



## Regional Seminar Series Southern California



## PI System Roadmap

February 2010

Empowering Business in Real Time.

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## Business Mandates

- Quality & Quantity
- Reliability & Availability (Asset, Product)
- Compliance
- Use of capital (ROCE)
- Environment, Safety, Health & Hygiene
- Innovation
- Markets and Trading
- Performance
- Economic Performance
- Resource (Energy) Management & Optimization

## Capabilities

- Archiving (digital retention)
- Analysis
- Reporting
- Notifications
- Trending
- Ease of access to data
- Ease of use of the data
- Availability of data
- Scalability & Extensibility
- Visualisation
- Contextualize



## Cross Functional Aspects of the PI System

Scalable

Available

Reliable

Extensible

Secure

Interoperable

**The  
Visuals**

**Deliver Information for Meaningful,  
Better Business Decisions**

**The  
Analytics**

**Turn Valuable Real-Time Data  
Into Actionable Information**

**The  
Server**

**Gather, Organize, Distribute,  
and Store Data from Many Sources**

- Security
- Scalability
  - 64-bit Support
- High Availability
- Single Data Directory Model - AF
- Office 2010 Integration
- Usability / Productivity Improvements

# The Servers



# 3 concurrent releases for 3 themes

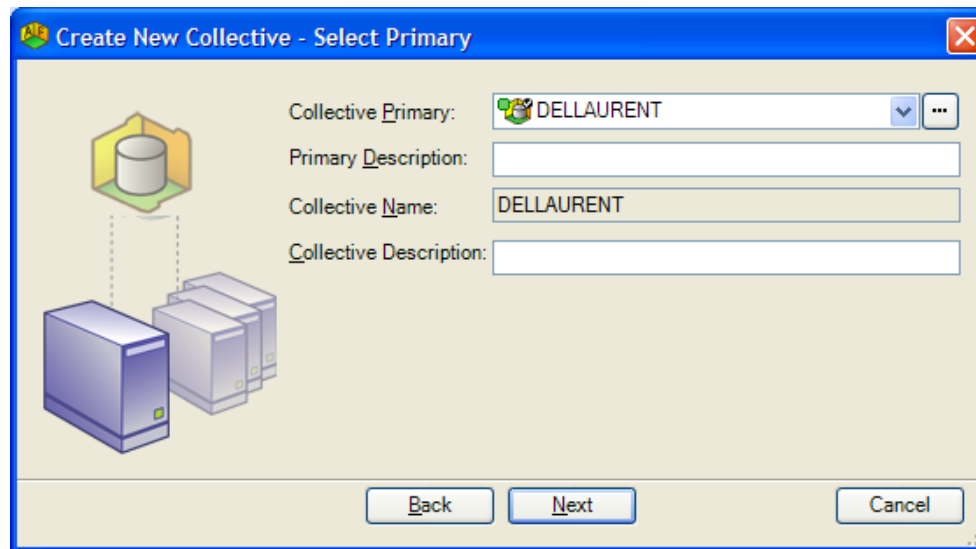


- Releases
  - PI Server 3.4.380 with Windows Integrated Security
    - Released September 21, 2009
  - PI AF 2.1
    - Released September 1, 2009
  - PI Notifications 1.1
    - Released September 30, 2009
- Integration with Windows Security
- High Availability
- More Scalability and Manageability

- PI AF 2.x uses Windows Security since the first release
- The PI Server can leverage Windows authentication mechanism
- PI Notifications leverages both PI AF and the PI Server security



- The PI Server has been HA for 3 years
  - Released in Q1 2007
- PI Notifications has been HA since the first release
  - Released in Q1 2008
- PI AF 2.1 is now Highly Available





- Better performance, scalability and throughput for the PI Server, PI AF and PI Notifications
- Support for 64bits
  - Native support for the PI Server and PI AF
  - PI Notifications tested as a 32bits running on 64bits
- New PI SMT 3 plug-ins to manage the new security model
- Improved manageability for PI Notifications leveraging PI AF Notifications templates

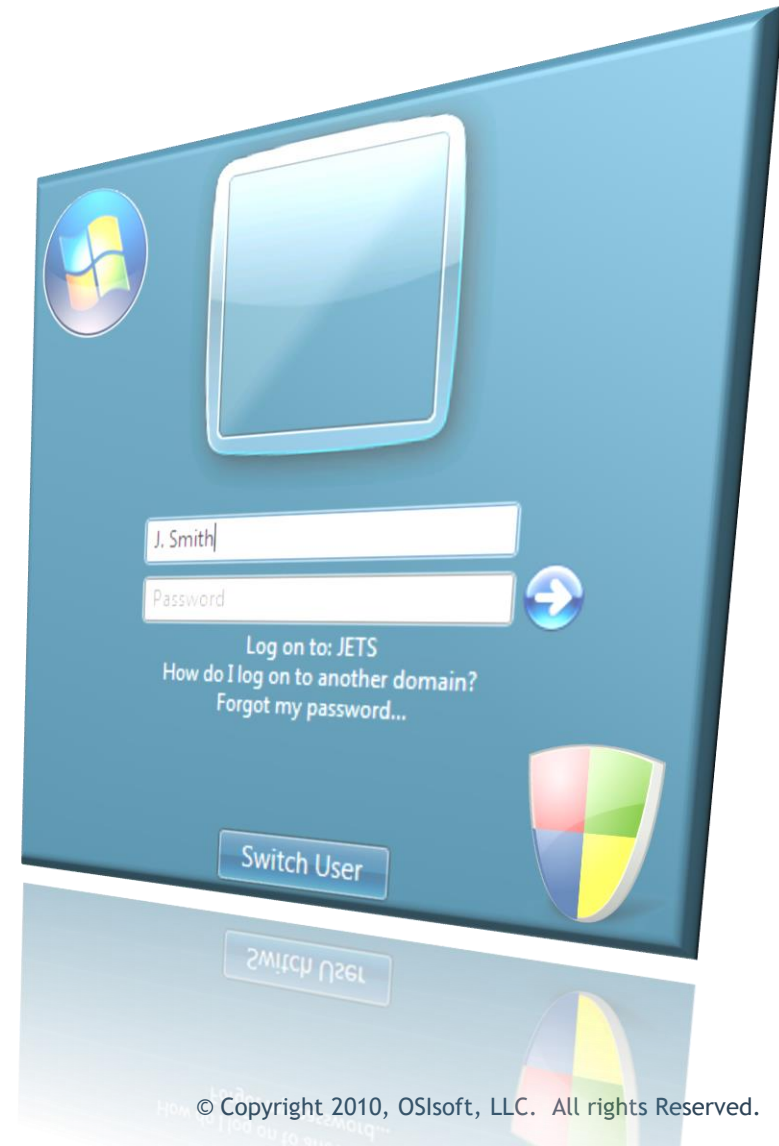


# PI Server 3.4.380 WIS



## Technical Overview

- True Single Sign-On (SSO)
- Easier to Manage
  - User Accounts in Windows/AD Only
  - Leverage AD Tools and Security Policies
- Upgrade Experience
  - Backward Compatibility
  - Simply Requires PI SDK 1.3.6



- More Secure
  - SSPI\*-based Kerberos or NTLM\*\*
  - Server-Side Authentication Control
  - No More Default User
- More Flexible
  - Unlimited Access Control Lists (ACLs)

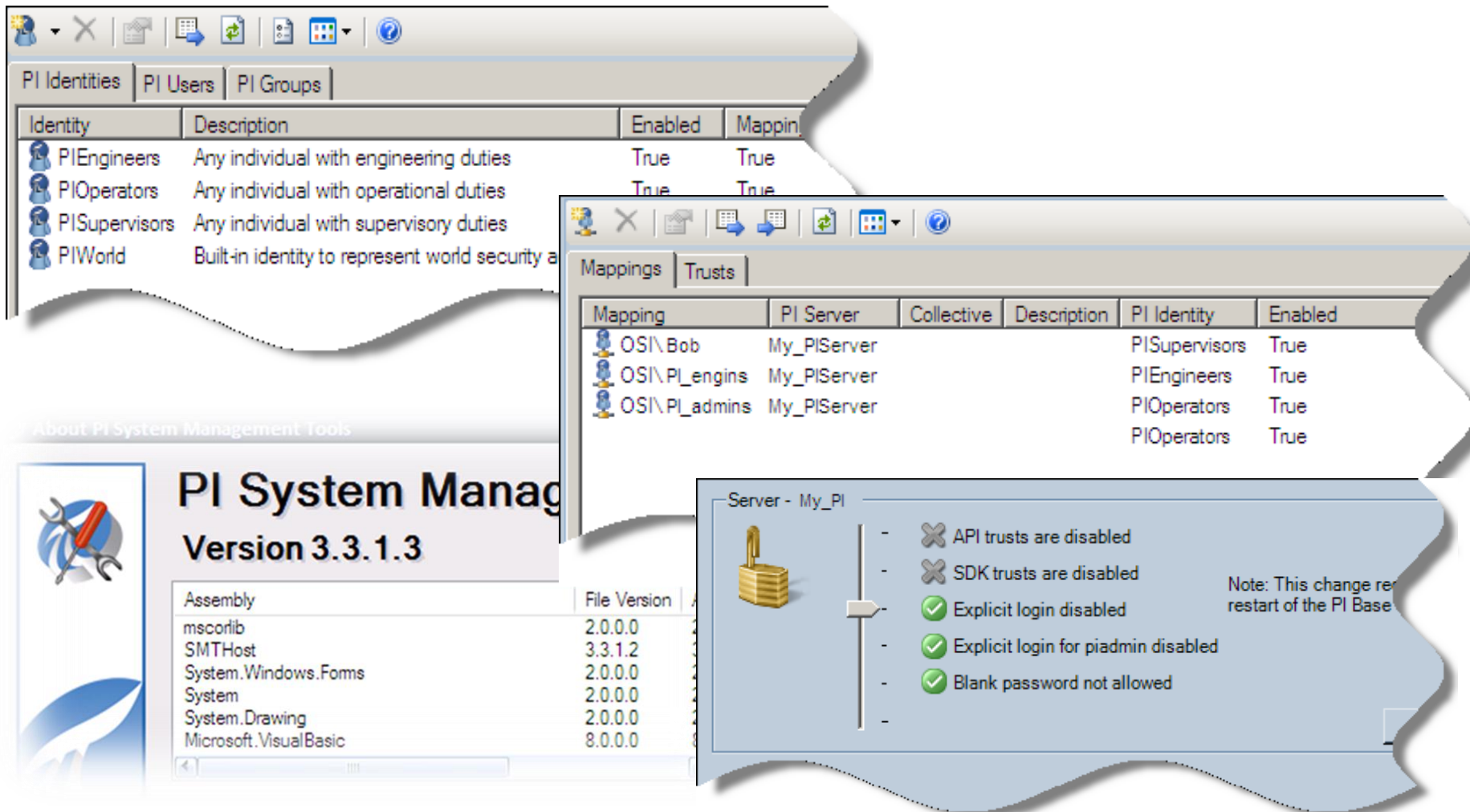


Point	Point Security	Data Security
SINUSOID	Asia-Pacific: A(r)   Antarctica: A(r,w)   Americas: A(r)   Europe: A(r)	Green: A(r)

\*Security Support Provider Interface

\*\* NT LAN Manager

## Improved System Management Tools (PI SMT 3.3)



The screenshot displays the PI System Management Tools (PI SMT 3.3) interface. It includes a main window with tabs for 'PI Identities', 'PI Users', and 'PI Groups'. Below these tabs is a table listing identities and their descriptions. A secondary window shows 'Mappings' and 'Trusts' for a specific server, listing local users mapped to PI identities. A third window shows the 'Server - My\_PI' configuration, including a list of assemblies and their file versions, and a list of security settings.

Identity	Description	Enabled	Mappin
PIEngineers	Any individual with engineering duties	True	True
PIOperators	Any individual with operational duties	True	True
PISupervisors	Any individual with supervisory duties		
PIWorld	Built-in identity to represent world security a		

Mapping	PI Server	Collective	Description	PI Identity	Enabled
OSI\Bob	My_PIServer			PISupervisors	True
OSI\PI_engins	My_PIServer			PIEngineers	True
OSI\PI_admins	My_PIServer			PIOperators	True
				PIOperators	True

Assembly	File Version
mscorlib	2.0.0.0
SMTHost	3.3.1.2
System.Windows.Forms	2.0.0.0
System	2.0.0.0
System.Drawing	2.0.0.0
Microsoft.VisualBasic	8.0.0.0

**Server - My\_PI**

- API trusts are disabled
- SDK trusts are disabled
- Explicit login disabled
- Explicit login for piadmin disabled
- Blank password not allowed

Note: This change requires a restart of the PI Base.

# New with the PI Server 3.4.380 Release



The screenshot displays the 'sinusoid - Point Builder - PI System Management Tools' application. The main window shows a tree view on the left with 'Security' expanded to 'Identities, Users, & Groups'. The main pane is divided into 'Point Security' and 'Data Security' sections. The 'Point Security' section shows users 'piadmin', 'PIWorld', 'piadmins', and 'PIEngineers'. The 'Data Security' section shows 'piadmin', 'piadmins', and 'PIOperators'. Below these are permission tables for 'piadmin' and 'piadmins'. A 'Select' dialog box is open, showing a list of users from server LG380. The 'PIOperators' user is selected in the list.

Server	Point	Point Security	Data Security
LG380	sinusoid	piadmin: A(r,w)   piadmins: A(r,w)   PIOperators: A(r)   PIEngineers: A(r)   PIWorld: A(r)	piadmin: A(r,w)   piadmins: A(r,w)   PIOperators: A(r)   PIEngineers: A(r)   PIWorld: A(r)

Point Security	
piadmin	PIWorld
piadmins	
PIEngineers	

Data Security	
piadmin	
piadmins	
PIOperators	

Permissions for piadmin	
Read	<input checked="" type="checkbox"/>
Write	<input checked="" type="checkbox"/>

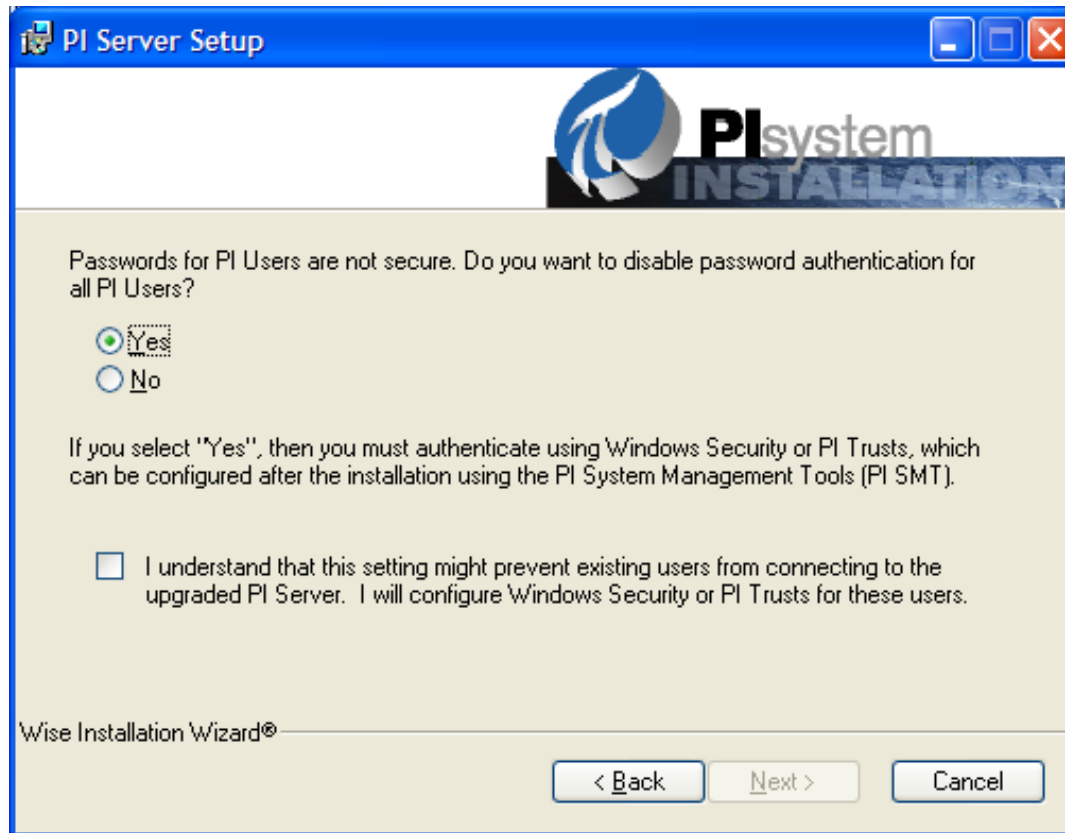
Permissions for piadmins	
Read	<input type="checkbox"/>
Write	<input type="checkbox"/>

Name	Description
piadmin	The administrative PI User with unrestricted access
piadmins	The administrative PI Group formerly named "piadmin"
pidemo	The generic PI User
PIEngineers	Any individual with engineering duties
PIOperators	Any individual with operational duties
PISupervisors	Any individual with supervisory duties
piusers	The generic PI Group formerly named "piuser"

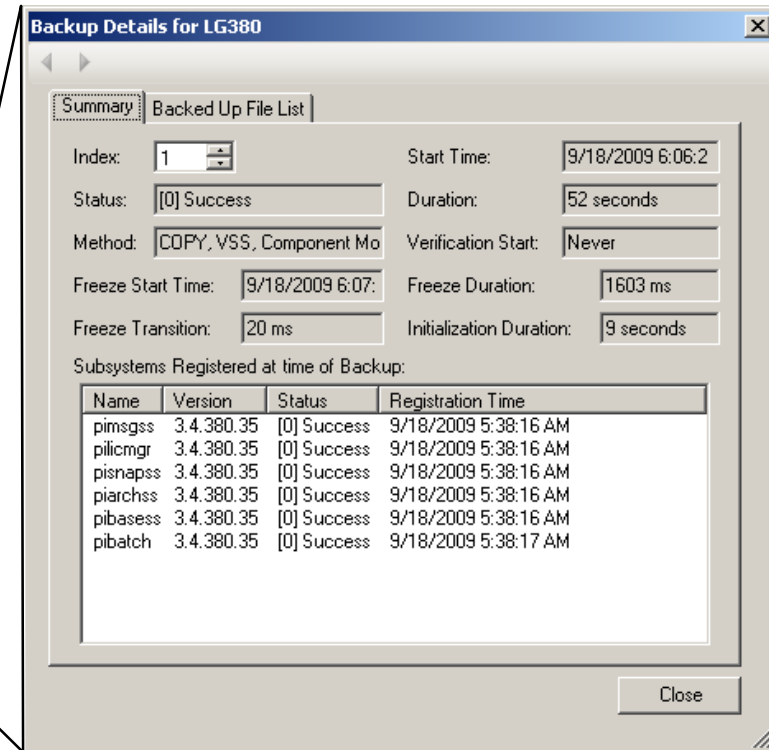
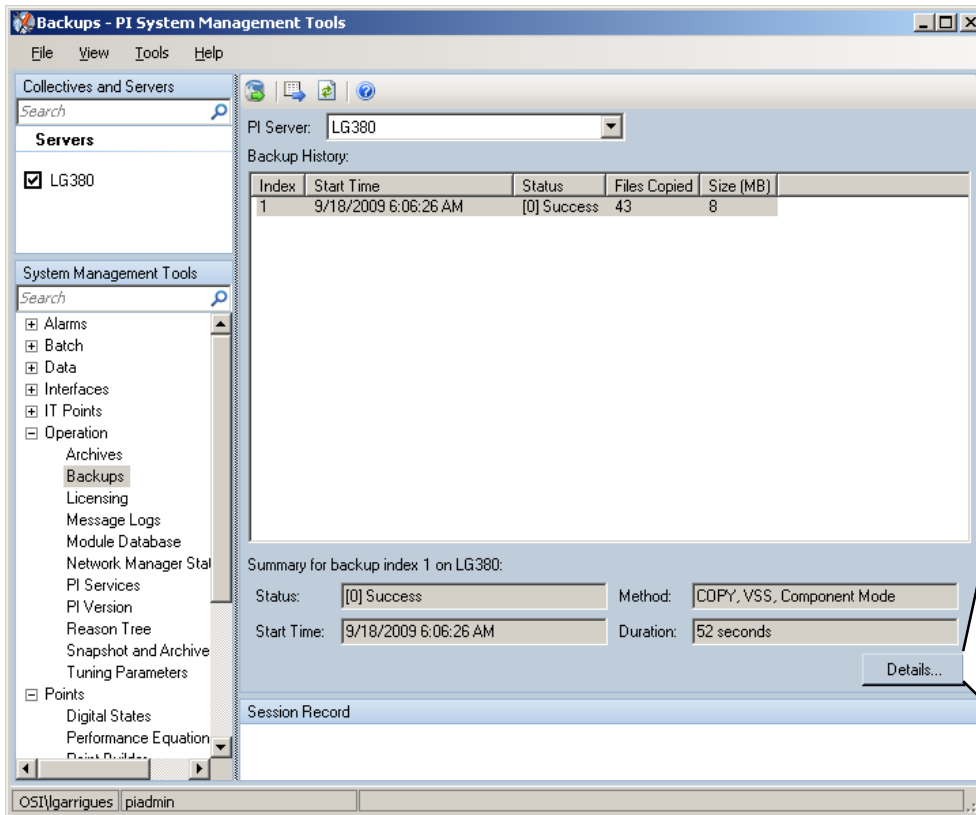
## Setup

- Secure configuration by default, with database consistency checks during upgrade



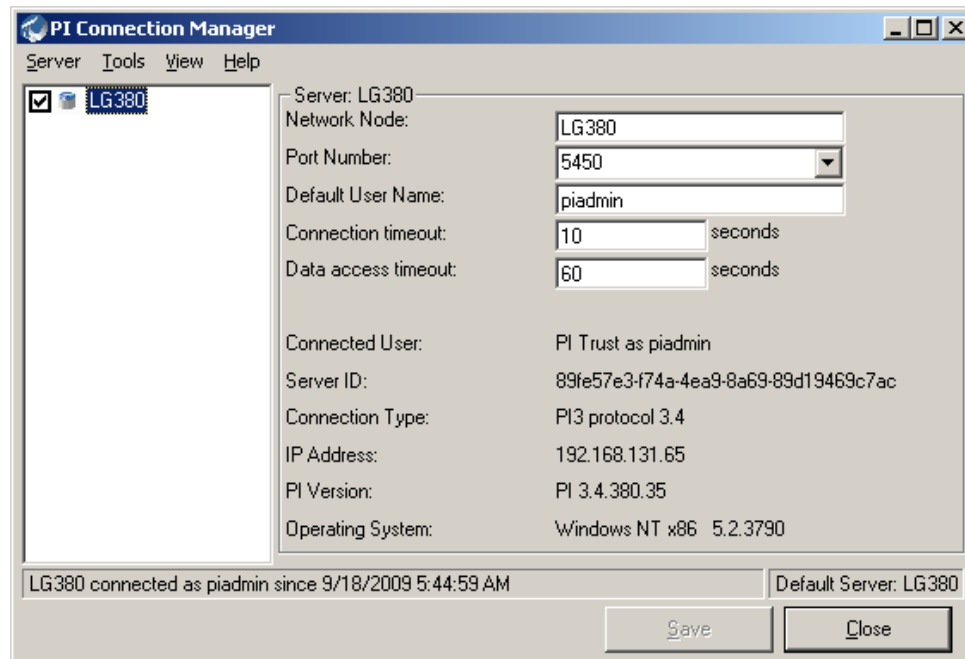
## PI Backups

- Added support for incremental backups, verified backups, and a full backup history





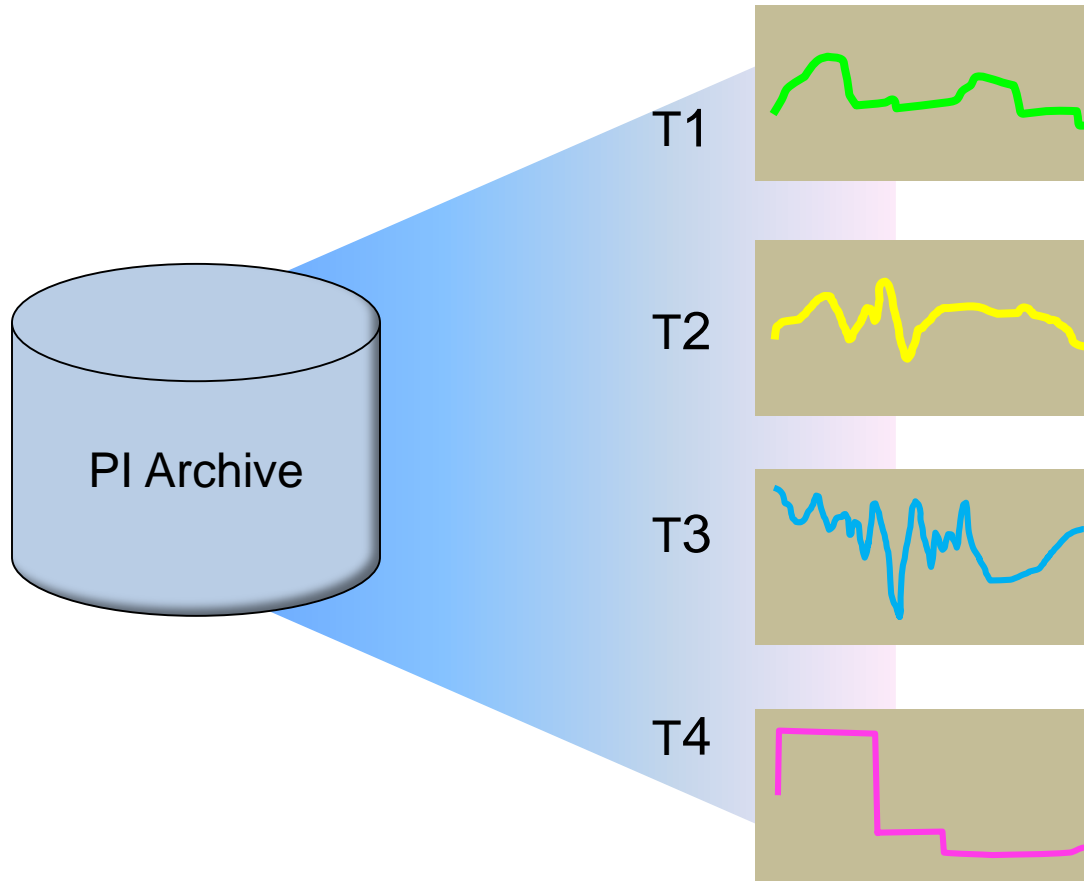
- Clients apps only need to upgrade the PI SDK 1.3.6 (released in Q3 2008) to take advantage of the new Security Model
- Most clients, like PI ProcessBook 3.x and PI Datalink 4.x are already shipping with the PI SDK 1.3.6



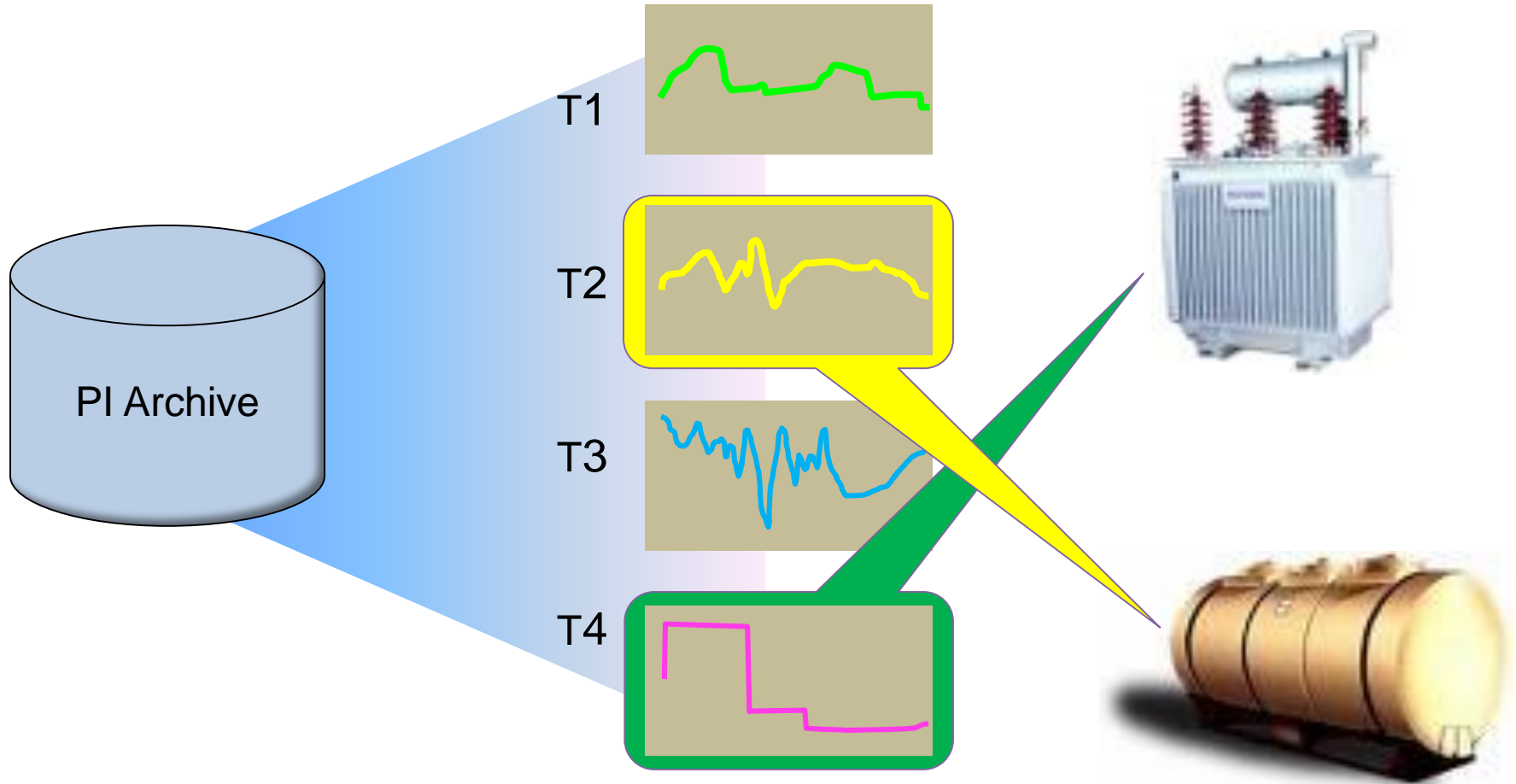
# The PI AF Server



# PI is about time series ... and tags!



# But Tags mostly relate to assets



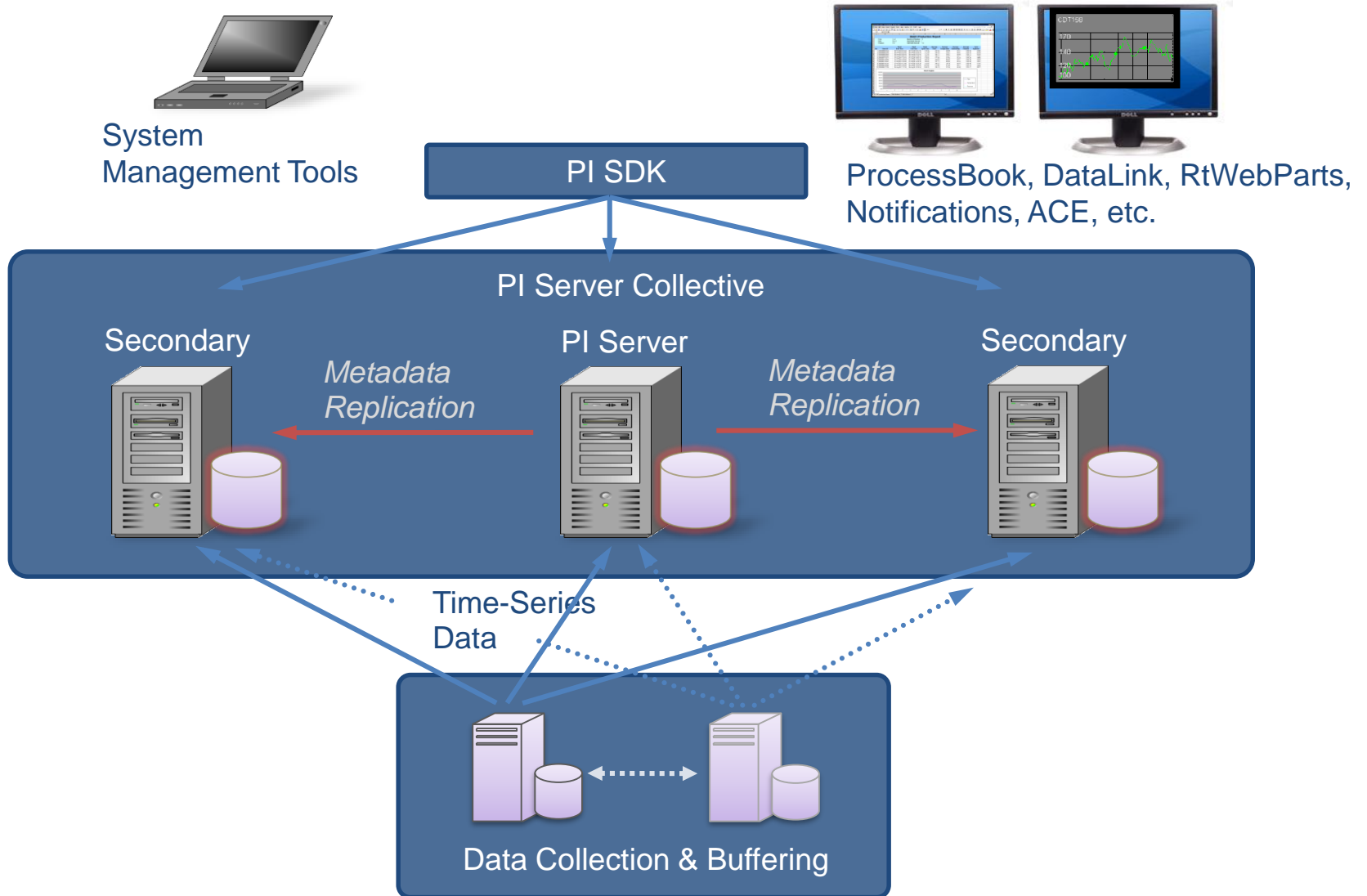
## PI AF 2.1



## Technical Overview

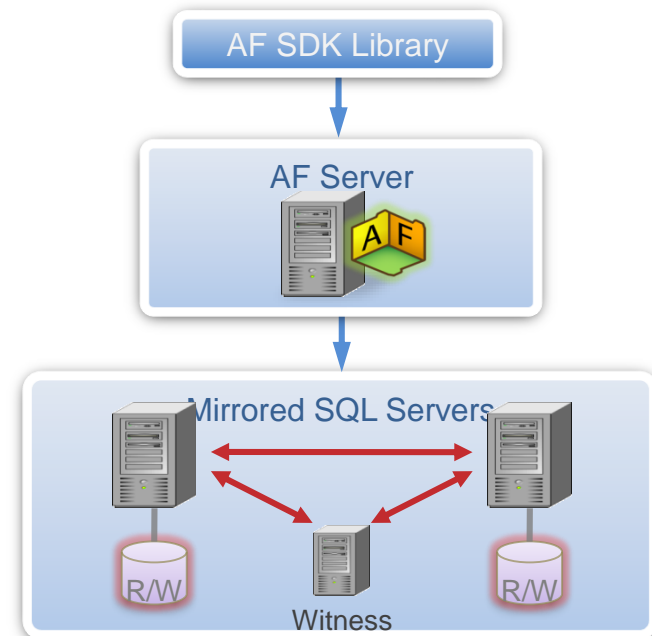
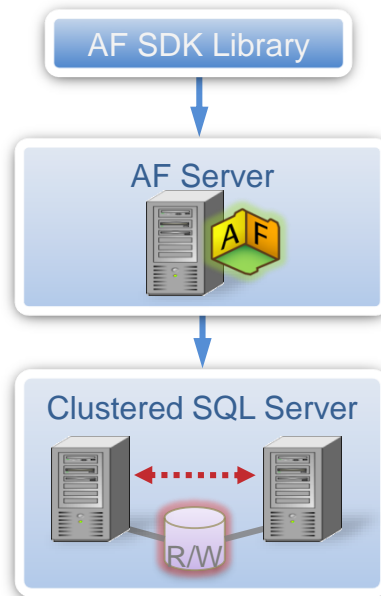
- Network Failure
- Administrative/User Failure
- Upgrades and Migrations
  - Hardware
  - Operating System Software (Patches)
  - Applications Software

# PI High Availability Architecture



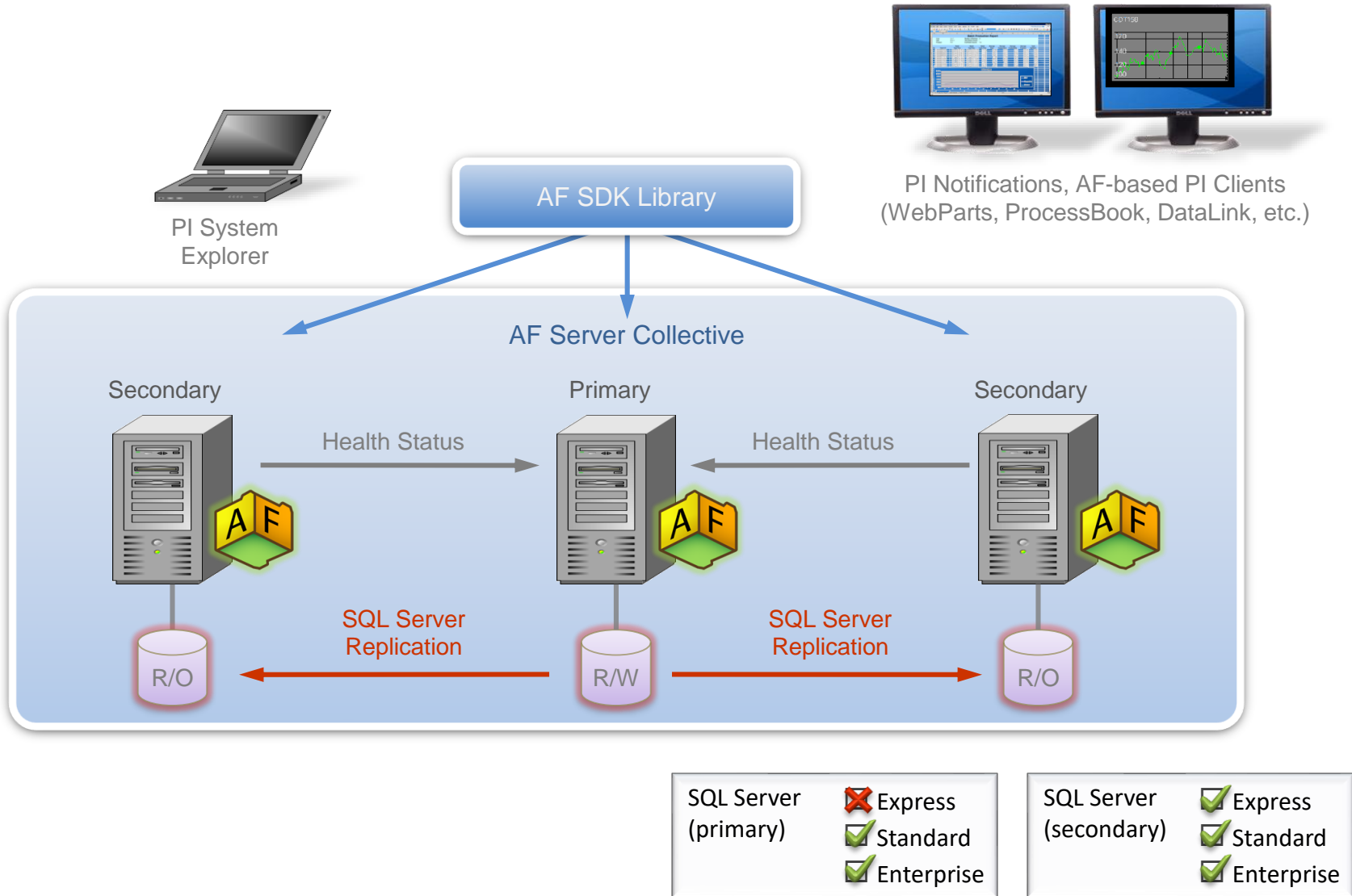
# High Availability for AF 2.1

- Support for Clustering, Mirroring, and Replication (HA)
- Conceptually very similar to HA for the PI Server
  - Automatic Failover for clients
  - SQL replication for the AF database





# AF 2.1 HA Collective



SQL Server (primary)	<input checked="" type="checkbox"/> Express
	<input checked="" type="checkbox"/> Standard
	<input checked="" type="checkbox"/> Enterprise

SQL Server (secondary)	<input checked="" type="checkbox"/> Express
	<input checked="" type="checkbox"/> Standard
	<input checked="" type="checkbox"/> Enterprise

- 2.0 Server was 64-bit capable
- Can use either 32 or 64 bit SQL Server
  - 2005 or 2008
- Same install kit for 32 vs. 64 bit versions of AF Client or AF Server
- PI System Explorer can run as a 32 bit application on 64 bits



## PI Enterprise Server 2010 - PI MDB to PI AF



## Moves you forward

- AF is the future for PI applications
- AF is richer, more scalable and more flexible

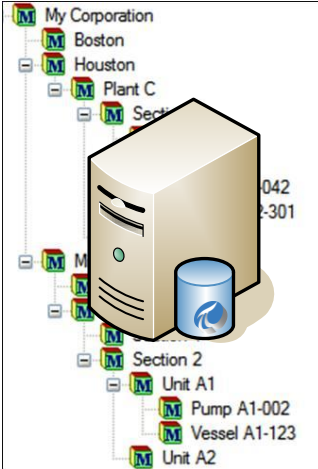
## Protects your investment

- No customer left behind policy
  - MDB based solutions keep working
- Automatic Migration and Synchronization
- Gradual upgrade process from MDB to AF
  - The back-end first, and then the applications

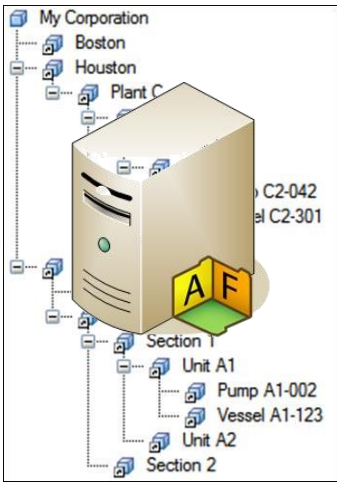
# Asset Centric PI: AF Element DB Synchron

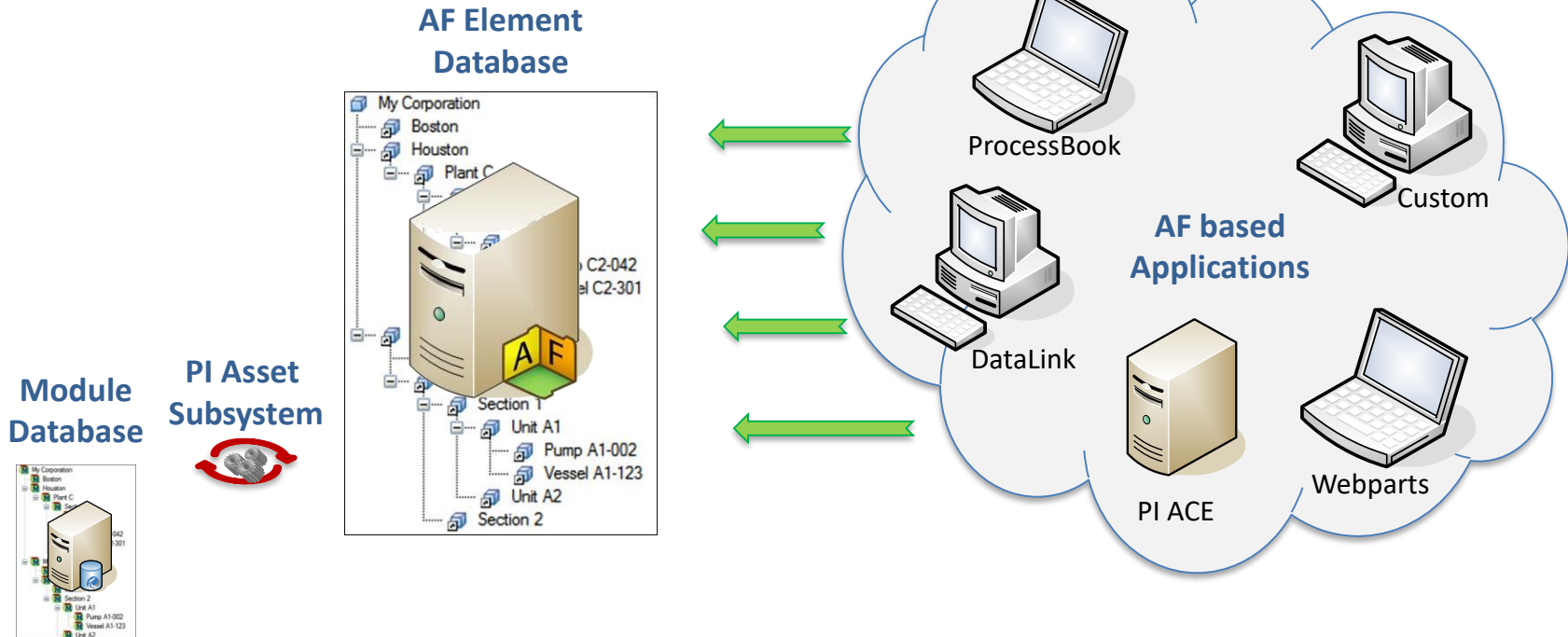


**Module Database**



**AF Element Database**



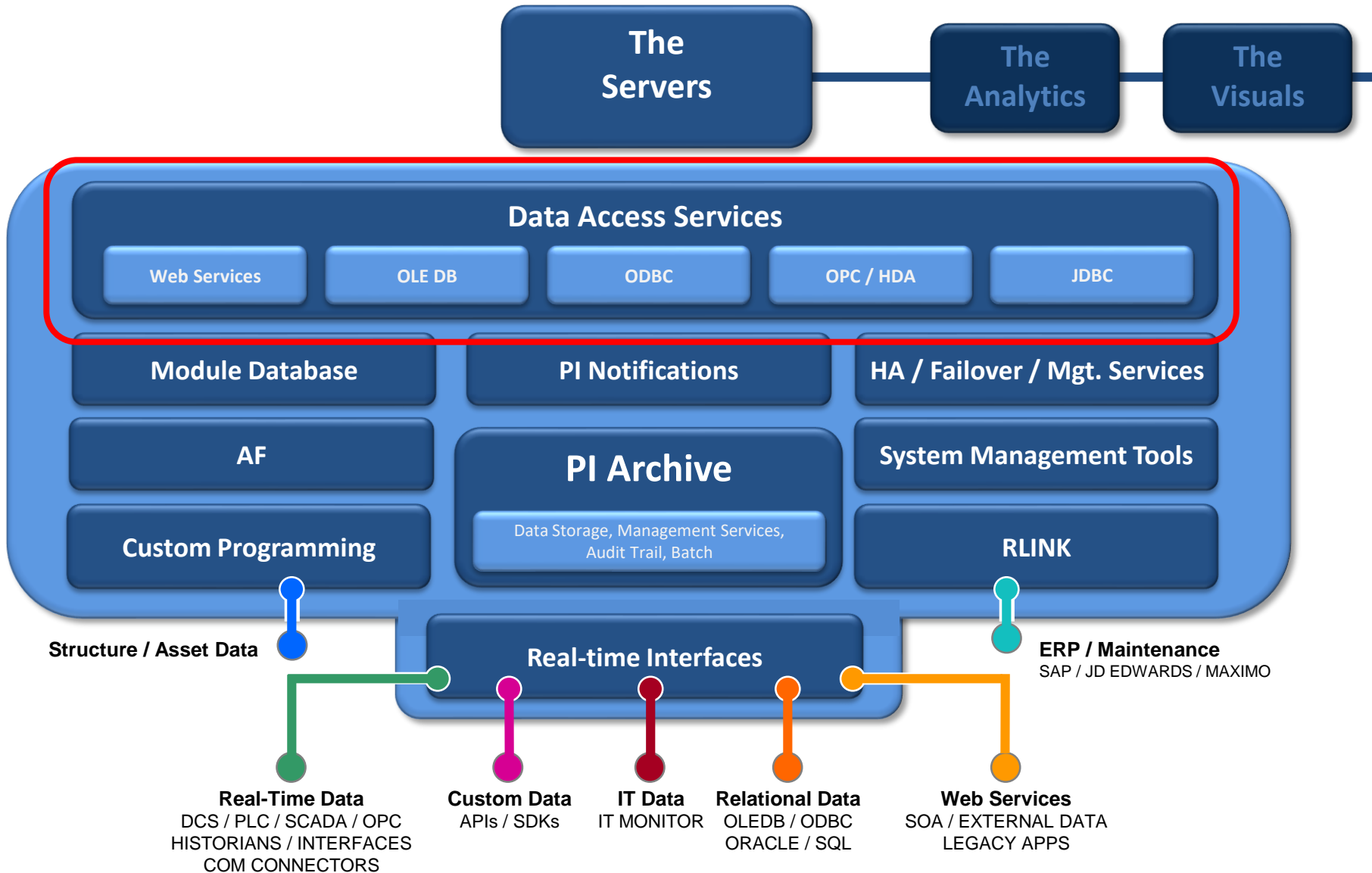


- PI Enterprise Server 2010 delivers the MDB to AF subsystem
  - Migration
  - Synchronization
- Requirements:
  - AF Server 2.1 must be installed
  - Must upgrade PI Server to 3.4.380 first
- Most applications can use AF natively
- Some will continue to use MDB for now
- Release in 2Q 2010

# Data Access







- Support:
  - Standards
  - Multiple programming languages
  - Multiple hardware and operating system platforms
  - Updates and asynchronous calls for better performance and scalability
- Ensure no data loss through buffering, caching and redundancy
- Provide access to all PI system data (including metadata)

- Collection of all products that offer programmatic data access to all or part of the PI System
  - SQL tools
    - PI OLEDB Provider
    - PI JDBC Driver
    - PI ODBC Client
  - Web Services
    - PI Web Services (*CTP available on OSIsoft vCampus*)
  - OPC
    - OPC DA/HDA Server
    - OPC UA Server (*CTP available on OSIsoft vCampus*)
  - SDKs (for partners/developers)
    - PI SDK
    - AF SDK

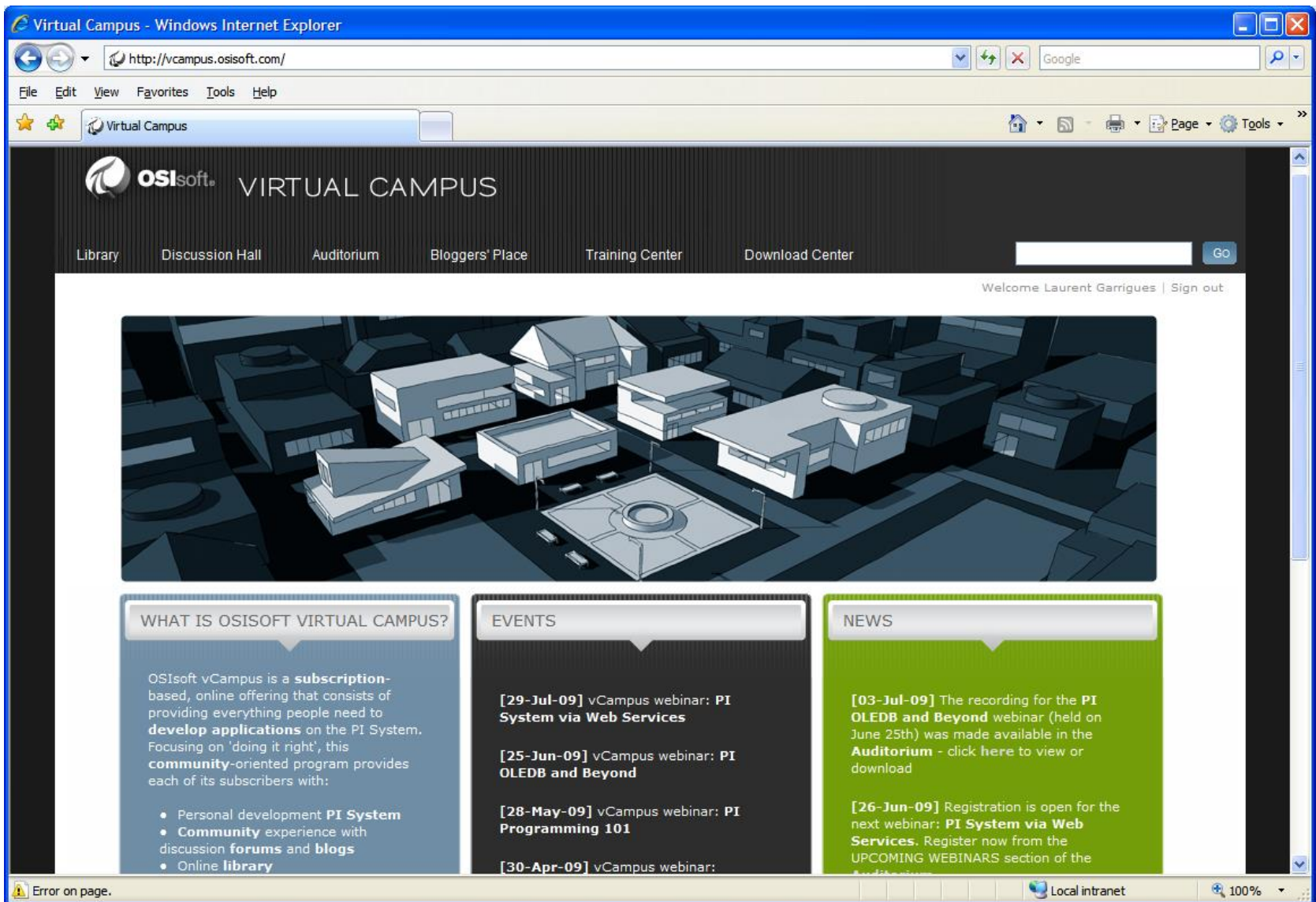
- PI Web Services 2010 (2Q 2010)
  - OSIsoft vCampus CTP available now
- PI OLEDB 3.3 (*Released*)
  - Support both 32-bit and 64-bit providers
- PI OLEDB 2010 (2Q 2010)
  - Support for entire PI system, both Tags and AF
- PI JDBC 1.0 (*Released*)
  - JDBC-OLEDB Bridge for Windows and Linux, OSIsoft vCampus

- OPC DA/HDA Server 1.2.6 *(Released)*
  - Achieved Self-Certification Logo from OPC Foundation
- PI OPC UA Server Technical Preview *(Released)*
  - OSIsoft vCampus online, hosted environment
- PI SDK 1.3.8 *(Released)*
  - Support for both 32-bit and 64-bit providers
- AF SDK 2.1 *(Released)*
  - Support for both 32-bit and 64-bit providers
- PI SDK 1.4.0 (1Q 2010)
  - Client-side buffering for manually entered data, ACE calculations writing to PI, and custom SDK-based interfaces

# OSIsoft vCampus



- Includes access to all programmatic interfaces to PI System: AF/AN SDK, PI OLEDB/ODBC, PI SDK, OPC DA/HDA/UA Server
- Development license for programmatic interfaces
- Runtime licensing is separate - PAL
- Programming examples and documentation
- PI Virtual Campus - community collaboration site
  - Forums
  - Blogs



The screenshot shows the OSIsoft vCampus website in a Windows Internet Explorer browser window. The browser's address bar displays the URL <http://vcampus.osisoft.com/>. The website header features the OSIsoft logo and the text "VIRTUAL CAMPUS". Below the header is a navigation menu with links for "Library", "Discussion Hall", "Auditorium", "Bloggers' Place", "Training Center", and "Download Center". A search bar with a "Go" button is located to the right of the navigation menu. The main content area is divided into three columns:

- WHAT IS OSISOFT VIRTUAL CAMPUS?**

OSIsoft vCampus is a **subscription**-based, online offering that consists of providing everything people need to **develop applications** on the PI System. Focusing on 'doing it right', this **community**-oriented program provides each of its subscribers with:

  - Personal development **PI System**
  - **Community** experience with discussion **forums** and **blogs**
  - Online **library**
- EVENTS**
  - [29-Jul-09] vCampus webinar: **PI System via Web Services**
  - [25-Jun-09] vCampus webinar: **PI OLEDB and Beyond**
  - [28-May-09] vCampus webinar: **PI Programming 101**
  - [30-Apr-09] vCampus webinar:
- NEWS**
  - [03-Jul-09] The recording for the **PI OLEDB and Beyond** webinar (held on June 25th) was made available in the **Auditorium** - [click here to view or download](#)
  - [26-Jun-09] Registration is open for the next webinar: **PI System via Web Services**. Register now from the **UPCOMING WEBINARS** section of the **Auditorium**.

The browser's status bar at the bottom shows an "Error on page." message on the left, "Local intranet" in the center, and "100%" zoom level on the right.



# OSIsoft Product Roadmap

- Major Release
- Minor Release

Oct09 Nov09 Dec09 Jan10 Feb10 Mar10 Q2 2010 2H 2010

## Server

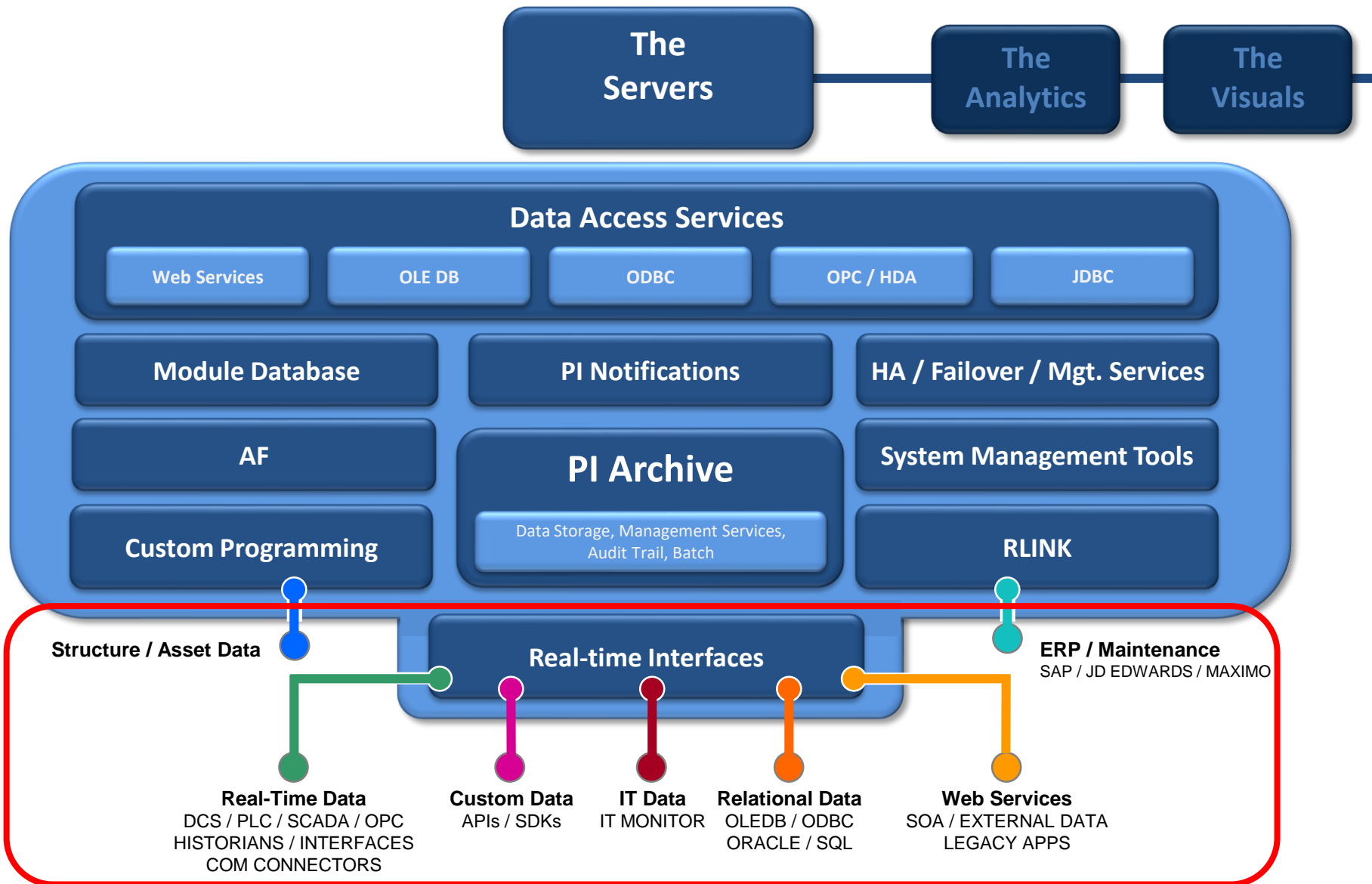


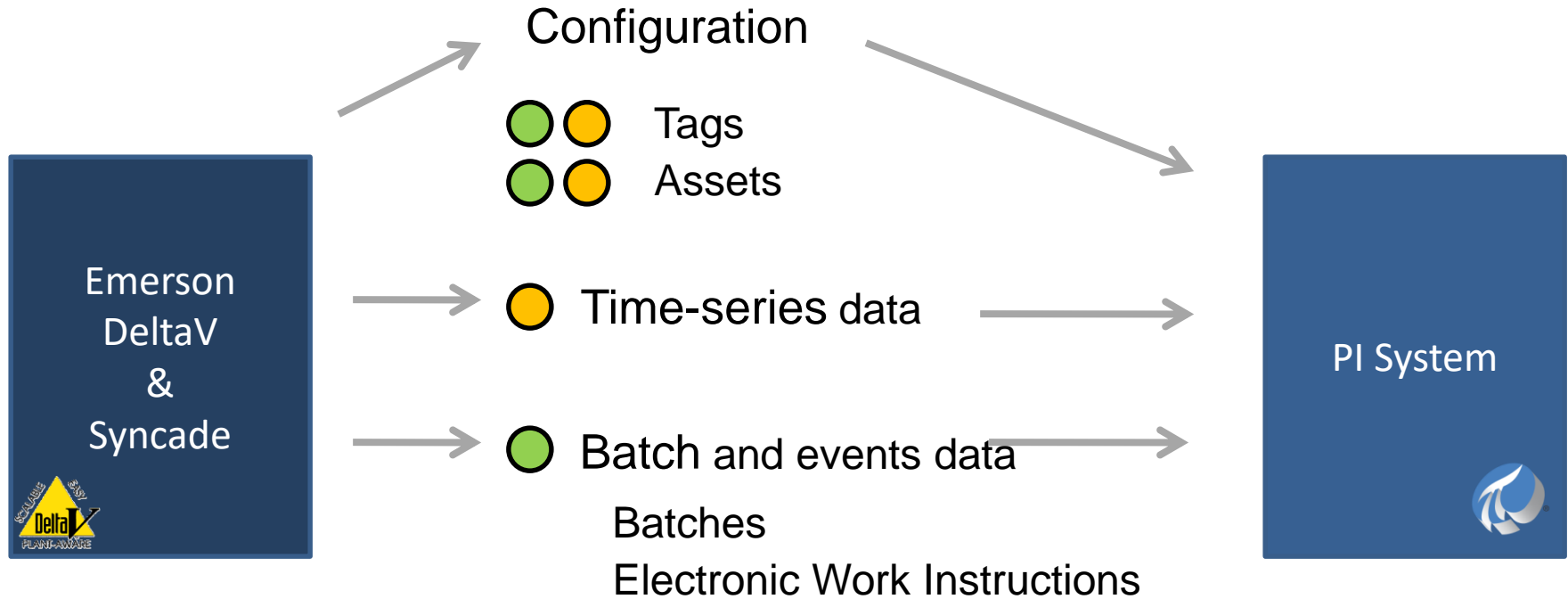
## Data Access



# PI Interfaces







# OSisoft Product Roadmap – Interfaces

- Major Release
- Minor Release

Oct09 Nov09 Dec09 Jan10 Feb10 Mar10 Q2 2010 2H 2010

## General Interfaces

AutoPointSync (1.2.6)

TBD

PI UFL (3.2.0)



RDBMS (3.17.0)



ICU (1.5.0)



## OPC Interfaces

PI OPC UA Interface (1.0)

TBD

PI OPC Interface / DA (2.4.0)

TBD

## Batch Interfaces

Emerson DeltaV (1.0)



Rockwell FT Batch (1.0)



ABB 800xA (1.0)



Siemens Simatic PCS7 (1.0)



Wonderware InBatch (1.0)



GE iBatch (1.0)



Honeywell TotalPlant Batch (1.0)



## Meter (HES) Interfaces

Elster (1.0.x)



Tiilliant Unity (1.0.x)





Grid Net PolicyNet (1.0.x)



Silver Springs Network UtilityIQ (1.0.x)

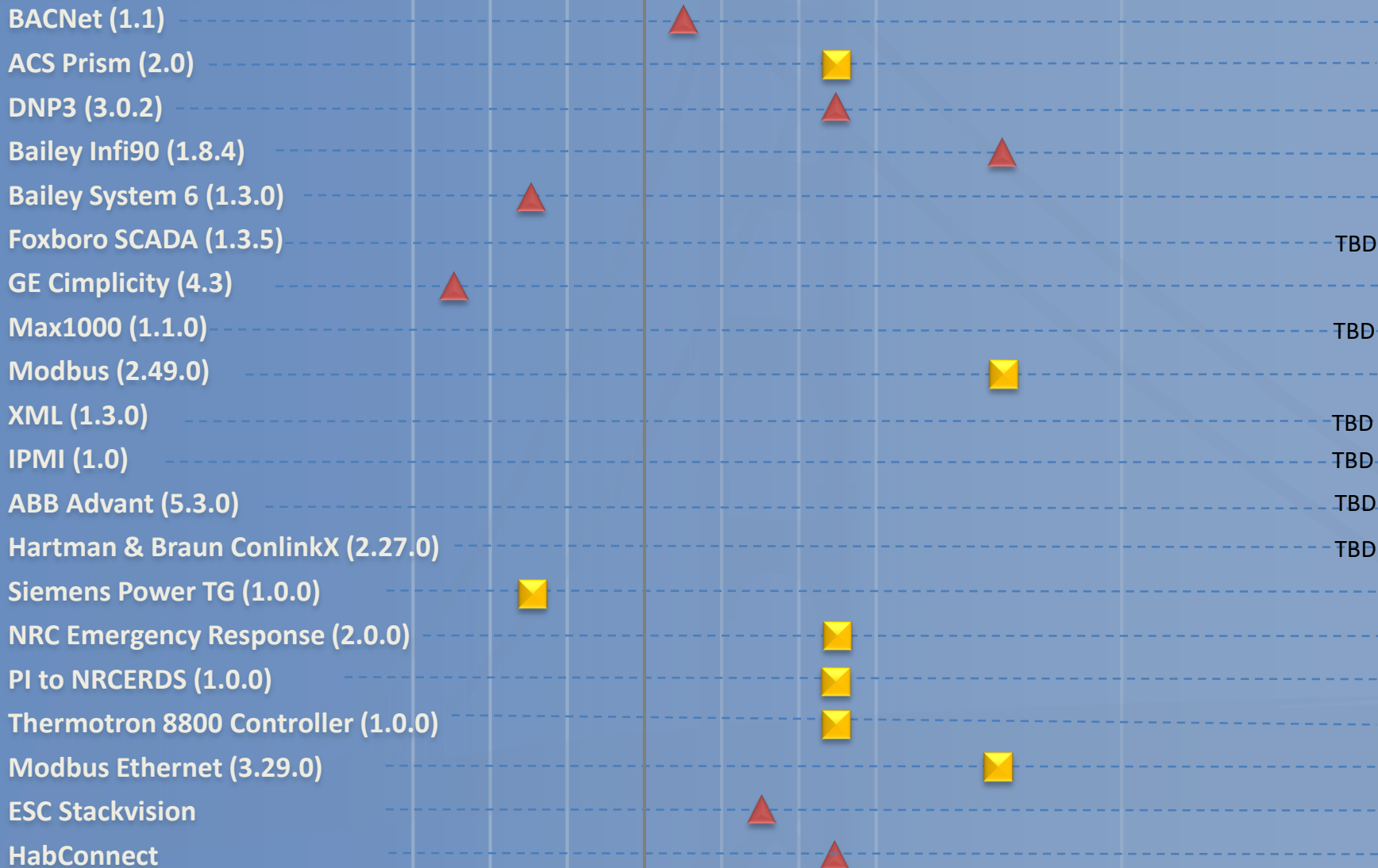


# OSisoft Product Roadmap – Vendor Specific Interfaces

-  Major Release
-  Minor Release

Oct09 Nov09 Dec09 Jan10 Feb10 Mar10 Q2 2010 2H 2010

## Vendor Specific Interfaces



# PI Analytics



The  
Server

The  
Analytics

The  
Visuals

**Advanced Computing Engine (ACE)**

**PI Notifications**

**RtReports**

**AF Analytics**

**PI Analytics**

(PI Performance Equations, PI Totalizers, PI Alarms, PI RTSQC)

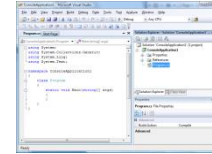


		Configuration	Programming
Specific Content	PI Tags	PI PE, PI Totalizers, PI Alarms, PI RT SQL	PI ACE, PI SDK (Custom applications)
Generic Content	PI Module DB	None	PI ACE, PI SDK (Custom applications)
	PI AF	AF Analysis Rules <ul style="list-style-type: none"> <li>• PE syntax</li> <li>• AF formula DR syntax</li> <li>• Additional ARs (roll- up etc.)</li> </ul> Clock & Event based scheduling Export results to PI tags	Custom AF Data References Custom AF Analysis Rules Custom applications (AF SDK)
		<b>Goal</b>	

# StreamInsight Platform

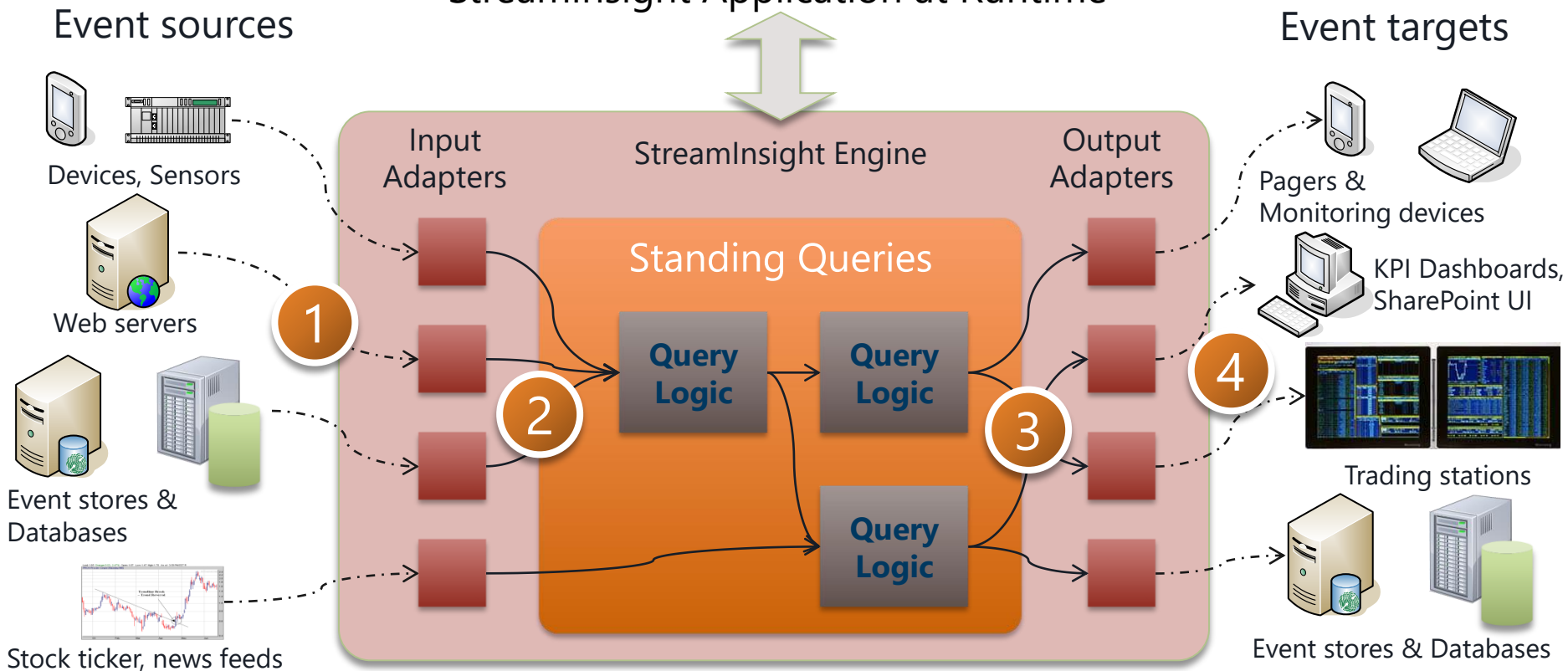


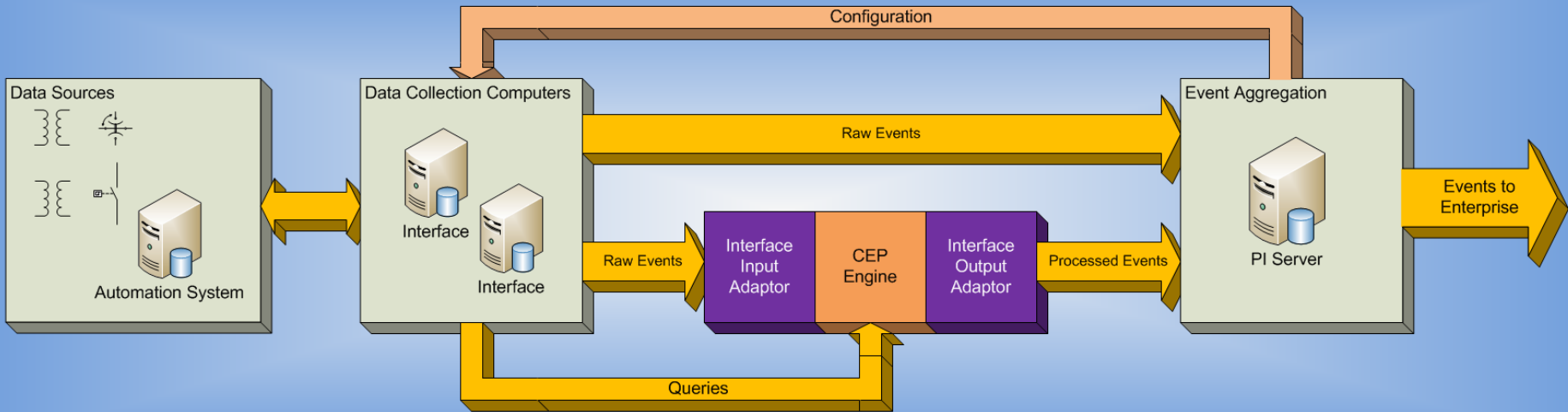
## StreamInsight Application Development



.NET  
C#  
LINQ

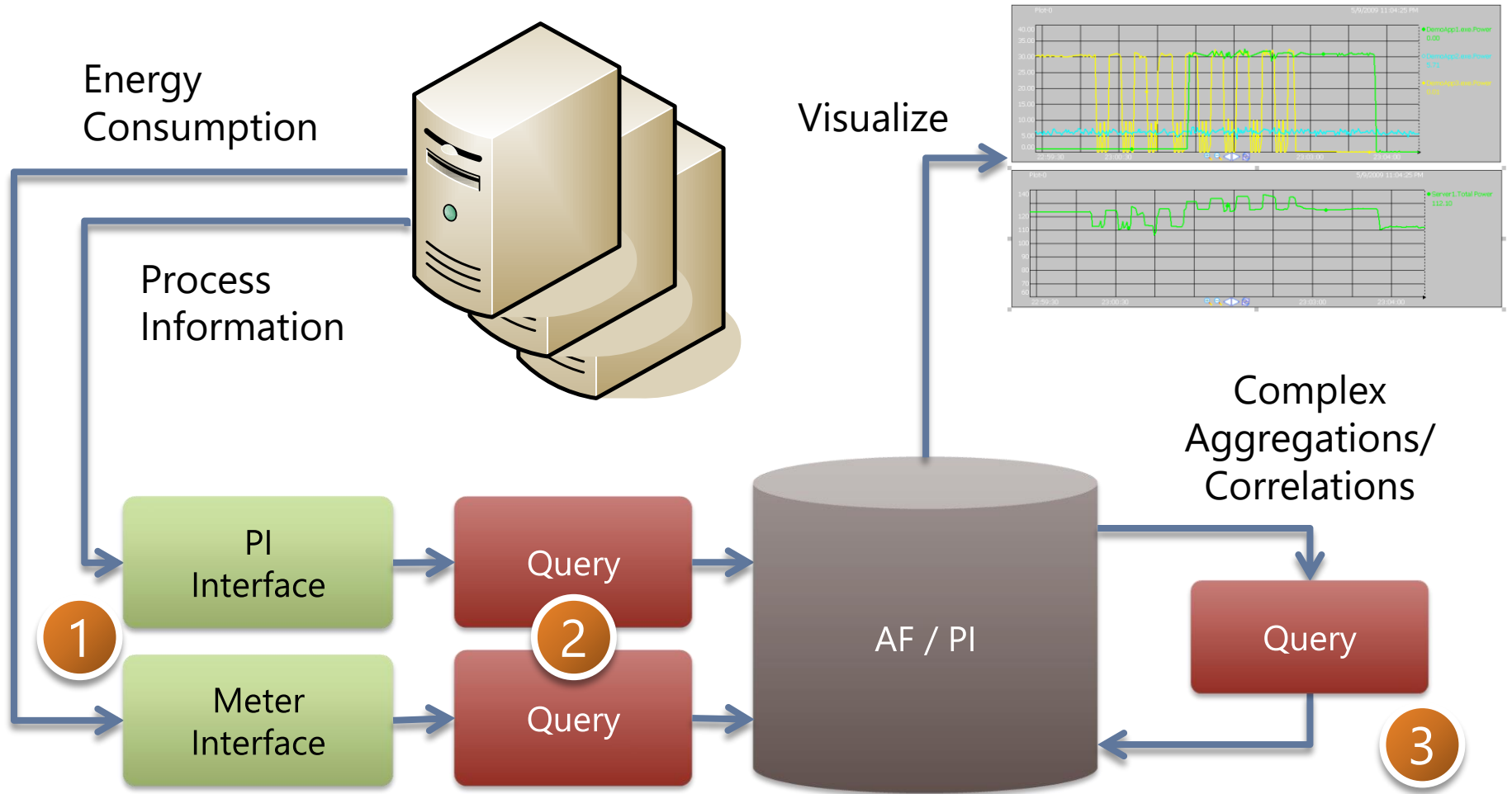
## StreamInsight Application at Runtime





- Scalability—distributed processing
- Important scenarios:
  - Data Validation
  - Filtering
  - Aggregation and summaries

# Energy Consumption Monitoring

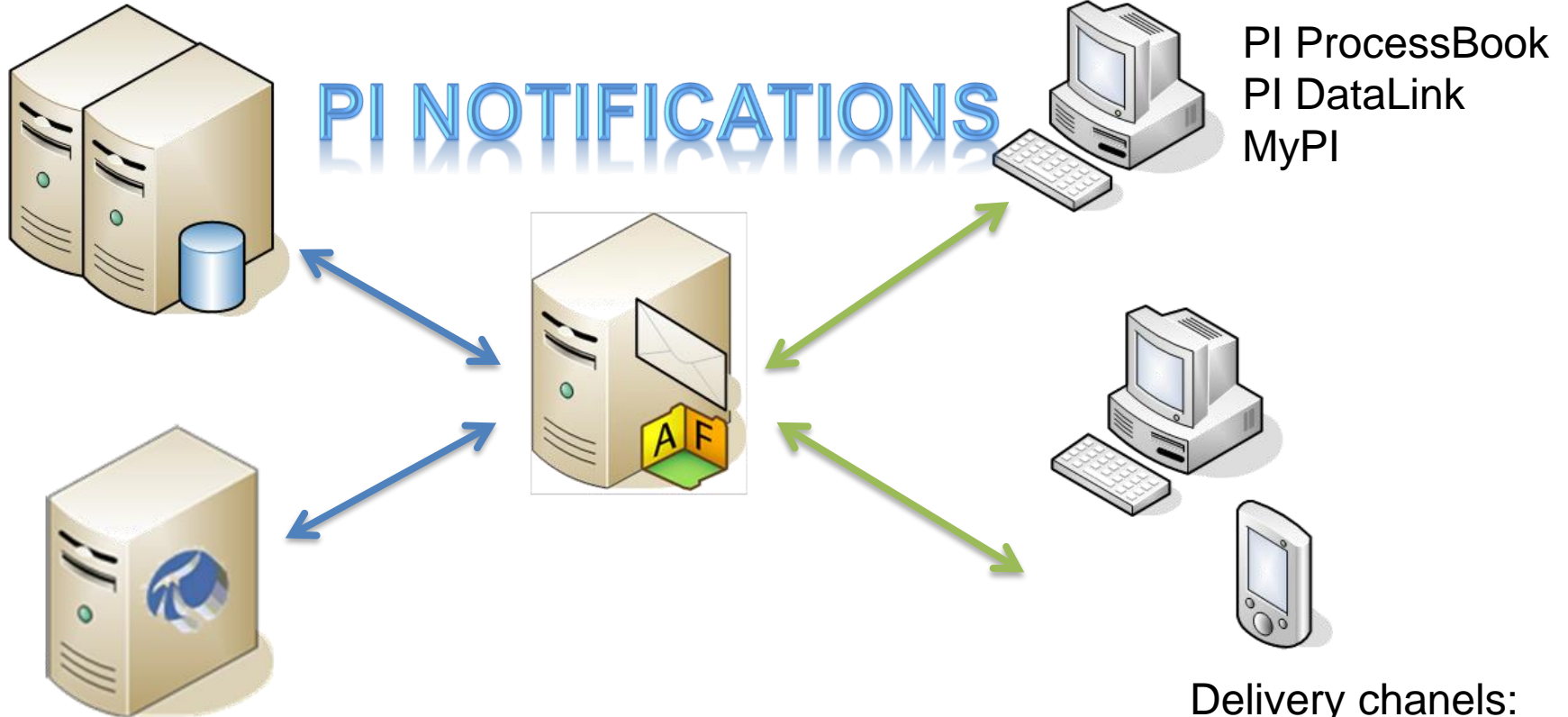


# PI Notifications 1.1



## Technical Overview and Value proposition

Others data sources



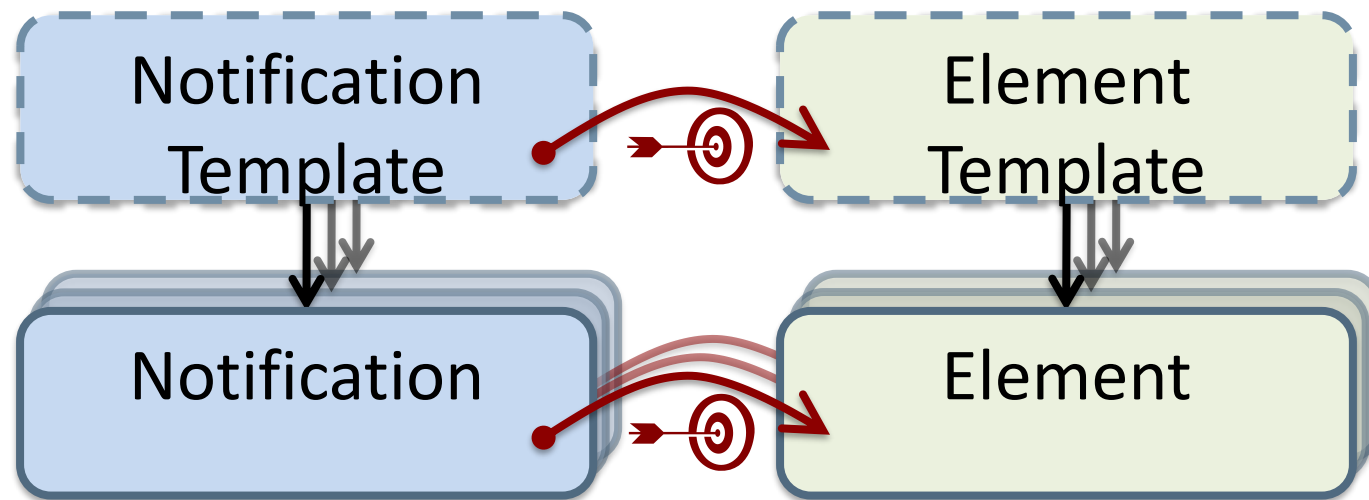
PI Server

PI ProcessBook  
PI DataLink  
MyPI

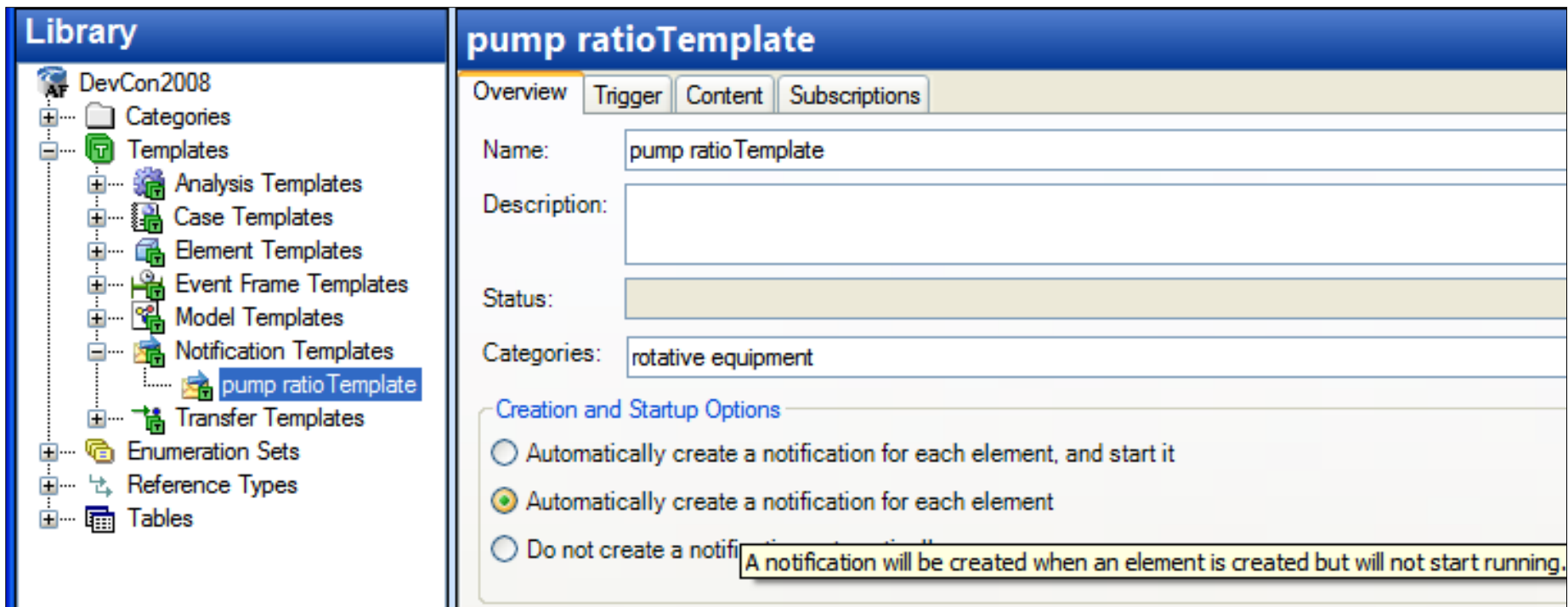
Delivery channels:

- Email
- Web services
- OCS v1.0
- Custom developed

- Performance Improvements (start-up and retrieval)
- Notification Templates enable rapid and automatic creation of maintainable notifications



- Notification templates
  - Automate the creation and maintenance process

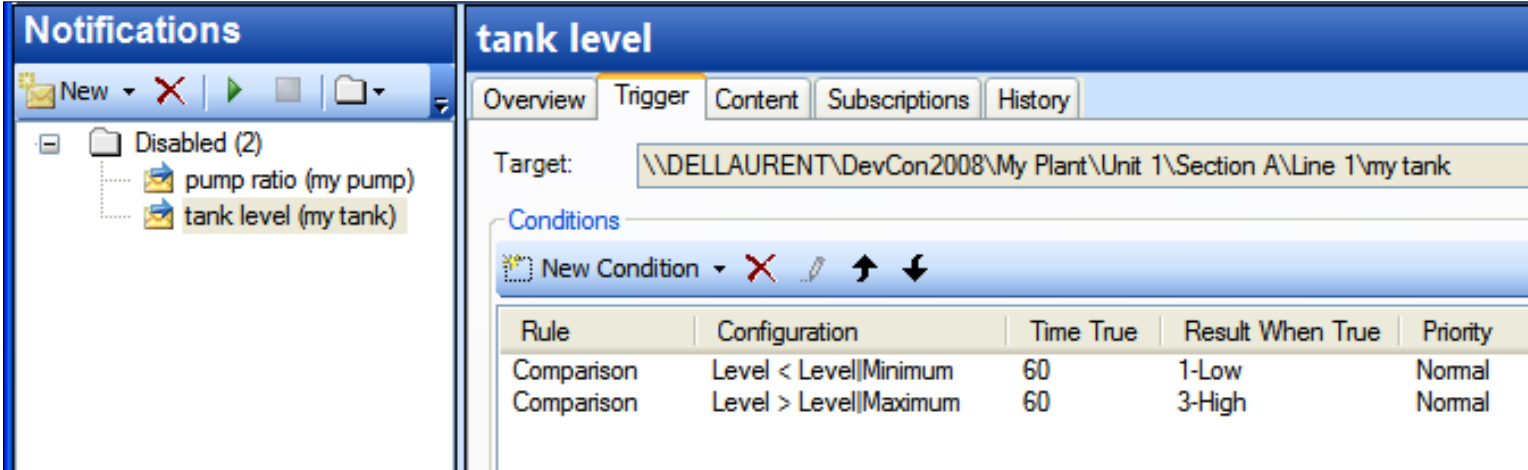


The screenshot displays the software interface for managing notification templates. On the left, a 'Library' pane shows a tree view of templates under 'DevCon2008', including Analysis, Case, Element, Event Frame, Model, Notification, and Transfer templates. The 'pump ratioTemplate' is selected. The main pane shows the configuration for this template, with tabs for Overview, Trigger, Content, and Subscriptions. The 'Overview' tab is active, showing fields for Name (pump ratioTemplate), Description, Status, and Categories (rotative equipment). Under 'Creation and Startup Options', three radio buttons are present: 'Automatically create a notification for each element, and start it' (unselected), 'Automatically create a notification for each element' (selected), and 'Do not create a notification' (unselected). A tooltip box is visible over the selected option, stating: 'A notification will be created when an element is created but will not start running.'



## Performance improvements

- Can support up to 10k Notifications with multiples rules per Notifications server



The screenshot displays the PI Notifications configuration interface. On the left, a tree view shows a 'Disabled (2)' folder containing 'pump ratio (my pump)' and 'tank level (my tank)'. The main window is titled 'tank level' and has tabs for 'Overview', 'Trigger', 'Content', 'Subscriptions', and 'History'. The 'Target' field is set to '\\DELLAURENT\DevCon2008\My Plant\Unit 1\Section A\Line 1\my tank'. Below the target, there is a 'Conditions' section with a 'New Condition' button and a table of rules.

Rule	Configuration	Time True	Result When True	Priority
Comparison	Level < Level Minimum	60	1-Low	Normal
Comparison	Level > Level Maximum	60	3-High	Normal

- Can process up to 60k events/minute

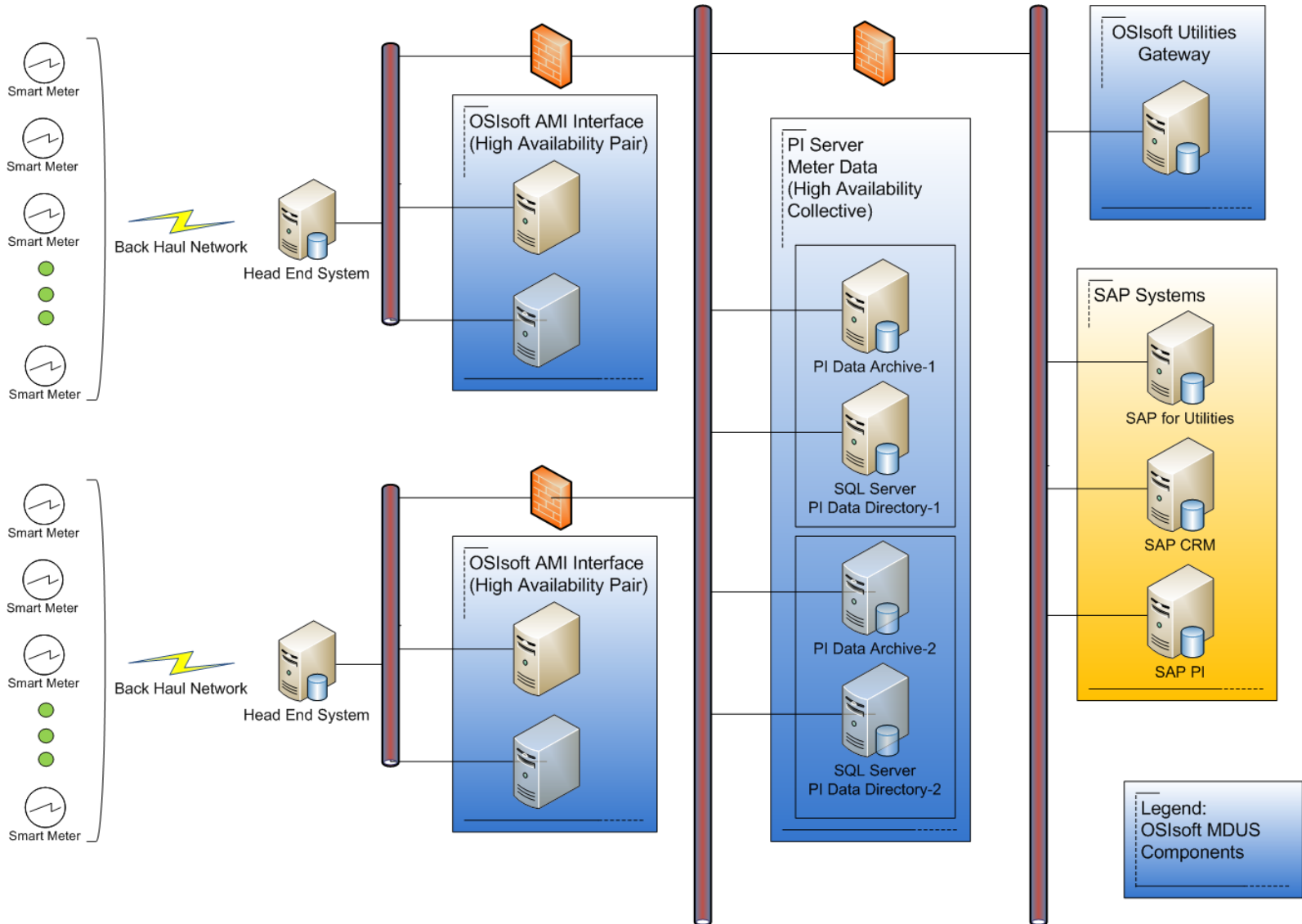
- Native Office Communication Server 2007 R2(OCS)delivery channel
  - v1.0 released in November 2009
  - Support presence and Instant Messaging (IM)
  - Ships as a plug-in for PI Notifications 1.1
  - Applications available for major cell phones
    - Windows Mobile
    - BlackBerry
    - iPhone
- Can use Email service to send an SMS message (offered by most wireless providers)

# OSIsoft Meter Data Unification System (MDUS)



- Package of software products *and* services
  - Software products
    - AMI Interfaces
    - PI Server (PI Data Archive and PI AF)
    - Analytics Framework
    - Web service based interface to SAP Utilities EhP 4
      - OSIsoft Utilities Gateway
  - Services
    - Pre-sale consulting
    - Architecture and implementation
    - Support
  - SAP Endorsed Business Solution

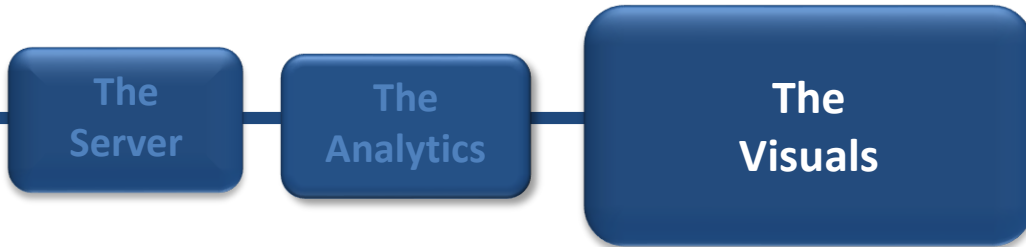
# OSIsoft MDUS Overview



# The Visuals



# The Visuals within the PI System



Local Computer



Mobile Device or Browser

	Graphic Authoring	Analysis	Reporting	Manual Entry
PI ProcessBook				
PI DataLink				
PI WebParts / iViews for SAP				
PI DataLink for Excel Services				
PI ActiveView				
PI Manual Logger				

# PI ProcessBook





- ProcessBook 3.1 (*Released October 2008*)
  - Windows security integration
  - PI Notifications integration
  - Trending enhancements
- ProcessBook 3.2 (*Released September 2009*)
  - AF Element Relative Displays
  - Display Playback
  - Display Browsing and Bookmarking
  - Office Communicator collaboration integration
  - Statistical Quality Control (SQC) symbol now included

## PI ProcessBook 3.2

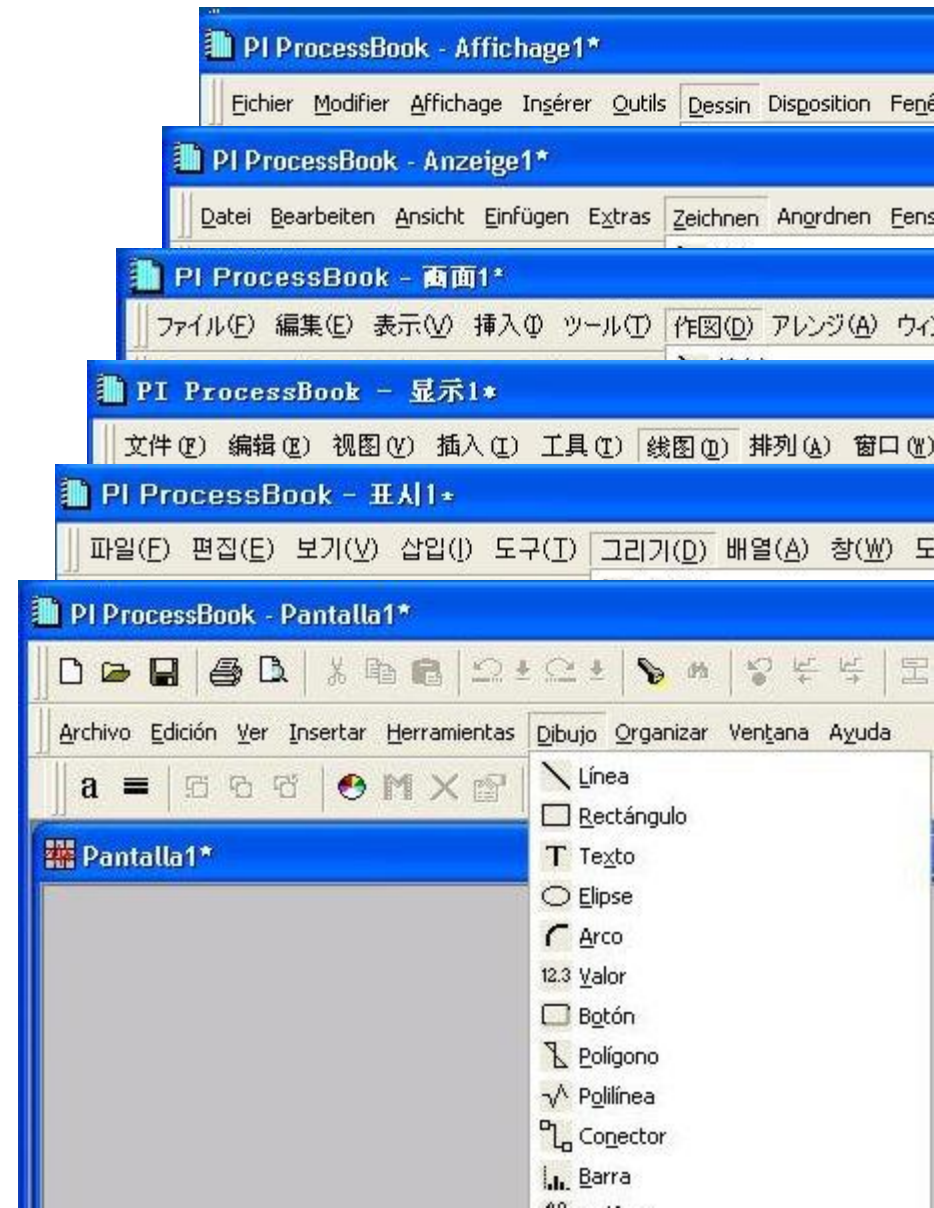


- ProcessBook and ActiveView

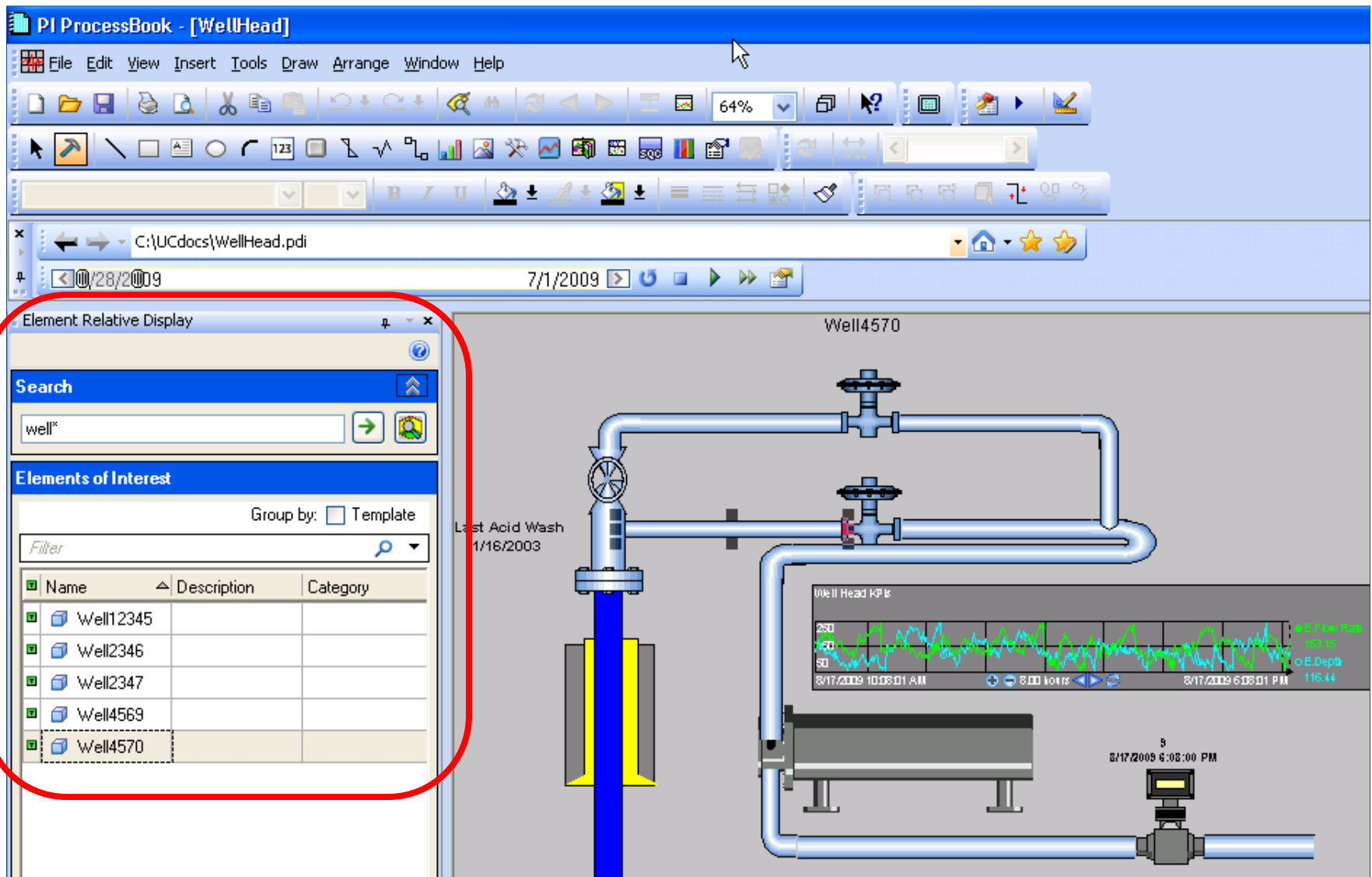
- English
- French
- German
- Spanish
- Chinese (Simplified)
- Japanese
- Korean
- Russian
- Portuguese (BR)

- BatchView

- Japanese



# PB 3.2 - AF Element Relative Displays

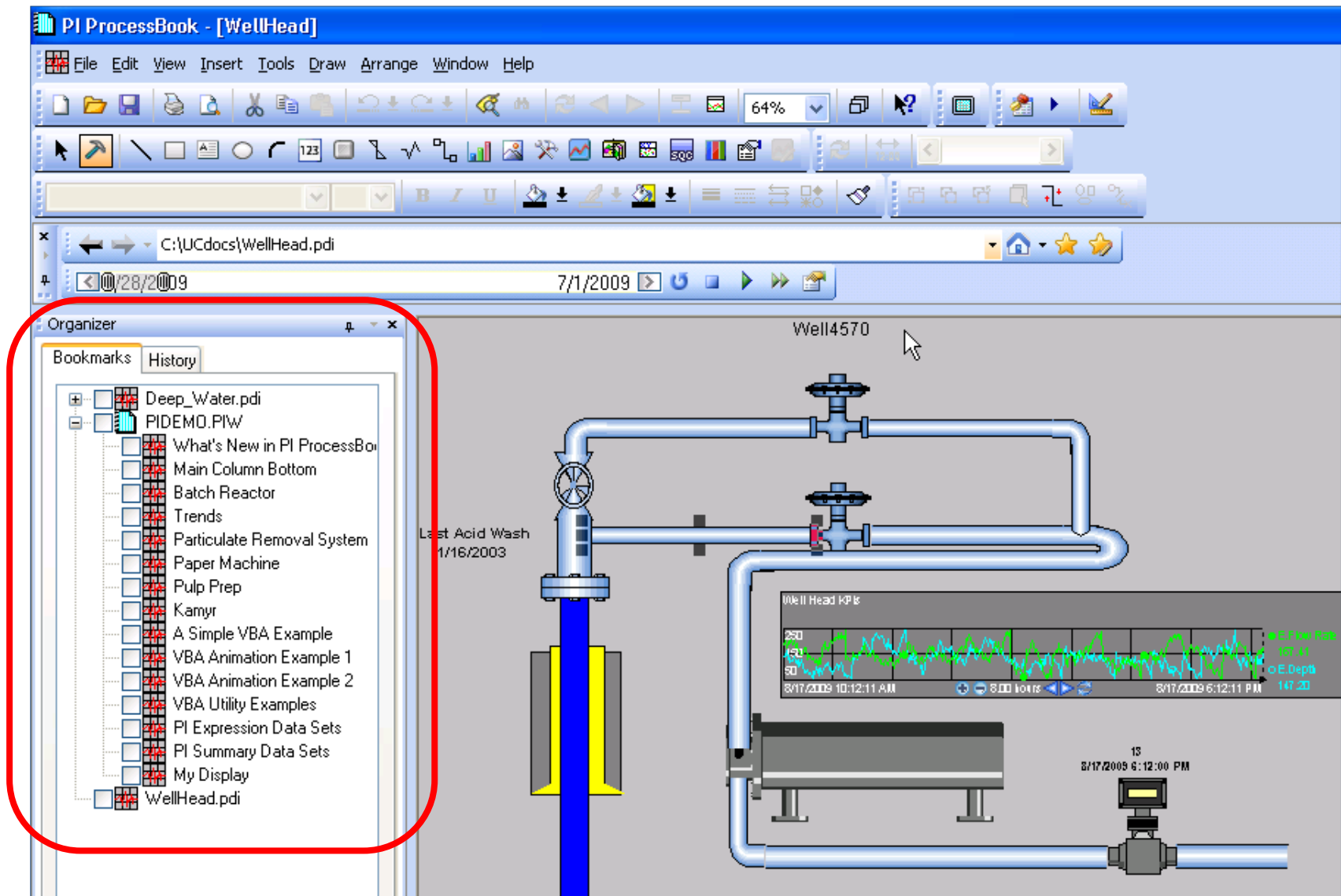


The screenshot shows the PI ProcessBook interface for a WellHead. The main window displays a process diagram for Well4570, which includes a wellhead, piping, valves, and a pump. A red circle highlights the 'Element Relative Display' panel on the left. This panel contains a search bar with the text 'well\*' and a list of 'Elements of Interest'.

Name	Description	Category
Well12345		
Well2346		
Well2347		
Well4569		
Well4570		

The main diagram also features a 'Well Head KPI' chart showing a green line graph of data over time, with a date range from 8/17/2009 10:05:01 AM to 8/17/2009 6:08:01 PM. A timestamp '8/17/2009 6:08:00 PM' is visible at the bottom right of the diagram area.

# PB 3.2 - Display Browsing and Bookmarking



The screenshot displays the PI ProcessBook interface for a process named "WellHead". The main window shows a process diagram with blue pipes, valves, and a wellhead. A data table titled "Well Head KPIs" is visible, showing two data series: "E.Flow Rate" and "E.Depth".

Well Head KPIs	8/17/2009 10:12:11 AM	8/17/2009 6:12:11 PM
E.Flow Rate	157.45	147.20
E.Depth		

The Organizer window on the left is highlighted with a red circle and contains the following bookmark list:

- Deep\_Water.pdi
- PIDEMO.PIW
  - What's New in PI ProcessBo
  - Main Column Bottom
  - Batch Reactor
  - Trends
  - Particulate Removal System
  - Paper Machine
  - Pulp Prep
  - Kamyr
  - A Simple VBA Example
  - VBA Animation Example 1
  - VBA Animation Example 2
  - VBA Utility Examples
  - PI Expression Data Sets
  - PI Summary Data Sets
  - My Display
- WellHead.pdi

# PB 3.2 - Office Communicator Integration



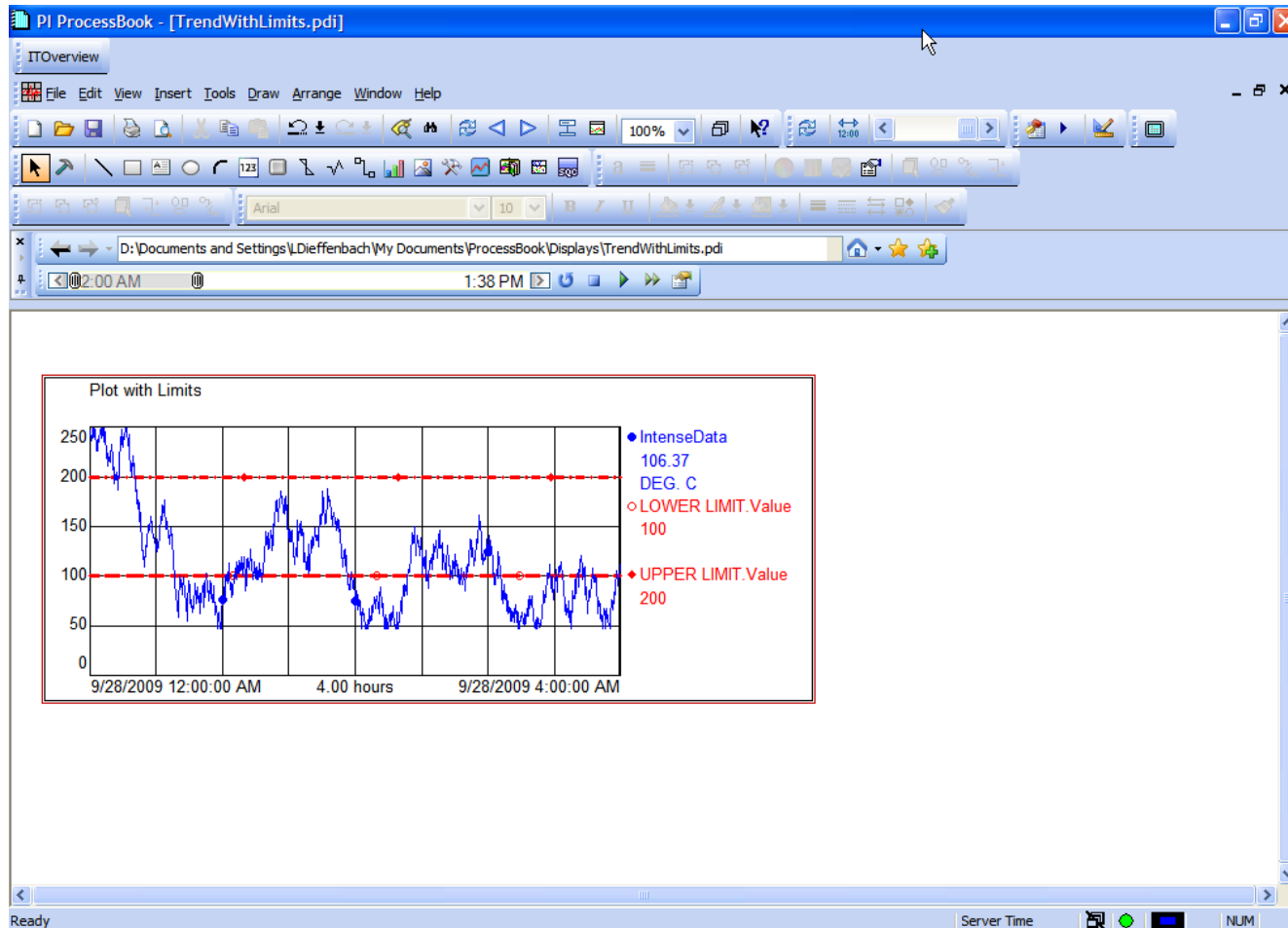
The screenshot displays the PI ProcessBook interface for a process named "Well4570". The main window shows a schematic diagram of a wellhead system with various pipes, valves, and a well. A data table is overlaid on the diagram, showing "Well Head KPIs" with columns for "E Flow Rate" and "E Depth". The flow rate is 188.28 and the depth is 122.18. The data is from 8/17/2009 10:10:56 AM to 8/17/2009 6:10:56 PM. A "Last Acid Wash" event is noted as 1/16/2003. On the right side, a "Contacts" window is open, listing various roles and names under "MS Office Communicator Contacts".

Well Head KPIs	E Flow Rate	E Depth
8/17/2009 10:10:56 AM	188.28	122.18
8/17/2009 6:10:56 PM	188.28	122.18

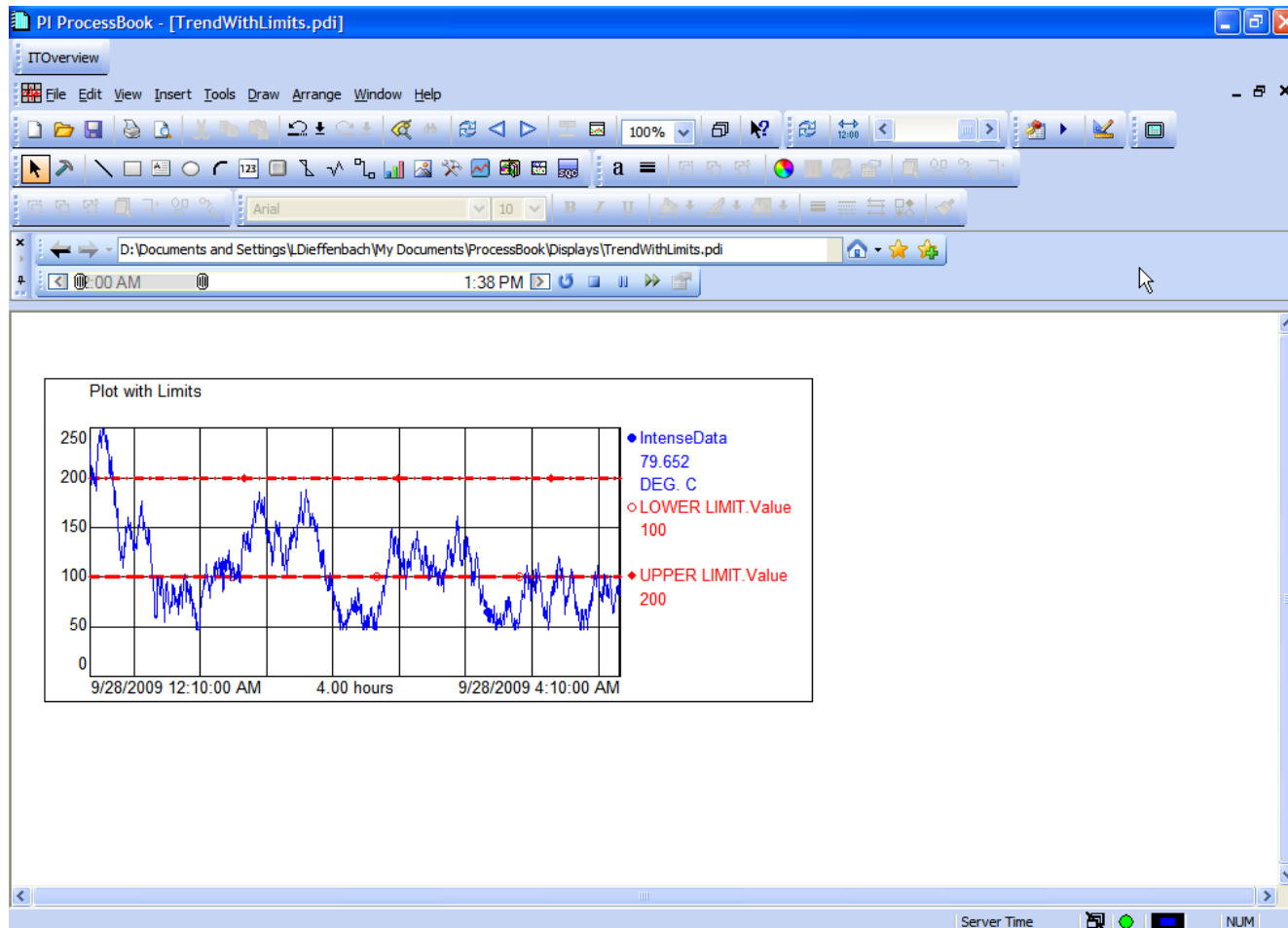
**Contacts List:**

- MS Office Communicator Contacts
  - Information Management
    - Dale Milton
  - Information Systems
    - Kevin Lee
  - Maintenance Engineers
    - Aaron Tucker
  - Operators
    - Stan Prosovski
  - Process Control Engineers
    - Carl Bertoni
  - Process Engineers
    - Lalit Subramaniam
  - Quality Compliance
    - Nicole Prevensky
  - Other Contacts

# ProcessBook Playback Feature

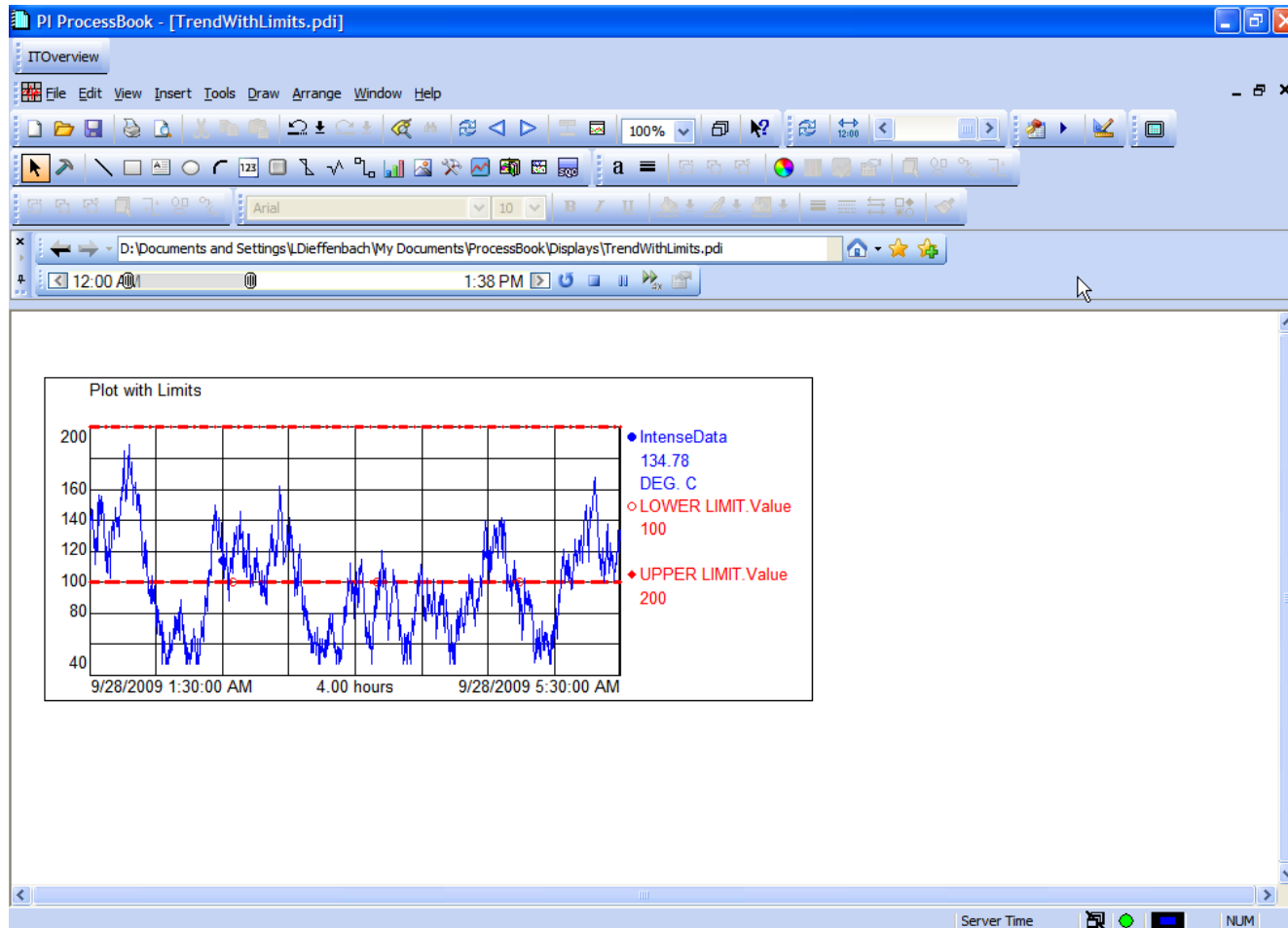


# ProcessBook Playback Feature

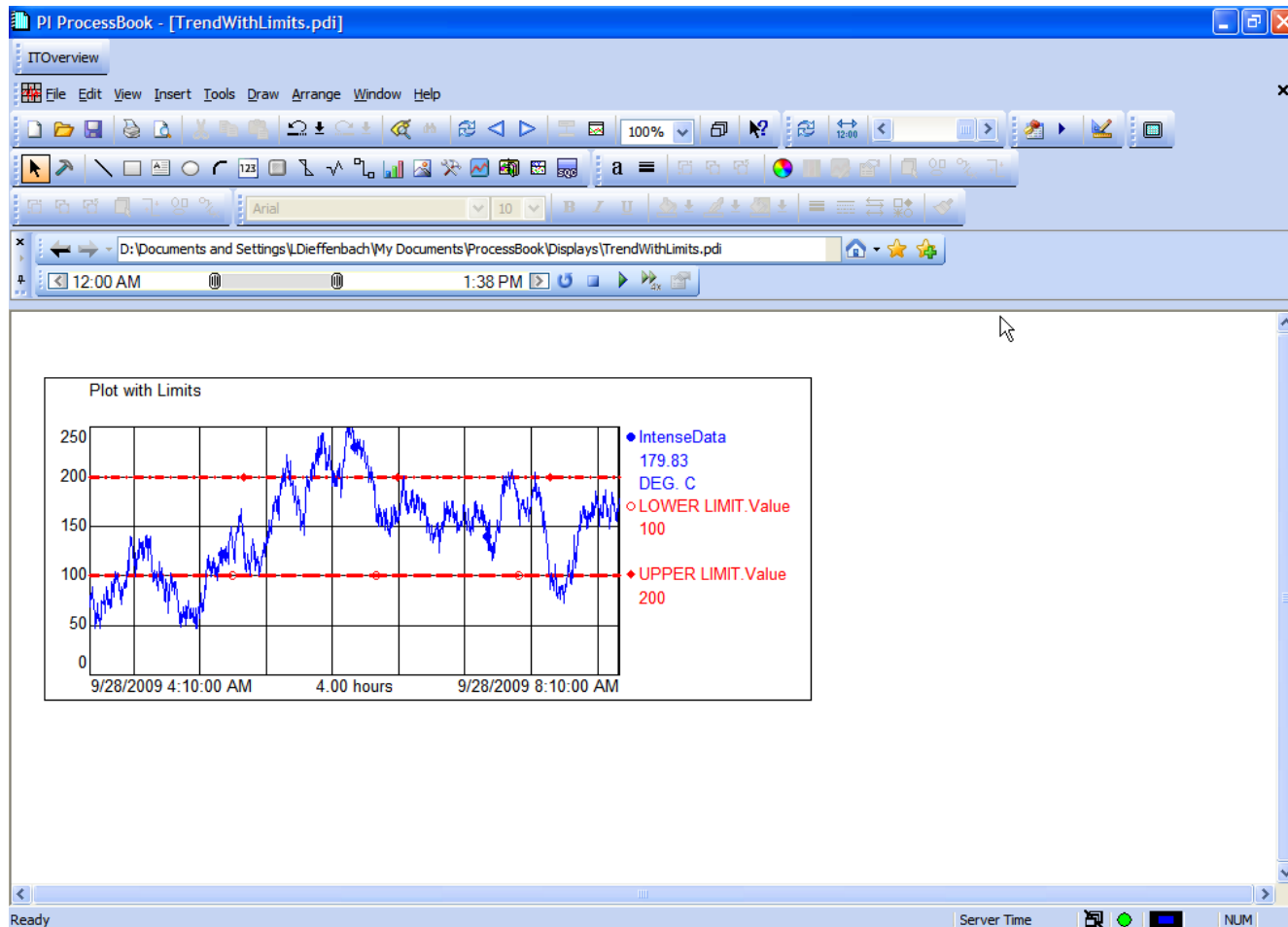




# ProcessBook Playback Feature



# ProcessBook Playback Feature



# ProcessBook Playback Options



**Playback Options** [X]

**Time Ranges**

Display Range:  
\*-4 Hour [v]

**Playback Period**

Start:  
9/28/2009 12:00 AM [↑][↓][calendar]

End:  
9/28/2009 1:38 PM [↑][↓][calendar]

**Refresh**

Refresh Rate (Sec):  
5 [↑][↓]

Speed:  
1 [↑][↓] Minutes [v] Per Second

OK Cancel Help

# PI DataLink

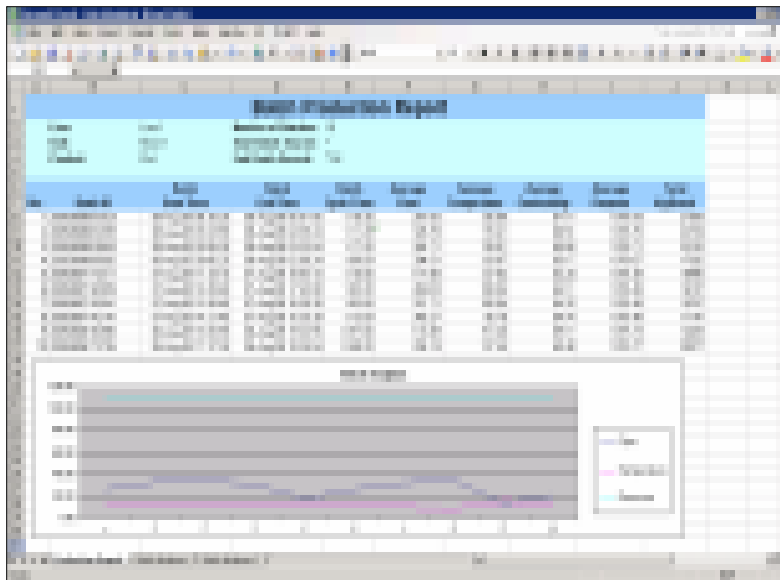


## PI DataLink:

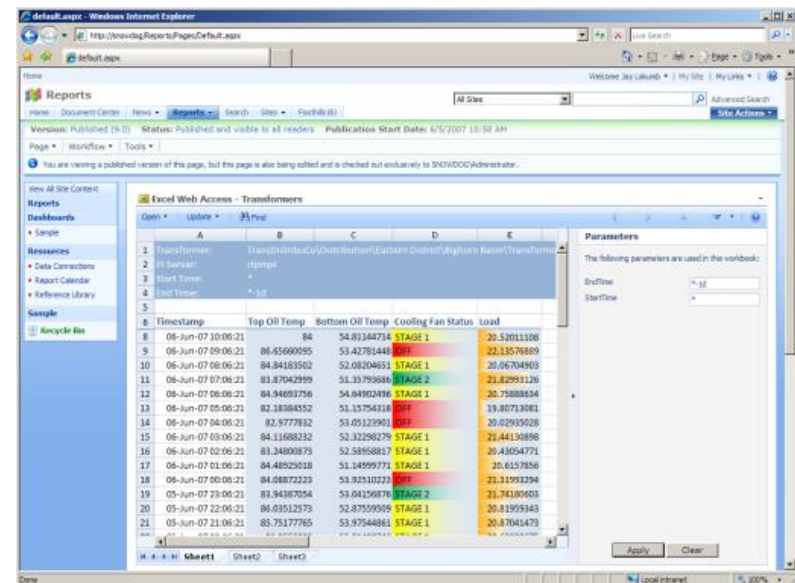
- Excel add-in for access to real-time and historical PI data

## PI DataLink for Excel Services (DLES):

- DataLink spreadsheets on the Web



**DataLink**



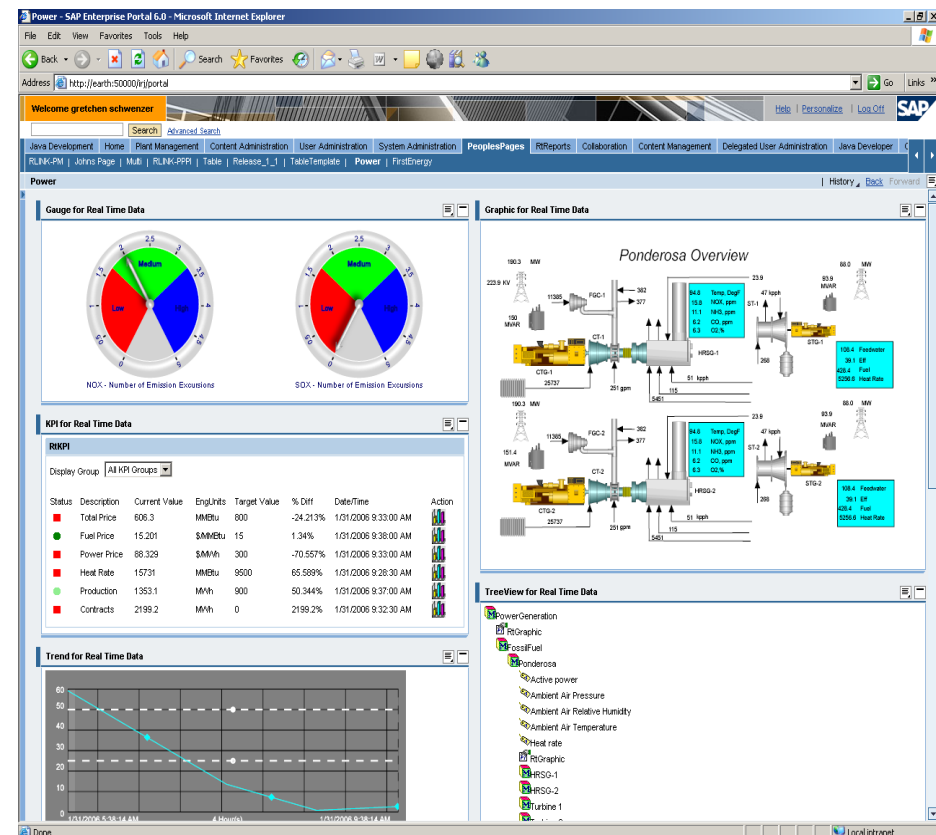
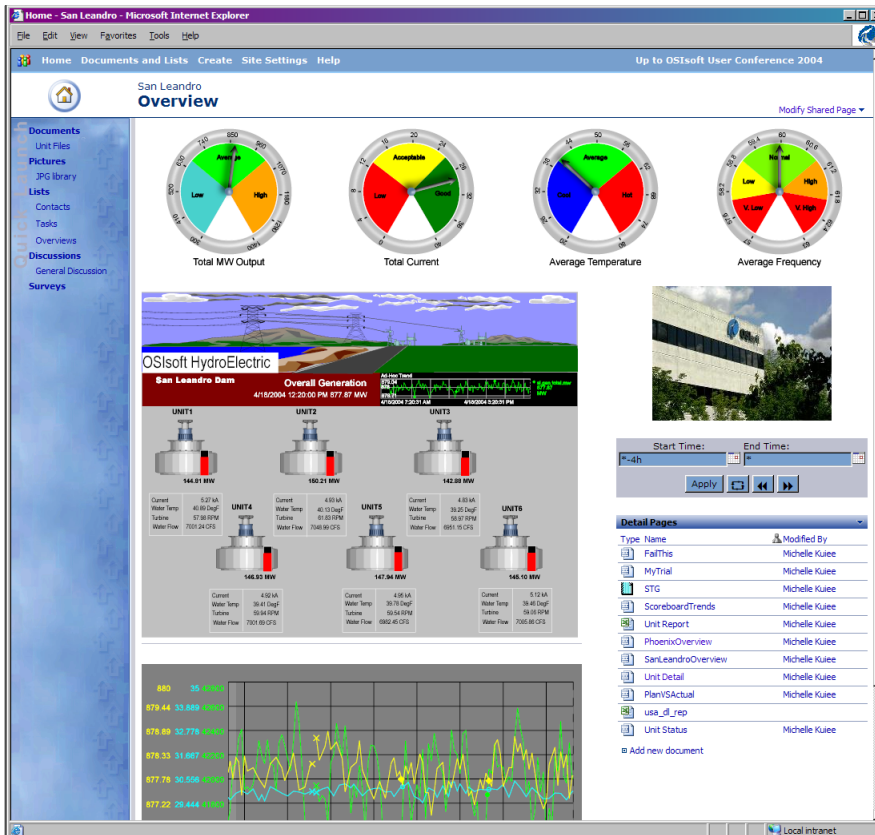
**DataLink for Excel Services**

- DataLink 4.1 (*Released*)
  - Support for automatic updating
- DataLink for Excel Services 4.1 (Released December 2009)
  - Support for 64-bit SharePoint 2007
- See “OSIsoft Products and Office 2007 Compatibility FAQ” on Tech Support site
- PI DataLink 2010 (1H 2010)
  - Support for Office 2010
  - Better Business Intelligence Support

## PI WebParts / iViews

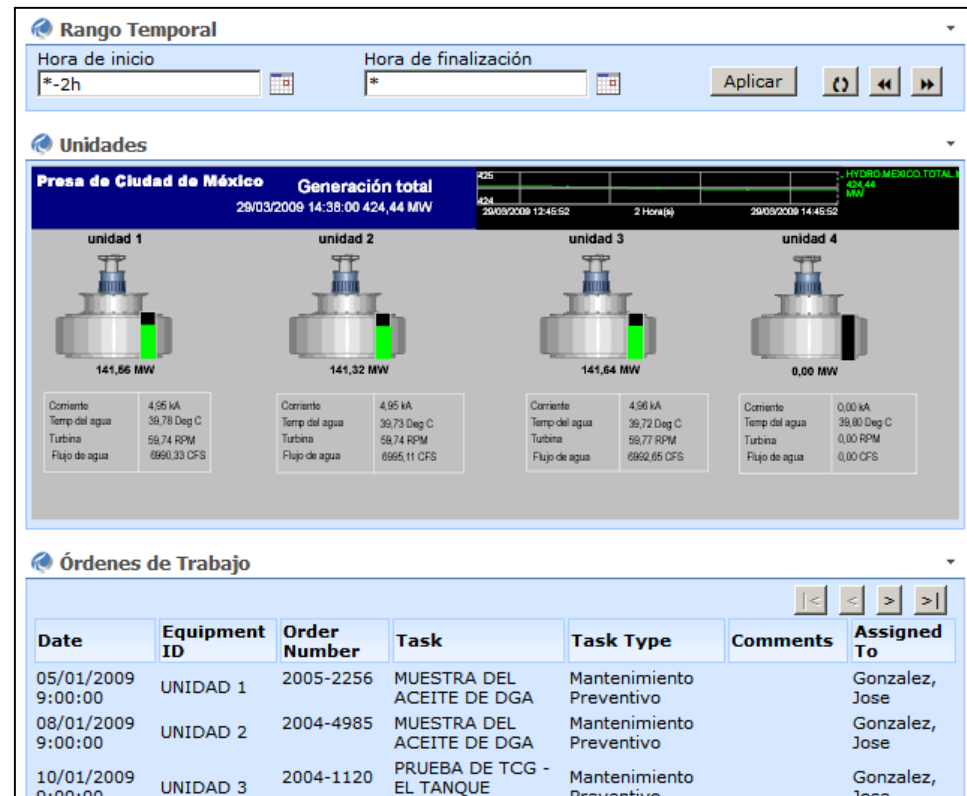


- Integration and Collaboration
- Access to Process Information
- Analysis and Reporting





- RtWebParts 2.2 (September 2008 - *Released*)
- PI Web Parts 3.0 (December 2009 - *Limited Release*)
- 8 Language Packs (*Released* for 2.2, 3.0 in April 2010)
  - Japanese
  - Chinese (Simplified )
  - Korean
  - French
  - Portuguese (BR)
  - German
  - Spanish
  - Russian



- **PI WebParts 3.0 (Released in December 2009)**
  - Product officially rebranded PI WebParts
  - Support for 64-bit operating systems (server side)
  - Support for AF
  - No Support for MDB
    - Fine for AF applications, but MDB based apps must wait
    - PI Enterprise Server 2010 will provide MDB->AF support necessary if you rely on MDB access in Web Parts
- **PI Web Parts 2010 (1H 2010)**
  - Support for Office 2010

# OSIsoft Product Roadmap

- Major Release
- Minor Release

Oct09 Nov09 Dec09 Jan10 Feb10 Mar10 Q2 2010 2H 2010

## Client

### Desktop

ProcessBook (3.2)

DataLink (4.1.1)

Manual Logger (2.3.x)

ProfileView (2.2.x)

### Web

PI WebParts (3.0.x)

ActiveView (3.2.x)

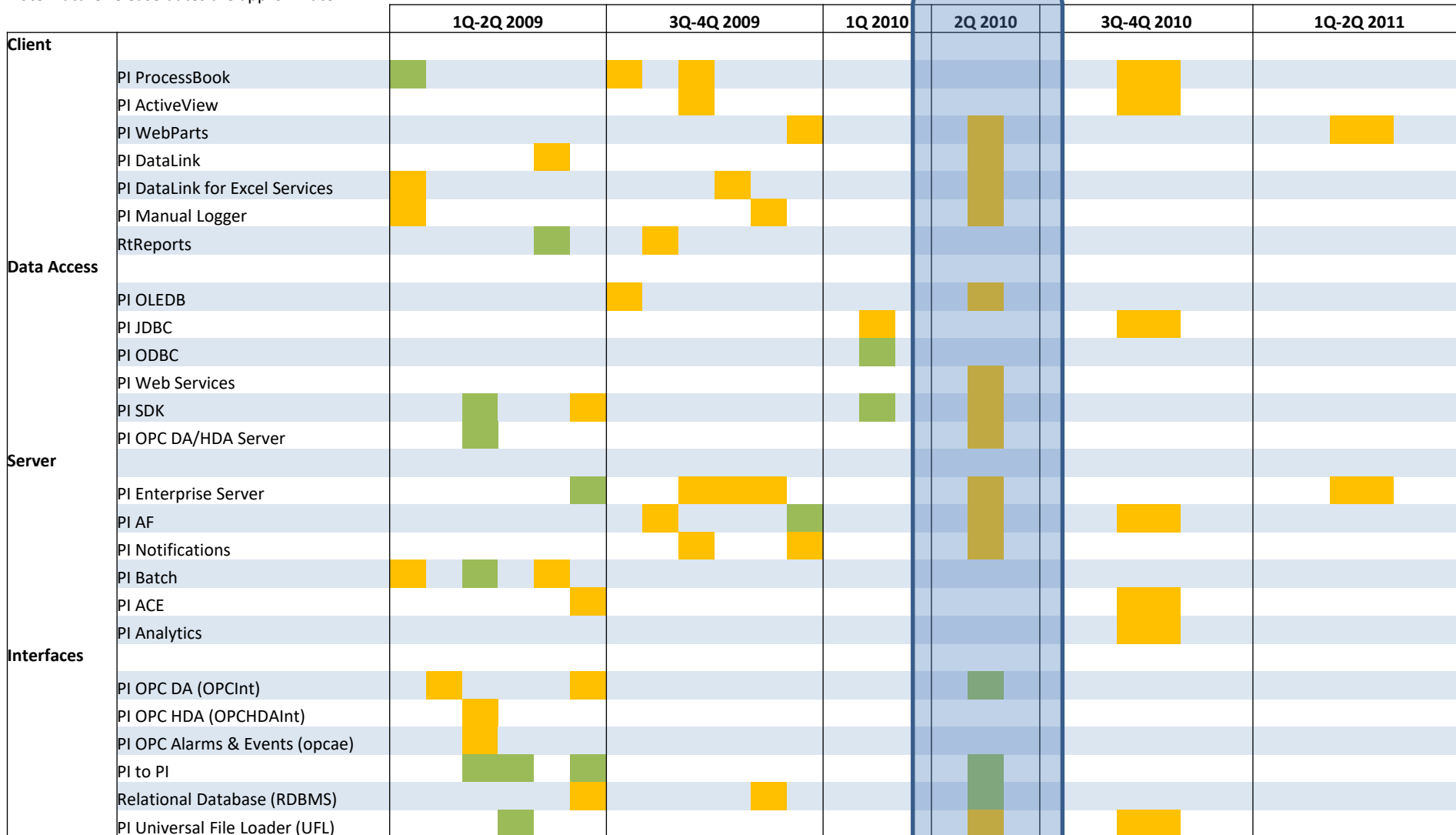
DataLink Excel Services (4.0.3)



# 2009-2010 Roadmap



Note: Future release dates are approximate.



## Server:

- PI Server 3.4.380 - *Released* September 2009 (Security)
- PI AF 2.1 - August 2009 (64-bit, HA) *Released*
- PI Notifications 1.1 - September 2009 (OCS, Templates)
- PI Data and Web Services - December 2009 (64-bit)
- PI Enterprise Server 2010 - 2Q 2010 (MDB to AF)

## Clients:

- PI ProcessBook 3.2 - *Released* September 2009 (AF relative displays, Usability)
- PI WebParts 3.0 - *Released* December 2009 (64-bit, AF Support)
- PI DataLink 4.1 for Excel Services (64-bit) - *Released* December 2009
- PI WebParts and DataLinkx 2010 - Office 2010



Thank you

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