments. Through this alert, suppliers have indicated that the items are going to be received later than the need-by-date.
- Items past need-by-date but not received yet. This alert indicates that the items have not been received on-time.
- Items past order-by-date but not ordered. This alert indicates that any further delay in submitting requisitions could potentially cause delivery delays.
- Progress Payments Overdue. This exception indicates Service Lines with delayed progress reporting (Progress not yet processed).
- Invoices on Hold. This exception indicates invoices created for the Projects that are put on hold due to non receipt of the deliverables.
- Deliverables Overdue. This exception indicates deliverables with the due dates earlier than the system date for the Project.

Exceptions help you view and assess the problems and exceptions on the project before they actually cause schedule delays or wastage. Click on these exceptions to see the plan lines with an exception, and quickly resolve the problems even before they occur.

See: Viewing Procurement Planning Information and Metrics, page 3-12 and Reviewing Project Procurement Plan, page 4-3 .

Insulating Project Schedule from Material Delivery Delays

Use the exceptions to avoid project delays due to procurement issues. Through the Exceptions region, the Promised Date field in the Orders region, and Scheduled Start Date field in the Task region, you can view when a given task is at risk if material is not received by the expected date. For example, if the supplier indicates there will be a delivery delay on an item by submitting a change request, and you see that the promised date has been pushed by a month, but your task needs the material this month, you know there is a likely delay and you can take steps to correct it.

One of the ways you can resolve this is by reviewing the status of other projects that need the same material, using Item Analysis page. In this case, you find another project in the same area which has recently received this material, but they do not need the material until next month. You could possibly talk to the project manager and see if you can request their material in the interim. Of course, this case depends on the kind of contract you have with the customer.

Keeping Project On-Track by Monitoring Material Availability

Oracle Project Procurement Command Center Plus enables project managers and buyers keep the project on track by monitoring material availability.

For example, you have a task that needs to start next month, but all material is not received and the supplier is unable to deliver the material on-time and has indicated a month's delay. Assume that it is not possible to get the material for this task through alternative means; you can push the task into the future until the material is delivered. However, before you do that, you may want to check if there are any other tasks that have all the material needed, by expanding the search, for example increasing the time to search within. The search results will indicate if the tasks have all the material they require using the available resources. You can swap tasks by performing the Update Multiple Tasks action to use the material you partially received for the original task.

The search results display that task 1.2.4 has all the material it needs and it can be accomplished with the same resources as 1.1.2.

In this example, you can swap these tasks by performing a task update using the Update Multiple Tasks action.

Ensuring that Project Strategic Objectives are Met

Project managers and buyers can use the charts and metrics in the command centers or the analysis pages to measure if the procurement decisions are in-line with the strategic objectives. If the project's objective is to procure from local suppliers, then you can quickly see how far you have achieved that objective by viewing the Approved, Local Suppliers chart.

If the objective is to reduce unplanned spend, then you can monitor that on a daily basis using the Unplanned Orders chart.

If the objective is to reduce supplier's delivery lead-time to ensure lean processes or to reduce material / service variety by buying more of what has been bought before, then you could measure that too.

These charts enable you to measure how well project managers and buyers are making decisions or taking actions that promote the strategic objectives set out for the project.

A

Using Interface Tables

Interface Table Columns: Description and Validations

Overview

Oracle Project Procurement Command Center Plus enables you to create or update a procurement plan and specify a delivery schedule for the items and services associated with the plan lines. Use the interface tables or spreadsheet import to transfer data to the system.

For more information on spreadsheet import, see the appendix: Using Spreadsheets to Create and Update Procurement Plans., page B-1

This appendix describes the interface tables and the columns that are used to create or update a procurement plan with it's associated header, lines, schedules, and progress payment elements.

You can create plan lines with a status of Draft or Ready for Planning, either from the interface, or by using the XML spreadsheet. Note that you cannot update the status of a plan line that is Draft to Ready for Planning, using the interface or the spreadsheet. If plan lines are created as draft lines, the only way to update the status is from the Project Manager dashboard.

After you populate the interface tables, the script runs the Procurement Plan Import (POPROCIMP) concurrent program automatically and returns the concurrent request ID.

Navigate to the **Concurrent Program** window or the **Procurement Plan** page to see if the upload succeeded.

If this program fails, the status Complete-Error appears in the **Procurement Plan** page. Use the **Request Number** link to check the list of errors and perform corrective action. Additionally, you can check for errors using l_interface_txn_id:

```
SELECT * FROM PO_INTERFACE_ERRORS WHERE
INTERFACE_TRANSACTION_ID=l_interface_txn_id ;
```

Using the Interface Tables to Complete Your Tasks

The following table encapsulates your most frequently performed tasks, that you could accomplish using the interface tables. The table provides some assistance that helps you determine how to use the interface tables in common scenarios or situations:

To accomplish the following task...	PO_PROC_PLAN_HDR_INTERFACE	PO_PROC_PLAN_LINE_INTERFACE	PO_PROC_PLAN_PRD_INTERFACE	PO_PROC_PLAN_PROG_INTERFACE
Creating a procurement plan for a project that does not have a procurement plan yet.	Insert one record into this table for the project.	Insert as many records as you have plan lines.	If the plan line has a line type whose value basis is Quantity or Amount, create one record per schedule for each plan line.	If the plan line has a line type with a value basis of Fixed Price, create one record per pay item for each plan line.
Adding new procurement plan lines to a project that has a procurement plan.	Do not insert any records unless a header attribute needs to be changed or updated.	Same as above.	Same as above.	Same as above.
Changing an existing plan line on a procurement plan.	Do not populate this table.	Insert a record for each plan line that needs to be updated.	Same as above. If no change is required for schedules, do not populate this table.	Same as above. If no change is required for progress payments, do not populate this table.
Changing one or more schedules on a plan line, with no modifications to the plan line.	Do not populate this table.	Insert a record for each plan line that needs to be updated.	Insert updated data for all schedules. Re-populate schedules that do not need to be changed, because all the previous schedule data will be lost.	Insert updated data for all progress payments. Re-populate progress payments that do not need to be changed, because all the previous progress payment data will be lost.

Sample Script to Insert Data

Use the following sample script to insert data into the interface tables and call the public API to create the procurement plan. This script assumes that the project is effective for duration of one year. Based on the effective dates of the project, the number of rows to be inserted into po_proc_plan_period_req would change. Ensure you modify the task number and expenditure types needed for the project procurement plan to insert the proper data.

```
 DECLARE
  x_return_status    VARCHAR2(1);
  l_request_id       NUMBER;
  l_batch_id         NUMBER := 1;
  l_errbuf           VARCHAR2(100);
  l_retcode          VARCHAR2(1);
  l_interface_txn_id NUMBER;
  CURSOR c_batch IS
    SELECT Max(batch_id) + 1
    FROM   po_proc_plan_hdr_interface;

l_project_name VARCHAR2(120) := 'CALICUT METRO';
l_project_id   NUMBER;
l_org_id       NUMBER;
l_start_date   DATE;
l_end_date     DATE;
CURSOR c_project_id IS
  SELECT project_id,
         Nvl(start_date, Nvl(scheduled_start_date,SYSDATE-1))
start_date,
         Nvl(completion_date,Nvl(scheduled_finish_date,SYSDATE+1))
end_date
  FROM   pa_projects_all
  WHERE  name = l_project_name;

l_task1 VARCHAR2(120) :='1.1.1';
BEGIN
  po_proc_plan_pub.Apps_initialize(1, 'SERVICES', 'Projects SU, Vision
Services (USA)', 458);
  mo_global.Set_policy_context('S',458 );
  --MO_GLOBAL.SET_ORG_CONTEXT('204','','PA');
  OPEN c_batch ;
  FETCH c_batch
  INTO  l_batch_id;

  CLOSE c_batch;
  OPEN c_project_id ;
  FETCH c_project_id
  INTO  l_project_id,
        l_start_date,
        l_end_date;

  CLOSE c_project_id;
  l_org_id := fnd_global.org_id;
  /*insert into header interface*/
  INSERT INTO po_proc_plan_hdr_interface
              (
                          plan_start_date,
                          plan_end_date,
                          plan_name,
                          project_name,
                          org_id,
                          batch_id,
                          project_id,
                          lock_update_date
              )
              VALUES
              (
                          '01-FEB-2017',
                          '31-MAR-2018',
                          l_project_name,
                          l_project_name,
                          l_org_id,
                          l_batch_id,
                          l_project_id,
                          sysdate
```

```
);

  /*insert into line interface*/
  /* Insert the Goods line */
  INSERT INTO po_proc_plan_line_interface
              (
                          line_number,
                          line_type,
                          category,
                          item_number,
                          description,
                          status,
                          buyer,
                          suggested_supplier,
                          priority1,
                          priority2,
                          priority3,
                          additional_information,
                          expenditure_type,
                          planning_currency_code,
                          planning_rate,
                          uom,
                          batch_id,
                          project_id,
                          plan_name,
                          src_sys_name,
                          src_sys_doc,
                          src_sys_doc_ver,
                          src_sys_line_number,
                          src_sys_line_ver,
                          src_sys_date,
        ATTRIBUTE_CATEGORY,
       ATTRIBUTE1,
       ATTRIBUTE2,
       ATTRIBUTE3,
       ATTRIBUTE4 ,
       ATTRIBUTE5 ,
       ATTRIBUTE6 ,
       ATTRIBUTE7 ,
       ATTRIBUTE8 ,
       ATTRIBUTE9 ,
       ATTRIBUTE10 ,
       ATTRIBUTE11 ,
       ATTRIBUTE12 ,
       ATTRIBUTE13 ,
       ATTRIBUTE14 ,
       ATTRIBUTE15 ,
       ATTRIBUTE16 ,
       ATTRIBUTE17 ,
       ATTRIBUTE18 ,
       ATTRIBUTE19 ,
       ATTRIBUTE20 ,
       TECH_SPEC_URL,
       ITEM_ID
              )
              VALUES
              (
                          7,
                          'Goods',
                          NULL,
                          'AS72111',
                          NULL,
                          'Draft',
                          'Stock, Ms. Pat',
                          'Advanced Network Devices',
                          'Approved Supplier',
```

```
'Location',
                                'Price Compliance',
                                NULL,
                                'Construction',
                                'USD',
                                720,
                                'Each',
                                l_batch_id,
                                l_project_id,
                                l_project_name,
                                'CAD',
                                'REQ-004/16-17',
                                7,4,7,
                                to_date('2016-05-14 00:00:00','YYYY-MM-DD
HH24:MI:SS'),
          NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL,
       NULL,
       NULL,
       NULL,
       NULL,
       NULL,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       'www.oracle.com',
       NULL
              );

  /* Insert the fixed price line */
  INSERT INTO po_proc_plan_line_interface
              (
                                line_number,
                                line_type,
                                category,
                                item_number,
                                description,
                                status,
                                buyer,
                                suggested_supplier,
                                priority1,
                                priority2,
                                priority3,
                                additional_information,
                                expenditure_type,
                                planning_currency_code,
                                planning_rate,
                                uom,
                                batch_id,
                                project_id,
                                plan_name,
                                destination,
                                src_sys_name,
                                src_sys_doc,
                                src_sys_doc_ver,
```

```
src_sys_line_number,
                          src_sys_line_ver,
                          src_sys_date,
        ATTRIBUTE_CATEGORY,
       ATTRIBUTE1,
       ATTRIBUTE2,
       ATTRIBUTE3,
       ATTRIBUTE4 ,
       ATTRIBUTE5 ,
       ATTRIBUTE6 ,
       ATTRIBUTE7 ,
       ATTRIBUTE8 ,
       ATTRIBUTE9 ,
       ATTRIBUTE10 ,
       ATTRIBUTE11 ,
       ATTRIBUTE12 ,
       ATTRIBUTE13 ,
       ATTRIBUTE14 ,
       ATTRIBUTE15 ,
       ATTRIBUTE16 ,
       ATTRIBUTE17 ,
       ATTRIBUTE18 ,
       ATTRIBUTE19 ,
       ATTRIBUTE20 ,
       TECH_SPEC_URL,
                            ITEM_ID
              )
              VALUES
              (
                          8,
                          'Fixed Price Services',
                          'EQUIPMENT.00',
                          NULL,
                          'Design, Installation and Commissioning of
Boiler',
                          'Draft',
                          'Stock, Ms. Pat',
                          'Advanced Network Devices',
                          'Approved Supplier',
                          'Location',
                          'Price Compliance',
                          NULL,
                          'Construction',
                          'USD',
                          450000,
                          NULL,
                          l_batch_id,
                          l_project_id,
                          l_project_name,
                          'Expense',
                          'CAD',
                          'REQ-004/16-17',
                          7,4,7,
                          to_date('2016-05-14 00:00:00', 'YYYY-MM-DD
HH24:MI:SS'),
             NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL,
       NULL,
       NULL,
       NULL,
       NULL,
       NULL,
       NULL ,
```

```
NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       'www.oracle.com',
       NULL
              );

  /*insert into period table for the Goods line*/
  INSERT INTO po_proc_plan_prd_interface
              (
                          schedule_number,
                          line_number ,
                          task_number ,
                          location ,
                          need_by_date,
                          quantity,
                          batch_id,
                          project_id,
                          plan_name,
                          period_sequence,
                          cost_code,
        ATTRIBUTE_CATEGORY,
       ATTRIBUTE1,
       ATTRIBUTE2,
       ATTRIBUTE3,
       ATTRIBUTE4 ,
       ATTRIBUTE5 ,
       ATTRIBUTE6 ,
       ATTRIBUTE7 ,
       ATTRIBUTE8 ,
       ATTRIBUTE9 ,
       ATTRIBUTE10 ,
       ATTRIBUTE11 ,
       ATTRIBUTE12 ,
       ATTRIBUTE13 ,
       ATTRIBUTE14 ,
       ATTRIBUTE15 ,
       ATTRIBUTE16 ,
       ATTRIBUTE17 ,
       ATTRIBUTE18 ,
       ATTRIBUTE19 ,
       ATTRIBUTE20
              )
              VALUES
              (
                          1,7,
                          l_task1,
                          'HR- San Francisco',
                          '01-MAR-2017',
                          1000,
                          l_batch_id,
                          l_project_id,
                          l_project_name,
                          NULL ,
                          NULL,
          NULL ,
       NULL ,
       NULL ,
       NULL ,
```

```
NULL,
       NULL,
       NULL,
       NULL,
       NULL,
       NULL,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL
              );

  INSERT INTO po_proc_plan_prd_interface
              (
                          schedule_number,
                          line_number ,
                          task_number ,
                          location ,
                          need_by_date,
                          quantity,
                          batch_id,
                          project_id,
                          plan_name,
                          period_sequence,
                          cost_code,
        ATTRIBUTE_CATEGORY,
       ATTRIBUTE1,
       ATTRIBUTE2,
       ATTRIBUTE3,
       ATTRIBUTE4 ,
       ATTRIBUTE5 ,
       ATTRIBUTE6 ,
       ATTRIBUTE7 ,
       ATTRIBUTE8 ,
       ATTRIBUTE9 ,
       ATTRIBUTE10 ,
       ATTRIBUTE11 ,
       ATTRIBUTE12 ,
       ATTRIBUTE13 ,
       ATTRIBUTE14 ,
       ATTRIBUTE15 ,
       ATTRIBUTE16 ,
       ATTRIBUTE17 ,
       ATTRIBUTE18 ,
       ATTRIBUTE19 ,
       ATTRIBUTE20
              )
              VALUES
              (
                          1,7,
                          l_task1,
                          'HR- San Francisco',
                          '01-APR-2017',
                          1500,
                          l_batch_id,
                          l_project_id,
                          l_project_name,
                          NULL,
                          NULL,
```

```
NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL,
       NULL,
       NULL,
       NULL,
       NULL,
       NULL,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL
              );

  INSERT INTO po_proc_plan_prd_interface
              (
                          schedule_number,
                          line_number ,
                          task_number ,
                          location ,
                          need_by_date,
                          quantity,
                          batch_id,
                          project_id,
                          plan_name,
                          period_sequence,
                          cost_code,
        ATTRIBUTE_CATEGORY,
       ATTRIBUTE1,
       ATTRIBUTE2,
       ATTRIBUTE3,
       ATTRIBUTE4 ,
       ATTRIBUTE5 ,
       ATTRIBUTE6 ,
       ATTRIBUTE7 ,
       ATTRIBUTE8 ,
       ATTRIBUTE9 ,
       ATTRIBUTE10 ,
       ATTRIBUTE11 ,
       ATTRIBUTE12 ,
       ATTRIBUTE13 ,
       ATTRIBUTE14 ,
       ATTRIBUTE15 ,
       ATTRIBUTE16 ,
       ATTRIBUTE17 ,
       ATTRIBUTE18 ,
       ATTRIBUTE19 ,
       ATTRIBUTE20
              )
              VALUES
              (
                          1,7,
                          l_task1,
                          'HR- San Francisco',
                         '01-MAY-2017',
                          2100,
                          l_batch_id,
```

```
l_project_id,
                          l_project_name,
                          NULL,
                          NULL,
          NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL,
       NULL,
       NULL,
       NULL,
       NULL,
       NULL,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL
              );

  INSERT INTO po_proc_plan_prd_interface
              (
                          schedule_number,
                          line_number ,
                          task_number ,
                          location ,
                          need_by_date,
                          quantity,
                          batch_id,
                          project_id,
                          plan_name,
                          period_sequence,
                          cost_code,
        ATTRIBUTE_CATEGORY,
       ATTRIBUTE1,
       ATTRIBUTE2,
       ATTRIBUTE3,
       ATTRIBUTE4 ,
       ATTRIBUTE5 ,
       ATTRIBUTE6 ,
       ATTRIBUTE7 ,
       ATTRIBUTE8 ,
       ATTRIBUTE9 ,
       ATTRIBUTE10 ,
       ATTRIBUTE11 ,
       ATTRIBUTE12 ,
       ATTRIBUTE13 ,
       ATTRIBUTE14 ,
       ATTRIBUTE15 ,
       ATTRIBUTE16 ,
       ATTRIBUTE17 ,
       ATTRIBUTE18 ,
       ATTRIBUTE19 ,
       ATTRIBUTE20
              )
              VALUES
              (
                          1,7,
                          l_task1,
```

```
'HR- San Francisco',
                          '01-MAY-2017',
                          5600,
                          l_batch_id,
                          l_project_id,
                          l_project_name,
                          NULL,
                          NULL,
          NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL,
       NULL,
       NULL,
       NULL,
       NULL,
       NULL,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL
              );

  INSERT INTO po_proc_plan_prd_interface
              (
                          schedule_number,
                          line_number ,
                          task_number ,
                          location ,
                          need_by_date,
                          quantity,
                          batch_id,
                          project_id,
                          plan_name,
                          period_sequence,
                          cost_code,
        ATTRIBUTE_CATEGORY,
       ATTRIBUTE1,
       ATTRIBUTE2,
       ATTRIBUTE3,
       ATTRIBUTE4 ,
       ATTRIBUTE5 ,
       ATTRIBUTE6 ,
       ATTRIBUTE7 ,
       ATTRIBUTE8 ,
       ATTRIBUTE9 ,
       ATTRIBUTE10 ,
       ATTRIBUTE11 ,
       ATTRIBUTE12 ,
       ATTRIBUTE13 ,
       ATTRIBUTE14 ,
       ATTRIBUTE15 ,
       ATTRIBUTE16 ,
       ATTRIBUTE17 ,
       ATTRIBUTE18 ,
       ATTRIBUTE19 ,
       ATTRIBUTE20
              )
```

```
VALUES
              (
                          1,7,
                          l_task1,
                          'HR- San Francisco',
                          '01-JUN-2017',
                          8500,
                          l_batch_id,
                          l_project_id,
                          l_project_name,
                          NULL,
                          NULL,
          NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL,
       NULL,
       NULL,
       NULL,
       NULL,
       NULL,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL
              );

  INSERT INTO po_proc_plan_prd_interface
              (
                          schedule_number,
                          line_number ,
                          task_number ,
                          location ,
                          need_by_date,
                          quantity,
                          batch_id,
                          project_id,
                          plan_name,
                          period_sequence,
                          cost_code,
        ATTRIBUTE_CATEGORY,
       ATTRIBUTE1,
       ATTRIBUTE2,
       ATTRIBUTE3,
       ATTRIBUTE4 ,
       ATTRIBUTE5 ,
       ATTRIBUTE6 ,
       ATTRIBUTE7 ,
       ATTRIBUTE8 ,
       ATTRIBUTE9 ,
       ATTRIBUTE10 ,
       ATTRIBUTE11 ,
       ATTRIBUTE12 ,
       ATTRIBUTE13 ,
       ATTRIBUTE14 ,
       ATTRIBUTE15 ,
       ATTRIBUTE16 ,
       ATTRIBUTE17 ,
```

```
ATTRIBUTE18 ,
       ATTRIBUTE19 ,
       ATTRIBUTE20
              )
              VALUES
              (
                          1,7,
                          l_task1,
                          'HR- San Francisco',
                         '01-JUN-2017',
                          11000,
                          l_batch_id,
                          l_project_id,
                          l_project_name,
                          NULL,
                          NULL,
          NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL,
       NULL,
       NULL,
       NULL,
       NULL,
       NULL,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL
              );

  INSERT INTO po_proc_plan_prd_interface
              (
                          schedule_number,
                          line_number ,
                          task_number ,
                          location ,
                          need_by_date,
                          quantity,
                          batch_id,
                          project_id,
                          plan_name,
                          period_sequence,
                          cost_code,
        ATTRIBUTE_CATEGORY,
       ATTRIBUTE1,
       ATTRIBUTE2,
       ATTRIBUTE3,
       ATTRIBUTE4 ,
       ATTRIBUTE5 ,
       ATTRIBUTE6 ,
       ATTRIBUTE7 ,
       ATTRIBUTE8 ,
       ATTRIBUTE9 ,
       ATTRIBUTE10 ,
       ATTRIBUTE11 ,
       ATTRIBUTE12 ,
       ATTRIBUTE13 ,
```

```
ATTRIBUTE14 ,
       ATTRIBUTE15 ,
       ATTRIBUTE16 ,
       ATTRIBUTE17 ,
       ATTRIBUTE18 ,
       ATTRIBUTE19 ,
       ATTRIBUTE20
              )
              VALUES
              (
                          1,7,
                          l_task1,
                          'HR- San Francisco',
                          '01-JUL-2017',
                          9800,
                          l_batch_id,
                          l_project_id,
                          l_project_name,
                          NULL,
                          NULL,
          NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL,
       NULL,
       NULL,
       NULL,
       NULL,
       NULL,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL
              );

  INSERT INTO po_proc_plan_prd_interface
              (
                          schedule_number,
                          line_number ,
                          task_number ,
                          location ,
                          need_by_date,
                          quantity,
                          batch_id,
                          project_id,
                          plan_name,
                          period_sequence,
                          cost_code,
        ATTRIBUTE_CATEGORY,
       ATTRIBUTE1,
       ATTRIBUTE2,
       ATTRIBUTE3,
       ATTRIBUTE4 ,
       ATTRIBUTE5 ,
       ATTRIBUTE6 ,
       ATTRIBUTE7 ,
       ATTRIBUTE8 ,
       ATTRIBUTE9 ,
```

```
ATTRIBUTE10 ,
       ATTRIBUTE11 ,
       ATTRIBUTE12 ,
       ATTRIBUTE13 ,
       ATTRIBUTE14 ,
       ATTRIBUTE15 ,
       ATTRIBUTE16 ,
       ATTRIBUTE17 ,
       ATTRIBUTE18 ,
       ATTRIBUTE19 ,
       ATTRIBUTE20
              )
              VALUES
              (
                          1,7,
                          l_task1,
                          'HR- San Francisco',
                          '01-AUG-2017',
                          1600,
                          l_batch_id,
                          l_project_id,
                          l_project_name,
                          NULL,
                          NULL,
          NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL,
       NULL,
       NULL,
       NULL,
       NULL,
       NULL,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL
              );

  INSERT INTO po_proc_plan_prd_interface
              (
                          schedule_number,
                          line_number ,
                          task_number ,
                          location ,
                          need_by_date,
                          quantity,
                          batch_id,
                          project_id,
                          plan_name,
                          period_sequence,
                          cost_code,
        ATTRIBUTE_CATEGORY,
       ATTRIBUTE1,
       ATTRIBUTE2,
       ATTRIBUTE3,
       ATTRIBUTE4 ,
       ATTRIBUTE5 ,
```

```
ATTRIBUTE6 ,
       ATTRIBUTE7 ,
       ATTRIBUTE8 ,
       ATTRIBUTE9 ,
       ATTRIBUTE10 ,
       ATTRIBUTE11 ,
       ATTRIBUTE12 ,
       ATTRIBUTE13 ,
       ATTRIBUTE14 ,
       ATTRIBUTE15 ,
       ATTRIBUTE16 ,
       ATTRIBUTE17 ,
       ATTRIBUTE18 ,
       ATTRIBUTE19 ,
       ATTRIBUTE20
              )
              VALUES
              (
                          1,7,
                          l_task1,
                          'HR- San Francisco',
                          '01-SEP-2017',
                          2000,
                          l_batch_id,
                          l_project_id,
                          l_project_name,
                          NULL,
                          NULL,
          NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL,
       NULL,
       NULL,
       NULL,
       NULL,
       NULL,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL
              );

  INSERT INTO po_proc_plan_prd_interface
              (
                          schedule_number,
                          line_number ,
                          task_number ,
                          location ,
                          need_by_date,
                          quantity,
                          batch_id,
                          project_id,
                          plan_name,
                          period_sequence,
                          cost_code,
        ATTRIBUTE_CATEGORY,
       ATTRIBUTE1,
```

```
ATTRIBUTE2,
       ATTRIBUTE3,
       ATTRIBUTE4 ,
       ATTRIBUTE5 ,
       ATTRIBUTE6 ,
       ATTRIBUTE7 ,
       ATTRIBUTE8 ,
       ATTRIBUTE9 ,
       ATTRIBUTE10 ,
       ATTRIBUTE11 ,
       ATTRIBUTE12 ,
       ATTRIBUTE13 ,
       ATTRIBUTE14 ,
       ATTRIBUTE15 ,
       ATTRIBUTE16 ,
       ATTRIBUTE17 ,
       ATTRIBUTE18 ,
       ATTRIBUTE19 ,
       ATTRIBUTE20
              )
              VALUES
              (
                          1,7,
                          l_task1,
                          'HR- San Francisco',
                          '01-OCT-2017',
                          1500,
                          l_batch_id,
                          l_project_id,
                          l_project_name,
                          NULL,
                          NULL,
          NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL,
       NULL,
       NULL,
       NULL,
       NULL,
       NULL,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL
              );

  INSERT INTO po_proc_plan_prd_interface
              (
                          schedule_number,
                          line_number ,
                          task_number ,
                          location ,
                          need_by_date,
                          quantity,
                          batch_id,
                          project_id,
                          plan_name,
```

```
period_sequence,
                          cost_code,
        ATTRIBUTE_CATEGORY,
       ATTRIBUTE1,
       ATTRIBUTE2,
       ATTRIBUTE3,
       ATTRIBUTE4 ,
       ATTRIBUTE5 ,
       ATTRIBUTE6 ,
       ATTRIBUTE7 ,
       ATTRIBUTE8 ,
       ATTRIBUTE9 ,
       ATTRIBUTE10 ,
       ATTRIBUTE11 ,
       ATTRIBUTE12 ,
       ATTRIBUTE13 ,
       ATTRIBUTE14 ,
       ATTRIBUTE15 ,
       ATTRIBUTE16 ,
       ATTRIBUTE17 ,
       ATTRIBUTE18 ,
       ATTRIBUTE19 ,
       ATTRIBUTE20
              )
              VALUES
              (
                          1,7,
                          l_task1,
                          'HR- San Francisco',
                          '01-NOV-2017',
                          500,
                          l_batch_id,
                          l_project_id,
                          l_project_name,
                          NULL,
                          NULL,
          NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL,
       NULL,
       NULL,
       NULL,
       NULL,
       NULL,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL
              );

  INSERT INTO po_proc_plan_prd_interface
              (
                          schedule_number,
                          line_number ,
                          task_number ,
                          location ,
                          need_by_date,
```

```
quantity,
                          batch_id,
                          project_id,
                          plan_name,
                          period_sequence,
                          cost_code,
        ATTRIBUTE_CATEGORY,
       ATTRIBUTE1,
       ATTRIBUTE2,
       ATTRIBUTE3,
       ATTRIBUTE4 ,
       ATTRIBUTE5 ,
       ATTRIBUTE6 ,
       ATTRIBUTE7 ,
       ATTRIBUTE8 ,
       ATTRIBUTE9 ,
       ATTRIBUTE10 ,
       ATTRIBUTE11 ,
       ATTRIBUTE12 ,
       ATTRIBUTE13 ,
       ATTRIBUTE14 ,
       ATTRIBUTE15 ,
       ATTRIBUTE16 ,
       ATTRIBUTE17 ,
       ATTRIBUTE18 ,
       ATTRIBUTE19 ,
       ATTRIBUTE20
              )
              VALUES
              (
                          1,7,
                          l_task1,
                          'HR- San Francisco',
                          '01-DEC-2017',
                          500,
                          l_batch_id,
                          l_project_id,
                          l_project_name,
                          NULL,
                          NULL,
          NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL,
       NULL,
       NULL,
       NULL,
       NULL,
       NULL,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL
              );

  INSERT INTO po_proc_plan_prd_interface
              (
                          schedule_number,
```

```
line_number ,
                          task_number ,
                          location ,
                          need_by_date,
                          quantity,
                          batch_id,
                          project_id,
                          plan_name,
                          period_sequence,
                          cost_code,
        ATTRIBUTE_CATEGORY,
       ATTRIBUTE1,
       ATTRIBUTE2,
       ATTRIBUTE3,
       ATTRIBUTE4 ,
       ATTRIBUTE5 ,
       ATTRIBUTE6 ,
       ATTRIBUTE7 ,
       ATTRIBUTE8 ,
       ATTRIBUTE9 ,
       ATTRIBUTE10 ,
       ATTRIBUTE11 ,
       ATTRIBUTE12 ,
       ATTRIBUTE13 ,
       ATTRIBUTE14 ,
       ATTRIBUTE15 ,
       ATTRIBUTE16 ,
       ATTRIBUTE17 ,
       ATTRIBUTE18 ,
       ATTRIBUTE19 ,
       ATTRIBUTE20
              )
              VALUES
              (
                          1,7,
                          l_task1,
                          'HR- San Francisco',
                         '01-JAN-2018',
                          1000,
                          l_batch_id,
                          l_project_id,
                          l_project_name,
                          NULL,
                          NULL,
          NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL,
       NULL,
       NULL,
       NULL,
       NULL,
       NULL,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL
              );
```

```
INSERT INTO po_proc_plan_prd_interface
            (
                        schedule_number,
                        line_number ,
                        task_number ,
                        location ,
                        need_by_date,
                        quantity,
                        batch_id,
                        project_id,
                        plan_name,
                        period_sequence,
                        cost_code,
      ATTRIBUTE_CATEGORY,
     ATTRIBUTE1,
     ATTRIBUTE2,
     ATTRIBUTE3,
     ATTRIBUTE4 ,
     ATTRIBUTE5 ,
     ATTRIBUTE6 ,
     ATTRIBUTE7 ,
     ATTRIBUTE8 ,
     ATTRIBUTE9 ,
     ATTRIBUTE10 ,
     ATTRIBUTE11 ,
     ATTRIBUTE12 ,
     ATTRIBUTE13 ,
     ATTRIBUTE14 ,
     ATTRIBUTE15 ,
     ATTRIBUTE16 ,
     ATTRIBUTE17 ,
     ATTRIBUTE18 ,
     ATTRIBUTE19 ,
     ATTRIBUTE20
            )
            VALUES
            (
                        1,7,
                        l_task1,
                        'HR- San Francisco',
                        '01-FEB-2017',
                        1500,
                        l_batch_id,
                        l_project_id,
                        l_project_name,
                        NULL,
                        NULL,
        NULL ,
     NULL ,
     NULL ,
     NULL ,
     NULL,
     NULL,
     NULL,
     NULL,
     NULL,
     NULL,
     NULL ,
     NULL ,
     NULL ,
     NULL ,
     NULL ,
     NULL ,
     NULL ,
     NULL ,
     NULL ,
```

```
NULL ,
       NULL
              );


  /* Insert data into the Prog payment interface table for the fixed
price
lines */
  INSERT INTO po_proc_plan_prog_interface
              (
                          payment_type,
                          pay_description,
                          pay_quantity,
                          need_by_date,
                          po_number,
                          pay_unit,
                          pay_value,
                          pay_price,
                          pay_amount,
                          pay_item,
                          batch_id,
                          plan_name,
                          project_id ,
                          line_number,
                          task_number,
                          cost_code,
        ATTRIBUTE_CATEGORY,
       ATTRIBUTE1,
       ATTRIBUTE2,
       ATTRIBUTE3,
       ATTRIBUTE4 ,
       ATTRIBUTE5 ,
       ATTRIBUTE6 ,
       ATTRIBUTE7 ,
       ATTRIBUTE8 ,
       ATTRIBUTE9 ,
       ATTRIBUTE10 ,
       ATTRIBUTE11 ,
       ATTRIBUTE12 ,
       ATTRIBUTE13 ,
       ATTRIBUTE14 ,
       ATTRIBUTE15 ,
       ATTRIBUTE16 ,
       ATTRIBUTE17 ,
       ATTRIBUTE18 ,
       ATTRIBUTE19 ,
       ATTRIBUTE20
              )
              VALUES
              (
                          'Lump Sum',
                          'Design drawing of Boiler including Wiring
System',
                          NULL,
                          to_timestamp('2017-03-31 00:00:00.0', 'RRRR-
MM-DD HH24:MI:SS.FF'),
                          NULL,
                          NULL,
                          NULL,
                          100000,100000,1,
                          l_batch_id,
                          l_project_name ,
                          l_project_id,
                          8,
                          '1.2',
                          NULL,
```

```
NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL,
       NULL,
       NULL,
       NULL,
       NULL,
       NULL,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL
              );

  INSERT INTO po_proc_plan_prog_interface
              (
                          payment_type,
                          pay_description,
                          pay_quantity,
                          need_by_date,
                          po_number,
                          pay_unit,
                          pay_value,
                          pay_price,
                          pay_amount,
                          pay_item,
                          batch_id,
                          plan_name,
                          project_id ,
                          line_number,
                          task_number,
                          cost_code,
        ATTRIBUTE_CATEGORY,
       ATTRIBUTE1,
       ATTRIBUTE2,
       ATTRIBUTE3,
       ATTRIBUTE4 ,
       ATTRIBUTE5 ,
       ATTRIBUTE6 ,
       ATTRIBUTE7 ,
       ATTRIBUTE8 ,
       ATTRIBUTE9 ,
       ATTRIBUTE10 ,
       ATTRIBUTE11 ,
       ATTRIBUTE12 ,
       ATTRIBUTE13 ,
       ATTRIBUTE14 ,
       ATTRIBUTE15 ,
       ATTRIBUTE16 ,
       ATTRIBUTE17 ,
       ATTRIBUTE18 ,
       ATTRIBUTE19 ,
       ATTRIBUTE20
              )
              VALUES
              (
                          'Milestone',
```

```
'Receipt of Burner and Combustion Chamber',
                         NULL,
                         to_timestamp('2017-03-31 00:00:00.0', 'RRRR-
MM-DD HH24:MI:SS.FF'),
                         NULL,
                         NULL,
                         10,
                         NULL,
                         45000,2,
                         l_batch_id,
                         l_project_name,
                         l_pr oject_id,
                         8,
                         '1.2',
                         NULL,
          NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL,
       NULL,
       NULL,
       NULL,
       NULL,
       NULL,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL
              );

  INSERT INTO po_proc_plan_prog_interface
              (
                         payment_type,
                         pay_description,
                         pay_quantity,
                         need_by_date,
                         po_number,
                         pay_unit,
                         pay_value,
                         pay_price,
                         pay_amount,
                         pay_item,
                         batch_id,
                         plan_name,
                         project_id ,
                         line_number,
                         task_number,
                         cost_code,
        ATTRIBUTE_CATEGORY,
       ATTRIBUTE1,
       ATTRIBUTE2,
       ATTRIBUTE3,
       ATTRIBUTE4 ,
       ATTRIBUTE5 ,
       ATTRIBUTE6 ,
       ATTRIBUTE7 ,
       ATTRIBUTE8 ,
       ATTRIBUTE9 ,
```

```
ATTRIBUTE10 ,
       ATTRIBUTE11 ,
       ATTRIBUTE12 ,
       ATTRIBUTE13 ,
       ATTRIBUTE14 ,
       ATTRIBUTE15 ,
       ATTRIBUTE16 ,
       ATTRIBUTE17 ,
       ATTRIBUTE18 ,
       ATTRIBUTE19 ,
       ATTRIBUTE20
              )
              VALUES
              (
                          'Milestone',
                          'Receipt of remaining parts of boiler',
                          NULL,
                          to_timestamp('2017-03-31 00:00:00.0', 'RRRR-
MM-DD HH24:MI:SS.FF'),
                          NULL,
                          NULL,
                          20,
                          NULL,
                          90000,3,
                          l_batch_id,
                          l_project_name,
                          l_pr oject_id,
                          8,
                          '1.2',
                          NULL,
          NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL,
       NULL,
       NULL,
       NULL,
       NULL,
       NULL,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL
              );

  INSERT INTO po_proc_plan_prog_interface
              (
                          payment_type,
                          pay_description,
                          pay_quantity,
                          need_by_date,
                          po_number,
                          pay_unit,
                          pay_value,
                          pay_price,
                          pay_amount,
                          pay_item,
                          batch_id,
```

```
plan_name,
                          project_id ,
                          line_number,
                          task_number,
                          cost_code,
        ATTRIBUTE_CATEGORY,
       ATTRIBUTE1,
       ATTRIBUTE2,
       ATTRIBUTE3,
       ATTRIBUTE4 ,
       ATTRIBUTE5 ,
       ATTRIBUTE6 ,
       ATTRIBUTE7 ,
       ATTRIBUTE8 ,
       ATTRIBUTE9 ,
       ATTRIBUTE10 ,
       ATTRIBUTE11 ,
       ATTRIBUTE12 ,
       ATTRIBUTE13 ,
       ATTRIBUTE14 ,
       ATTRIBUTE15 ,
       ATTRIBUTE16 ,
       ATTRIBUTE17 ,
       ATTRIBUTE18 ,
       ATTRIBUTE19 ,
       ATTRIBUTE20
              )
              VALUES
              (
                          'Rate',
                          'Installation of Boiler',
                          1000,
                          to_timestamp('2017-03-31 00:00:00.0', 'RRRR-
MM-DD HH24:MI:SS.FF'),
                          NULL,
                          'Hour',
                          NULL,
                          40,40000,4,
                          l_batch_id,
                          l_project_name,
                          l_ project_id,
                          8,
                          '1.2',
                          NULL,
          NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL,
       NULL,
       NULL,
       NULL,
       NULL,
       NULL,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL
              );
```

```
  INSERT INTO po_proc_plan_prog_interface
            (
                        payment_type,
                        pay_description,
                        pay_quantity,
                        need_by_date,
                        po_number,
                        pay_unit,
                        pay_value,
                        pay_price,
                        pay_amount,
                        pay_item,
                        batch_id,
                        plan_name,
                        project_id ,
                        line_number,
                        task_number,
                        cost_code,
      ATTRIBUTE_CATEGORY,
     ATTRIBUTE1,
     ATTRIBUTE2,
     ATTRIBUTE3,
     ATTRIBUTE4 ,
     ATTRIBUTE5 ,
     ATTRIBUTE6 ,
     ATTRIBUTE7 ,
     ATTRIBUTE8 ,
     ATTRIBUTE9 ,
     ATTRIBUTE10 ,
     ATTRIBUTE11 ,
     ATTRIBUTE12 ,
     ATTRIBUTE13 ,
     ATTRIBUTE14 ,
     ATTRIBUTE15 ,
     ATTRIBUTE16 ,
     ATTRIBUTE17 ,
     ATTRIBUTE18 ,
     ATTRIBUTE19 ,
     ATTRIBUTE20
            )
            VALUES
            (
                        'Lump Sum',
                        'Commissioning of Boiler',
                        NULL,
                        to_timestamp('2017-03-31 00:00:00.0', 'RRRR-
MM-DD HH24:MI:SS.FF'),
                        NULL,
                        NULL,
                        NULL,
                        100000,100000,5,
                        l_batch_id,
                        l_project_name ,
                        l_project_id,
                        8,
                        '1.2',
                        NULL,
        NULL ,
     NULL ,
     NULL ,
     NULL ,
     NULL,
     NULL,
     NULL,
     NULL,
     NULL,
```

```
NULL,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL
              );

  INSERT INTO po_proc_plan_prog_interface
              (
                          payment_type,
                          pay_description,
                          pay_quantity,
                          need_by_date,
                          po_number,
                          pay_unit,
                          pay_value,
                          pay_price,
                          pay_amount,
                          pay_item,
                          batch_id,
                          plan_name,
                          project_id ,
                          line_number,
                          task_number,
                          cost_code,
        ATTRIBUTE_CATEGORY,
       ATTRIBUTE1,
       ATTRIBUTE2,
       ATTRIBUTE3,
       ATTRIBUTE4 ,
       ATTRIBUTE5 ,
       ATTRIBUTE6 ,
       ATTRIBUTE7 ,
       ATTRIBUTE8 ,
       ATTRIBUTE9 ,
       ATTRIBUTE10 ,
       ATTRIBUTE11 ,
       ATTRIBUTE12 ,
       ATTRIBUTE13 ,
       ATTRIBUTE14 ,
       ATTRIBUTE15 ,
       ATTRIBUTE16 ,
       ATTRIBUTE17 ,
       ATTRIBUTE18 ,
       ATTRIBUTE19 ,
       ATTRIBUTE20
              )
              VALUES
              (
                          'Lump Sum',
                          'Balance Payment one year after
commissioning',
                          NULL,
                          to_timestamp('2017-03-31 00:00:00.0', 'RRRR-
MM-DD HH24:MI:SS.FF'),
                          NULL,
                          NULL,
                          NULL,
                          75000,75000,6,
```

```
l_batch_id,
                           l_project_name,
                           l _project_id,
                           8,
                           '1.2',
                           NULL,
          NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL,
       NULL,
       NULL,
       NULL,
       NULL,
       NULL,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL ,
       NULL
              );

  COMMIT;
  po_proc_plan_pub.Proc_plan_import_submit( x_req_id => l_request_id,
                                            x_interface_txn_id =>
l_interface_txn_id,
                                            p_batch_id => l_batch_id,
                                            p_project_id => l_project_id
);
  dbms_output.Put_line('l_request_id : ' ||l_request_id);
  commit;
END;
```

Descriptive Flex Field (DFF) Attributes

DFF attributes are available in the Plan Line, Schedules, and Progress Summary. You can populate DFF attributes using the spreadsheet import or the interface tables. DFF attributes are validated using flexfield APIs. The plan lines and schedules are not imported if the data entered in the attributes is not compatible with the DFF setup. You can search or filter data using the DFF attributes.

PO_PROC_PLAN_HDR_INTERFACE Table

Note: All columns that require user names (such as Created By) are derived from sysdate/FND_GLOBAL.USER_ID.

Column Name	Description/Valid Value	Attributes: Required / Optional / Derived	Required for Creating New Plan?	Required for Updating Plan?
PLAN_START_DATE	Plan Start Date	Optional. Derived, if not given, based on Workplan dates	No	No
PLAN_END_DATE	Plan End Date	Optional. Derived, if not given, based on Workplan dates	No.	No.
STATUS	Not used	-	-	-
PROJECT_NAME	Name of the Project	Required.	Yes.	No.
PLAN_NAME	Name of the Plan	Required.	Yes.	No.
PLAN_DESCRIPTION	Description of the plan	Optional.	Optional.	Optional.
ORGANIZATION_NAME	Not used	-	-	-
BATCH_ID	Unique identifier that represent the data that is being uploaded across the interface tables. BATCH_ID is mandatory for all interface tables; this is the main parameter of the import program. The BATCH_ID needs to be identical in headers, lines, and schedules.	Derived.	Yes.	No.

Column Name	Description/Valid Value	Attributes: Required / Optional / Derived	Required for Creating New Plan?	Required for Updating Plan?
LAST_RUN_REQUEST_ID	Request ID for previous run of Plan Import concurrent program. Used internally to update the column with the Plan Line Import Request ID.	Derived.	Derived.	Derived.
PROCESS_FLAG	Not used	-	-	-
PROJECT_ID	Unique identifier of the project from PA_PROJECTS_ALL	Required.	Required.	Required.
ORG_ID	Operating Unit ID of the Project	Required.	Required.	Required.
DELETE_FLAG	Not used	-	-	-
LOCK_UPDATE_DATE	When the procurement plan is downloaded for updating, the date is saved in this column	Derived.	No.	No.

PO_PROC_PLAN_LINE_INTERFACE Table

Use the PO_PROC_PLAN_LINE_INTERFACE interface table to create a new plan line or correct an existing plan line. Each plan line constitutes a unique procurement requirement within a project. Create one plan line for a unique one-time item or service that you need to procure. Ensure that there is only one plan line for an inventory item, even though you may require different quantities at different times.

> **Note:** All columns that require user names (such as Created By) are derived from sysdate/FND_GLOBAL.USER_ID.

Column Name	Description/Valid Value	Validations	Attributes: Required / Optional / Derived	Required for Creating New Plan?	Required for Updating Plan?
LINE_NUMBER	Procurement Plan Line Number. The number by which the plan line is identified; unique within a project. Child Records in Period Interface and Progress interface refer back to the plan line using this identifier.	Positive Integer.	Required.	Required. Provide a new plan line number.	Required. Provide the plan line number to update.
LINE_TYPE	Line Type that is used on the Purchase Order which eventually gets created from the plan.	Use a Line Type that is valid in the Purchasing setup. Line Types with a value basis of Quantity, Amount or Fixed Price are allowed. Value basis of Rate is not currently supported.	Required.	Required.	Required. You can update Category only, if the line status is Draft.
CATEGORY	Concatenated segments of the Purchasing Category. For example, HARDWARE. KEYBOARD.	Has to be a valid Purchasing Category.	Required.	Required, Derived if the Item Number is provided.	Required, Derived if the Item Number is provided. Can be updated when the status is Draft.

Column Name	Description/Valid Value	Validations	Attributes: Required / Optional / Derived	Required for Creating New Plan?	Required for Updating Plan?
ITEM_NUMBER	Concatenated segments of the Inventory Item that you wish to procure.	To be populated only if the line-type has a Value Basis of Quantity. Do not populate this field for other line-types. Use Description and Category to identify what is to be procured. The item has to be a valid Inventory Item in the Item Master, enabled for the Inventory Organization of the Project's Operating Unit, as defined in Financial Parameters. If Item Number is entered, Category and Description are derived. If Item Number is not populated, Category and Description are required. You can optionally populate ITEM_ID instead, and if so, the Item Number, Description and Category will be derived.	Optional	Optional	Optional. Can be updated only if plan line has a Draft status.

Column Name	Description/Valid Value	Validations	Attributes: Required / Optional / Derived	Required for Creating New Plan?	Required for Updating Plan?
ITEM_ID	Inventory Item ID	The system verifies if the item is valid, and is enabled in the destination organization. If the item is valid, the item ID is placed on to the plan-line.	Optional	Optional	Optional
DESCRIPTION	One-time item or service description.	240 character length. If Item Number is populated, the description you enter will be ignored.	Conditional.	Required. Derived if the Item Number is provided.	Required (Derived if the Item Number is provided). You can change Category only as long as the planline status is Draft.
STATUS	Select one of the following starting values: Draft, Ready to Order, Ready for Planning.	-	Required.	Required.	Required.

Column Name	Description/Valid Value	Validations	Attributes: Required / Optional / Derived	Required for Creating New Plan?	Required for Updating Plan?
BUYER	Buyer name who owns the plan line.	Enter the full name of a valid buyer (FULL_NAME in PER_ALL_PEOPLE_F). If the profile option PO: Enforce Project Security is Yes, any valid buyer, who is also a key member of the project can be specified. If the profile option value is No, any valid buyer can be used.	Optional.	Optional.	Optional.
SUGGESTED_SUPPLIER	The Project Manager recommends this supplier name to the buyer for procuring the plan line.	Enter an existing supplier (that matches with a supplier name in the Supplier Master), or a new supplier who does not exist in the system. If the supplier entered is not a valid supplier in the system, the supplier is suggested as a new supplier.	Optional.	Optional.	Optional. Can be updated when the status is Draft.
PRIORITY1	This field is mapped to Acquisition Strategy Primary Objective.	Select applicable value from PA_PSC_SUPP_SELECTION lookup.	Optional.	Optional.	Optional. Can be updated when the status is Draft.

Column Name	Description/Valid Value	Validations	Attributes: Required / Optional / Derived	Required for Creating New Plan?	Required for Updating Plan?
PRIORITY2	This field is mapped to Acquisition Strategy Secondary Objective.	Select applicable value from PA_PSC_SUPP_SELECTION lookup.	Optional.	Optional.	Optional. Can be updated when the status is Draft.
PRIORITY3	Not used	-	-	-	-
ADDITIONAL_INFORMATION	Additional information or description for a plan line.	2000 characters free text.	Optional.	Optional.	Optional.
EXPENDITURE_TYPE	Entered for each plan line to identify the expenditure type of the plan line. Project Managers track spend against this plan line using expenditure type. Examples: Airfare, Hardware, Materials.	Any valid Expenditure Type for the project.	Required.	Required.	Required.

Column Name	Description/Valid Value	Validations	Attributes: Required / Optional / Derived	Required for Creating New Plan?	Required for Updating Plan?
PLANNING_CURRENCY_CODE	Currency code for the item to be procured as entered in the plan.	Required field. If the currency is not specified then the functional currency of the operating unit will be considered as Planning currency. If the specified currency is different from the functional currency of the Operating Unit or the Project's Primary Currency, the currency conversion rate has to be specified in the Financial Forecast in the Project Procurement Setup. The system derives a valid exchange rate on the first day of each month for the entire duration of the project.	Optional.	Optional.	Optional. Can be updated if plan line has a Draft status.
PLANNING_RATE	The per-unit rate in the planning currency, at which you plan to procure the item/service for this project.	Any non-negative decimal. For line types with value basis Amount, planning rate is overwritten and defaulted to 1. For an Inventory Item, the price is derived from the list price of the item.	Required.	Required.	Required.

Column Name	Description/Valid Value	Validations	Attributes: Required / Optional / Derived	Required for Creating New Plan?	Required for Updating Plan?
AMOUNT_COMMITTED	Amount of the line that is requisitioned.	-	Derived.	Derived.	Derived.
AMOUNT_OBLIGATED	Amount of the line that is on a purchase order.	-	Derived.	Derived.	Derived.
UOM	Unit of Measure.	-	Derived.	Derived.	Derived.
QUANTITY_ORDERED	Ordered quantity.	-	Derived.	Derived.	Derived.
QUANTITY_RECEIVED	Received quantity.	-	Derived.	Derived.	Derived.
QUANTITY_REJECTED	Rejected quantity.	-	Derived.	Derived.	Derived.
QUANTITY_OVERDUE	Overdue quantity.	-	Derived.	Derived.	Derived.
NEXT_SHIPMENT_DATE	Next Shipment Date.	-	Derived.	Derived.	Derived.
CREATION_DATE	Date on which it was created.	-	Derived.	Derived.	Derived.
CREATED_BY	Name of the person who created it.	-	Derived.	Derived.	Derived.
LAST_UPDATE_DATE	Last updated date.	-	Derived.	Derived.	Derived.
LAST_UPDATED_BY	The person who updated it last.	-	Derived.	Derived.	Derived.

Column Name	Description/Valid Value	Validations	Attributes: Required / Optional / Derived	Required for Creating New Plan?	Required for Updating Plan?
LAST_UPDATE_LOGIN	Login ID of the person who updated it last.	-	Derived.	Derived.	Derived.
BATCH_ID	BATCH_ID is mandatory for all interface tables; this is the main parameter of the import program. The BATCH_ID needs to be identical in headers, lines, and schedules.	-	Required.	Required.	Required.
PROCESS_FLAG	Not used	-	-	-	-
PLAN_NAME	Name of the plan.	Should match the Plan Name on the Plan Header table.	Required.	Required.	Required.
PROJECT_ID	Project ID for which this plan line is being created or updated.	Should match the Project Name on the Plan Header table.	Required.	Required.	Required. Can be updated if plan line has a status Draft.
DELETE_FLAG	Not used.	-	-	-	-

Column Name	Description/Valid Value	Validations	Attributes: Required / Optional / Derived	Required for Creating New Plan?	Required for Updating Plan?
ACQ_STRATEGY_OBJECTIVE1	The application does not use these columns, instead it uses columns PRIORITY1, PRIORITY2.	-	-	-	-
ACQ_STRATEGY_OBJECTIVE2	Not used	-	-	-	-
PROD_SELECTION_OBJECTIVE1	Not used	-	-	-	-
PROD_SELECTION_OBJECTIVE2	Not used	-	-	-	-
INV_STRATEGY_OBJECTIVE1	Not used	-	-	-	-
INV_STRATEGY_OBJECTIVE2	Not used	-	-	-	-
DESTINATION	Destination Type (Expense or Inventory).	-	Required.	Required.	Required.
SRC_SYS_NAME	Name of the Source System.	-	Optional.	Optional.	Optional.
SRC_SYS_DOC	Name of the Reference Document in Source System.	-	Optional.	Optional.	Optional.

Column Name	Description/Valid Value	Validations	Attributes: Required / Optional / Derived	Required for Creating New Plan?	Required for Updating Plan?
SRC_SYS_DOC_VER	Version of the Reference Document in Source System.	-	Optional.	Optional.	Optional.
SRC_SYS_LINE_NUMBER	Source System Document Line Number.	-	Optional.	Optional.	Optional.
SRC_SYS_LINE_VER	Version of the Reference Document Line in the source system.	-	Optional.	Optional.	Optional.
SRC_SYS_DATE	Source System Date.	-	Optional.	Optional.	Optional.
ATTRIBUTE_CATEGORY	Procurement Plan Line Descriptive Flexfield Attribute Category	Validated using Descriptive Flexfield configuration for "Procurement Plan Line Flex" (PO_PROC_PLAN_LINE_FLEX); Application PO.	Optional.	Optional.	Optional.
ATTRIBUTE1	Procurement Plan Line Descriptive Flexfield Attribute 1.	-	Optional.	Optional.	Optional.
ATTRIBUTE2	Procurement Plan Line Descriptive Flexfield Attribute 2.	-	Optional.	Optional.	Optional.
ATTRIBUTE3	Procurement Plan Line Descriptive Flexfield Attribute 3.	-	Optional.	Optional.	Optional.

Column Name	Description/Valid Value	Validations	Attributes: Required / Optional / Derived	Required for Creating New Plan?	Required for Updating Plan?
ATTRIBUTE4	Procurement Plan Line Descriptive Flexfield Attribute 4.	-	Optional.	Optional.	Optional.
ATTRIBUTE5	Procurement Plan Line Descriptive Flexfield Attribute 5.	-	Optional.	Optional.	Optional.
ATTRIBUTE6	Procurement Plan Line Descriptive Flexfield Attribute 6.	-	Optional.	Optional.	Optional.
ATTRIBUTE7	Procurement Plan Line Descriptive Flexfield Attribute 7.	-	Optional.	Optional.	Optional.
ATTRIBUTE8	Procurement Plan Line Descriptive Flexfield Attribute 8.	-	Optional.	Optional.	Optional.
ATTRIBUTE9	Procurement Plan Line Descriptive Flexfield Attribute 9.	-	Optional.	Optional.	Optional.
ATTRIBUTE10	Procurement Plan Line Descriptive Flexfield Attribute 10.	-	Optional.	Optional.	Optional.
ATTRIBUTE11	Procurement Plan Line Descriptive Flexfield Attribute 11.	-	Optional.	Optional.	Optional.
ATTRIBUTE12	Procurement Plan Line Descriptive Flexfield Attribute 12.	-	Optional.	Optional.	Optional.

Column Name	Description/Valid Value	Validations	Attributes: Required / Optional / Derived	Required for Creating New Plan?	Required for Updating Plan?
ATTRIBUTE13	Procurement Plan Line Descriptive Flexfield Attribute 13.	-	Optional.	Optional.	Optional.
ATTRIBUTE14	Procurement Plan Line Descriptive Flexfield Attribute 14.	-	Optional.	Optional.	Optional.
ATTRIBUTE15	Procurement Plan Line Descriptive Flexfield Attribute 15.	-	Optional.	Optional.	Optional.
ATTRIBUTE16	Procurement Plan Line Descriptive Flexfield Attribute 16.	-	Optional.	Optional.	Optional.
ATTRIBUTE17	Procurement Plan Line Descriptive Flexfield Attribute 17.	-	Optional.	Optional.	Optional.
ATTRIBUTE18	Procurement Plan Line Descriptive Flexfield Attribute 18.	-	Optional.	Optional.	Optional.
ATTRIBUTE19	Procurement Plan Line Descriptive Flexfield Attribute 19.	-	Optional.	Optional.	Optional.
ATTRIBUTE20	Procurement Plan Line Descriptive Flexfield Attribute 20.	-	Optional.	Optional.	Optional.

Column Name	Description/Valid Value	Validations	Attributes: Required / Optional / Derived	Required for Creating New Plan?	Required for Updating Plan?
TECH_SPEC_URL	Technical Specification URL from a Content Management System. The URL is copied as URL attachment type to procurement documents such as Agreement and Purchase Order, and is available to suppliers.	Any valid URL	Optional.	Optional.	Optional.
CONTRACT_TEMPLATE	Not used	-	-	-	-
ITEM_ID	Item ID.	Use this column if you have not entered the Item Number. Needs to be a valid Inventory Item in Item Master. Validations remain the same as for Item Number in the preceding rows.	Optional.	Optional.	Optional.

PO_PROC_PLAN_PRD_INTERFACE Table

Use this table whenever you need to create new schedules, or update existing schedules. The following questions are addressed using schedules:

- If all you want to do is to change the quantity on a schedule, should you populate the plan-line interface too?
- If you update the plan (by modifying the planning rate, and so on), do you have to re-insert all the schedules for the plan?

Each schedule record represents a unique instance of requirement for the plan line. If you need the item during multiple dates, or if the item needs to be delivered to multiple locations, or if multiple projects are charged, create a new schedule record to represent this requirement.

> **Note:** All columns that require user names (such as Created By) are derived from sysdate/FND_GLOBAL.USER_ID.

Column Name	Description/Valid Value	Validations	Attributes: Required / Optional / Derived	Required for Creating new Period Requirement?	Required for Updating Period Requirement?
SCHEDULE_NUMBER	Used to identify a schedule record. A plan line may have multiple schedules, and Schedule Number has to be unique for a plan line.	Positive integer; unique for multiple schedules of a plan line.	Required.	Required - Enter a unique number for the plan line when creating a new schedule.	Required - Enter the schedule number you wish to update.
LINE_NUMBER	The plan line number for which this schedule is used.	Existing plan line in the interface.	Required.	Required.	Required.
LINE_TYPE	Procurement Plan Line Type	The Line Type needs to match with the Line Type on the plan line.	Derived.	Derived.	Derived.
CATEGORY	Category of the item	The Category needs to match with the Category on the plan line.	Derived.	Derived.	Derived.

Column Name	Description/Valid Value	Validations	Attributes: Required / Optional / Derived	Required for Creating new Period Requirement?	Required for Updating Period Requirement?
ITEM_NUMBER	Item number	The Item Number needs to match with the Item Number on the plan line.	Derived.	Derived.	Derived.
DESCRIPTION	Item description	The Item Description needs to match with the Item Description on the plan line.	Derived.	Derived.	Derived.
TASK_NUMBER	Task Number for which the material or service is procured - the task that is charged for the cost of the procured material or service.	A valid task number on the project.	Required.	Required.	Required.
LOCATION	Deliver-To Location.	Enter a valid Deliver-To Location for the operating unit of the Project.	Required.	Required.	Required.
PERIOD_NAME	Name of the period bucket under which the requirement will be grouped.	-	Derived.	Derived.	Derived.
QUANTITY	Quantity required on this schedule.	-	Required.	Required.	Required.
CREATION_DATE	Created date	-	Derived.	Derived.	Derived.

Column Name	Description/Valid Value	Validations	Attributes: Required / Optional / Derived	Required for Creating new Period Requirement?	Required for Updating Period Requirement?
CREATED_BY	Name of the person who created it	-	Derived.	Derived.	Derived.
LAST_UPDATE_DATE	Last updated date	-	Derived.	Derived.	Derived.
LAST_UPDATED_BY	Name of the person who updated it last	-	Derived.	Derived.	Derived.
LAST_UPDATE_LOGIN	Login ID of the person who updated it last	-	Derived.	Derived.	Derived.
BATCH_ID	BATCH_ID is mandatory for all interface tables; this is the main parameter of the import program. The BATCH_ID needs to be identical in headers, lines, and schedules.	-	Required.	Required.	Required.
PROCESS_FLAG	Not used	-	-	-	-
PLAN_NAME	The name of the Procurement Plan attached to the project.	-	Required.	Required.	Required.
PROJECT_ID	ID of the project	-	Required.	Required.	Required.

Column Name	Description/Valid Value	Validations	Attributes: Required / Optional / Derived	Required for Creating new Period Requirement?	Required for Updating Period Requirement?
PERIOD_SEQUENCE	Sequence of the period (duration). For example, a schedule has 12 periods, thus each period has a sequence number, that is in sequential order.	Not used	-	-	-
COST_CODE	Project Cost Code if the project is CBS enabled.	Use a valid Cost Code.	Required for CBS enabled projects.	Required for CBS enabled projects.	Required for CBS enabled projects.
UOM	Unit of Measure for the procured quantity.	Derived from the plan line.	Derived.	Derived.	Derived.
ATTRIBUTE_CATEGORY	Schedule Line Descriptive Flexfield Attribute Category.	All Descriptive Flexfield Attributes are validated based on the DFF setup for "Procurement Schedule Progress Flex" (PO_PROC_SCH_PROG_FLEX); Application: PO.	Optional.	Optional.	Optional.
ATTRIBUTE1	Schedule Line Descriptive Flexfield Attribute 1.	-	Optional.	Optional.	Optional.
ATTRIBUTE2	Schedule Line Descriptive Flexfield Attribute 2.	-	Optional.	Optional.	Optional.

Column Name	Description/Valid Value	Validations	Attributes: Required / Optional / Derived	Required for Creating new Period Requirement?	Required for Updating Period Requirement?
ATTRIBUTE3	Schedule Line Descriptive Flexfield Attribute 3.	-	Optional.	Optional.	Optional.
ATTRIBUTE4	Schedule Line Descriptive Flexfield Attribute 4.	-	Optional.	Optional.	Optional.
ATTRIBUTE5	Schedule Line Descriptive Flexfield Attribute 5.	-	Optional.	Optional.	Optional.
ATTRIBUTE6	Schedule Line Descriptive Flexfield Attribute 6.	-	Optional.	Optional.	Optional.
ATTRIBUTE7	Schedule Line Descriptive Flexfield Attribute 7.	-	Optional.	Optional.	Optional.
ATTRIBUTE8	Schedule Line Descriptive Flexfield Attribute 8.	-	Optional.	Optional.	Optional.
ATTRIBUTE9	Schedule Line Descriptive Flexfield Attribute 9.	-	Optional.	Optional.	Optional.
ATTRIBUTE10	Schedule Line Descriptive Flexfield Attribute 10.	-	Optional.	Optional.	Optional.
ATTRIBUTE11	Schedule Line Descriptive Flexfield Attribute 11.	-	Optional.	Optional.	Optional.

Column Name	Description/Valid Value	Validations	Attributes: Required / Optional / Derived	Required for Creating new Period Requirement?	Required for Updating Period Requirement?
ATTRIBUTE12	Schedule Line Descriptive Flexfield Attribute 12.	-	Optional.	Optional.	Optional.
ATTRIBUTE13	Schedule Line Descriptive Flexfield Attribute 13.	-	Optional.	Optional.	Optional.
ATTRIBUTE14	Schedule Line Descriptive Flexfield Attribute 14.	-	Optional.	Optional.	Optional.
ATTRIBUTE15	Schedule Line Descriptive Flexfield Attribute 15.	-	Optional.	Optional.	Optional.
ATTRIBUTE16	Schedule Line Descriptive Flexfield Attribute 16.	-	Optional.	Optional.	Optional.
ATTRIBUTE17	Schedule Line Descriptive Flexfield Attribute 17.	-	Optional.	Optional.	Optional.
ATTRIBUTE18	Schedule Line Descriptive Flexfield Attribute 18.	-	Optional.	Optional.	Optional.
ATTRIBUTE19	Schedule Line Descriptive Flexfield Attribute 19.	-	Optional.	Optional.	Optional.
ATTRIBUTE20	Schedule Line Descriptive Flexfield Attribute 20.	-	Optional.	Optional.	Optional.

Column Name	Description/Valid Value	Validations	Attributes: Required / Optional / Derived	Required for Creating new Period Requirement?	Required for Updating Period Requirement?
NEED_BY_DATE	The date by which you need the quantity to be delivered to the location.	Use a date that falls within the Plan Start Date and Plan End Date.	Required.	Required.	Required.

PO_PROC_PLAN_PROG_INTERFACE Table

Insert data in this table when you need to create a new progress payment or update existing progress payment information on the Plan Line.

Each progress record indicates a payment step that is required on the complex services line.

> **Note:** All columns that require user names (such as Created By) are derived from sysdate/FND_GLOBAL.USER_ID.

Column Name	Description/Field value	Validations	Attributes: Required / Optional / Derived	Required for Creating New Plan Line?	Required for Updating Plan Line?
PAYMENT_TYPE	Required field. The Pay Item types are: Milestone, Rate, and Lumpsum. Plan lines with value basis Quantity can use Milestone pay items only. Line Type of plan lines with value basis Fixed Price can use the three types of pay items.	Enter a valid pay item type: Milestone, Rate, or Lumpsum.	Required.	Required.	Required.

Column Name	Description/Field value	Validations	Attributes: Required / Optional / Derived	Required for Creating New Plan Line?	Required for Updating Plan Line?
PAY_DESCRIPTION	Pay item description.	Free Text.	Required.	Required.	Required.
PAY_QUANTITY	Quantity of units required for the Rate pay item type.	Valid only for Rate pay item type.	Conditional.	Required for Rate pay item type only.	Required for Rate pay item type only.
QUANTITY_ORDERED	Quantity Ordered	-	Derived.	Derived.	Derived.
QUANTITY_RECEIVED	Quantity Received	-	Derived.	Derived.	Derived.
QUANTITY_BILLED	Quantity Billed	-	Derived.	Derived.	Derived.
QUANTITY_CANCELLED	Quantity Cancelled	-	Derived.	Derived.	Derived.
NEED_BY_DATE	The Pay Item is expected to be completed by this date.	Use a date that is within the Procurement Plan Start Date and End Date.	Required.	Required.	Required.
PO_NUMBER	Purchase Order Number that has this Pay Item.	-	Derived.	Derived.	Derived.

Column Name	Description/Field value	Validations	Attributes: Required / Optional / Derived	Required for Creating New Plan Line?	Required for Updating Plan Line?
PAY_UNIT	Unit of Measure for the service to be procured.	Required only for Rate pay item type.	Conditional.	Required only for Rate pay item type.	Required only for Rate pay item type.
PAY_VALUE	Percentage of payment to be made against the total value of the plan line.	-	Required.	Required only for Milestone pay item type.	Required only for Milestone pay item type.
PAY_PRICE	Rate per unit for the pay item of service.	-	Required only for Rate pay item type.	Required only for Rate pay item type.	Required only for Rate pay item type.
PAY_AMOUNT	Total cost of this pay amount.	-	Required only for Lumpsum or Milestone pay item type.	Required only for Lumpsum or Milestone pay item type.	Required only for Lumpsum or Milestone pay item type.
LINKED_SCHEDULES	Not used	-	-	-	-

Column Name	Description/Field value	Validations	Attributes: Required / Optional / Derived	Required for Creating New Plan Line?	Required for Updating Plan Line?
PAY_ITEM	A unique identifier is required for each pay item in a plan line.	-	Required.	Required - Enter a new pay item number.	Required - Enter the pay item number that you need to update.
BATCH_ID	BATCH_ID is mandatory for all interface tables; this is the main parameter of the import program. The BATCH_ID needs to be identical in headers, lines, and schedules.	-	Required.	Required.	Required.
PLAN_NAME	The name of the Procurement Plan associated with the project.	-	Required.	Required.	Required.
PROJECT_ID	ID of the project.	-	Required.	Required.	Required.
CREATION_DATE	Creation Date	-	Derived.	Derived.	Derived.
CREATED_BY	Created By	-	Derived.	Derived.	Derived.
LAST_UPDATE_DATE	Last Update Date	-	Derived.	Derived.	Derived.
LAST_UPDATED_BY	Last Updated By	-	Derived.	Derived.	Derived.

Column Name	Description/Field value	Validations	Attributes: Required / Optional / Derived	Required for Creating New Plan Line?	Required for Updating Plan Line?
LAST_UPDATE_LOGIN	Last Update Login	-	Derived.	Derived.	Derived.
LINE_NUMBER	Procurement Plan Line Number	-	Required.	Required.	Required.
TASK_NUMBER	Task numbers are used to identify the task for which the item or service is procured. Project managers filter by task to check which material was ordered, and if it was received; this enables project managers to decide if the task can be started.	-	Required.	Required.	Required.
COST_CODE	Project Cost Code if the Project is CBS enabled.	-	Required if the project is CBS enabled.	Required if the project is CBS enabled.	Required if the project is CBS enabled.
ATTRIBUTE_CATEGORY	Progress Payment Descriptive Flexfield Attribute Category	Descriptive Flexfield Attributes are validated using the DFF setup for "Procurement Schedule Progress Flex" (PO_PROC_SCH_PROG_FLEX); Application: PO.	Optional.	Optional.	Optional.

Column Name	Description/Field value	Validations	Attributes: Required / Optional / Derived	Required for Creating New Plan Line?	Required for Updating Plan Line?
ATTRIBUTE1	Progress Payment Descriptive Flexfield Attribute 1.	-	Optional.	Optional.	Optional.
ATTRIBUTE2	Progress Payment Descriptive Flexfield Attribute 2.	-	Optional.	Optional.	Optional.
ATTRIBUTE3	Progress Payment Descriptive Flexfield Attribute 3.	-	Optional.	Optional.	Optional.
ATTRIBUTE4	Progress Payment Descriptive Flexfield Attribute 4.	-	Optional.	Optional.	Optional.
ATTRIBUTE5	Progress Payment Descriptive Flexfield Attribute 5.	-	Optional.	Optional.	Optional.
ATTRIBUTE6	Progress Payment Descriptive Flexfield Attribute 6.	-	Optional.	Optional.	Optional.
ATTRIBUTE7	Progress Payment Descriptive Flexfield Attribute 7.	-	Optional.	Optional.	Optional.
ATTRIBUTE8	Progress Payment Descriptive Flexfield Attribute 8.	-	Optional.	Optional.	Optional.
ATTRIBUTE9	Progress Payment Descriptive Flexfield Attribute 9.	-	Optional.	Optional.	Optional.

Column Name	Description/Field value	Validations	Attributes: Required / Optional / Derived	Required for Creating New Plan Line?	Required for Updating Plan Line?
ATTRIBUTE10	Progress Payment Descriptive Flexfield Attribute 10.	-	Optional.	Optional.	Optional.
ATTRIBUTE11	Progress Payment Descriptive Flexfield Attribute 11.	-	Optional.	Optional.	Optional.
ATTRIBUTE12	Progress Payment Descriptive Flexfield Attribute 12.	-	Optional.	Optional.	Optional.
ATTRIBUTE13	Progress Payment Descriptive Flexfield Attribute 13.	-	Optional.	Optional.	Optional.
ATTRIBUTE14	Progress Payment Descriptive Flexfield Attribute 14.	-	Optional.	Optional.	Optional.
ATTRIBUTE15	Progress Payment Descriptive Flexfield Attribute 15.	-	Optional.	Optional.	Optional.
ATTRIBUTE16	Progress Payment Descriptive Flexfield Attribute 16.	-	Optional.	Optional.	Optional.
ATTRIBUTE17	Progress Payment Descriptive Flexfield Attribute 17.	-	Optional.	Optional.	Optional.
ATTRIBUTE18	Progress Payment Descriptive Flexfield Attribute 18.	-	Optional.	Optional.	Optional.

Column Name	Description/Field value	Validations	Attributes: Required / Optional / Derived	Required for Creating New Plan Line?	Required for Updating Plan Line?
ATTRIBUTE19	Progress Payment Descriptive Flexfield Attribute 19.	-	Optional.	Optional.	Optional.
ATTRIBUTE20	Progress Payment Descriptive Flexfield Attribute 20.	-	Optional.	Optional.	Optional.

B

Using Spreadsheets to Create and Update Procurement Plans

Instructions

Overview

This file contains instructions for using the associated spreadsheet to work with your procurement plan.

The spreadsheet enables you to:

- Use a template to create a procurement plan and associate a schedule or progress summary for a project.
- Download an existing procurement plan, update the procurement plan for a project, and upload it after making changes to it.
- Add new lines to an existing procurement plan.

You can create plan lines with a status of Draft or Ready for Planning, either from the interface, or by using the XML spreadsheet. Note that you cannot update the status of a plan line that is Draft to Ready for Planning, using the interface or the spreadsheet. If plan lines are created as draft lines, the only way to update the status is from the Project Manager dashboard.

When you upload the spreadsheet by updating the existing schedule quantity to zero, and if the schedule has an approved purchase order, you can cancel the purchase order automatically using the Implement action.

Note that the cancellation applies only to the line and the remaining purchase order remains the same. However, if the purchase order has only one line and when the the line is cancelled using the Implement action, the PO status changes to Closed.

Prerequisites and Considerations

Before you begin working with the spreadsheet, please take note of the following:

1. The spreadsheet is downloaded as XML, and you must save and upload it in XML. If you use the Save As option, ensure that you do not change the file format; change only the file name.

2. The spreadsheet enables you to work with the procurement plan for a single project.

3. Do not reorder the columns in the spreadsheet.

4. The Microsoft Excel spreadsheet has three worksheets - Plan Lines, Schedules, and Progress Summary. All three sheets must be used in conjunction with each other to define the procurement plan.

5. You may not use the spreadsheet to delete procurement plan lines in the application. To cancel using a plan line for goods, set all schedules to zero. If no downstream document has been created for the plan line, the line will no longer appear in the Procurement Plan page.

6. When you update an existing procurement plan line that has a status other than Draft, the application enables you to update certain columns. The columns that can be updated are clearly identified in the table below. To improve the efficiency of the update process, the application validates only those columns that are updatable, and discards any changes made to columns that are not eligible for update.

7. You must enter each requirement as a separate row in the spreadsheet.

8. Data entered into the spreadsheet is case-sensitive. The application is not designed to validate and accept data entered in the incorrect case.

9. You must enter data within the column range specified in the spreadsheet. When you insert or populate a new row, ensure that all required attributes are populated with valid values. The application attempts to parse all data (including white spaces) entered in a new row or in a column outside the specified column range. Data entered outside the column range could lead to unexpected errors during processing, which can be difficult to troubleshoot.

10. Any number of users can download the procurement plan using this method. However, multiple users cannot make changes to the procurement plans of the same project simultaneously. When a user successfully uploads their procurement plan, the application blocks any updates to the same procurement plan, if the spreadsheet was downloaded before the recent most spreadsheet upload.

    For example, User 1 and User 2 download the procurement plan spreadsheet for

Project A. Both users make changes to the Procurement Plan. User 1 uploads the procurement plan back into the application. When User 2 tries to upload their procurement plan, the application will not process their spreadsheet. This is to ensure users do not overwrite each other's work.

How to Use the Spreadsheet

To perform the spreadsheet upload process:

1. When you click Download for a project that does not contain a Procurement Plan, Oracle Projects downloads an XML spreadsheet template. If you click Download for a project with a procurement plan, the XML spreadsheet displays all the existing Plan Lines, Schedules, and the Progress Summary.

2. Save the XML spreadsheet document to a local folder. If you use Microsoft Windows and Microsoft Office Excel, double-clicking the file should open the spreadsheet in Microsoft Office Excel. If that does not work, or if the file opens in a different application, you can associate a file-type using the following:

   Right-click on the extracted XML file and select the option **Open With** >**Choose Program** > Microsoft Office Excel.

3. In the spreadsheet, insert new information, or update existing details for lines, schedules, and progress summary. Read this section for information about how each field in the spreadsheet is validated.

4. Click the **Save** or **Save As** option to save the spreadsheet in the same format. If the application prompts you, opt to save the spreadsheet in XML.

5. Click **Browse**, select the file that you saved in your local drive, and then click **Upload**.

Elements of a Procurement Plan

A procurement plan may be updated during the lifecycle of a project. There are some functional restrictions to updating a Procurement Plan.

Plan Line: A procurement plan consists of many plan lines. Each plan line is for a specific item or service to be procured for the project. When you need to procure an item or service for a project, use the spreadsheet to create a new line in the procurement plan. When you create a new line, you need to specify certain information such as Item Number or Description, Planning Rate, UOM, Currency, Expenditure Type, and so on. These values are used in downstream procurement documents at a later time.

Schedules: A specific item might be required on a project during multiple time-periods, while performing multiple tasks, and need to be delivered to multiple locations. To do this, specify the quantity of the item required for each delivery date and location for the project duration for a task, or for a combination of task and delivery-location.

Progress Summary: A project may require complex services, for which payment is based on the progress of work. Using the Progress Summary, specify the different type of pay items and the payment to be released, based on the progress of work during the project duration for a task.

Descriptive Flex Field (DFF) Attributes

DFF attributes are available in the plan line, schedules, and progress summary. You can populate DFF attributes using the spreadsheet import, or the interface tables. DFF attributes are validated using flexfield APIs. The plan lines or schedules are not imported if the data entered in the attributes is not compatible with the DFF setup. You can search or filter data using DFF attributes.

The Upload Process and Error Handling

When you upload the procurement plan, the application automatically runs the Procurement Plan Import concurrent program. Success or failure is clearly indicated on the **Procurement Plan** page. The program attempts to process all lines entered in the spreadsheet. If any line has a validation error, the process is completely rolled back, and the application displays the entire set of error messages which indicate what the problem is. Use the instructions provided in the spreadsheet to correct the data and re-upload the sheet.

Note that due to the architecture of the XML Parsing program, the application does not individually validate for certain errors. For example: Line Type is NULL, alpha-numeric characters entered in planning rate field, and so on. For errors like these, the concurrent program fails with a generic error message indicating that the worksheet has invalid data. Verify that all required fields are populated, and that there are no character values in a numeric field and then retry the upload.

Plan Lines Spreadsheet Columns

The following table describes each column in the spreadsheet and its corresponding field in the application, including descriptions, rules, and validations.

Field Name	Description	Validations	Rules for Create Plan Line	Rules for Update Plan Line
Line Number	A unique number (primary key) for each plan line within a project. Track multiple period requirements or progress summary to the plan line using the Plan Line Number.	Required field. Positive Integer.	Enter a number that does not exist in the system, or in the spreadsheet, to create a new plan line.	Enter the plan line that needs to be updated.
Line Type	Line Type that is used in the purchase order when this line is purchased.	Required field. Only line types with a value basis of Quantity, Amount, or Fixed Price are valid. Value basis of Rate is not supported currently.	Enter a valid Line Type: Quantity, Amount, or Fixed Price.	You can change the Line Type only when the Plan Line has a Draft status.
Version Number	Current version number of the plan line.	Read-Only field.	Version number is 0 (numeric zero) when plan line has a Draft status. Version Number will be incremented only when the plan line does not have Draft status.	You cannot update the Version Number.

Field Name	Description	Validations	Rules for Create Plan Line	Rules for Update Plan Line
Category	Concatenated Segments of Purchasing Category. For example: HARDWARE. KEYBOARD.	Required if Item Number is not specified.	Enter any valid Purchasing Category	For plan lines with Item Number, you can update the Category only when the plan line has a status of Draft. For plan lines without Item Number, you can update the Category any time.

Field Name	Description	Validations	Rules for Create Plan Line	Rules for Update Plan Line
Item Number	Item or Inventory Item (in Item Master) to be procured.	Valid for Line Types with a value basis of "Quantity" only. Item Number should not be populated if the Line Type has a value basis of Amount or Fixed Price. Any valid purchasable item available in the Item Master, and enabled in the Inventory Organization of the Operating Unit, as specified in Financial Options (Use a Purchasing responsibility > Setup > Organizations > Financial Options). Either Item Number, or Category, and Description are required.	Enter a valid Item Number.	You can update the Item Number only when the Plan Line has a Draft status.

Field Name	Description	Validations	Rules for Create Plan Line	Rules for Update Plan Line
Description	One-time item or service description	240 characters length. Enter Description if no Item Number is specified. If you have entered the Item Number, the Description you enter will be disregarded, because Description is defaulted from the Description defined in the Item Master for the item.	Enter a Description.	You can update the Description any time.
Destination	Final Destination of the item or service.	Valid values for destination type are Expense and Inventory.	Enter a Destination.	You can update the Destination only when the plan line has a Draft status.
Status	Status of the plan line	Read-Only	A new plan line is always created with a status of Draft.	You cannot update the Status.

Field Name	Description	Validations	Rules for Create Plan Line	Rules for Update Plan Line
Buyer	Buyer to which the plan line is assigned	Optional field. Value should correspond to a name in Human Resources (FULL_NAME in PER_ALL_PEOPLE_F). If the value of the profile option PO: Enforce Project Security is Yes, any valid buyer, who is also a key member of the project is specified. If the value of the profile option is No, any valid buyer is specified.	Enter the full name of the buyer.	Update the Buyer Name on a plan line any time.
Parent Line	Line Number of a plan line that is related to current plan line as a parent line.	Optional field. Positive integer.	-	Enter a number that exists in the application in the "Ready To Order" status. You can update the Parent Line only when the plan line has a Draft Status.

Field Name	Description	Validations	Rules for Create Plan Line	Rules for Update Plan Line
Suggested Supplier	The Project Manager would like to recommend this supplier name to the buyer for procuring the plan line item or service.	Optional field. Enter either an existing supplier name (that matches with a supplier name in the supplier master), or a new supplier who doesn't exist in the system. If the entered supplier matches with a supplier in the supplier master, the ID of this supplier is stored. Otherwise, the entered supplier is considered a new supplier suggested by the project manager.	Enter the name of a supplier.	You can update the Suggested Supplier value any time.
Acquisition Strategy Primary Objective	Specify the primary objective while selecting the supplier for this plan line.	Optional field. Acceptable values are available in the lookup PA_PSC_SUPP_SELECTION	Enter a valid value.	You can update the Acquisition Strategy Primary Objective any time.
Acquisition Strategy Secondary Objective	Specify the secondary objective while selecting the supplier for this plan line.	Optional field. Acceptable values are available in the lookup PA_PSC_SUPP_SELECTION	Enter a valid value.	You can update the Acquisition Strategy Secondary Objective any time.

Field Name	Description	Validations	Rules for Create Plan Line	Rules for Update Plan Line
Source System Name	Enter the source system name to identify which source system the requirement came from. This is to synchronize with third-party Engineering models or any other third-party system.	Optional field. 240 characters.	-	You can update the Source System Name any time.
Source System Document Number	Enter the source system document number to identify which source system the requirement came from. This is to synchronize with third-party Engineering models or any other third-party system.	Optional field. 240 characters.	-	You can update the Source System Document Number any time.
Source System Document Version	Enter the source system document version to identify which source system the requirement came from. This is to synchronize with third-party Engineering models or any other third-party system.	Optional field. 240 characters.	-	You can update the Source System Document Version any time.

Field Name	Description	Validations	Rules for Create Plan Line	Rules for Update Plan Line
Source System Line Number	Enter the source system line number to identify which source system the requirement came from. This is to synchronize with third-party Engineering models or any other third-party system.	Optional field. 240 characters.	-	You can update the Source System Line Number any time.
Source System Line Version	Enter the source system line version to identify which source system the requirement came from. This is to synchronize with third-party Engineering models or any other third-party system.	Optional field. 240 characters.	-	You can update the Source System Line Version any time.
Source System Date	Enter the source system date to identify which source system the requirement came from. This is to synchronize with third-party Engineering models or any other third-party system.	Optional field. 240 characters.	-	You can update the Source System Date any time.

Field Name	Description	Validations	Rules for Create Plan Line	Rules for Update Plan Line
Additional Information	Enter any additional information or specifications relevant to the plan line.	Optional field. 2000 characters.	-	You can update the Additional Information any time.
Expenditure Type	Each project has a list of expenditure types. Project Managers track how much spend takes place for each expenditure type in a plan line.	Required field. Any valid expenditure type on the project.	Enter a valid Expenditure Type.	You can update the Expenditure Type any time.

Field Name	Description	Validations	Rules for Create Plan Line	Rules for Update Plan Line
Planning Currency	Currency code for the item to be procured as entered in the plan.	Required field. If the currency is not specified then the functional currency of the operating unit will be considered as Planning currency. If the specified currency is different from the functional currency of the Operating Unit or the Project's Primary Currency, the currency conversion rate has to be specified in the Financial Forecast in the Project Procurement Setup. The system derives a valid exchange rate on the first day of each month for the entire duration of the project.	Enter a valid Currency Code.	You can update the Planning Currency when the plan line has a Draft status only.
Planning Rate	The per-unit rate in the planning currency, at which you plan to procure the item/service for this project. For line-types with value-basis "Amount", planning rate will be overwritten and defaulted to 1.	Required field. Any positive decimal, that is rounded to the extended currency precision.	Enter a valid Planning Rate for the plan line.	You can update the Planning Rate any time.

Field Name	Description	Validations	Rules for Create Plan Line	Rules for Update Plan Line
Planning Amount	Calculated from planning rate and overall planned quantity.	Read-Only field.	-	-
Committed Amount	Amount of this line requisitioned.	Read-Only field.	-	-
Obligated Amount	Amount of this line on a purchase order.	Read-Only field.	-	-
Received Amount	Total amount received for the purchase order.	Read-Only field.	-	-
Invoiced Amount	Total amount invoiced for the purchase order.	Read-Only field.	-	-
Retained Amount	Total amount withheld from payment for the plan line.	Read-Only field.	-	-
Paid Amount	Total amount paid for the invoices created for the plan line.	Read-Only field.	-	-

Field Name	Description	Validations	Rules for Create Plan Line	Rules for Update Plan Line
UOM	Unit of Measure for the item to be procured.	Conditionally required field. UOM is required for Plan lines with line types with value basis "Quantity" or "Amount". UOM is not mandatory for plan lines with value basis of "Fixed Price". UOM field is not mandatory when Inventory Item Number is entered. If left blank, the Primary UOM of the Inventory Item Number is used.	Enter a valid UOM.	You can enter a UOM for one-time items any time.
Quantity Planned	Total Quantity on the plan line (sum of requirements).	Read-Only field.	-	-
Quantity Requested	Total Quantity on a purchase requisition.	Read-Only field.	-	-
Quantity Ordered	Total Quantity on a purchase order.	Read-Only field.	-	-
Quantity Received	Total Quantity received for a purchase order.	Read-Only field.	-	-
Quantity Rejected	Total Quantity rejected during quality inspection.	Read-Only field.	-	-

Field Name	Description	Validations	Rules for Create Plan Line	Rules for Update Plan Line
Quantity Overdue	Total quantity that is yet to be received on shipments that are beyond the promised date of the plan line.	Read-Only field.	-	-
Next Shipment Date	The next expected shipment for plan lines that have due or overdue shipments.	Read-Only field.	-	-
Attribute Category	Descriptive Flexfield Attribute Category.	Optional.	-	-
ATTRIBUTE 1	Plan Line Attribute Descriptive Flexfield 1.	Optional.	-	-
ATTRIBUTE 2	Plan Line Attribute Descriptive Flexfield 2.	Optional.	-	-
ATTRIBUTE 3	Plan Line Attribute Descriptive Flexfield 3.	Optional.	-	-
ATTRIBUTE 4	Plan Line Attribute Descriptive Flexfield 4.	Optional.	-	-
ATTRIBUTE 5	Plan Line Attribute Descriptive Flexfield 5.	Optional.	-	-
ATTRIBUTE 6	Plan Line Attribute Descriptive Flexfield 6.	Optional.	-	-

Field Name	Description	Validations	Rules for Create Plan Line	Rules for Update Plan Line
ATTRIBUTE 7	Plan Line Attribute Descriptive Flexfield 7.	Optional.	-	-
ATTRIBUTE 8	Plan Line Attribute Descriptive Flexfield 8.	Optional.	-	-
ATTRIBUTE 9	Plan Line Attribute Descriptive Flexfield 9.	Optional.	-	-
ATTRIBUTE 10	Plan Line Attribute Descriptive Flexfield 10.	Optional.	-	-
ATTRIBUTE 11	Plan Line Attribute Descriptive Flexfield 11.	Optional.	-	-
ATTRIBUTE 12	Plan Line Attribute Descriptive Flexfield 12.	Optional.	-	-
ATTRIBUTE 13	Plan Line Attribute Descriptive Flexfield 13.	Optional.	-	-
ATTRIBUTE 14	Plan Line Attribute Descriptive Flexfield 14.	Optional.	-	-
ATTRIBUTE 15	Plan Line Attribute Descriptive Flexfield 15.	Optional.	-	-
ATTRIBUTE 16	Plan Line Attribute Descriptive Flexfield 16.	Optional.	-	-

Field Name	Description	Validations	Rules for Create Plan Line	Rules for Update Plan Line
ATTRIBUTE 17	Plan Line Attribute Descriptive Flexfield 17.	Optional.		
ATTRIBUTE 18	Plan Line Attribute Descriptive Flexfield 18.	Optional.	-	-
ATTRIBUTE 19	Plan Line Attribute Descriptive Flexfield 19.	Optional.	-	-
ATTRIBUTE 20	Plan Line Attribute Descriptive Flexfield 20.	Optional.	-	-

Details of the Schedules Worksheet Columns

The following table describes each column in the spreadsheet and its corresponding field in the application, including descriptions, rules, and validations.

Field Name	Description	Validations	Rules for Create Plan Line	Rules for Update Plan Line
Schedule Number	A number by which the schedule is identified. Unique within a plan-line and is the primary key for the schedule line.	Required field; positive integer.	Enter a Schedule Number that does not exist in the system, or in the sheet, for the plan line.	Enter the Schedule Number to update.
Line Number	Line Number to which requirements are specified.	Required field.	Enter a plan line number that exists in the spreadsheet, or in the system.	Update a plan line number that exists in the spreadsheet, or in the system.

Field Name	Description	Validations	Rules for Create Plan Line	Rules for Update Plan Line
Line Type	Line Type on the associated Plan Line, for reference during updates.	Read-Only field.	-	-
Category	Category on the associated plan line, for reference during updates.	Read-Only field.	-	-
Item Number	Item Number on the associated plan line, for reference during updates.	Read-Only field.	-	-
Description	Description on the associated plan line, for reference during updates.	Read-Only field.	-	-
Task Number	Used to identify the task for which the material is procured. Filter by task to check what material was ordered, and received; helps the project manager decide if the task can be started or not.	Required field. Any valid task number on the project. Task number is a text column and if the task has any numeric value, the column should be formatted manually using a single quote.	Enter a valid Task Number.	You can update the Task Number any time.
UOM	Unit of Measure for the items to be procured.	Read-Only field.	-	-

Field Name	Description	Validations	Rules for Create Plan Line	Rules for Update Plan Line
Location	Deliver-To Location for the item.	Optional field. Enter a valid Deliver-To Location for the operating unit of the project.	Enter a valid Deliver-To Location.	You can update the Deliver-To Location any time.
Requirement	Quantity of each item (or amount for an amount based line) required. Enter the Need By Date for the Quantity.	Required field. Non-negative decimal number.	Enter a Quantity and also a Need By Date. Enter zero if the item is not required.	You can update the Requirement any time.
Attribute Category	Schedules Descriptive Flexfield Category.	Optional.	-	-
ATTRIBUTE1	Schedules Descriptive Flexfield 1.	Optional.	-	-
ATTRIBUTE2	Schedules Descriptive Flexfield 2.	Optional.	-	-
ATTRIBUTE3	Schedules Descriptive Flexfield 3.	Optional.	-	-
ATTRIBUTE4	Schedules Descriptive Flexfield 4.	Optional.	-	-
ATTRIBUTE5	Schedules Descriptive Flexfield 5.	Optional.	-	-

Field Name	Description	Validations	Rules for Create Plan Line	Rules for Update Plan Line
ATTRIBUTE6	Schedules Descriptive Flexfield 6.	Optional.	-	-
ATTRIBUTE7	Schedules Descriptive Flexfield 7.	Optional.	-	-
ATTRIBUTE8	Schedules Descriptive Flexfield 8.	Optional.		
ATTRIBUTE9	Schedules Descriptive Flexfield 9.	Optional.	-	-
ATTRIBUTE10	Schedules Descriptive Flexfield 10.	Optional.	-	-
ATTRIBUTE11	Schedules Descriptive Flexfield 11.	Optional.	-	-
ATTRIBUTE12	Schedules Descriptive Flexfield 12.	Optional.	-	-
ATTRIBUTE13	Schedules Descriptive Flexfield 13.	Optional.	-	-
ATTRIBUTE14	Schedules Descriptive Flexfield 14.	Optional.	-	-
ATTRIBUTE15	Schedules Descriptive Flexfield 15.	Optional.	-	-

Field Name	Description	Validations	Rules for Create Plan Line	Rules for Update Plan Line
ATTRIBUTE16	Schedules Descriptive Flexfield 16.	Optional.	-	-
ATTRIBUTE17	Schedules Descriptive Flexfield 17.	Optional.	-	-
ATTRIBUTE18	Schedules Descriptive Flexfield 18.	Optional.	-	-
ATTRIBUTE19	Schedules Descriptive Flexfield 19.	Optional.	-	-
ATTRIBUTE20	Schedules Descriptive Flexfield 20.	Optional.	-	-

Details of the Progress Summary Worksheet Columns

The following table describes each column in the spreadsheet and its corresponding field in the application, including descriptions, rules, and validations.

Field Name	Description	Validations	Rules for Create Plan Line	Rules for Update Plan Line
Pay Item Number	A number by which the Pay item is identified. Unique within a plan-line and is the primary key for the Pay item line.	Required field; positive integer.	Enter a Pay Item Number that does not exist for the plan line in the application, or in the sheet.	Enter the Pay Item Number to update.

Field Name	Description	Validations	Rules for Create Plan Line	Rules for Update Plan Line
Line Number	Line number for the specified pay items.	Required field.	Enter a Plan Line Number that exists either in the sheet, or in the application.	Update a plan Line Number that exists either in the sheet, or in the application
Pay Item Type	The Pay Item type can be Milestone, Rate and Lumpsum. Plan lines having line type with value basis as "Quantity" can have Milestone pay items only. Plan lines having line type with value basis as "Fixed Price" can have all the three types of pay items.	Required field.	Enter a valid Pay Item Type.	You can update the Pay Item Type only if the plan line has a status Draft.
Pay Item Description	Describes the pay item.	Required field.	-	You can update the Pay Item Description any time.

Field Name	Description	Validations	Rules for Create Plan Line	Rules for Update Plan Line
Task Number	Used to identify the task for which the service is procured. Filter by task to check what material was ordered, and received; helps the project manager decide if the task can be started or not.	Required field. Any valid task number on the project. Task Number is a text column and if the task number contains any numeric value, the column should be formatted manually with single quotes.	Enter a valid Task Number.	You can update the Task Number any time.
Quantity	Quantity to be used for the "Rate" pay item type.	Conditionally required field.	Enter the Quantity.	You can update the Quantity any time.
UOM	Unit of Measure for the service to be procured.	Conditionally required field. UOM is required only for the "Rate" pay item type.	Enter a valid UOM.	You can update the UOM any time.
Value (%)	Percentage of Payment made for the plan line.	Conditionally required field. Value (%) is required for the "Milestone" pay item type.	Enter the Value (%).	You can update the Value (%) any time.
Price	The unit rate in the planning currency, at which you plan to procure the service for the project.	Required field. Any positive decimal. Rounded to the currency precision.	Enter a valid Price for the plan line.	You can update the Price any time.

Field Name	Description	Validations	Rules for Create Plan Line	Rules for Update Plan Line
Amount	Calculated from the Quantity, Price, and Value (%).	Read-Only field.	-	-
Need-By Date	Date by when the service is to be delivered.	Required field. Enter a current or future date.	Enter a Need-By Date for the pay item.	You can update the Need-By Date any time.
PO Number	The Purchase Order created for the plan lines and pay items.	Read-Only field.	-	-
Quantity/Amount Ordered	Total Quantity/Amount ordered on a Purchase Order for the pay item.	Read-Only field.	-	-
Quantity/Amount Received	Total Quantity/Amount received on a Purchase Order against the pay item.	Read-Only field.	-	-
Quantity/Amount Billed	Total Quantity/Amount billed for a Purchase Order against the pay item.	Read-Only field.	-	-
Quantity/Amount Cancelled	Total Quantity/Amount canceled for a Purchase Order against the pay item.	Read-Only field.	-	-

Field Name	Description	Validations	Rules for Create Plan Line	Rules for Update Plan Line
Attribute Category	Schedule Progress Descriptive Flexfield Category.	Optional.	-	-
ATTRIBUTE1	Schedule Progress Descriptive Flexfield 1.	Optional.	-	-
ATTRIBUTE2	Schedule Progress Descriptive Flexfield 2.	Optional.	-	-
ATTRIBUTE3	Schedule Progress Descriptive Flexfield 3.	Optional.	-	-
ATTRIBUTE4	Schedule Progress Descriptive Flexfield 4.	Optional.	-	-
ATTRIBUTE5	Schedule Progress Descriptive Flexfield 5.	Optional.	-	-
ATTRIBUTE6	Schedule Progress Descriptive Flexfield 6.	Optional.	-	-
ATTRIBUTE7	Schedule Progress Descriptive Flexfield 7.	Optional.	-	-

Field Name	Description	Validations	Rules for Create Plan Line	Rules for Update Plan Line
ATTRIBUTE8	Schedule Progress Descriptive Flexfield 8.	Optional.	-	-
ATTRIBUTE9	Schedule Progress Descriptive Flexfield 9.	Optional.	-	-
ATTRIBUTE10	Schedule Progress Descriptive Flexfield 10.	Optional.	-	-
ATTRIBUTE11	Schedule Progress Descriptive Flexfield 11.	Optional.	-	-
ATTRIBUTE12	Schedule Progress Descriptive Flexfield 12.	Optional.	-	-
ATTRIBUTE13	Schedule Progress Descriptive Flexfield 13.	Optional.	-	-
ATTRIBUTE14	Schedule Progress Descriptive Flexfield 14.	Optional.	-	-
ATTRIBUTE15	Schedule Progress Descriptive Flexfield 15.	Optional.	-	-

Field Name	Description	Validations	Rules for Create Plan Line	Rules for Update Plan Line
ATTRIBUTE16	Schedule Progress Descriptive Flexfield 16.	Optional.	-	-
ATTRIBUTE17	Schedule Progress Descriptive Flexfield 17.	Optional.	-	-
ATTRIBUTE18	Schedule Progress Descriptive Flexfield 18.	Optional.	-	-
ATTRIBUTE19	Schedule Progress Descriptive Flexfield 19.	Optional.	-	-
ATTRIBUTE20	Schedule Progress Descriptive Flexfield 20.	Optional.	-	-

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