



Commondo ePPM Suite integration

SAP - Oracle Primavera P6, February 2024

Commodo®

We are a global software engineering company for implementing software and managing integration projects. In our office in Zagreb, Croatia we employ experts with extended knowledge and experience in **the SAP ecosystem**.

We provide consultancy services as well as our developed solutions in the area of the enterprise portfolio and project management using standard SAP® solutions: the **SAP Enterprise Portfolio and Project Management** package, the SAP Commercial Project Management application, the project system module from SAP, the SAP Analytics Cloud solution, and SAP Business Technology Platform.

As a **strategic partner for integrating SAP software** (SAP project system, SAP plant maintenance, SAP Project and portfolio management, SAP commercial project management with external systems like Microsoft Project, Primavera P6, JIRA, and Redmine) we provide performance both on-premise SAP software integration and cloud platform integration using **Commodo ePPM Suite**.



Find more details about Commodo integration solutions and download your free demo package of Commodo® ePPM Suite in

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Commondo ePPM architecture

Commondo ePPM Suite



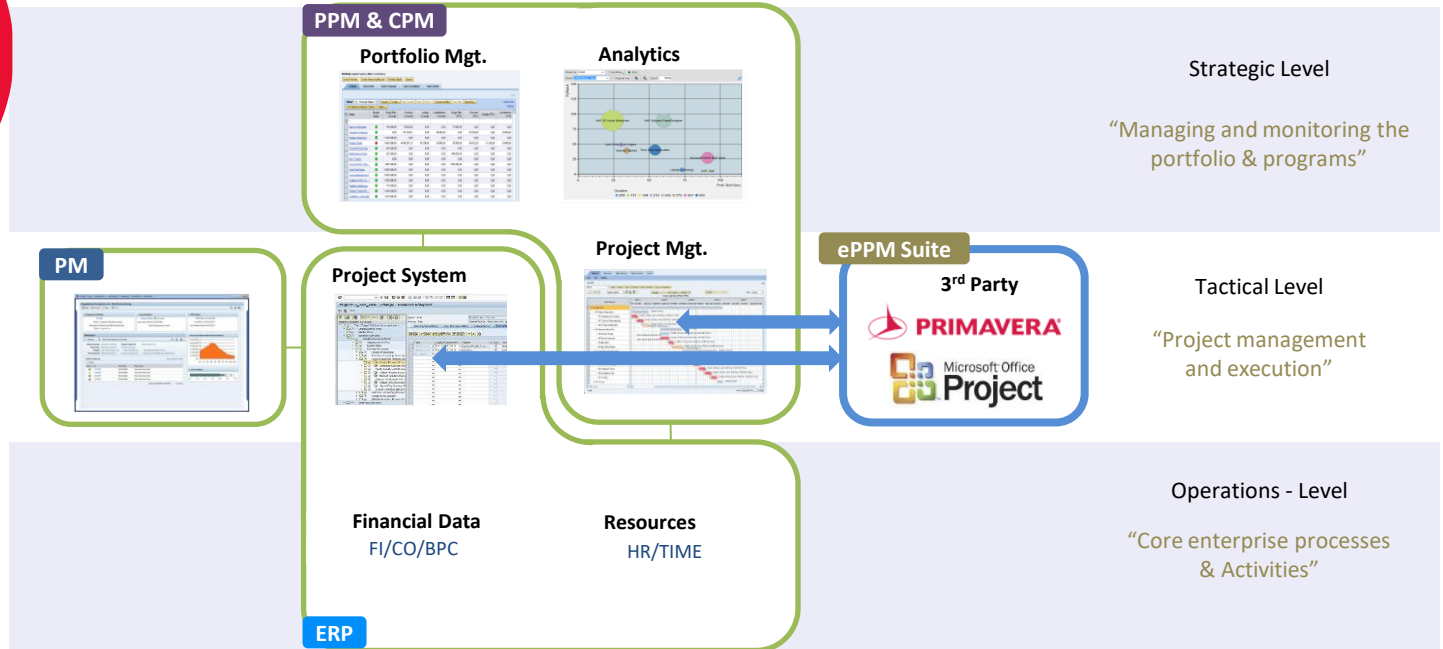
Integration platform for connection between SAP and external portfolio and project systems

Audit Logging
Flow Orchestration

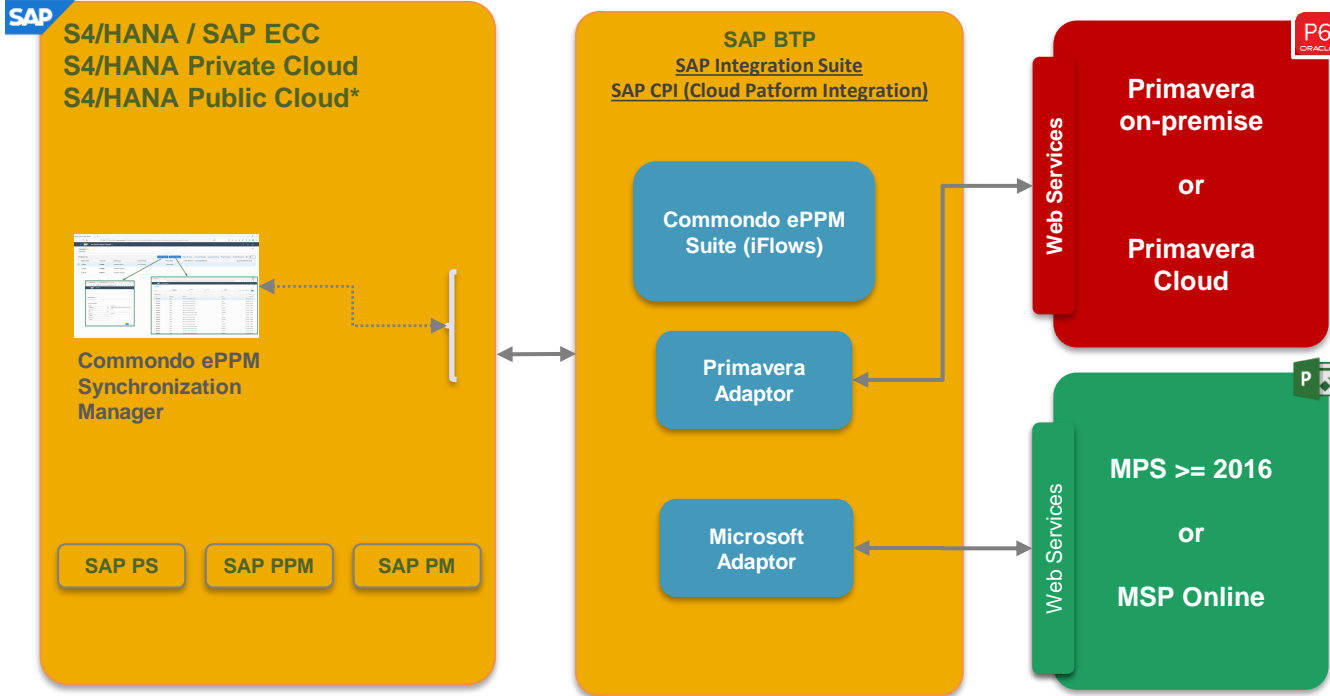
Commondo ePPM Suite

Transform
Business Rules

ePPM Suite



Solution Architecture

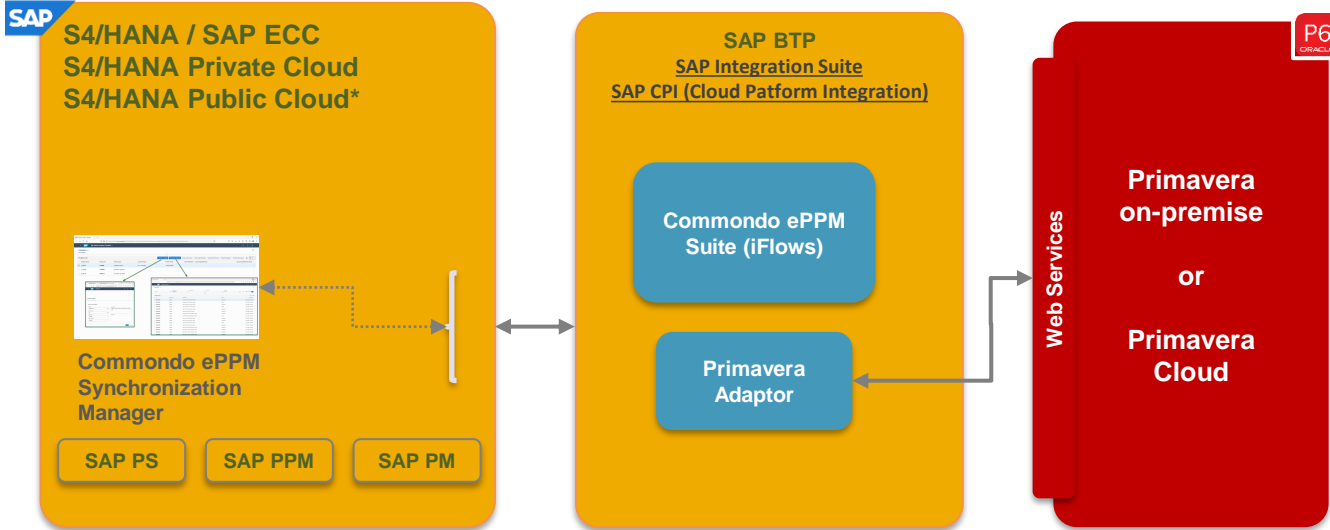


- Commando standard flows**
- Master data sync (resources)
 - SAP PS ⇔ Primavera
 - Primavera ⇔ SAP PS
 - SAP PS/PM orders ⇔ Primavera
 - Primavera ⇔ SAP PS/PM orders
 - SAP PM ⇔ Primavera
 - Primavera ⇔ SAP PM
 - SAP PS ⇔ Microsoft
 - Microsoft ⇔ SAP PS
 - SAP PS /PM orders ⇔ Microsoft
 - Microsoft ⇔ SAP PS/PM orders
 - SAP PM ⇔ Microsoft
 - Microsoft ⇔ SAP PM
 - SAP CPM ⇔ Microsoft
 - Microsoft ⇔ SAP CPM



SAP BTP= Business Technology Platform
 * Some standard flows are SAP S4/HANA Public cloud ready

Primavera package



SAP BTP= Business Technology Platform

* Some standard flows are SAP S/4HANA Public cloud ready

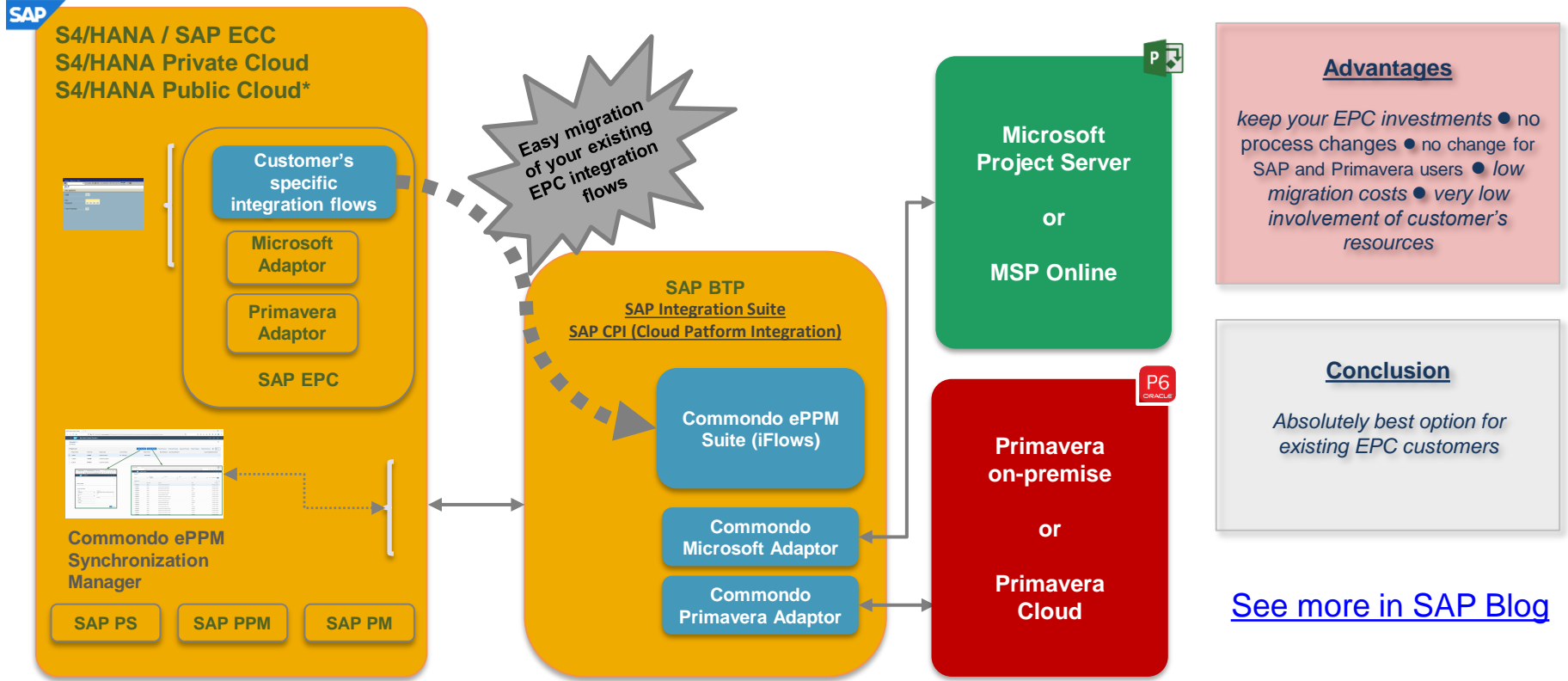
Primavera PACKAGE

setup services ● master data sync (resources) ● 2 standard flows ● ePPM Synchronization manager (Fiori) ● Primavera adaptor ● unlimited number of users ● one production SAP, one Primavera system ● 3rd level support 8x5

Optional services

Migration services ● Implementation of custom integration flows ● Premium and 7x24 support

EPC Migration Package



Advantages

keep your EPC investments ● no process changes ● no change for SAP and Primavera users ● low migration costs ● very low involvement of customer's resources

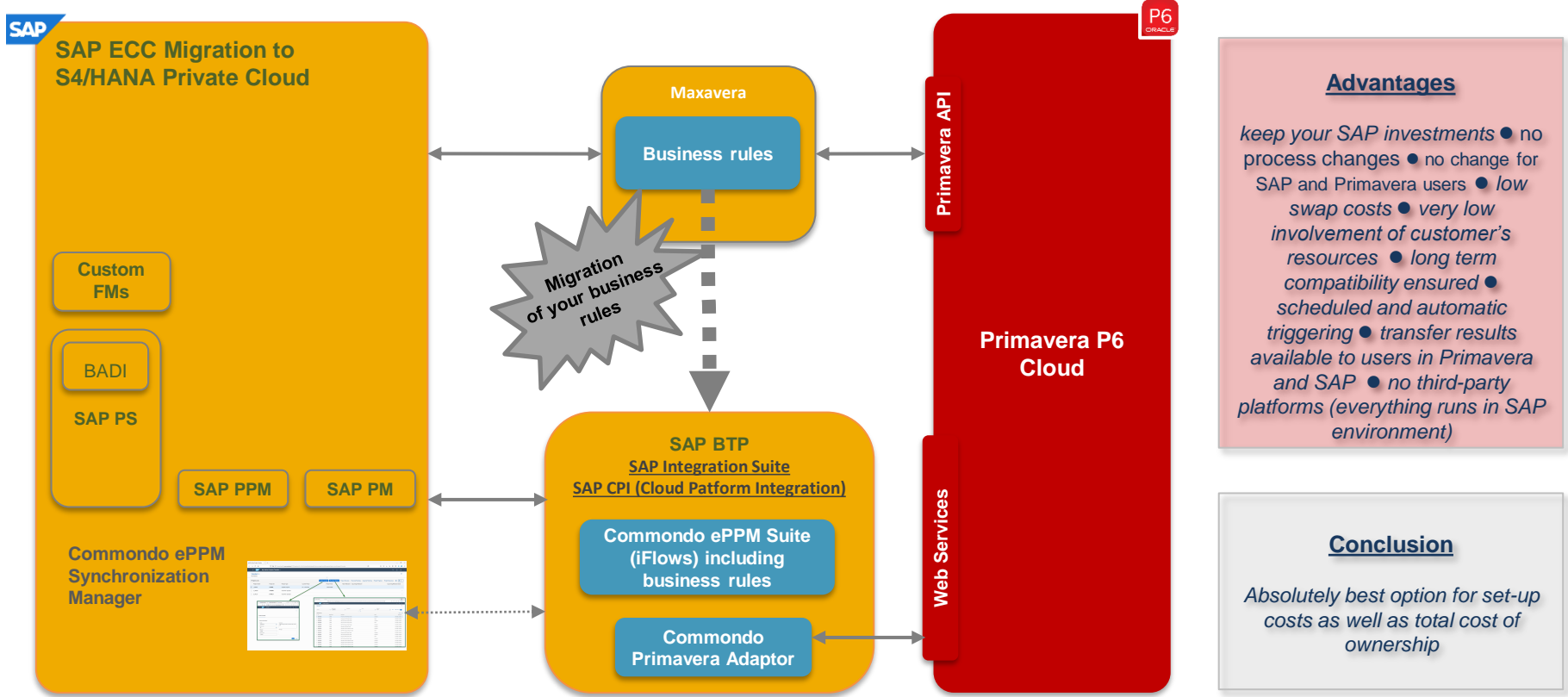
Conclusion

Absolutely best option for existing EPC customers

[See more in SAP Blog](#)

SAP BTP= Business Technology Platform
* Some standard flows are SAP S4/HANA Public cloud ready

Swap (example Maxavera)



SAP BTP= Business Technology Platform

Advantages

- keep your SAP investments
- no process changes
- no change for SAP and Primavera users
- low swap costs
- very low involvement of customer's resources
- long term compatibility ensured
- scheduled and automatic triggering
- transfer results available to users in Primavera and SAP
- no third-party platforms (everything runs in SAP environment)

Conclusion

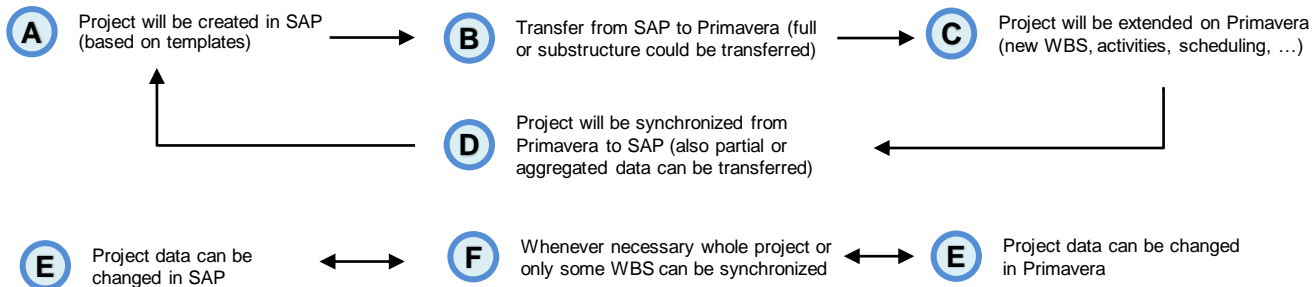
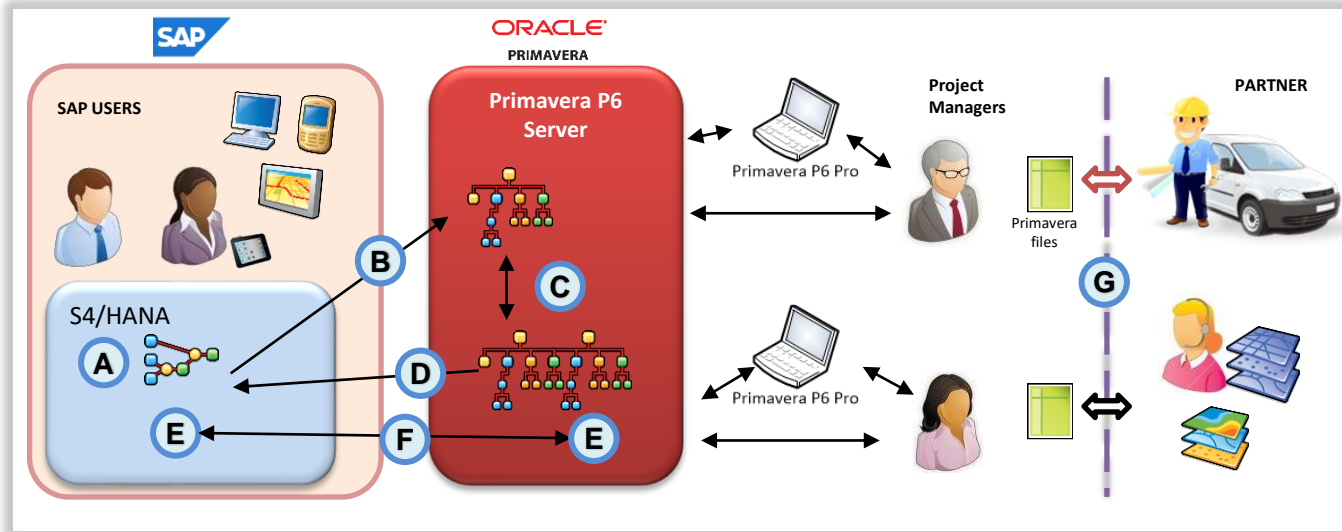
Absolutely best option for set-up costs as well as total cost of ownership

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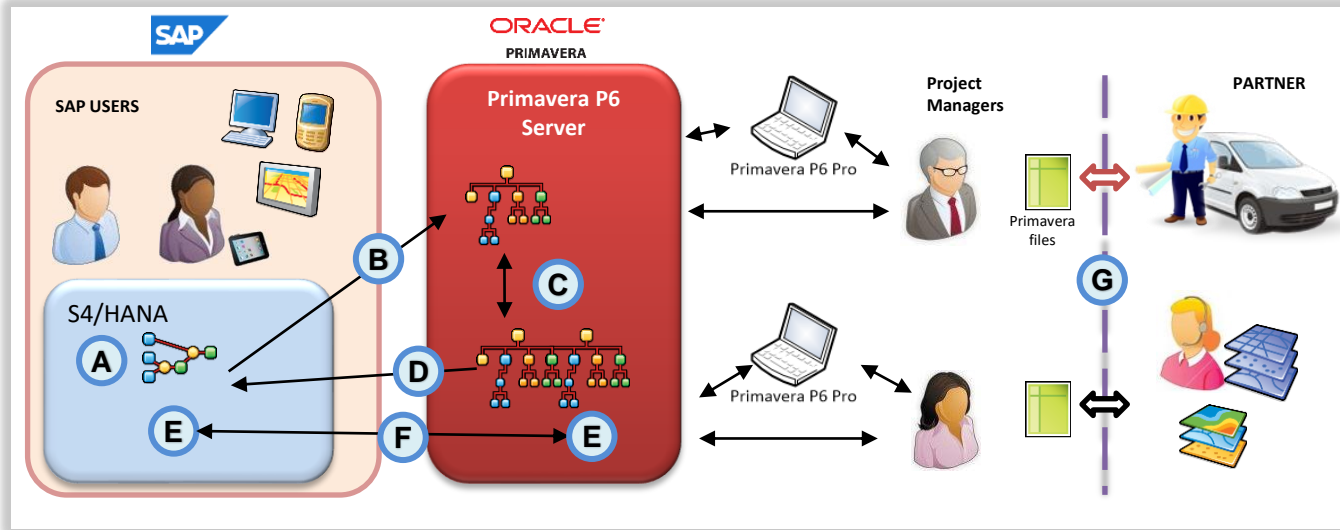
Commondo ePPM Suite

Integration scenarios

SAP PS ↔ Primavera standard flows

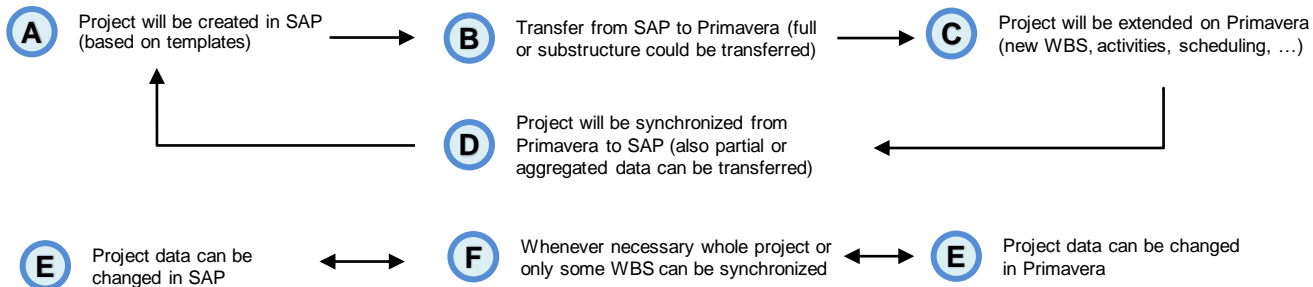


SAP PS/PM ↔ Primavera standard flows



Usually, standard plant maintenance orders and operations (regular and preventive management) are assigned to maintenance project in SAP PS structure (e.g. WBS).

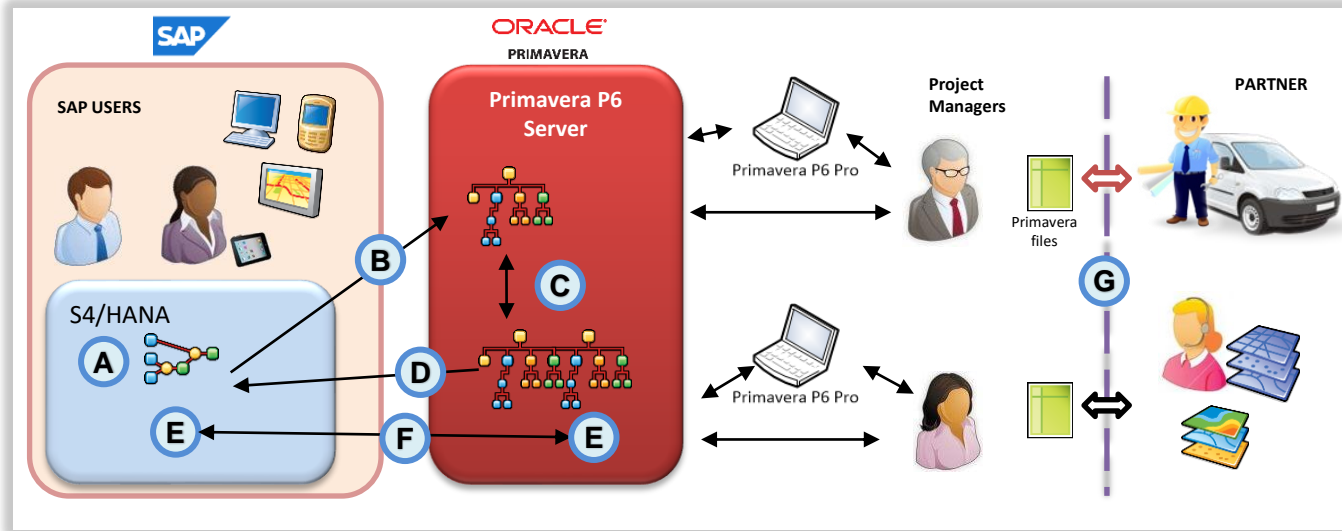
This standard synchronization flow synchronizes project structure including assigned PM orders and their operations into Primavera project structure



Note:
PM orders assigned to Project WBS/activities will be transferred

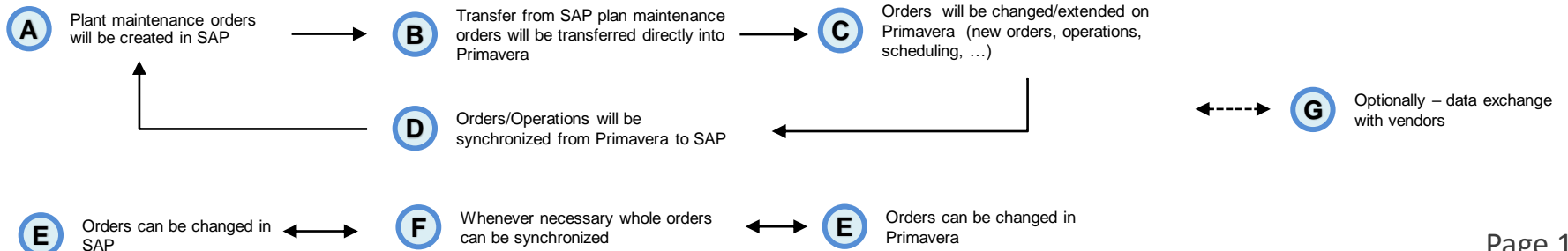
←--- **G** Optionally – data exchange with vendors

SAP PM ↔ Primavera standard flows



Usually STO (Shutdown, Turnaround or Outage) maintenance orders are not (STO) assigned to any project in SAP PS.

This standard synchronization flow enables synchronization of chosen orders and their operation directly into Primavera project structure



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Synchronization Manager (Fiori applications)

Manual triggered PS transfer

My Active Projects Transfer

Standard

Not Filtered

Projects (3)

Project Name	Project ID	Project Type	Current Phase	Phase Finish	Main Milestone	Upcoming Milestone
L_00002	I-00002	Capital Projects	P1 - Planning	18.03.2020		
T_00206	T-00206	Customer projects				
E_00117	E-00117	Customer projects				

+ New Transfer Transfer History Project Structure Financial Planning Capacity Planning Project Progress

Transfer mechanism:

- automatic in background
- batched (selected project transferred e.g. over the night)
- manual triggered

Project Transfers

Transfer

Create Transfer

General Information

IFLOW: SAPP5toP6

Object Type: PS

Object ID: I.00002

Object Name: I_00002

Comment: SAP PS Project transfer to Primavera PS via SAP CPI

Message:

Save Cancel

Project Transfers

Standard

Search: I_00002 X

Object ID: 1 Item

Transfers (41)

ID	Object Name	Description	Status	Created On
000000358	I_00002	Primavera to SAP PS Project Transfer	Completed	09.05.2022, 15:38:27
000000357	I_00002	Primavera to SAP PS Project Transfer	Failed	09.05.2022, 15:19:03
000000350	I_00002	SAP PS to Primavera Project Transfer	Completed	14.02.2022, 14:20:21
000000339	I_00002	SAP PS to Primavera Project Transfer	Failed	14.02.2022, 14:19:47
000000296	I_00002	SAP PS to Primavera Project Transfer	Completed	14.02.2022, 12:00:34
000000227	I_00002	SAP PPM to JIRA Project Transfer	Completed	11.02.2022, 10:19:00
000000224	I_00002	SAP PPM to Primavera Milestone Transfer	Completed	01.10.2021, 15:24:26
000000223	I_00002	SAP PPM to Primavera Milestone Transfer	Failed	01.10.2021, 15:24:12
000000222	I_00002	Microsoft to SAP PS Project Transfer	Completed	23.09.2021, 16:14:54
000000221	I_00002	SAP PS to Microsoft Project Transfer	Completed	23.09.2021, 16:10:50
000000220	I_00002	Microsoft to SAP PS Project Transfer	Failed	23.09.2021, 16:08:57
000000219	I_00002	SAP PS to Microsoft Project Transfer	Completed	23.09.2021, 15:09:48
000000218	I_00002	SAP PPM to Primavera Milestone Transfer	Completed	01.10.2020, 15:08:29
000000217	I_00002	SAP PPM to Primavera Milestone Transfer	Completed	01.10.2020, 15:07:32
000000216	I_00002	SAP PPM to Primavera Milestone Transfer	Completed	01.10.2020, 15:03:08
000000196	I_00002	SAP PPM to Primavera Milestone Transfer	Completed	01.10.2020, 12:54:39

Manual triggered PM transfer

< **SAP** Transfer Maintenance Orders ▾

Standard* ▾

<input type="text" value="Search"/>	Order: <input type="text"/>	Order Type: <input type="text"/>	Priority: <input type="text"/>	Final Due Date: <input type="text"/>	Technical Object: <input type="text"/>	Start Date: <input type="text"/>
Scheduled Start Date: <input type="text"/>	Scheduled End Date: <input type="text"/>	Main Work Center: <input type="text"/>	Work Center Plant: <input type="text"/>	Reference Date: <input type="text"/>	Maintenance Plan: <input type="text"/>	Maintenance Item: <input type="text"/>

Transfer mechanism:

- automatic in background
- batched (selected project transferred e.g. over the night)
- manual triggered

Maintenance Orders (19) Standard ▾

+ New Transfer Transfer History Change Responsibility Change Status ▾ Change Scheduling Show Details ⚙️ 📄 ▾

<input type="checkbox"/> Order	Order Type	Notification	Priority	Final Due Date	Technical Object	Start Date	End Date
<input type="checkbox"/> Maintenance Order 47 4000061 Scheduled Start Date: 16.06.2020 Scheduled End Date: 06.07.2020 Main Work Center: Production in Graz (T111) Work Center Plant: Network Planning (T110) Maintenance Plan: Maintenance Item:	PM01	10000000				16.06.2020	06.07.2020
<input type="checkbox"/> Distillation Pump 12 4000072 Scheduled Start Date: 16.06.2020 Scheduled End Date: 03.07.2020 Main Work Center: Production in Graz (T111) Work Center Plant: Network Planning (T110) Maintenance Plan: Maintenance Item:	PM01	Distillation Pump 12 (10000001)				16.06.2020	03.07.2020
<input type="checkbox"/> Distillation Pump 31 4000073 Scheduled Start Date: 16.06.2020 Scheduled End Date: 03.07.2020 Main Work Center: Production in Graz (T111)	PM01	distillation Pump 31 (10000002)				16.06.2020	03.07.2020

< **SAP** Transfer Maintenance Orders ▾

Create Transfer

General Information

ID: * Object Name:

IFLOW: Comment:

Object Type:

Object ID:

Message:

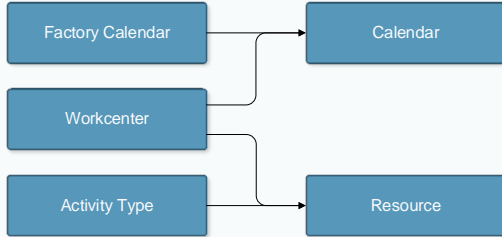


Data Mapping Rules

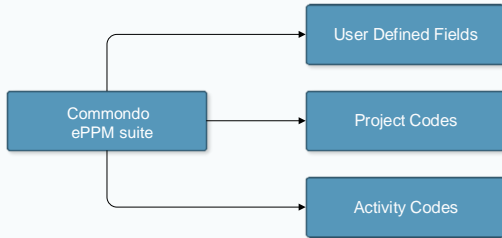
Primavera Integration Mapping Rules

SAP ERP

P6 EPPM

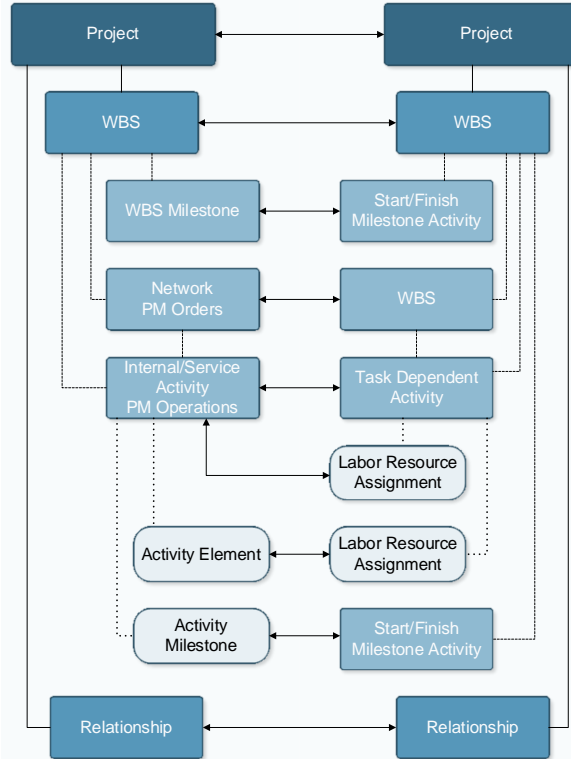


Solution User Defined Fields and Codes



SAP ERP

P6 EPPM



Standard mapping of objects between SAP PS and P6

Primavera – SAP synchronization objects

Primavera P6 Professional 19: T-00221 (Project_AD_SL_Area221)

File Edit View Project Enterprise Tools Help

Activities

Layout: SAP Dates Filter: All Activities

Time plan **Costs**

Activity ID	Activity Name	Start	Finish	SAP Object	Original Duration	Budgeted Total Cost	Primary Resource
Project_AD_SL_Area221 Structure							
Plan phase and permits							
Plan phase and permits							
000004000515-0010	Service area analysis	17-Sep-21	07-Oct-21	ACTIVITY	15	€6,900.00	T112-TAC005.SAP Resource
000004000515-0020	Rough cost estimate	08-Oct-21	28-Oct-21	ACTIVITY	15	€9,600.00	T112-TAC001.SAP Resource
000004000515-0030	Investment appraisal	08-Oct-21	19-Nov-21	ACTIVITY	31	€7,800.00	T112-TAC001.SAP Resource
000004000515-0040	Investment approval	22-Nov-21	10-Dec-21	ACTIVITY	15	€3,840.00	T112-TAC001.SAP Resource
000004000515-0041	Investment approved	13-Dec-21	13-Dec-21	ACTIVITY	0	€0.00	NQ_SAP_RESOURCE.SAP Empl
000000000027	Investment approved	13-Dec-21		ACTIVITY_MLESTI	0	€0.00	
	Scope of Work	14-Dec-21	16-Dec-21	ACTIVITY	3	€2,848.00	T112-TAC005.SAP Resource
	Topographic cadastral templat	14-Dec-21	18-Jan-22	ACTIVITY	26	€21,380.00	T112-TAC005.SAP Resource
	Obtaining the Location permit	14-Dec-21	18-Jan-22	ACTIVITY	26	€2,400.00	T112-TAC003.SAP Resource
	Location permit obtained	19-Jan-22	19-Jan-22	ACTIVITY	1	€0.00	NQ_SAP_RESOURCE.SAP Empl
	Location permit obtained	19-Jan-22		ACTIVITY_MLESTI	0	€0.00	
	Creating the Project charter	20-Jan-22	23-Feb-22	ACTIVITY	25	€2,304.00	T112-TAC001.SAP Resource
	Creating the Detailed Project plan	24-Feb-22	20-Apr-22	ACTIVITY	40	€23,040.00	T112-TAC001.SAP Resource
	Resolving legal and property matters	24-Feb-22	21-Apr-22	ACTIVITY	41	€9,600.00	T112-TAC003.SAP Resource
	Approving the Detailed Project plan	21-Apr-22	13-May-22	ACTIVITY	17	€1,792.00	T112-TAC002.SAP Resource
	Detailed Project plan approved	16-May-22	16-May-22	ACTIVITY	1	€0.00	NQ_SAP_RESOURCE.SAP Empl
	Detailed Project plan approved	16-May-22		ACTIVITY_MLESTI	0	€0.00	
	Creating the Project execution plan	17-May-22	18-Jul-22	ACTIVITY	45	€11,520.01	T112-TAC001.SAP Resource
	Project execution plan approved	19-Jul-22	19-Jul-22	ACTIVITY	0	€0.00	NQ_SAP_RESOURCE.SAP Empl
	Project execution plan approved	19-Jul-22		ACTIVITY_MLESTI	0	€0.00	
Construction							
Project Preparation							
Project Preparation							
000004000516-0010	Nominating the Chief Engineer	19-Jul-22*	22-Jul-22*	ACTIVITY	4	€768.00	T112-TAC001.SAP Resource
000004000516-0020	Selecting the subcontractors	19-Jul-22*	22-Aug-22*	ACTIVITY	25	€23,040.00	T112-TAC001.SAP Resource
000004000516-0021	Signing subcontractors	23-Aug-22*	23-Aug-22*	ACTIVITY	1	€0.00	NQ_SAP_RESOURCE.SAP Empl
000004000516-0030	Briefing the subcontractors			ACTIVITY	14	€7,680.00	T112-TAC001.SAP Resource
000004000516-0031	Project preparations done			ACTIVITY	5	€0.00	NQ_SAP_RESOURCE.SAP Empl

Synchronize n-levels of the projects and transfer aggregated data

Possibility to extend the project in external system

Possibility to reschedule project and synchronize with SAP

Relationships

SAP related activity codes and UDFs

General Status Resources Codes Relationships Notebook Steps Feedback WPs & Docs Expenses Summary

Activity: 000004000515-0060 Creating a Topographic cadastral templat Project: T-00221

Activity Code	Code Value	Description
SAP Activity	0060	0060
SAP Network	000004000515	000004000515
SAP Created by interface		Interface
SAP Network Pr T000002	T000002	T000002
SAP Network Ty PS02	PS02	PS02
SAP Net Sched 1	1	1
SAP Control Key PS01	Internal	Internal
SAP Plant	T110	T110

Assign Remove

Portfolio: All Projects Access Mode: Shared Data Date: 17-Sep-21 Baseline: Current Project User: primaveraadmin3 DB: Primavera3 (EPPM)

Primavera – SAP PS example



10.0.0.14 - Remote Desktop Connection

Primavera P6 Professional 19: T

File Edit View Project Enterprise Tools Help

Activities

Layout: SAP Dates Filter: All Activities

Activity ID	Activity Name	Start	Finish
Project ADSL Area221			
Plan phase and permits			
000004000515-0018	Service area analysis	17-Sep-21	07-Oct-21
000004000515-0020	Rough cost estimate	08-Oct-21	28-Oct-21
000004000515-0030	Investment appraisal	08-Oct-21	19-Nov-21
000004000515-0040	Investment approval	22-Nov-21	10-Dec-21
000004000515-0041	Investment approved	13-Dec-21	13-Dec-21
000000000027	Investment approved	13-Dec-21	13-Dec-21
000004000515-0050	Creating the Scope of Work	14-Dec-21	16-Dec-21
000004000515-0060	Creating a Topographic cadastral template	14-Dec-21	18-Jan-22
000004000515-0070	Obtaining the Location permit	14-Dec-21	18-Jan-22
000004000515-0071	Location permit obtained	19-Jan-22	19-Jan-22
000000000028	Location permit obtained	19-Jan-22	19-Jan-22
000004000515-0080	Creating the Project charter	20-Jan-22	23-Feb-22
000004000515-0090	Creating the Detailed Project plan	24-Feb-22	20-Apr-22
000004000515-0100	Resolving legal and property matters	24-Feb-22	21-Apr-22
000004000515-0110	Approving the Detailed Project plan	21-Apr-22	13-May-22
000004000515-0111	Detailed Project plan approved	16-May-22	16-May-22
000000000029	Detailed Project plan approved	16-May-22	16-May-22
000004000515-0120	Creating the Project execution plan	17-May-22	18-Jul-22
000004000515-0121	Project execution plan approved	19-Jul-22	19-Jul-22
000000000030	Project execution plan approved	19-Jul-22	19-Jul-22
Construction			
Project Preparation			
000004000516-0010	Nominating the Chief Engineer	19-Jul-22	10-Sep-22
000004000516-0020	Selecting the subcontractors	19-Jul-22	22-Aug-22
000004000516-0021	Signing subcontractors	23-Aug-22	23-Aug-22
000004000516-0030	Briefing the subcontractors	23-Aug-22	12-Sep-22
000004000516-0031	Project preparations done	12-Sep-22	19-Sep-22
Procurement			
000004000517-0010	Aerial xDSL copper wires	19-Jul-22	02-Sep-22
000004000517-0020	Drop wire hardware	19-Jul-22	22-Aug-22
User connection equipment			
000004000518-0010	Jump wire	19-Jul-22	02-Sep-22
Poles and Terminals			
000004000519-0010	Poles and accessories	19-Jul-22	02-Sep-22
000004000519-0020	Terminals and cabinets	19-Jul-22	02-Sep-22
Underground cable network			
000004000520-0010	Underground xDSL copper wires	19-Jul-22	02-Sep-22
000004000520-0020	Copper connection tools	19-Jul-22	02-Sep-22
000004000520-0030	Terminals and cabinets	19-Jul-22	02-Sep-22

SAP Project Change

Select All Deselect All Move WBS element level up More

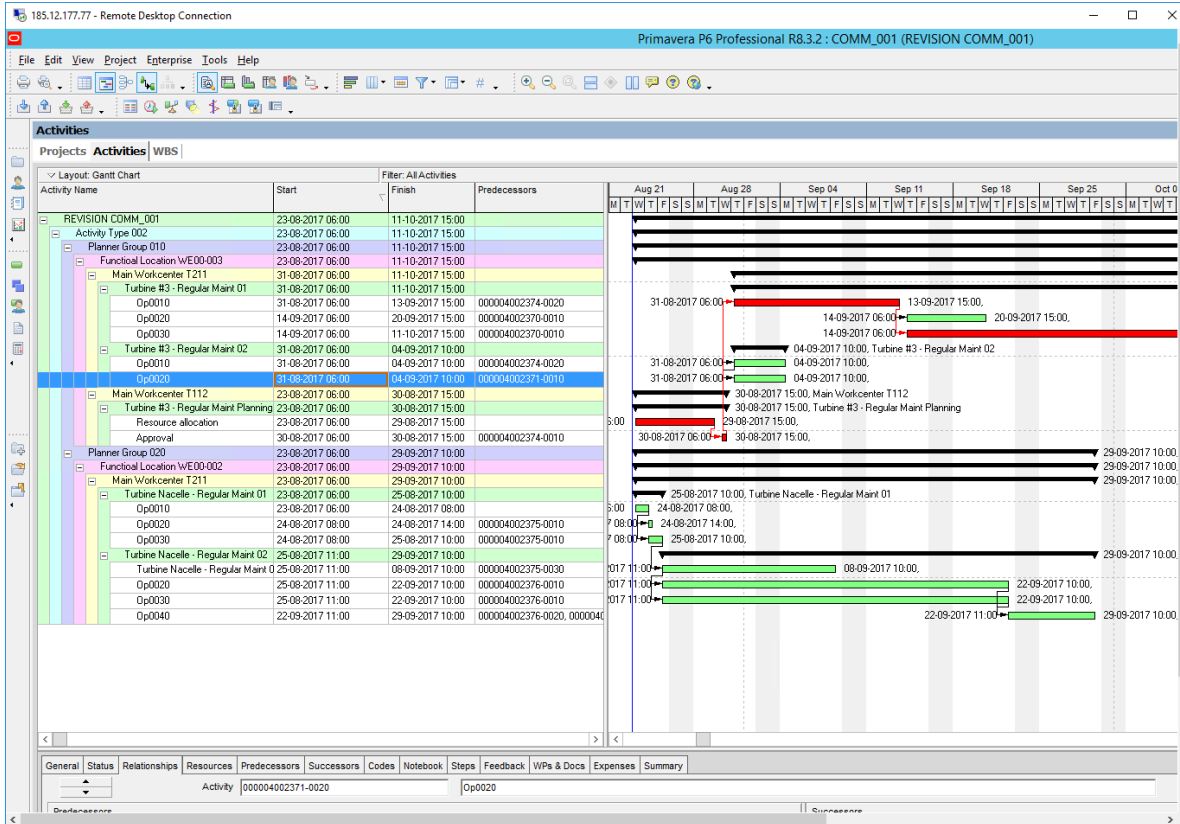
Project: T-00221 Project ADSL Area221

H	ID	Description	(B)EISchSt	(B)EISchIn
✓	T-00221	Project ADSL Area221	17.09.2021	19.07.2021
✓	T-00221.1	Plan phase and permits	17.09.2021	07.10.2021
✓	0010	Service area analysis	08.10.2021	28.10.2021
✓	0020	Rough cost estimate	08.10.2021	28.10.2021
✓	0030	Investment appraisal	08.10.2021	19.11.2021
✓	0040	Investment approval	22.11.2021	10.12.2021
✓	0041	Investment approved	13.12.2021	13.12.2021
✓	000000000027	Investment approved	13.12.2021	13.12.2021
✓	0050	Creating the Scope of Work	14.12.2021	16.12.2021
✓	0060	Creating a Topographic cadastral template	14.12.2021	18.01.2022
✓	0070	Obtaining the Location permit	14.12.2021	18.01.2022
✓	0071	Location permit obtained	19.01.2022	19.01.2022
✓	000000000028	Location permit obtained	19.01.2022	19.01.2022
✓	0080	Creating the Project charter	20.01.2022	23.02.2022
✓	0090	Creating the Detailed Project plan	24.02.2022	20.04.2022
✓	0100	Resolving legal and property matters	24.02.2022	21.04.2022
✓	0110	Approving the Detailed Project plan	21.04.2022	13.05.2022
✓	0111	Detailed Project plan approved	16.05.2022	16.05.2022
✓	000000000029	Detailed Project plan approved	16.05.2022	16.05.2022
✓	0120	Creating the Project execution plan	17.05.2022	18.07.2022
✓	0121	Project execution plan approved	19.07.2022	19.07.2022
✓	000000000030	Project execution plan approved	19.07.2022	19.07.2022
✓	T-00221.2	Construction	19.07.2022	22.02.2024
✓	T-00221.2.1	Project Preparation	19.07.2022	10.09.2022
✓	0010	Nominating the Chief Engineer	19.07.2022	22.07.2022
✓	0020	Selecting the subcontractors	19.07.2022	22.08.2022
✓	0021	Signing subcontractors	23.08.2022	23.08.2022
✓	0030	Briefing the subcontractors	23.08.2022	12.09.2022
✓	0031	Project preparations done	12.09.2022	19.09.2022
✓	T-00221.2.2	Procurement	19.07.2022	28.09.2022
✓	0010	Aerial xDSL copper wires	19.07.2022	02.09.2022
✓	0020	Drop wire hardware	19.07.2022	22.08.2022
✓	0010	Jump wire	19.07.2022	02.09.2022
✓	0010	Poles and accessories	19.07.2022	02.09.2022
✓	0020	Terminals and cabinets	19.07.2022	02.09.2022
✓	0010	Underground xDSL copper wires	19.07.2022	02.09.2022
✓	0020	Copper connection tools	19.07.2022	02.09.2022
✓	0030	Terminals and cabinets	19.07.2022	02.09.2022
✓	0040	Connection	19.07.2022	02.09.2022
✓	0040	MDF gear	19.07.2022	02.09.2022

30.05.2021 | 00:00:00 | Cha

Save Enter Cancel

Primavera – SAP PM orders example



Stanislav Janjac

Commodo Founder

Stanislav established Commodo LLC (commodo = serve, mondo = world) in 2013 as global company offering specific consultancy and implementation services in the field of Enterprise Portfolio and Project Management based on SAP technologies.

As business consultant Stanislav helps customer in their business transformation and digitalization to optimize their complex, heterogeneous project management environment and tools.

Stanislav finished Electrical engineering in Kaiserslautern, Germany, and have 15 years of experience working in Siemens AG. While managing business in a Croatia and Austria he was responsible for large teams (800 employee) distributed across nine CEE countries, as well as India and China. He has broadened experience managing the complex relationship between stakeholder groups, managing software products and complex IT solutions, serving numerous multinational customers.

Stanislav Janjac
Business consultant and CEO

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