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Project System
SAP Suite Solution Management

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Introduction

Project System is part of SAP's solution for Project and Portfolio Management. Project System helps you manage the project through its entire life cycle, from setting up a structure, to drawing up detailed plans, to execute and completing the project.

Because of its tight integration into financial and logistic core enterprise processes Project System can especially be used for large and complex projects such as construction, production, maintenance, investment, or costs projects in all industries.

Project Builder and Project Planning Board
Project Structuring

In Project System you can use Work Breakdown Structures (WBS) and Networks to structure your projects hierarchical and/or using network techniques. Milestones and documents help you to mark project events of particular interest and document your project appropriate.

You can set up project structures manually or based on templates. Project structures can also be created automatically from sales documents or cProjects projects for example.

Using access control lists, partner data and persons responsible you can easily define authorizations and responsibilities for project elements.
Project Scheduling

Project System provide various date planning functions. Flexible scheduling techniques can be used to calculate earliest/latest dates, floats or critical paths within projects.

Dependent dates, such as requirement dates of materials, services or capacities, billing dates or periods of planned costs can automatically be derived from planned dates.

Comparing forecasted, planned and actual dates you can easily identify deviations from your project plan.

Additional tools such as Progress Tracking, Subnetwork Monitor, Simulations or Milestone Trend Analysis enables you to manage the dates of your projects efficiently.
Capacity and Workforce Planning

Networks in Project System enables you to plan, analyze and level work center based capacity requirements of your project.

You can use simulation versions for what-if analysis of your project schedules and capacity requirements.

For detailed workforce planning you can assign organizational units or individual personnel resources to work packages of your project.

Because of the tight integration of Project System to Human Capital Management you can directly access the availability or even qualifications of employees if required during workforce planning.
Material and External Service Planning

If you assign material components to Networks you can plan material requirements based on your project schedule, check the material availability and trigger the material procurement and delivery later on.

Functions such as project specific bills of material, bill of material transfer, the open catalog interface or integrations to Integrated Product and Process Engineering (iPPE) helps you to plan materials efficiently in Project System.

In order to plan external services you can directly use purchasing info records, outline agreements or service specifications from Materials Management in Project System. The open catalog interface allows you to select services also from internal or external service catalogs.
You can use various techniques for planning costs and revenues in Project System depending on your financial planning requirements.

So the cost planning capabilities for example range from overall cost planning to Easy Cost Planning or detailed network costing.

Sales Pricing helps you to create quotations for customer projects based on the planned costs.

Project milestones can be used to derive billing dates automatically from the project schedule.

Project System cash management also allows you to plan and monitor incoming and outgoing payments for projects.
Budget Management

Budget is the approved cost structure for a project. You can allocate budget to projects in Investment Management or directly in Project System.

Budgets can be distributed hierarchically within the project structure. If required you can successively release budgets and post updates, such as budget supplements or returns.

Budget availability control enables you to control costs actively by issuing warnings and error messages when tolerance limits of the budget are exceeded because of assigned values.

Allocation and Mass Release of Project Budgets
Confirmations

In the execution phase of projects confirmations can be used to document the actual work performed and the progress of individual work packages.

Using confirmations you can also enter forecast information such as the remaining work or duration.

Because of confirmations the dates and capacity requirements of your project will be adapted and actual costs are posted automatically to the project.

Project System provides various confirmation options including individual and collective confirmations, integration to the Cross Application Time Sheet (CATS) or external interfaces.
Reservations or purchase requisitions can automatically be created for a project based on your material and external service planning.

You can easily track all follow up in-house production and purchasing processes related to your project for example using the ProMan or Progress Tracking.

Commitments and actual costs because of purchasing documents, material movements or invoices are automatically posted to the project.

Valuated project stock helps you to manage and valuate material in your project independently if required.
Cost Integration and Billing

Costs actually incurred are posted directly to your project by account assignment of documents in Financial Accounting, Controlling or Materials Management for example.

Using Execution Services you can also directly post various documents in Easy Cost Planning based on planned values.

Costs of orders assigned to your project can be analyzed in project reporting and will be checked against the project budget.

Milestone billing and resource related billing can be used in customer projects to control billing processes based on the project progress.
Project System supports Claim Management using a notification type called "claim". You can use claims to document variances from your project plan, name the person responsible, and initiate follow-up activities.

Costs that are caused by a deviation can be planned using claims and integrated into your project plan.

Standard workflows can be used in Claim Management for approval processes.

Other standard workflows are available in Project System in order to notify persons responsible in case of deviations affecting purchase orders or project capacity and date planning.
Milestone trend analysis and Progress Tracking can be used to effectively monitor the project schedule.

Progress Analysis in Project System provides several methods and interfaces to derive and analyze the POC and other project progress values of your project or individual work packages.

Using the Progress Analysis Workbench you can easily monitor and enter all progress related data for several projects simultaneously.

Forecast values can be calculated or entered manually using the Forecast Workbench for example.
Period-End Closing

You can perform various period-end closing procedures on your project to ensure that all project data belonging to a period is determined and available for purposes of enterprise control.

Typical period-end closing procedures for projects are:

- Overhead calculation
- Template allocation
- Project interest calculation
- Progress and results analysis
- Project related incoming order analysis
- Settlement

You can use the Schedule Manager to easily plan, carry out and control your period-end closing procedures.

Overhead Calculation and Schedule Manager
Project Reporting

Project System provides various standard reports for realtime reporting of financial and logistic project data as well as predefined BI content.

Using report-report interfaces you can directly navigate from one report to other more detailed reports.

You can also define your own reports and queries depending on your reporting requirements.

Project System reports include:

- Project and individual structure reports
- Resource and material reports
- Hierarchy, cost element and line item reports
- Claim and project progress reports
Interfaces

Project System provides several options to exchange project data with external systems. For example, you can use various BAPIs to export, import, or maintain project data.

Based on the BAPI technology, the OpenPS interface allows you to interchange project data with Microsoft Project Client based on predefined mapping rules.

As of SAP ERP 6.0 Enhancement Package 3, more than 50 Enterprise Services are available to interchange project data with other systems too. More information on Enterprise Services for Projects can be found on the Enterprise Services Workplace: [www.sdn.sap.com/irj/sdn/esworkplace](http://www.sdn.sap.com/irj/sdn/esworkplace)
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