

SAP Project System

Overview

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Project System
SAP Suite Solution Management

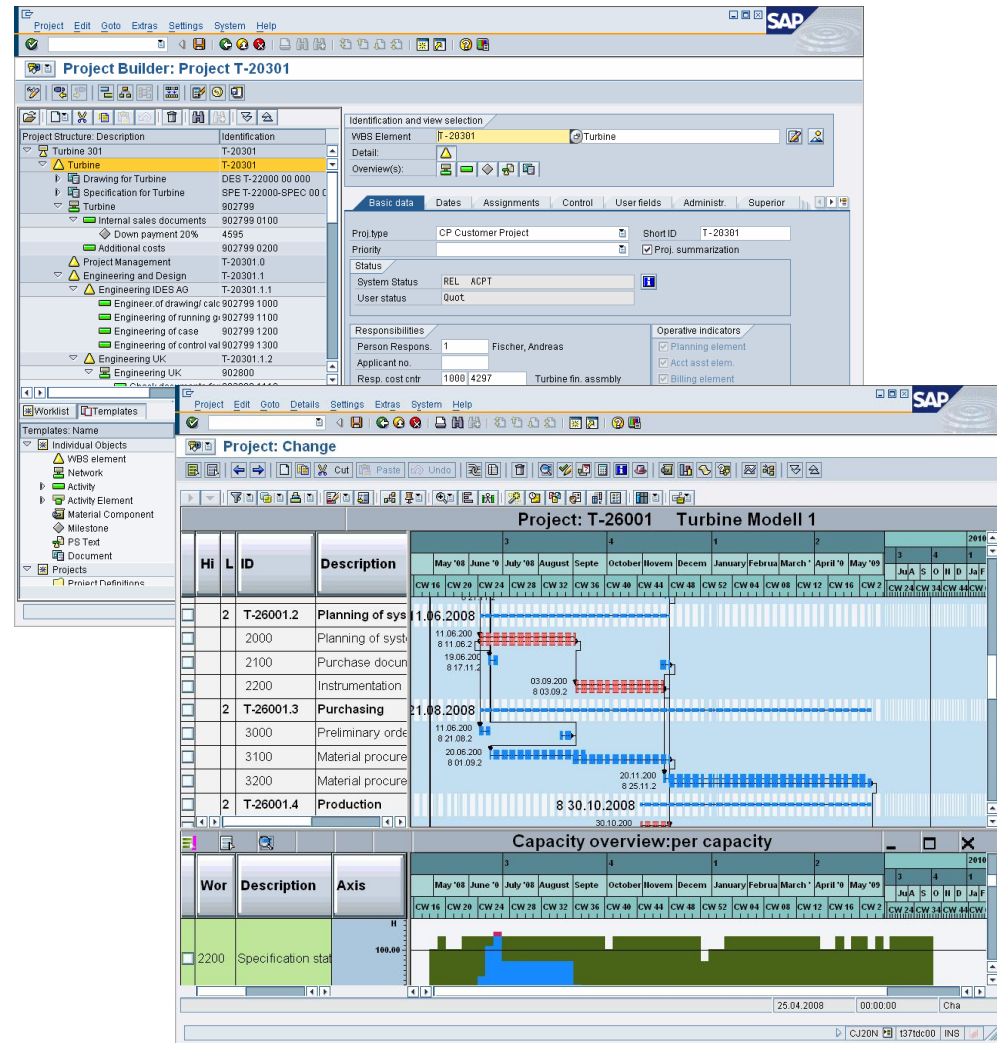
28.04.2008

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

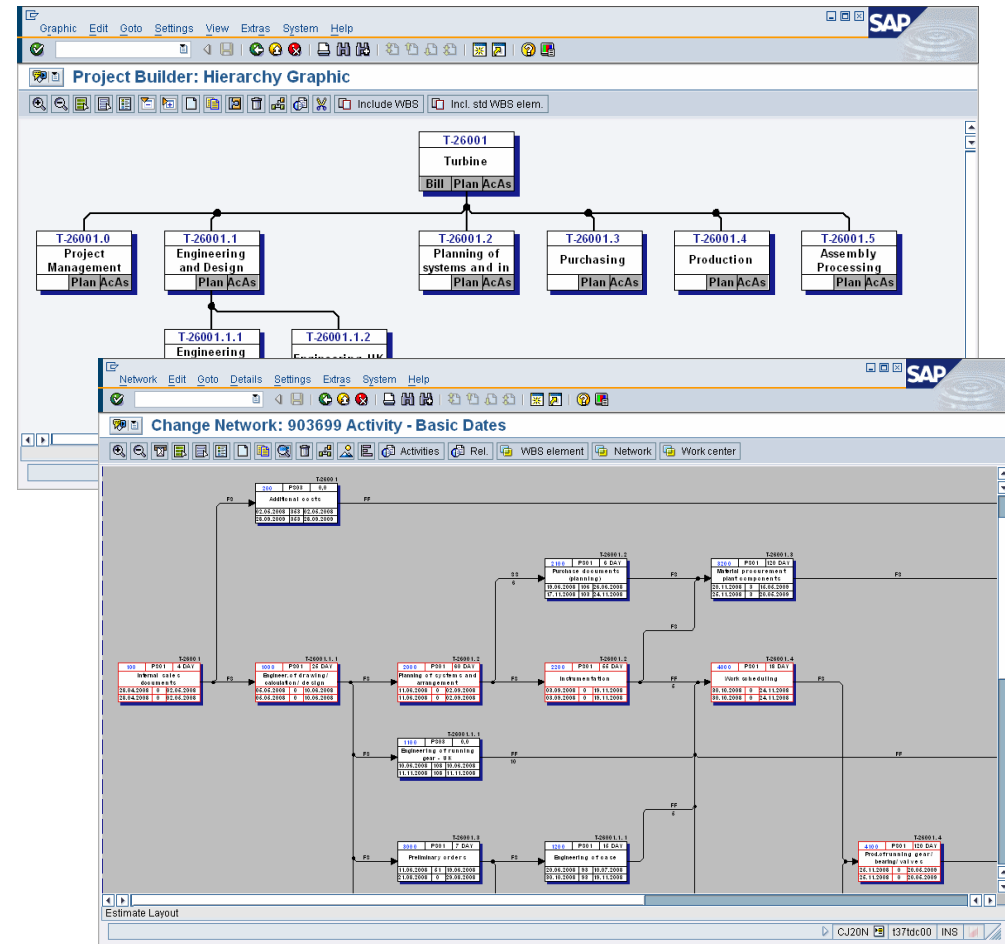
Project Structuring



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.



Graphical Display of WBS and Networks

Project Scheduling

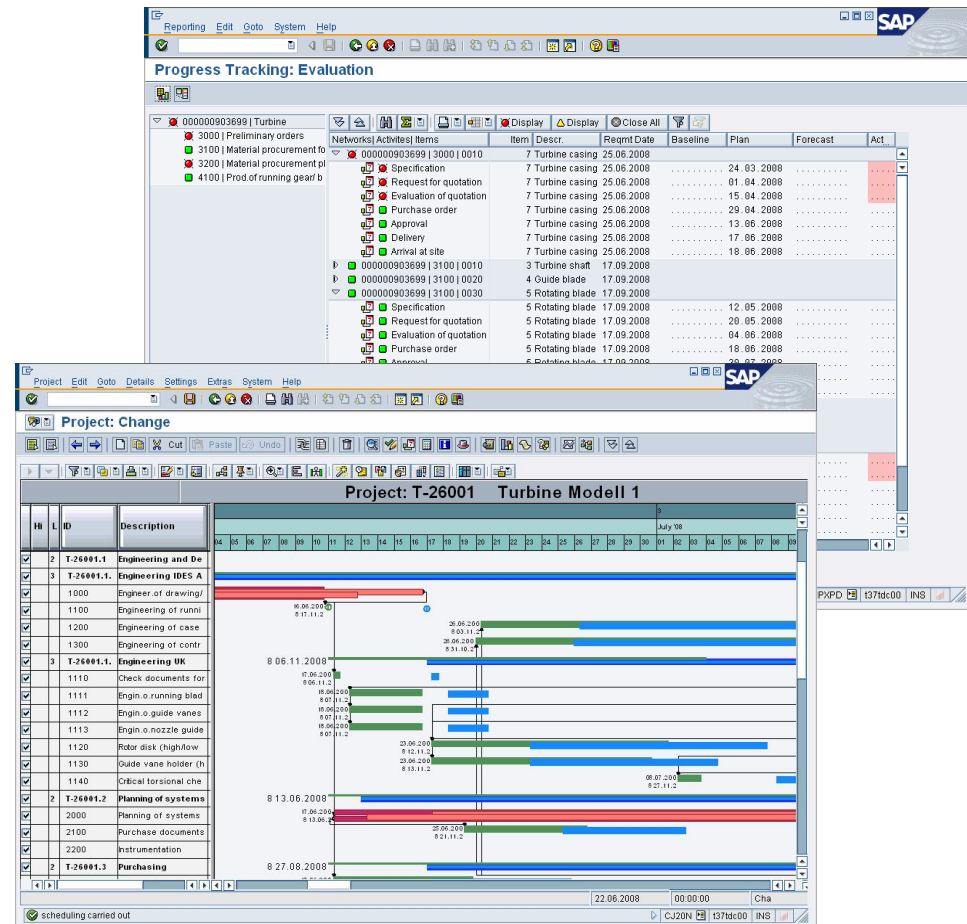


Project System provide various date planning functions. Flexible scheduling techniques can be used to calculate earliest/latest dates, floats or critical paths within projects.

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.



Progress Tracking and Project Planning Board

Capacity and Workforce Planning

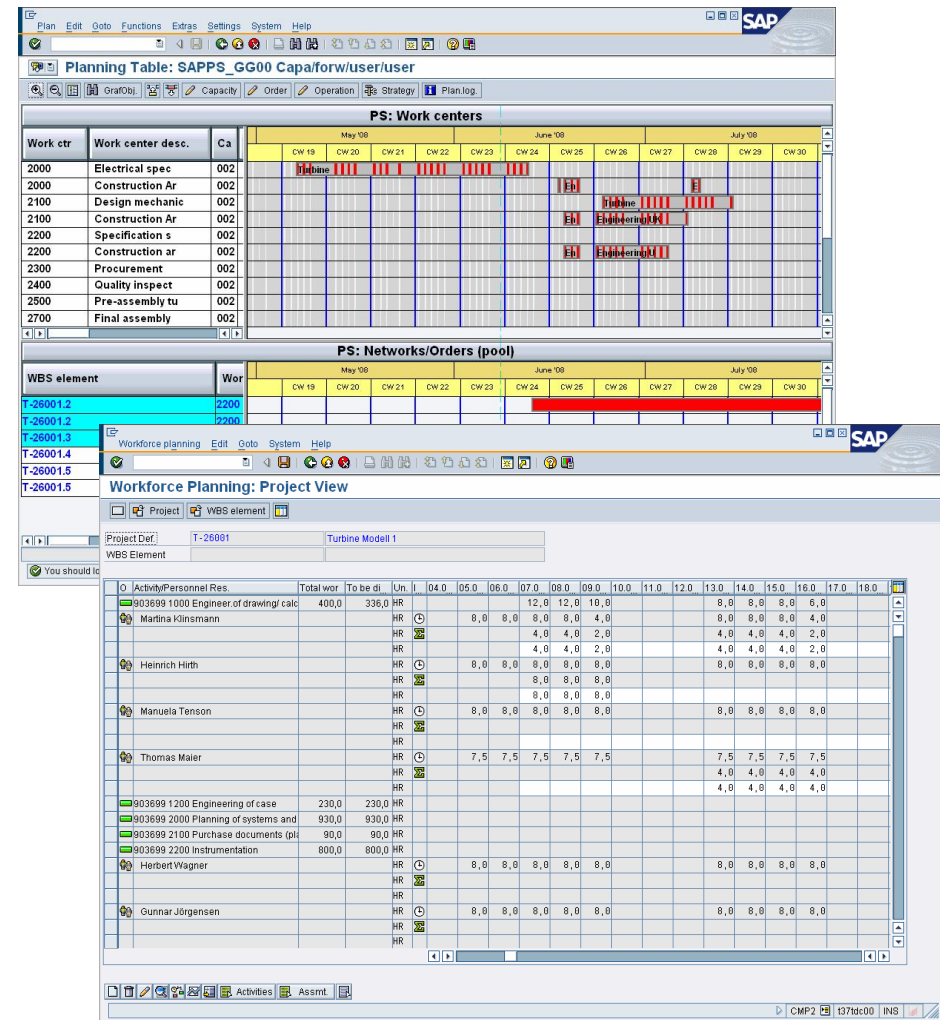


Networks in Project System enables you to plan, analyze and level work center based capacity requirements of your project.

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.



Capacity Leveling and 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.

The screenshot displays two SAP interfaces. The top window is 'Project Builder: Project T-26001', showing a project structure tree on the left and a table of overall assignments on the right. The bottom window is 'Service Specifications: Ext. Specs f. Task List Maintain', showing a 'Service Selection' dialog with a table of services.

Op.	BO.	Material	Plant	Requirement qty	Bas.	It.	R	Stor.	Description
3000	0010	T-20100	1300	1	PC	L	2		Turbine casing
3100	0010	T-20210	1300	1	PC	L	2		Turbine shaft
3100	0020	T-20220	1300	8	PC	L	2		Guide blade
3100	0030	T-20230	1300	8	PC	L	2		Rotating blade

Line	D	Service No.	Short Text	Quantity	Un	Gross Price	Crcy	U	Overf. Tol.	P	U	per U
10		100087	Drilling water supply pipe	1	PC	185,53	EUR					
20		100088	Supply pipe to 5m (water)	1	PC	52,90	EUR					
30		100089	Supply pipe over 5m join (water)	1	M	34,50	EUR					
40		100090	Installation in segments (water)	1	PC	50,60	EUR					
50		100091	Drill gas supply pipe	1	PC	216,19	EUR					
60		100092	Supply pipe to 5m (gas)	1	PC	197,79	EUR					
70		100093	Supply pipe over 5m join (GAS)	1	M	41,40	EUR					
80		100094	Installation in segments (Gas)	1	PC	52,90	EUR					
90		100095	Supply pipes compression trial	1	PC	191,66	EUR					
100		100096	Divide house supply pipe	1	PC	89,70	EUR					

Material Components in the Project Builder and Service Specification

Financial Planning



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.

The screenshot displays two SAP windows. The top window, 'Change Cost Planning: WBS Element Overview', shows a table of annual values for project 'T-26001 Turbine Modell 1' in period '1 2008'. The table includes columns for WBS element, cost plan, currency, distributed, distributable, planned total, and costing. The bottom window, 'Project Management: Change: Easy Cost Planning', shows a tree view of the cost structure for 'Turbine Modell 1', with 'Project Management' selected. It lists various cost elements like 'Manager Hours', 'Büromaterial - Ordner', and 'Drive Hours' with their respective values. A 'Confirm' dialog box is also visible, and a 'Costing : Project Management' table at the bottom right shows item details like item number, category, resource, and price.

Overall Cost Planning and Easy Cost Planning

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.

The screenshot displays two SAP interface windows. The top window, titled "Change Original Budget: WBS Element Overview", shows a table of annual values for project T-26001. The bottom window, titled "Mass Release of Budget for Projects", shows configuration options for releasing budgets, including release percentage and fiscal year.

E. Lev	WBS element	Budget	Tra.	Distributable	Assigned	Planned total	Previous	Cumulat
1	T-26001	600.000,00	EUR	30.000,00	10.225,84	371.620,02		775,00
2	T-26001.0		EUR					
2	T-26001.1	150.000,00	EUR			96.705,84		150,00
3	T-26001.1.1	150.000,00	EUR	150.000,00	96.705,84	96.705,84		150,00
3	T-26001.1.2		EUR					
2	T-26001.2	100.000,00	EUR	100.000,00	61.152,65	61.152,65		100,00

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.

The screenshot displays the SAP Project System interface for Heinrich Hirth IDES AG Frankfurt. The main window shows project details for 'IPRO Internal Project' with account assignment 'NP Network' and task level '1000'. A calendar view for April 2008 shows work hours for 'design' and 'blueprint' activities. A pop-up window titled 'Enter Network Confirmation: Actual Data' is open, showing activity details for '1000 Engineer of drawing/ calculation/ design'. The 'Processing' section shows 20% completion. The 'Costs' section shows a posting date of 29.04.2008 and activity type 1421. The 'Activity' table shows start and finish dates, duration, and work units. The 'Confirm.' table shows actual and forecast hours.

Start Date	Finish Date	Duration	Work UoM
Earl.sched 07.05.2008	12.06.2008	25,0 DAY	400,0 HR
Ltst.sched 07.05.2008	12.06.2008		
Actual		0 DAY	0,0 HR

Confirm.	Actual	Forecast	HR
Actual	20.04.2008	29.04.2008	80,0 HR
Forecast			320,0 HR

CATS and Individual Confirmation

Project Related Procurement



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 value material in your project independently if required.

The screenshot displays the SAP ProMan and Progress Tracking interface. The top window, 'Project-Oriented Procurement', shows a project structure tree on the left and a table of 'Orders/Documents' on the right. The 'Orders/Documents' table lists various materials and their associated purchase requisitions.

WBS Elem	Exception	Material	Plant	Material Description	Vendor	Purch Req.	Item	Closed	RFO	Item
T-26001		100-300	1000	Hollow shaft						
		P-100	1300	Pump PRECISION 100						
		T-20100		Turbine casing		10013434	10			
		T-20210		Turbine shaft		10013431				
		T-20220		Guide blade		10013432				
		T-20230		Rotating blade		10013433				
		T-20300		Generator		10013435				
		T-20400		Control unit (rack)		10013436				
		T-20500		Lubrication unit		10013437				

The bottom window, 'Progress Tracking: Overview', shows a table of 'Components' with columns for Scenario, Event, Maintained, Subitems, Stat Info, Documents, Material, Requirement Date, Requirement Quantity, Base Unit of Measure, and Network.

Scenario	Event	Maintained	Subitems	Stat Info	Documents	Material	Requirement Date	Requirement Quantity	Base Unit of Measure	Network
PS0001						P-100	04.05.2009	1	PC	903699
PS0001						T-20100	06.06.2008	1	PC	903699
PS0001						T-20210	29.08.2008	1	PC	903699
PS0001						T-20220	29.08.2008	8	PC	903699
PS0001						T-20230	29.08.2008	8	PC	903699
PS0001						T-20300	04.05.2009	1	PC	903699
PS0001						T-20400	04.05.2009	1	PC	903699
PS0001						T-20500	04.05.2009	1	PC	903699

The bottom-most window shows a detailed view of a component, including a table of 'Events' with columns for Description, Baseline, Baseline Set, Plan, Plan Set, FcSet, Actual, % of compl, Scenario, SttE, Pri, P, Var, Descr, and Rank.

Description	Baseline	Baseline Set	Plan	Plan Set	FcSet	Actual	% of compl	Scenario	SttE	Pri	P	Var	Descr	Rank
Specification	31.03.2008		07.04.2008			04.04.2008	100							1
Request for quotation	07.04.2008		14.04.2008			11.04.2008	100							2
Evaluation of quotation	21.04.2008		28.04.2008				50							3
Purchase order	06.05.2008		14.05.2008											4
Approval	19.06.2008		26.06.2008											5
Delivery	23.06.2008		30.06.2008											6

ProMan and Progress Tracking

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.

The screenshot displays two SAP interfaces. The top window, titled 'Easy Cost Planning: Execution Services', shows a cost structure for 'Turbine Modell 1' with a total value of 11,171.31 EUR. The 'Project Management' category is highlighted, showing sub-items like 'Manager Hours' (5,734.98 EUR) and 'Drive Hours' (933.44 EUR). Below this, an 'Internal activity allocation' table is visible, showing a document '900053184' with a total quantity of 180 H.

The bottom window, titled 'Billing request for resource-related billing document <new>: Expenses', shows a table of billing items. The 'Secondary costs' category is highlighted, showing a total amount of 7,548.26 EUR. The table includes columns for Description, Status, Locked, Amt to be billed, Currency, Qty to be billed, UM, % to be billed, and Net value.

Description	Status	Locked	Amt to be billed	Currency	Qty to be billed	UM	% to be billed	Net value	Currency
12046	▲	🔒	7,548.26	EUR	***	***	88,30	7,548.26	EUR
12046/10	▲	🔒	7,548.26	EUR	***	***	88,30	7,548.26	EUR
All costs	▲	🔒	7,548.26	EUR	***	***	88,30	7,548.26	EUR
Secondary costs	▲	🔒	7,548.26	EUR	***	***	88,30	7,548.26	EUR
Engineering costs	▲	🔒	879.84	EUR	37,443	HR	46,80	879.84	EUR
Management costs	▲	🔒	5,734.98	EUR	180	H	100,00	5,734.98	EUR
Quality assurance	▲	🔒	933.44	EUR	20	H	100,00	933.44	EUR

The bottom window also shows a summary table for the billing request, with columns for Description, S, Lo, Amt already billed, Open amount, Amt to be billed, Amount postponed, and Amount rejected.

Description	S	Lo	Amt already billed	Open amount	Amt to be billed	Amount postponed	Amount rejected
Secondary costs	▲	🔒	0,00	8,548.26	7,548.26	1,000.00	
Engineering costs	▲	🔒	0,00	1,879.84	879.84	1,000.00	
Management costs	▲	🔒	0,00	5,734.98	5,734.98		
Quality assurance	▲	🔒	0,00	933.44	933.44		

Execution Services and Resource Related Billing

Claim Management and Workflows

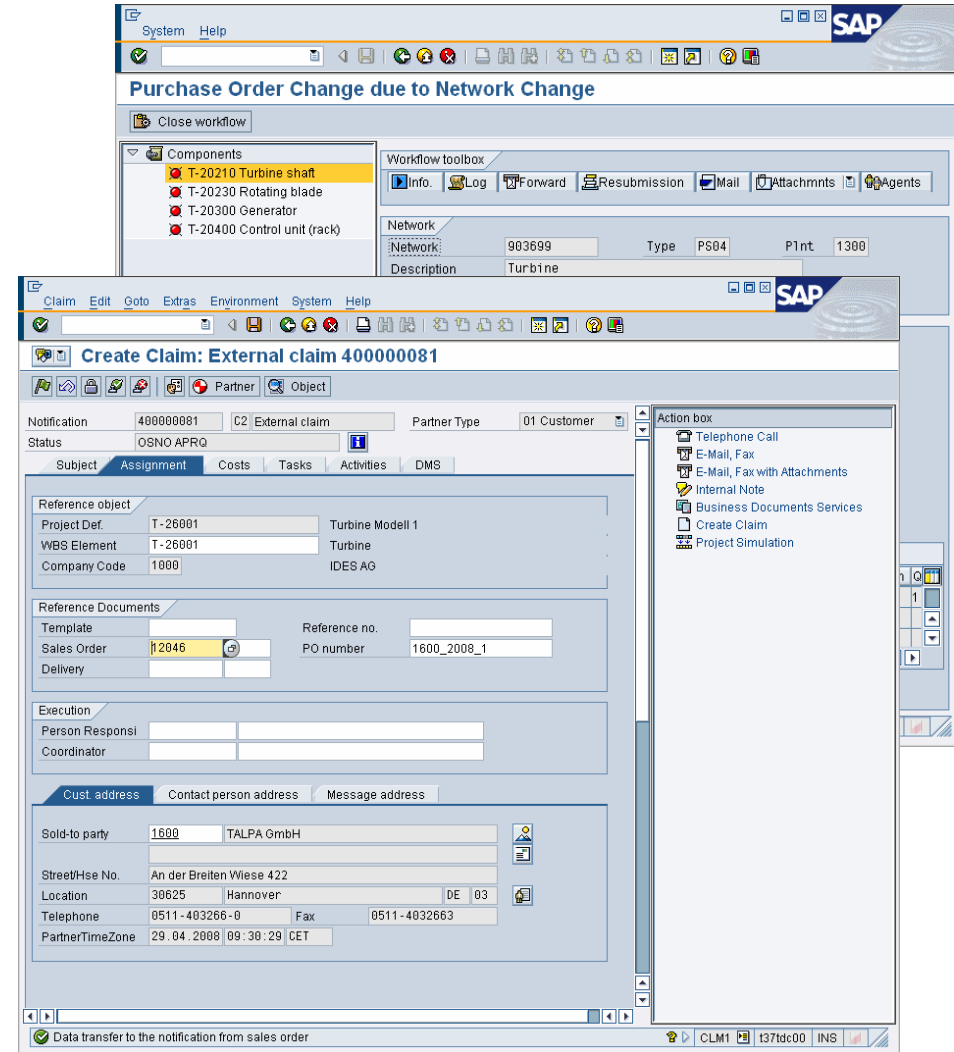


Project System supports Claim Management using a notification type called "claim". You can use claims to document variances from your project plan, name the person responsible, and initiate follow-up activities.

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.



Workflow because of Network Changes Affecting Purchase Orders and Claim Management

Project Progress

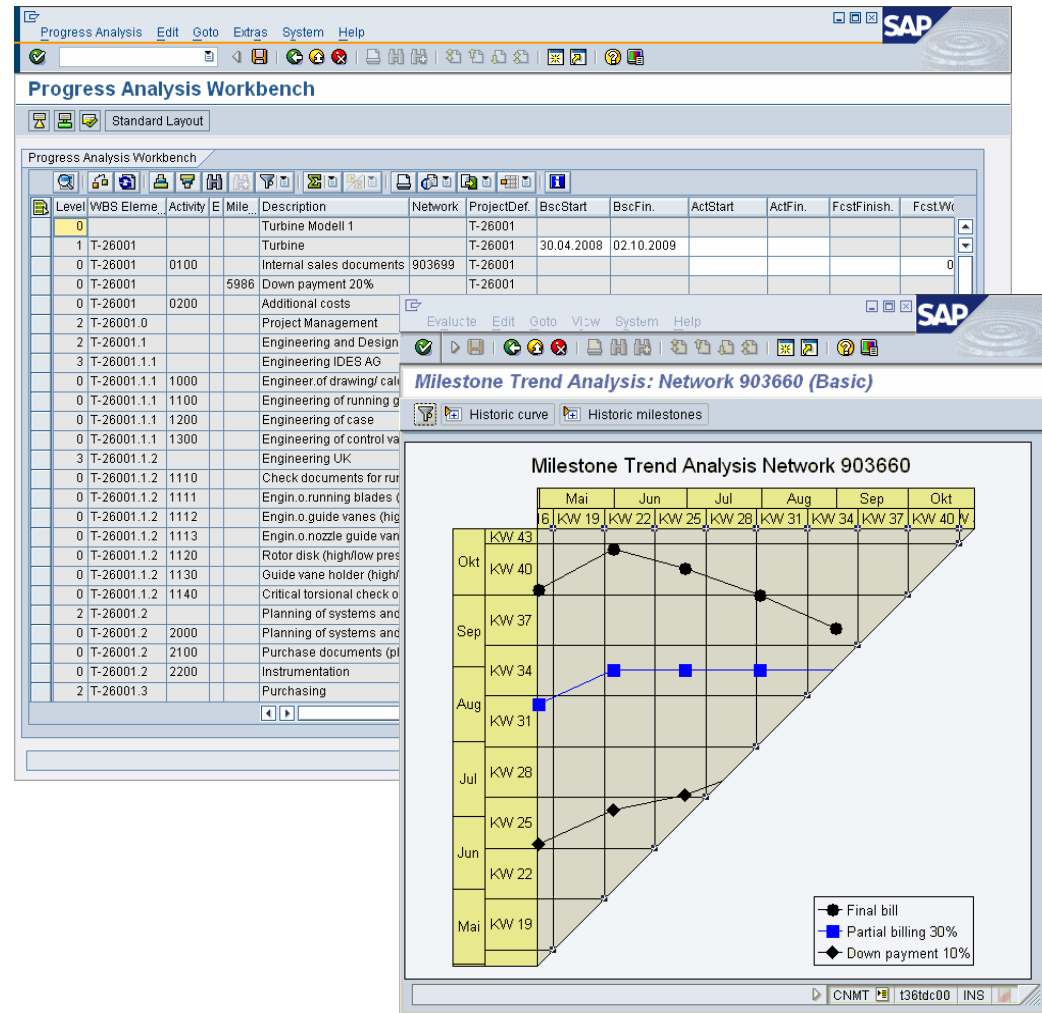


Milestone trend analysis and Progress Tracking can be used to effectively monitor the project schedule.

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.



Progress Analysis Workbench and Milestone Trend Analysis

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.

The screenshot displays two SAP windows. The top window, titled 'Actual Overhead Calculation: Project/WBS Element/Network Basic list', shows a selection table with the following data:

Selection Parameters	Value	Name
Project definition	T-26001	Turbine Modell 1
With orders	X	
With hierarchy	X	
Period	004	
Fiscal Year	2008	
Controlling Area	1000	CO Europe

The bottom window, titled 'Schedule Manager: Schedule Tasks for Task List Z-SAP-ROLE', shows a task list tree on the left and a calendar view on the right. The task list tree includes categories like 'Close primary processes', 'Subsidiary ledgers', 'Cost Accounting', and 'Product Costs'. The calendar view shows a grid for the year 2008, with a task 'PS: Period-End Close' scheduled for April 29, 2008, at 12:00. The user 'FRANZMA' is assigned to this task.

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

The screenshot displays two SAP Project System reports. The top report, 'Execute Drilldown Report Costs: Plan/Act/Commit/Rem.plan/Assigned', shows a table of cost elements with columns for Val.category, Planned-Overall, Actual-Overall, Commitment, RemOrdPlan, Assigned-Ove, and Available-Over. The bottom report, 'Project Info System: Structure Initial Screen', shows a hierarchical tree view of project structure with columns for Identification, BasicStartDate, Basic finish, Actual start, Actual finish, Proj.cost plan, Actual costs, Total cost cmmf, and Status.

Navigation	P	N	Text	Val.category	Planned-Overall	Actual-Overall	Commitment--	RemOrdPlan--	Assigned--Ove	Available--Over	P.
Object				400	Internal Materials /	2	0	0	0	0	2
WBS T-26001			Turbine	415	External proc. costs	53.533	0	30.525	0	30.525	23.008
Val.category				421	Payroll Acctg	4.500	0	0	0	0	4.500
Period/year				466	Insurance	10.226	0	0	0	0	10.226
Business Trans.				615	Internal Labor	933	933	0	0	933	0
				619	Production personnel	140.801	1.880	0	0	1.880	138.921

Project Structure Overview	Identification	BasicStartDate	Basic finish	Actual start	Actual finish	Proj.cost plan	Actual costs	Total cost cmmf	Status
Turbine Modell 1	T-26001	28.04.2008	02.10.2009	20.04.2008	29.04.2008	975.644,58	9.333,09	508.473,60	REL # Quot
Turbine	T-26001	30.04.2008	02.10.2009	20.04.2008	29.04.2008	975.644,58	9.333,09	508.473,60	REL BUDG ISBD AVAC # Quot
Pump PRECISION 100	36419								
Bearing (complete)	36420								
Hollow shaft	36421								
Turbinenanlage	12046	000010							REL NoMP
Turbine	903699	09.05.2008	02.10.2009	20.04.2008		10.225,84	0,00	0,00	ACAS MANC PCNF PRC REL #
Internal sales docum	903699	0100				0,00	0,00	0,00	REL # Quot
Down payment 2	000000005986								
Additional costs	903699	0200				10.225,84	0,00	0,00	REL # Quot
Project Management	T-26001.0					11.171,31	6.668,42	0,00	REL AVAC # Quot
Engineering and Desigr	T-26001.1	07.05.2008	28.11.2008	20.04.2008	29.04.2008	96.895,35	2.664,67	30.525,00	REL BUDG AVAC # Quot
Engineering IDES A	T-26001.1.1	07.05.2008	24.11.2008	20.04.2008	29.04.2008	96.895,35	2.664,67	30.525,00	REL BUDG AVAC # Quot
Engineering UK	T-26001.1.2	17.06.2008	28.11.2008			0,00	0,00	0,00	REL AVAC # Quot
Engineering UK	903700	17.06.2008	28.11.2008			0,00	0,00	0,00	ACAS NMAT REL # Quot
Planning of systems ant	T-26001.2	13.06.2008	28.11.2008			60.745,69	0,00	0,00	REL BUDG AVAC # Quot
Planning of systems	903699	2000				30.983,75	0,00	0,00	REL # Quot
Purchase document	903699	2100				3.005,71	0,00	0,00	REL # Quot
Instrumentation	903699	2200				26.756,23	0,00	0,00	REL # Quot
Purchasing	T-26001.3	17.06.2008	27.05.2009			679.356,38	0,00	0,00	REL BUDG AVAC # Quot
Preliminary orders	903699	3000				81.315,73	0,00	0,00	REL # Quot
Turbine casing	10013434	10				51.129,19	0,00	0,00	REL
Material procuremen	903699	3100				168.143,49	0,00	0,00	REL # Quot
Turbine shaft	10013431	10				81.806,70	0,00	0,00	REL
Guide blade	10013432	10				20.451,68	0,00	0,00	REL
Rotating blade	10013433	10				16.361,36	0,00	0,00	REL
Material procuremen	903699	3200				429.897,16	0,00	0,00	REL # Quot

Hierarchy Report and Project Structure Overview

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

The image displays two overlapping SAP web interfaces. The top window is the BAPI Explorer, showing a tree view of BAPIs under 'WBSPI' and a detailed view of the 'IWbsElementTable' parameter. The bottom window is the Enterprise Services Workplace, showing the 'Project' business object page with a search bar, definition, related business objects, and technical data.

BAPI Explorer

Parameter: **IWbsElementTable**

WBS Elements

Description

The detailed information about a WBS element is transferred in this structure.

For every field to be changed a character must be entered in the corresponding field in the **I_WBS_ELEMENT_TABLE_UPDATE** structure.

For information about the individual parameters, see the corresponding data element documentation.

WBS_ELEMENT WBS element

Enterprise Services Workplace

Project

BUSINESS OBJECT

Definition

Business plan with a fixed goal to be reached within an agreed time frame with a set budget, planned resources and agreed quality. The project is characterized by being unique and having an element of risk.

Related Business Objects

- Business Partner
- Organisational Centre
- Task

Technical Data

ESR Object Type	BO_Object
Software Component Version	ESM ERP 603
Technical Name	Project

Business Context

Notes for SAP Back-End System Administration

Prerequisites

To use the operations in this business object, you must implement the component **Project System (PS)** and have performed the basic Customizing settings for this component. In addition, you must also have knowledge in the project system.

Related Items

- Update Project Activity Statistics: service operation
- Change Project: service operation
- Update Project Work Breakdown Structure Element Statistics: service operation
- Change Project Activity: service operation
- Release Project Activity: service operation

BAPI Explorer and Enterprise Services Workplace

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