

VALUE NOW, VALUE OVER TIME

OSISOFT USER CONFERENCES 2006

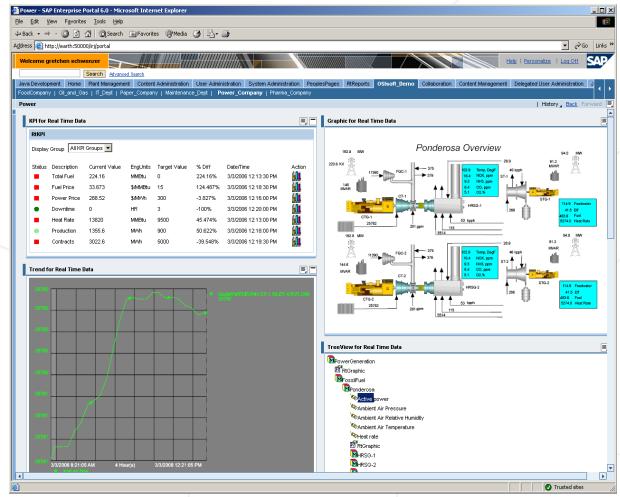
Thin Clients RtPM Business Package Certified for SAP NetWeaver™

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OSIsoft.

Unified View of the Enterprise



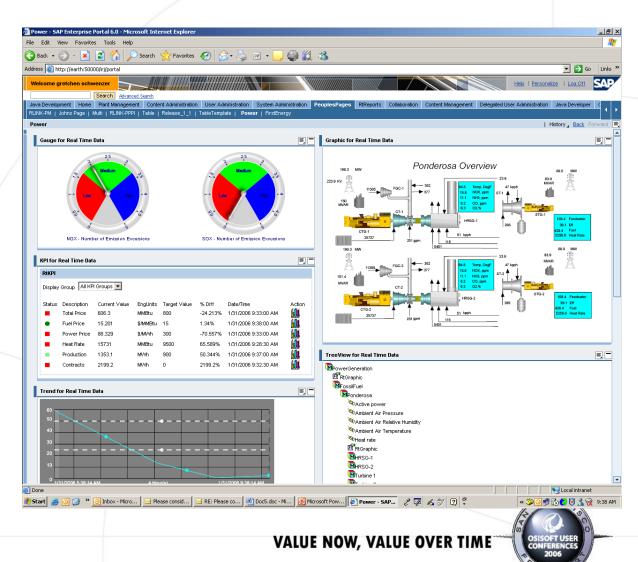
How can I view manufacturing data in conjunction with business data from SAP in the corporate SAP Portal?

Pain Points

- How can I get process data on the SAP Portal with no programming
- How can I do ad-hoc analysis of manufacturing from the SAP Portal
- How can I integrate manufacturing data with enterprise data
- Global view of manufacturing operations

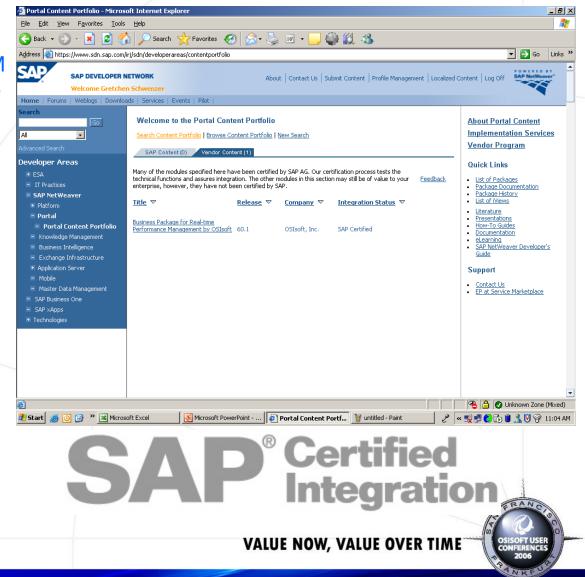
RtPM Business Package for the SAP Portal

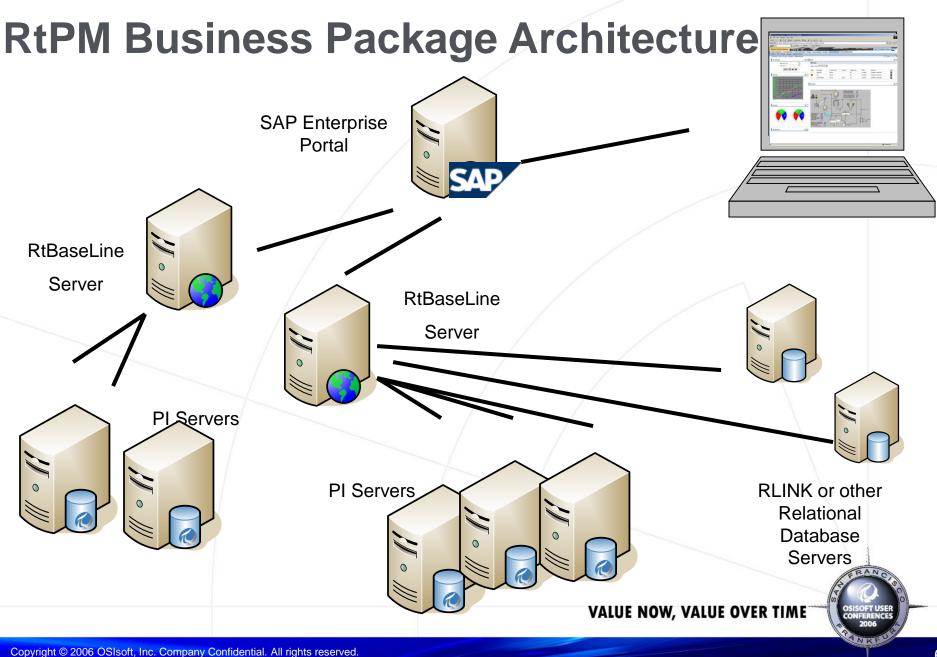
- Business Package
 - Combination of Roles, Pages and iViews for process data
 - Built upon SAP Portal6 SP 11 and higher
 - End user configurable
 - Supports Multiple business functions
 - Customer incorporates into many applications including 3rd party
 - Complements SAP Offering



Certified Business Package

- Certified by SAP Interface Software for SAP NetWeaver TM Advertised on SAP SDN website
- Namespace com.osisoft.pct.RtPM
- Support Branding, and Single Sign-on and personalization
- Eventing between iViews
 - Composite application development
- Supports any platform the SAP Portal runs on





Requirements

- RtBaseLine Server
 - Windows Server 2003
 - Windows SharePoint Services
 - MSDE 2000 (can be on separate box)
 - Write access to a PI System
 - RtBaseline Services
 - Machine Sizing
 - Sized as a function of the number of users
 - E.g., 200 users
 - Dual P4, 2GB Ram, 2 GB
 Disk space (NTFS only)

- **Client Side**
 - Requires compatible SVG Viewer (currently Adobe SVG Viewer)
 - Internet Explorer 6.0 SP1
 - No ActiveX downloads
 - Machine Sizing
 - Windows 2000 or XP
 - Pentium III or higher
 - 256 to 512MB of RAM recommended
- SAP Portal
 - 6.0 SP11>
 - NetWeaver 4.0
 - Any NetWeaver operating system



Demo

RtPM Business Package Basic Building Blocks <u>FR-03-01C-Schwenzer-iViews-Overviewdemo-</u> <u>uc2006.exe</u>

Basic Set of iViews

- RtActiveView
- RtGauge
- RtGraphic
- RtKPI
- RtTable
- RtTableTemplate
- RtTagSearch
- RtTimeRange
- RtTimeSeries
- RtTreeView
- RtTrend
- RtValues

RtGauge

RtGauge	E	 Personalization 			
6 50 60 60 50 Creat	50 150 760 10 150 760 10 150 760	User DefinedFixed Standard Page			
R- Law High -8 R- Red					
	SAP Enterprise Portal 6.0 - Microsoft Internet Explorer RtBaseLine Configuration Gauge Tags Configuration				
8	Data Source OSIsoft_RtPM_1 RtBaseLine Server ganymede	(e.g., Wocalhost\sinusoid) Add Tag			
12 Hour Sine Wave = 29.2652 Wocalhost\sinuso	Locale ID 1033	Wocalhost\sinusoid Wocalhost\circusoid Delete Tag			
	Auto Update	Multiple gauge orientation O Horizontal O Verti	ical		
	🔽 Auto Update	Legend			
	Update Interval 15 Seconds	✓ Tag Name □ Engineering Units □ Description □ Current Value			
User Definable Gauge	Format	Scale			
Vertical or Horizontal orientation	Number Format General Bad Data Color Red Number of Zones 3 Zone1 Percentage Zone Setting Zone2 Label High	Minimum Scale Maximum Scale © Database © Database © Custom © Custom			
Multiple zones completely customizable	Zone3 Label High Color Blue Total Scale Percentage 40 Low Value 60	0 100 Settings			
Events to other iViews and subscribes to events	High Value 100 Dial Gauge Size 180	Base Angle 60 Text Color DarkBlue Face Color LightGray Background Color LightGray Save Cancel			
		VALUE NOW, VALUE OVER TIME	00		

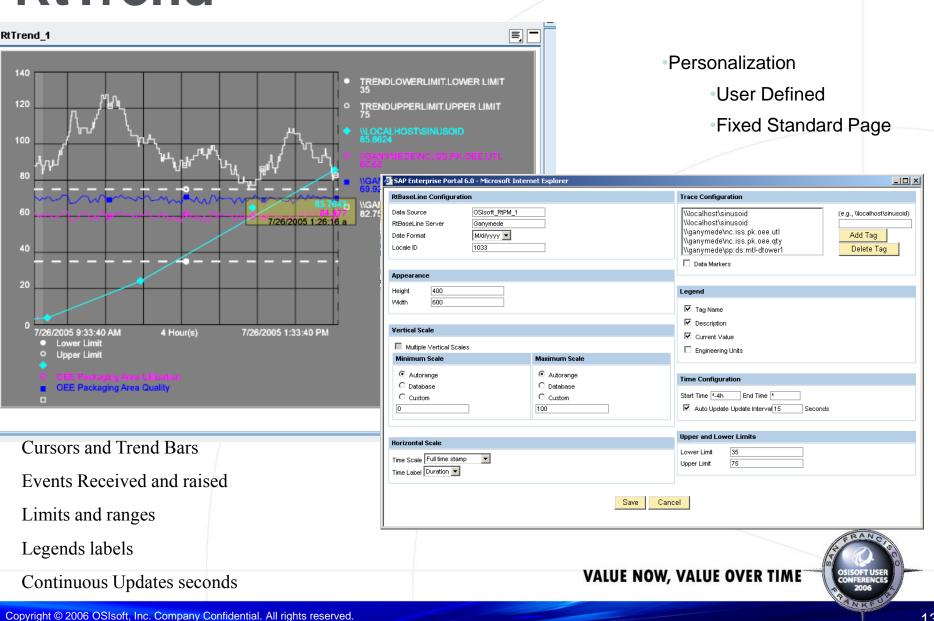
RtGraphic

RtGraphic	Personalization
BM Feed End Bear Temp #1 BM Feed End Bear Temp #2 BM Feed End Bear Temp #3 BM Disch End Bearing Temp BM Disch End Bearing Temp BM Disch End Bearing Temp	
	SAP Enterprise Portal 6.0 - Microsoft Internet Explorer
Motor Winding Hi Temp 112 29 Bearing Temp B1 48.95 Bearing Temp B2 100.43	Data Source OSIsoft_RtPM_1 RtBaseLine Server GANYMEDE Locale ID 1033
BM Geer Dive Temp 64.03 BM Lube Oil Reservoir Temp 72.94 User Designed Updates 15 seconds	ttGraphic Configuration e.g., http://server/svg/example.svg or c:\\program files\\pipc\\rtwebparts\\svg\\example.svg) Graphic File Name http://ganymede/rtwebpar Height 400 Width Width 600 Image: Auto Update Update every 15 seconds
Symbols Event to other iViews Recieves SVG filename events from RtTreeView	Save Cancel
Values Event to other iViews Multistate Values	VALUE NOW, VALUE OVER TIME

RtKPI

		 Personalization
RtPowerKPI RtKPI Page		•User Defined
Display Group All KPI Groups		 Fixed Standard Page
Status Description Current Value EngUnits Target Value Total Fuel 510.33 MMBtu 900 Fuel Price 34.945 \$/MMBtu 15 Power Price 244.02 \$/MWh 300 Downtime 0 HR 3 Heat Rate 7922.1 MMBtu 9500 Production 1378.2 MWh 900 Contracts 1755 MWh 5000 User Definable KPI Updates and continuous alarm checking second timeframe Multi-state (5) alarm regions per value Events to other iViews for trending	% Diff Date/Time Action -43.297% 4/29/2005 1:37:30 PM Image: Sape and the second s	rer New Tag (e.g., Wocahostishusoid) Add Tag Delete Tag Delete Tag Delete Tag Red SkyBlue Red A Red A SkyBlue A Red A C A C A C A C A C A C A C A C
		VALUE NOW, VALUE OVER TIME

RtTrend



Demo

RtPM Business Package Relational Database Query FR-03-01C-Schwenzer-iViews-Tabledemo.exe

RtTableTemplate

RtTable Template Configuration

OrderID CustomerID EmployeeID

OrderDate RequiredDate

ShippedDate ShipVia Freight ShipName ShipAddress ShipCity ShipRegion

New Save Copy Delete T	emplate			
Saved Private Templates	Query Settings			
JoeTest1 MikesMeasurementDoc PrivateTemplate9 TableTest5 TableTest2 test1	Connection String Driver=(SQL Server); Server=earth; uid=RLINKUser; pwd=RLINK; database=Northwind			
Saved Public Templates	Check Connection			
e1 e2 e3 e4 ElenaFinalExam OLEDBTest Template Properties Template Name Table Test5	Query Select * from Orders Check Syntax			
Private Template	Placeholders			
Author OSIsoft2 Creation Date 12/21/2005 16:43:04	No. Display Name Type Value			
Modified Date 12/30/2005 10:47:47	Custom Events			
DataSource Type	Namespace com.osisoft.pct.RtPM Event Name MyClickEvent			
Column Configuration				
	Configuration Cond Formatting Hyperlink			

Behavior

Default

-

Number Format

Database 💌

Private and Public Templates

Conditional Formating

Events Broadcast Defineable

🕌 SAP Enterprise Porta	al 6.0 - Microsoft 💶 🗖 🗙		
RtBaseline Configurat	tion		
Data Source	OSIsoft_RtPM_1		
RtBaseLine Server	ganymede		
Module Database Serve	r ganymede		
Save	Cancel		
Jave	Cancer		
1			

VALUE NOW, VALUE OVER TIME

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Heading Text

RtTable

RtTable								Personalization
Listener O	n 🔽				< < <	> >>		User Defined
OrderID	CustomerID	EmployeeID	OrderDate	RequiredDate	ShippedDat	e ShipVia		 Fixed Standard Page
10248	VINET	5	7/4/1996 12:00:00 AM	8/1/1996 12:00:00 AM	7/16/1996 12:00:00 /	SAP Enterprise	Portal 6.0 - Microsoft Internet Explo	
10249	TOMSP	6	7/5/1996 12:00:00 AM	8/16/1996 12:00:00 AM	7/10/1996 12:00:00 #	RtBaseline Conf Data Source RtBaseLine Serve	OSIsoft_RtPM_1	Advanced Table Configuration Module DB Server ganymede Select a Configuration PlaceHolderTest8
10250	HANAR	4	7/8/1996 12:00:00 AM	8/5/1996 12:00:00 AM	7/12/1996 12:00:00 /	Locale ID Table Column C	1033	Rows to display 5 Include Advanced Table Configuration
10251	VICTE	3	7/8/1996 12:00:00 AM	8/5/1996 12:00:00 AM	7/15/1996 12:00:00 /	Available Columns		Selected Columns Sample StartTime EndTime
10252	SUPRD	4	7 <i>/</i> 9/1996 12:00:00 AM	8/6/1996 12:00:00 AM	7/11/1996 12:00:00 /			Actual_Value
					Showing	Time Configurat	ion	
			/			Start Time *	2h End Time *	Auto Update 🔽 Update Interval 15 Seconds
Respon	ds to Ti	me Even	its			Text pH Level L	ab Data 24-Feb Lower_Limit	50 Actual_Value 7
-	onal Fo							Save Cancel
3roadca	ast Ever	nts						
							VAL	UE NOW, VALUE OVER TIME
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Demo

RtPM Business Package Plant Maintenance <u>FR-03-01C-</u> SchwenzeriViewsMaintenance.exe

Supplement RLINK PM

- RtRLINKAlarmVals
- RtRLINKFunctionalLocation
- RtRLINKFunctionalLocationSymbol
- RtRLINKMeasurementDocs
- RtRLINKPlantUnit
- RtRLINKPointGroupFromFunctionalLocation
- RtRLINKTags

Demo

RtPM Business Package Production Information FR0301CSchwenzeriViewsProduction.exe

Supplement RLINK PPPI

- RtRLINKBOM
- RtRLINKMaterialTags
- RtRLINKMSEL
- RtRLINKMSHD
- RtRLINKPhase
- RtRLINKPlant
- RtRLINKPointGroupRtRLINKRecipe
- RtRLINKTags

Kodak

- Goal
 - Monitor Energy Performance company wide
 - Only Portal in company is SAP Portal
- Implementation
 - Installed themselves
 - Webex training and support
 - Resolved https issues with their help
- Presenting at SF User Conference

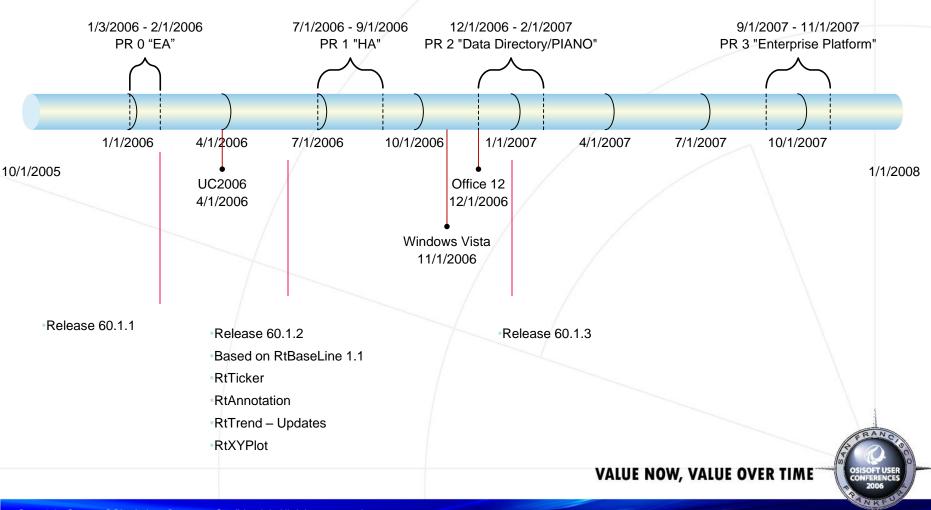
Key Differentiators

- Operates in real time (seconds) ie. Displays continuously update
- Performance and security of operational systems maintained
- Events published and subscribed to
 - EPCM.raiseEvent("com.osisoft.pct.RtPM","AdhocSymbol", symbolname)

EPCM.subscribeEvent("com.osisoft.pct.RtPM","AdhocTags", adhocTags)

- 3rd parties are integrating with OSIsoft iViews and namespace events
- Authoring tool for Displays ProcessBook
- Configurable Application
- Displays can have fixed content or they can be dynamic
- Real-time web services and Real-time composites to enable an enterprise wide business platform

Platform Release Timeline



Summary

- Installed and operational in < 3 hours
- Unified view of the enterprise business and multi site manufacturing facilities in single view
- Demo pod
- Learning Lab

SEA: RtPM Business Package

Simple

- Easily installed
- End user configurable and designed
- Enterprise Aware
 - Across enterprise visualization integrated with other Enterprise data
- Highly Available

- Information whenever, wherever, and however