

Oracle CEBGU

Std. Integration Primavera P6 zu Unifier

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Safe Harbor Statement

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Agenda

- 1 **Intro**
- 2 Terminplanung und Projektplanung /-ausführung
- 3 Integration P6 und Unifier

Primavera P6 EPPM Kundenfeedback

- Keine Workflows
 - Keine umfangreiche Änderungshistorie
 - Keine Webformulare
-
- Wie macht P6 Kostenkontrolle?
 - Wie macht P6 individuelles Vertragsmanagement?
 - Wie kann P6 Prozessaufgaben abbilden (z.B. Dokumentenfreigabeprozess) ?
 - Wie kann P6 den Gebäudelebenszyklus steuern?

Facilities and Asset Lifecycle Management

Facilities & Real Estate

Prioritization and Selection
Ideation & Project Inception
Renovation & Expansion Planning
Real Estate Transaction Management

Project Controls

Capital Planning
Funding
Project Approval

Unifier

Facility Condition Assessment
Facility & Asset Inspections
Preventive & Corrective Maintenance
Space Optimization



P6 EPPM

Scheduling
Engineering Deliverables Mgmt.
Design Validation
BIM Model Quantity Calculations
Estimating & Budgeting
Permitting

Unifier

Bidding & Tendering
Contract Award
Contract & Change Mgmt.
Material Control Mgmt.
Cost Control & Cash Flow
Document Management

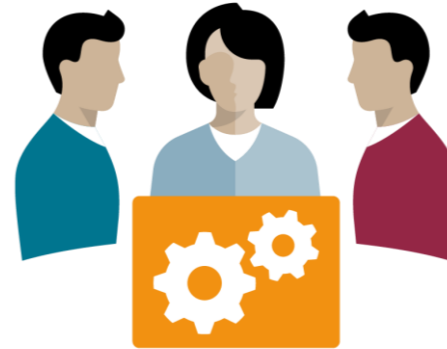
Project Closeout / Handover



Terminplanung und Projektplanung/ -ausführung



 **P6 EPPM**



 **Unifier**

Terminplanung und Projektplanung/ -ausführung



 **P6 EPPM**



 **Unifier**



 **Analytics**

P6 EPPM

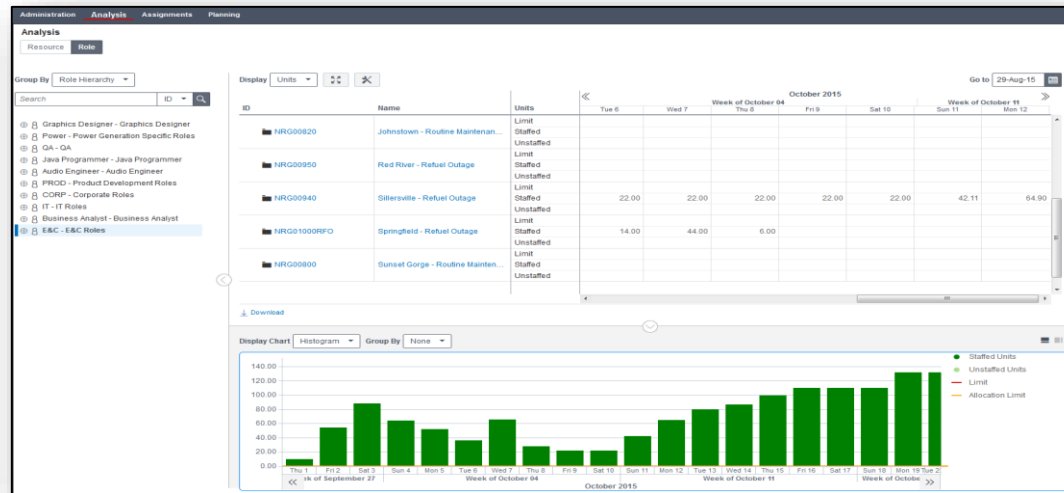
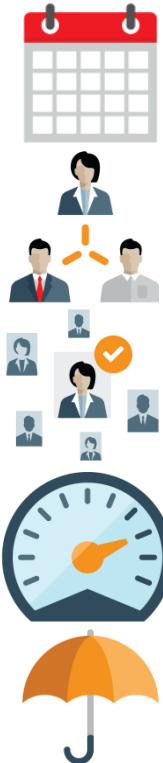
Planning and Scheduling

Capacity Planning

Resource Management

Progress Capture

Risk Management



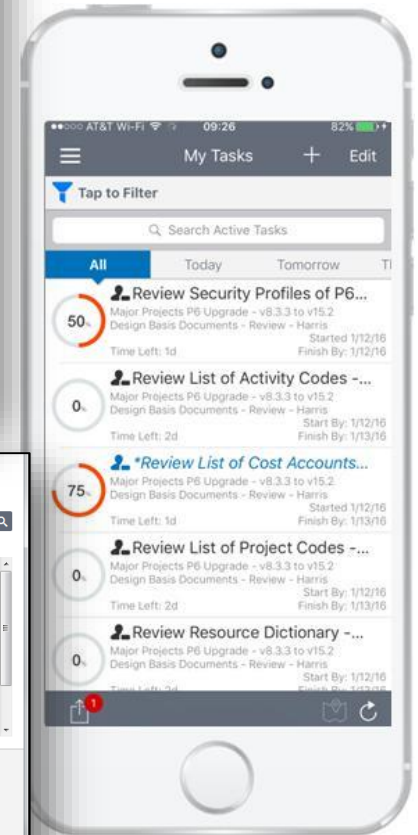
Risk Register

Project: Washington Hall

ID	Name	Type	Status	Probability	Schedule Impact	Cost Impact	Score
WH Risk01	Poor understanding and detail in specification	Threat	Proposed	H (50% - 70%)	H (20,000 - 40,000)	M (90,000.00 - 150,000.00)	28
WH Risk02	Designated clean strip contaminated	Threat	Proposed	VL (0% - 10%)	VH (40,000 - 80,000)	VH (300,000.00 - 600,000.00)	8
WH Risk03	Contract Delay	Threat	Proposed	H (50% - 70%)	M (10,000 - 20,000)	L (45,000.00 - 90,000.00)	14
WH Risk04	Key resource unavailable	Threat	Proposed	H (50% - 70%)	L (5,000 - 10,000)	L (45,000.00 - 90,000.00)	7
WH Risk05	Delivery overrun	Threat	Proposed	M (25% - 50%)	H (20,000 - 40,000)	Negligible	20
WH Risk06	Fabrication contractor goes bust	Threat	Proposed	Negligible	M (10,000 - 20,000)	M (90,000.00 - 150,000.00)	0
WH Risk07	Rework required for assembly and integration	Threat	Proposed	M (25% - 50%)	M (10,000 - 20,000)	M (90,000.00 - 150,000.00)	10
WH Risk08	Contaminated matl exceeds Grade 3	Threat	Proposed	L (10% - 25%)	L (5,000 - 10,000)	L (45,000.00 - 90,000.00)	3
WH Risk09	Design Changes	Threat	Proposed	H (50% - 70%)	M (10,000 - 20,000)	M (90,000.00 - 150,000.00)	14

Response Plan

ID	Name	Active	Type	Status	Start Date	Finish Date	Probability	Schedule Impact	Cost Impact	Score	Remaining Cost
WH Risk01-RP...	Introduce penalties for...	<input checked="" type="checkbox"/>	Reduce			26-Dec-16	VL (0% - 10%)	L (5,000 - 10,000)	L (45,000.00 - 90,000.00)	1	35,000,000.00
WH Risk01-R...	Use supported design ...			Proposed		26-Dec-16					15,000,000.00
WH Risk01-R...	Include penalties for a...			Proposed		26-Dec-16					20,000,000.00



Unifier

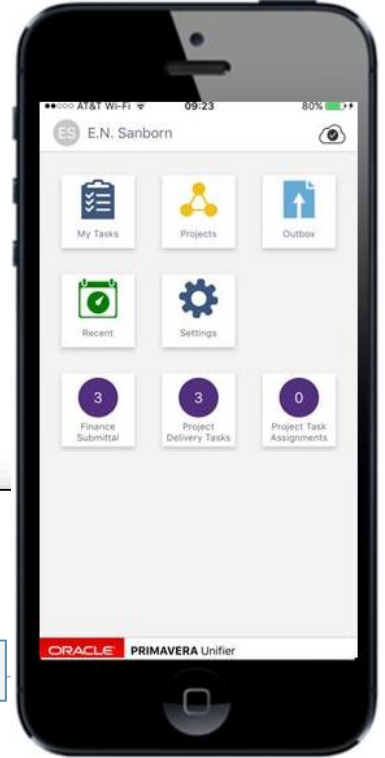
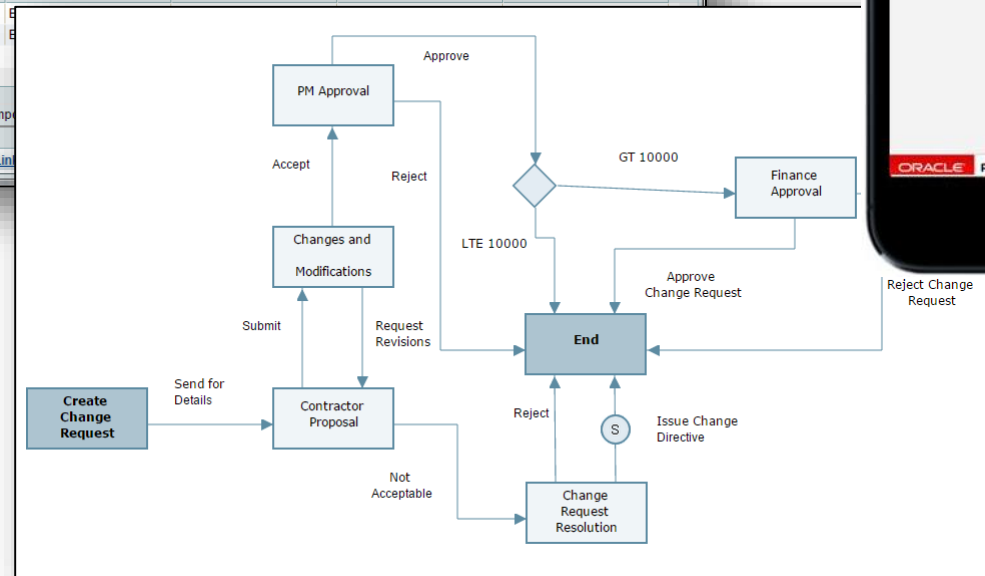
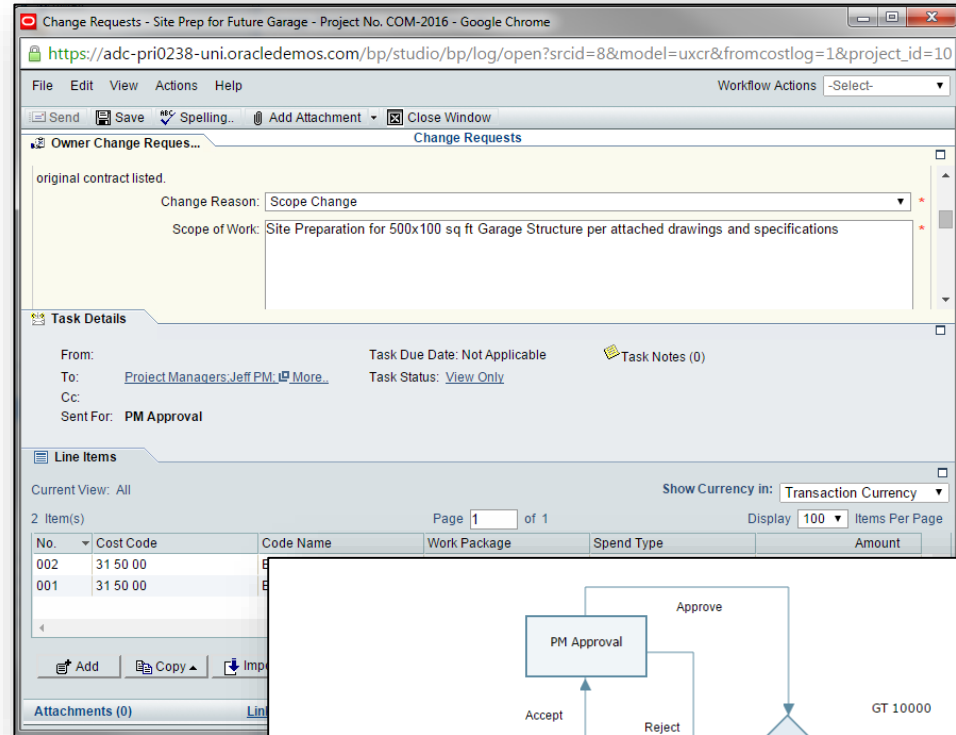
Workflow Management

Cost Control & Cash Flow

Document Management

Contract Management

Change Management



Analytics (BI)

Source Data Drill Down

Alerts & Notifications

Embed in Office Suite

Mobile Deployment

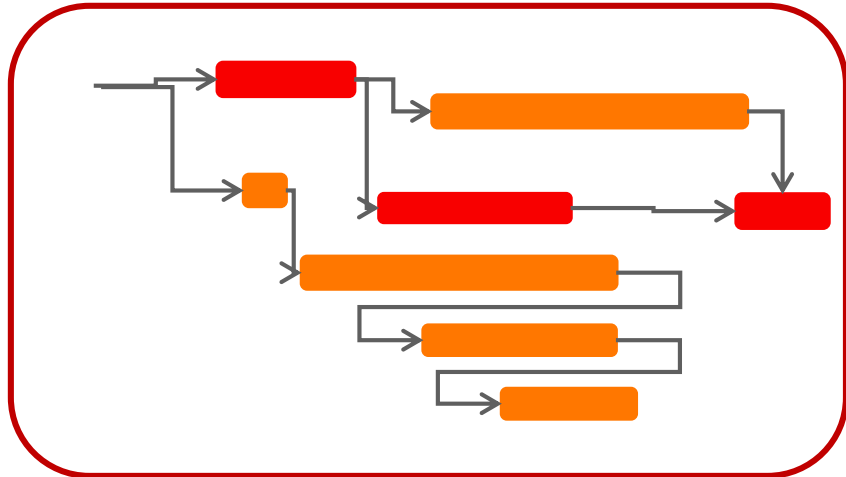
Geo-Spatial Enabled



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Terminplanung und Projektplanung/ -ausführung



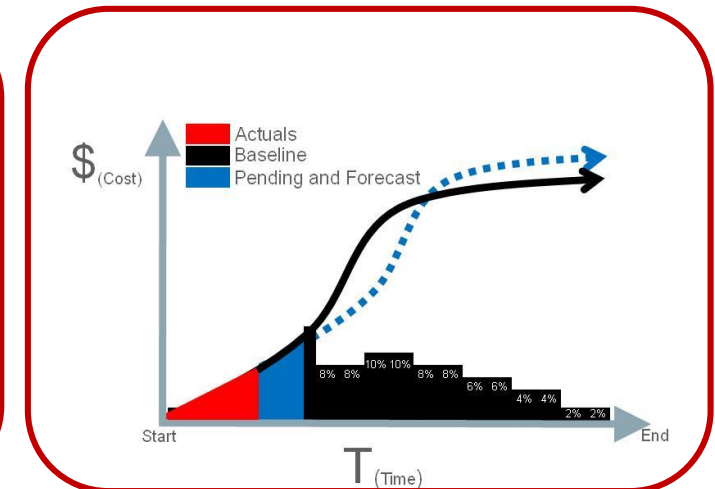
Wann?

 **P6 EPPM**



Wieviel?

 **Unifier**



Status?

 **Analytics**

Warum P6 EPPM und Unifier zusammen betrachten?

Aktivitäten und Prozesse laufen zusammen

Initialisierung	
◆ A1005	Projektmanager auswählen
■ A1010	Vertrags und Beschaffungsteam auswä
■ A1015	Entscheidung Internal, EPC, T&M
■ A1020	Projektllokation ermitteln
■ A1025	Projektantrag entwickeln
■ A1030	Projektantrag freigeben und aufsetzen
■ A1035	Gesellschafter informieren

Adminstrations-
vorgänge im
Terminplan

Engineering	
■ A1100	Ausschreibung Parkanlage 2
■ A1090	Ausschreibung Parkanlage 1
■ A1070	Ausschreibung Gebäude 1
■ A1080	Ausschreibung Gebäude 2
■ A1110	Freigabe Fundingmittel 2
■ A1120	Vorstandsmeeting
■ A1060	Freigabe Fundingmittel 1

Ausschreibungs-
vorgänge im
Terminplan

ID/Code *	Name *	Geplanter Start
UE00002	VIE Beispielprojekt	
Construction	Construction	
Kontraktor auswählen	Kontraktor auswählen	
■ A1130	Kontraktorauswahl finalisieren	01-Jan.-18 08:00
■ A1140	Vorbesprechung / Meeting 1	01-Jan.-18 08:00

Meetingvorgänge im
Terminplan

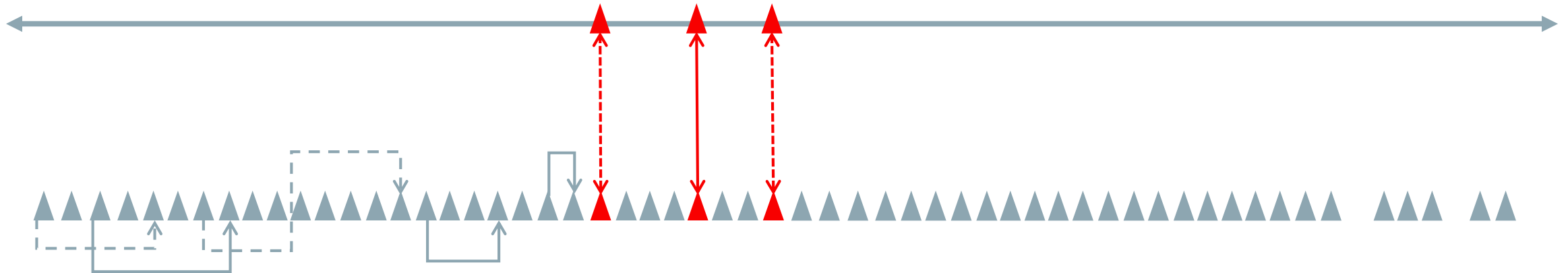
Warum P6 EPPM und Unifier zusammen betrachten?



Primavera Unifier Projektcontrolling und P6 Terminplanung

- ▲ Tasks (Aufgabe / Meilenstein / Prozess / Freigabe)

ORACLE Primavera P6



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PRIMAVERA UNIFIER

Primavera Unifier Projektcontrolling und P6 Terminplanung

- P6 Aktivitäten / Arbeitspakete und Metadaten nach Unifier
- Metadaten (auch benutzerdefinierter Felder) können in Unifier verwendet werden

The screenshot displays the Primavera Unifier interface. The main window shows a 'P6 Schedule' table with columns for Id, Activity Name, P6 Activity No., Planned Cost, Actual Cost, At Completion, and WBS Codes. The activity 'Prepare and Solicit Bids for Flo...' (ID 70) is highlighted with a red box. To the right, a Gantt chart shows the activity's duration from 01/07/2013 to 01/30/2013. An orange callout bubble in the top right corner contains the text 'Spiegeln des P6 Terminplanes in Unifier'. Below the table, an 'Activity Properties' dialog box is open, showing details for activity 70. An orange callout bubble in the bottom left corner points to this dialog box with the text 'Metadaten können in Unifier Forms verwendet werden'. The dialog box includes sections for Activity Details, Dates, and Costs.

Id	Activity Name	P6 Activity ...	Planned Cost	Actual Cost	At Completi...	WBS Codes
70	Prepare and Solicit Bids for Flo...	EC1170	\$3,960.00	\$0.00	\$3,960.00	09 60 00
71	Review Bids for Flooring	EC1250	\$2,376.00			
72	Install Floor and Carpeting	EC1790	\$3,240.00			
73	Award Contract for Flooring	EC1300	\$792.00			
74	Assemble and Submit Flooring...	EC1060	\$0.00			

Activity Properties - Google Chrome
https://adc-pri0238-uni.oracle.com/bp/sch/activity/addedit?sheet_id=376&id=6094&isVi

General | WBS Codes | Resource | Dependencies

Activity Details

Activity Id: 70 | Activity Name: Prepare and Solicit Bids *
P6 Activity No.: EC1170 | Predecessor:
Calendar: Company Calenda | WBS Codes: 09 60 00
Assigned Resources: Project Controls

Dates

Planned Start Date: 01/07/2013 * | Actual Start Date:
Planned Finish Date: 01/30/2013 * | Actual Finish Date:
Planned Duration: 18 * | Actual Duration: 0

Costs

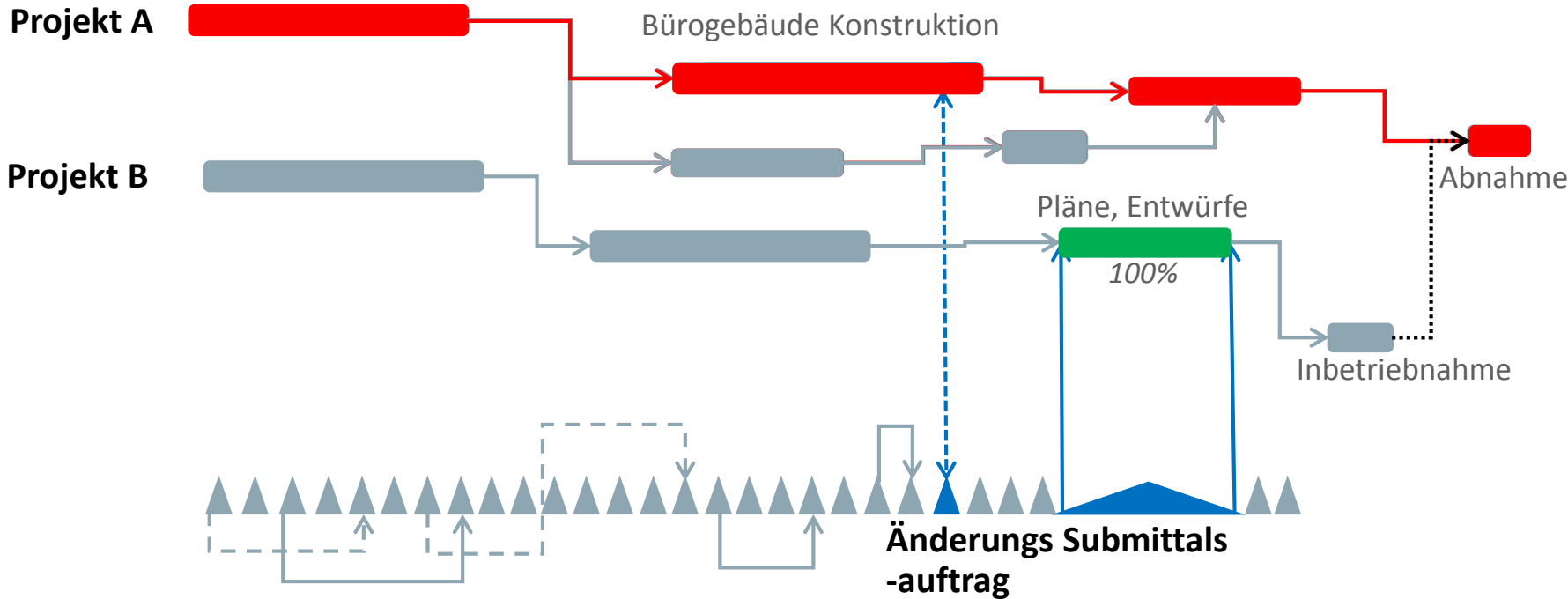
Planned Cost: \$3,960.00 | Remaining Cost: \$3,960.00
Actual Cost: \$0.00 | At Completion Cost: \$3,960.00

OK | Cancel

Umfassende (holisitische) Projekt- und Kostensicht

▲ Prozess
■ Aktivität

ORACLE Primavera P6



~~382 Tage~~ 400 Tage

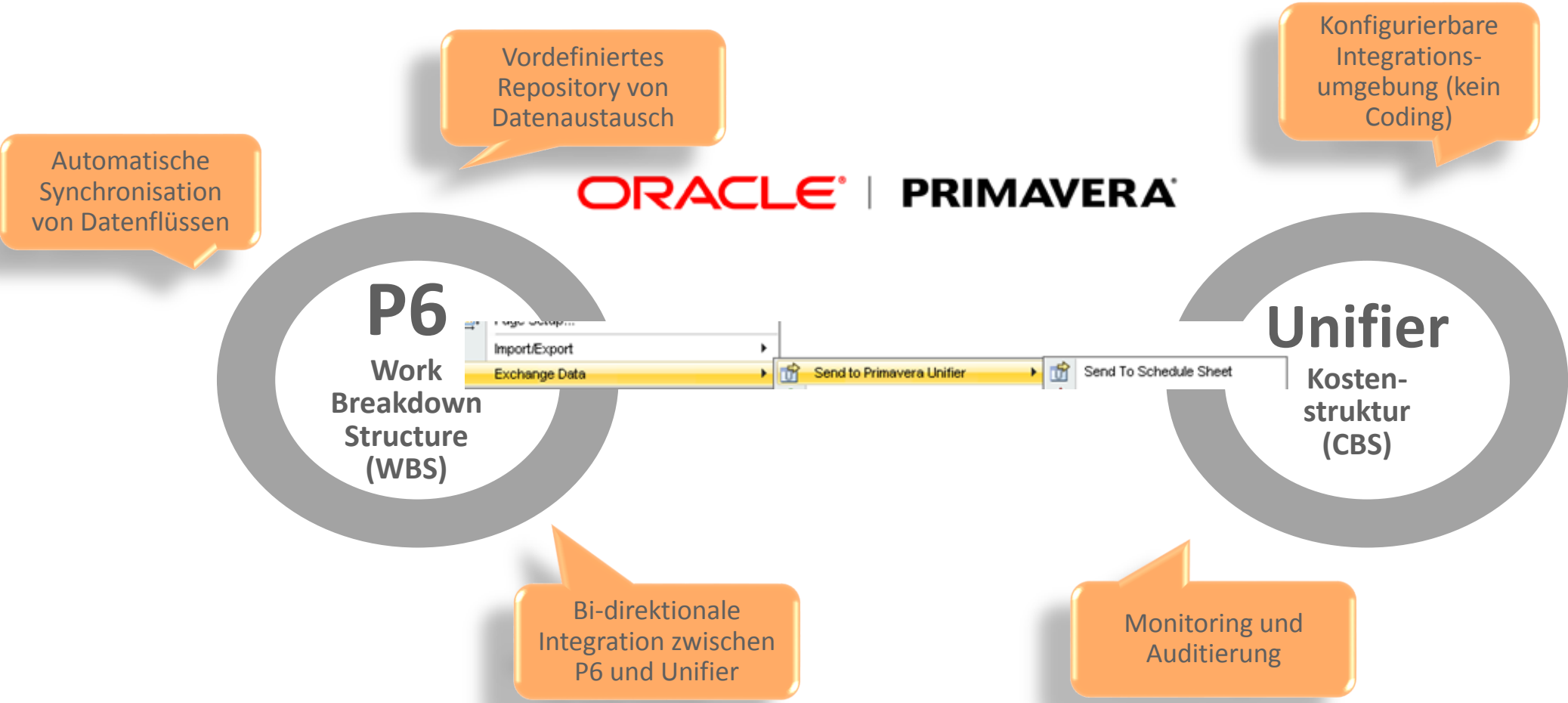
- Unifier kann Felder inklusive UDF's in P6 updaten. Im Beispiel das Feld 'Geänderte Dauer'
- Unifier kann 'Ist-Start' und 'Ist-Ende' Daten in P6 updaten

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PRIMAVERA UNIFIER

Informationsupdate kann „remote“ erfolgen, inklusive Kommentierungen



Primavera Unifier Projektcontrolling und P6 Terminplanung



Warum P6 EPPM und Unifier zusammen betrachten?

„Deliverables“ basierendes Projektmanagement



Deliverables in der Realität



1. Wann müssen wir mit den Arbeiten an dieser Pipeline beginnen?
2. Wieviel Mann-Stunden planen wir zur Fertigstellung, und wieviel veranschlagen wir für die Kosten?
3. Wer von unseren Ressourcen / Partner ist qualifiziert und wer ist verfügbar
4. Wieviel Zeit haben wir tatsächlich bisher verbraucht? Und wieviel werden wir noch benötigen?
5. Was ist mit den anderen Deliverables für diese Pipeline und wer verantwortet diese?
6. Was sind die Kriterien der Fakturierung, z.B. Errichtung, Drucktest, QA/QC, Abnahme?
7. Wo speichere ich all die notwendigen Dokumente?

„Deliverables“ Prozess gesteuert mittels Unifier Workflow



Unifier PM



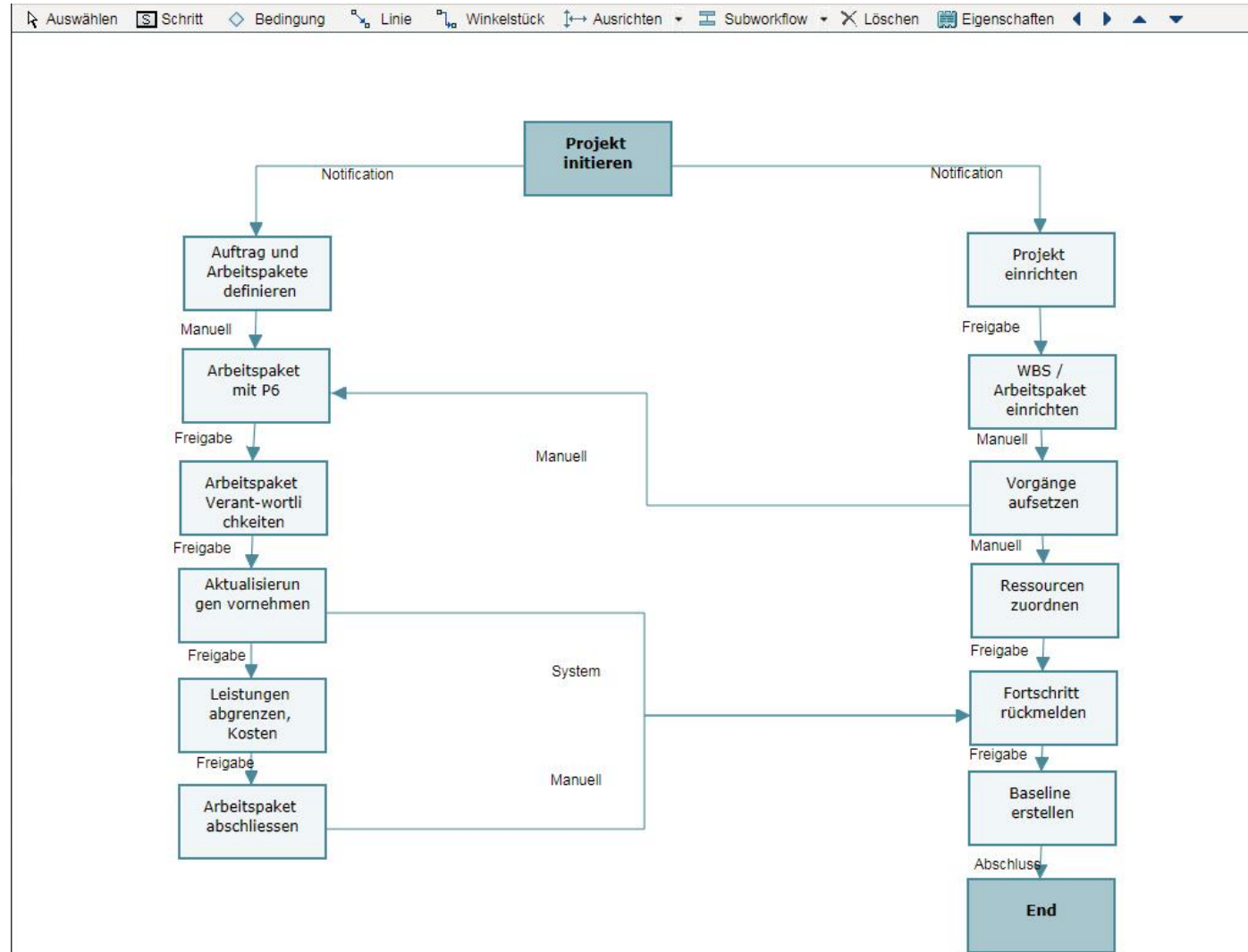
Project Team



P6 Scheduler



Project Team



Agenda

- 1 Intro
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- 3 **Integration P6 und Unifier**

Integrations-Optionen

Pre-built

Primavera
Gateway

Primavera
Analytics



Direkt

Manueller P6 xml
(csv) Import

semi-automatisch
schedule sheet

1. Direct P6 - Unifier schedule file integration manual

The screenshot displays the Oracle Primavera Unifier Terminplanmanager interface. The browser address bar shows the URL: https://ucf7-pri0333-uni.oracle.com/bp/sch/openSCHView?id=8&_uref=uuu116:navigator-6. The interface includes a navigation menu on the left with items such as 'Hornstull Renovatio...', 'Mailbox', 'Arbeitsvorrat', 'Projektinformationen', 'Projektmanagement', 'Bauherrenmappe', 'Behördengenehmig...', 'Dokumente', 'Projektpläne', 'Terminplanarbeits...', 'Aktivitätsblatt', 'P6-Übersichtsblätte...', 'Grobschätzung, Bud...', 'Kostenblatt', 'Ausschreibung - Ver...', and 'Verträge, Änderunge...'. The main area features a 'Datei' menu with options: 'Speichern', 'Snapshot öffnen', 'Als Snapshot speichern', 'Drucken', 'Exportieren', 'Importieren', 'Eigenschaften', 'Einschränkungen', 'Datenzuordnung', 'Umfangsmanagementsetup', 'Budget- und Fortschrittssetup', and 'Fenster schließen'. The main view is a Gantt chart with columns for 'Start date', 'Finish date', and 'Duration'. A calendar view for 'Sep 28, 2015' is visible, showing days of the week (M, D, M, D, F, S, S) and a yellow highlight on the Saturday and Sunday columns.

2. Direct P6- Unifier schedule sheet integration semi automated

Projektvoreinstellungen für City Center Office Building Expansion

Wählen Sie die Einstellungen für die Unifier-Integration aus.

Terminplanarbeitsblattintegration

- Projekt mit einem Primavera Unifier-Projekt verknüpfen
- Projektname:
- Terminplanarbeitsblatt:
- Datenzuordnung:
- Nicht mehr im P6-Terminplan enthaltene Aktivitäten aus Primavera Unifier löschen
- Nur Aktivitäten mit zugewiesenen CBS-Codes senden

Übersichtsblattintegration

- Terminplantyp:
- WBS-Hierarchie synchronisieren
- Vollständig:

Activity

Unifier Column	CSV Header	P6 EPPM Column
Activity Name	Activity Name	Name
Activity Number	Activity Number	Id
Activity Percent	Activity Percent	PercentComplete
Actual Finish Date	Actual Finish Date	ActualFinishDate
Actual Start Date	Actual Start Date	ActualStartDate
Baseline Duration	Baseline Duration	BaselineDuration
Baseline Finish	Baseline Finish	BaselineFinishDate
Baseline Start	Baseline Start	BaselineStartDate
CBS	CBS	CBSCode
Duration	Duration	PlannedDuration
Early finish date	Early finish date	EarlyFinishDate
Early Start date	Early Start date	EarlyStartDate
Finish date	Finish date	PlannedFinishDate
Late finish date	Late finish date	LateFinishDate
Late Start date	Late Start date	LateStartDate
Start date	Start date	PlannedStartDate

Resource

Unifier Column	P6 EPPM Column
P6 Cost	PlannedCost
Quantity (Qty)	PlannedUnits
Resource Name	Name
Resource Type	ResourceType



Oracle Primavera Gateway

fully automated - P6 Gateway settings for Unifier Integration

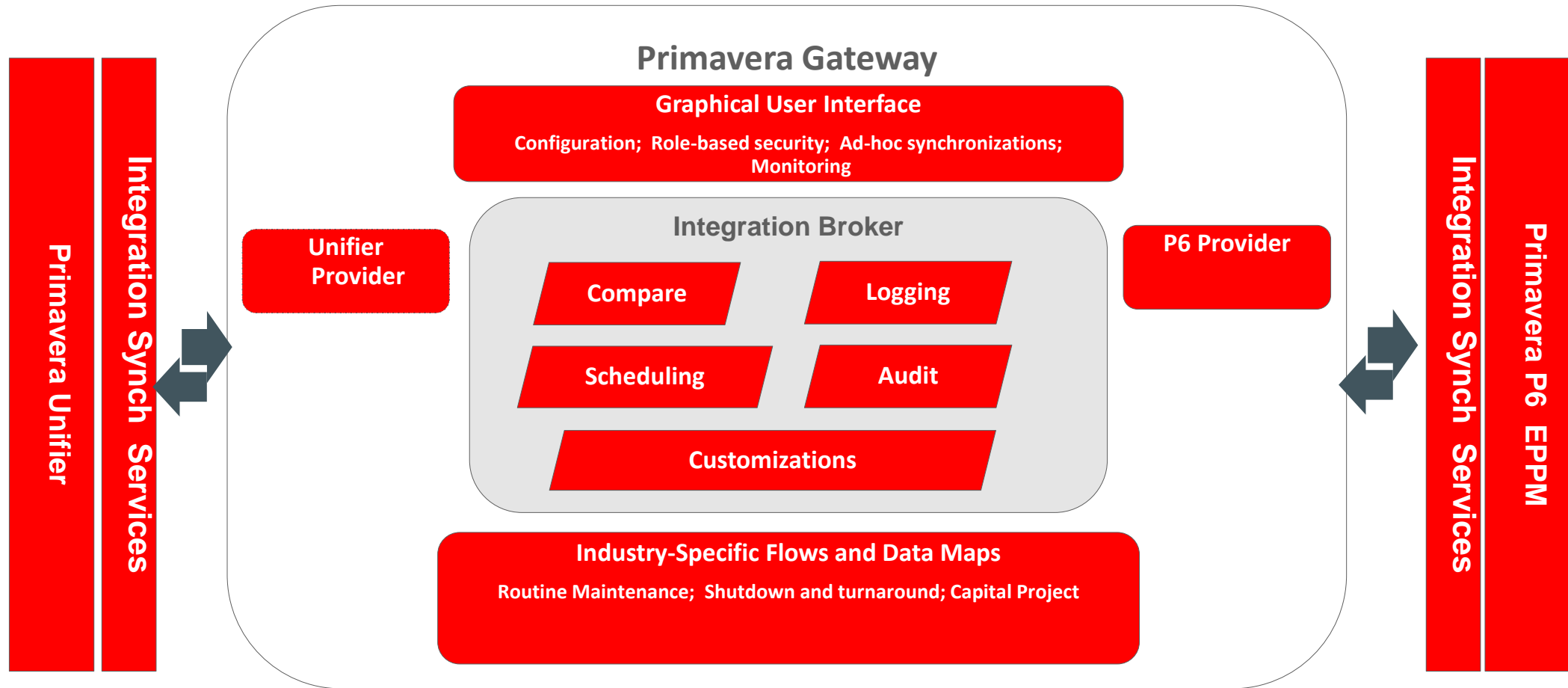
The screenshot displays the Oracle Primavera Gateway administration console. The top navigation bar includes 'Dashboards', 'Portfolios', 'Projekte', 'Ressourcen', 'Genehmigungen', 'Berichte', and 'Verwaltung'. The 'Verwaltung' menu is expanded to show 'Anwendungseinstellungen', 'Unternehmensdaten', 'Terminierte Services', 'Benutzerverwaltung', and 'Benutzeroberflächenan...'. The left sidebar lists various settings categories, with 'Gateway' selected. The main content area is titled 'Gateway' and contains the following sections:

- Gateway-Parameter:** A section for configuring Gateway parameters. It includes a text box for 'API URL' (http://localhost:8020/gatewayapi), a 'Benutzername' field (gatewayadmin), and a 'Kennwort' field (masked with dots). A 'Testverbindung' button is located to the right of the password field.
- P6-Deployment:** A dropdown menu currently set to 'P6 Deployment'.
- Integrationsparameter:** A section for selecting action types and deployment/synchronization options. It includes 'Hinzufügen' and 'Aktualisieren' buttons.
- Action Configuration Table:** A table with four columns: 'Aktionstyp', 'Quell-/Ziel-Deployment', 'Synchronisierung', and 'Aktionsname'. Each row represents a specific integration action.

Aktionstyp	Quell-/Ziel-Deployment	Synchronisierung	Aktionsname	
Exportieren	Unifier Deployment	Send to Primavera Unifier	Send to Primavera Unifier	×
Importieren	Unifier Deployment	Update from Primavera Unifier	Update from Primavera Unifier	×
Exportieren	Unifier Deployment	Get Activity data from P6	Send Activity data to Unifier	×
Importieren	Unifier Deployment	Send Activity data to P6	Get Activity data from Unifier	×

Oracle Primavera Gateway

Architectural Overview



Primavera Analytics – Integration on BI level

Prebuild Enterprise Reporting Database and Analyses based on P6 & Unifier

- Gain greater insight into your schedule and cost metrics
- Customize reports and portals to meet your individual business needs
- Use pre-configured industry samples based on asset-intensive use cases
- Immediately understand exceptions and perform root cause analysis
- Includes Oracle's Primavera Data Warehouse

