



Regional Seminar Series



PI System Roadmap

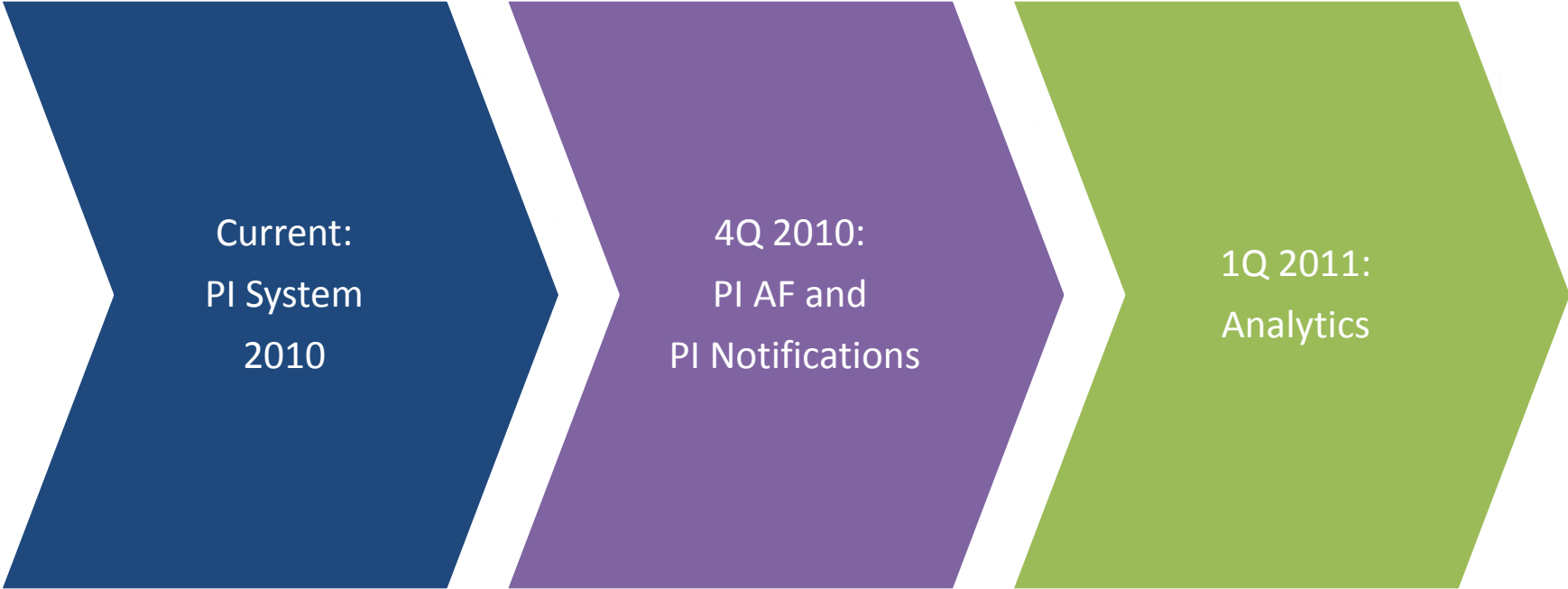
Laurie Dieffenbach
Product Manager
OSIsoft, LLC

November 5, 2010

Empowering Business in Real Time.

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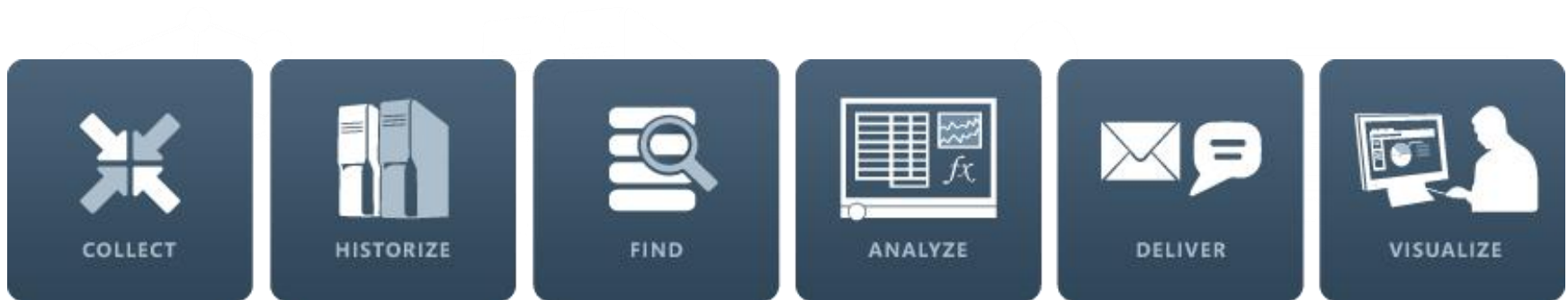
PI System Roadmap - Agenda



Current:
PI System
2010

4Q 2010:
PI AF and
PI Notifications

1Q 2011:
Analytics

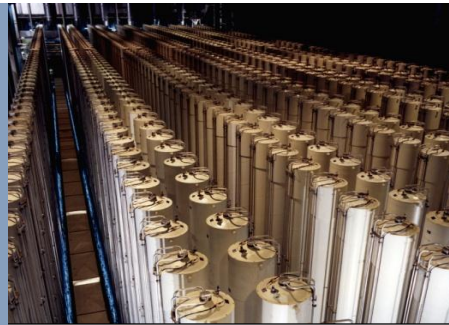


The OSIsoft PI System is the highly scalable and secure real-time and event infrastructure that connects people with the right operational and manufacturing information at the right time in order to *analyze*, *collaborate*, and *make smart decisions*



Security

Critical
Facilities are
Safe



Asset Centric PI

Define Once
Use Over and
Over



Localization

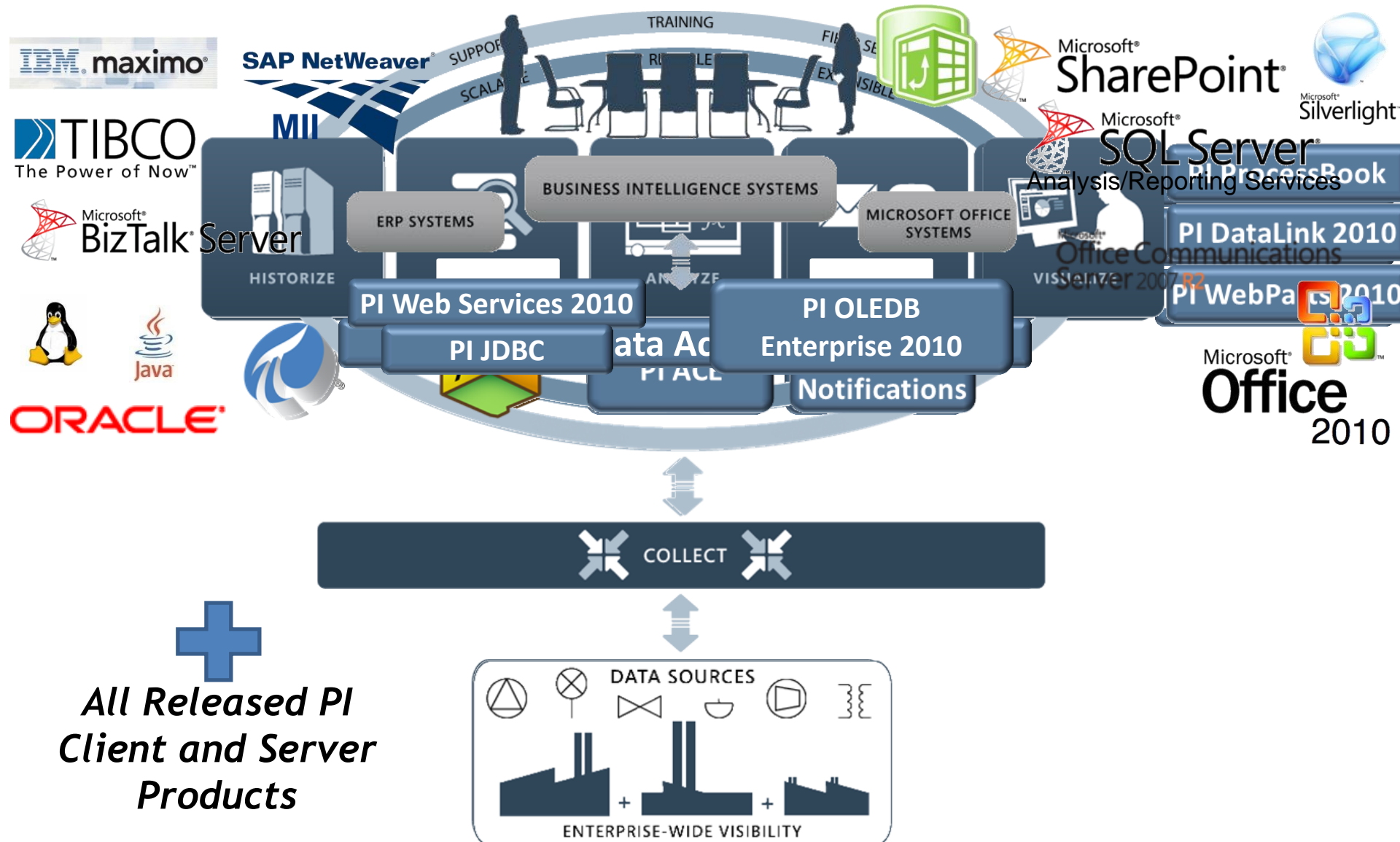
Use
Worldwide



Scaling, 64 bit

Use PI for
more data

PI System 2010

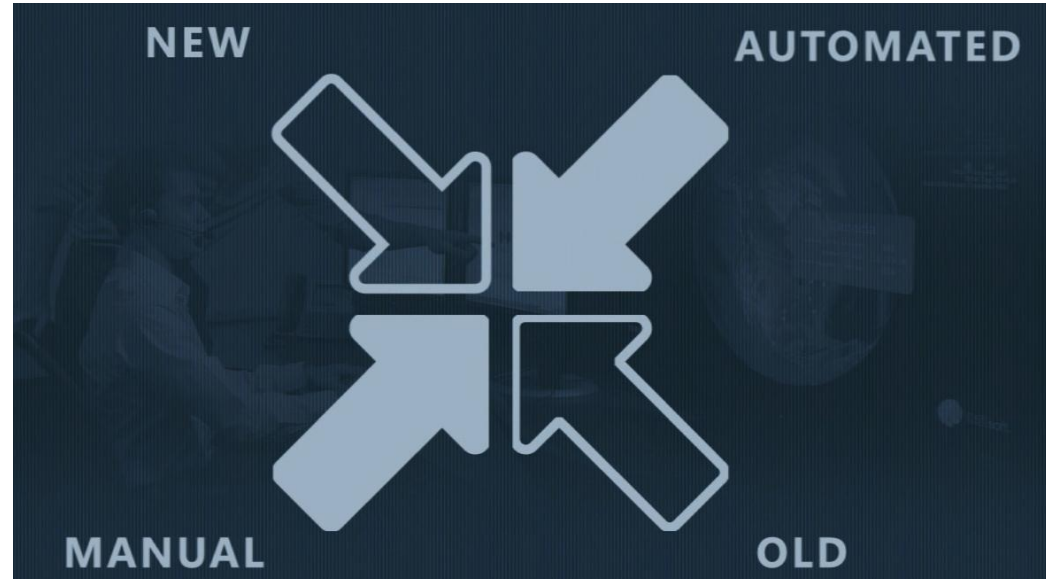




Over 400 interfaces PI System can
Collect from:

Categories of Data Sources:

- Devices
- Systems
- Standards
- Manually entered data
- IT assets
- Databases
- Internet





- Store large volumes of data for a long period of time with the least amount of disk space possible.
- Allows retrieval of any data, no matter how old, in seconds.
- Securely Scale Up and Scale Out to support growing business needs



- 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



PI Identities for Role Based Security



The screenshot displays the **sinusoid - Point Builder - PI System Management Tools** application. The left sidebar shows the **System Management Tools** tree with **Security** expanded. The main window is on the **Security** tab, showing **Point Security** and **Data Security** sections. A **Select** dialog box is open, showing a list of users and groups from server **LG380**. The **PIOperators** user is selected.

Point Security

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

Data Security

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"

Permissions for piadmin

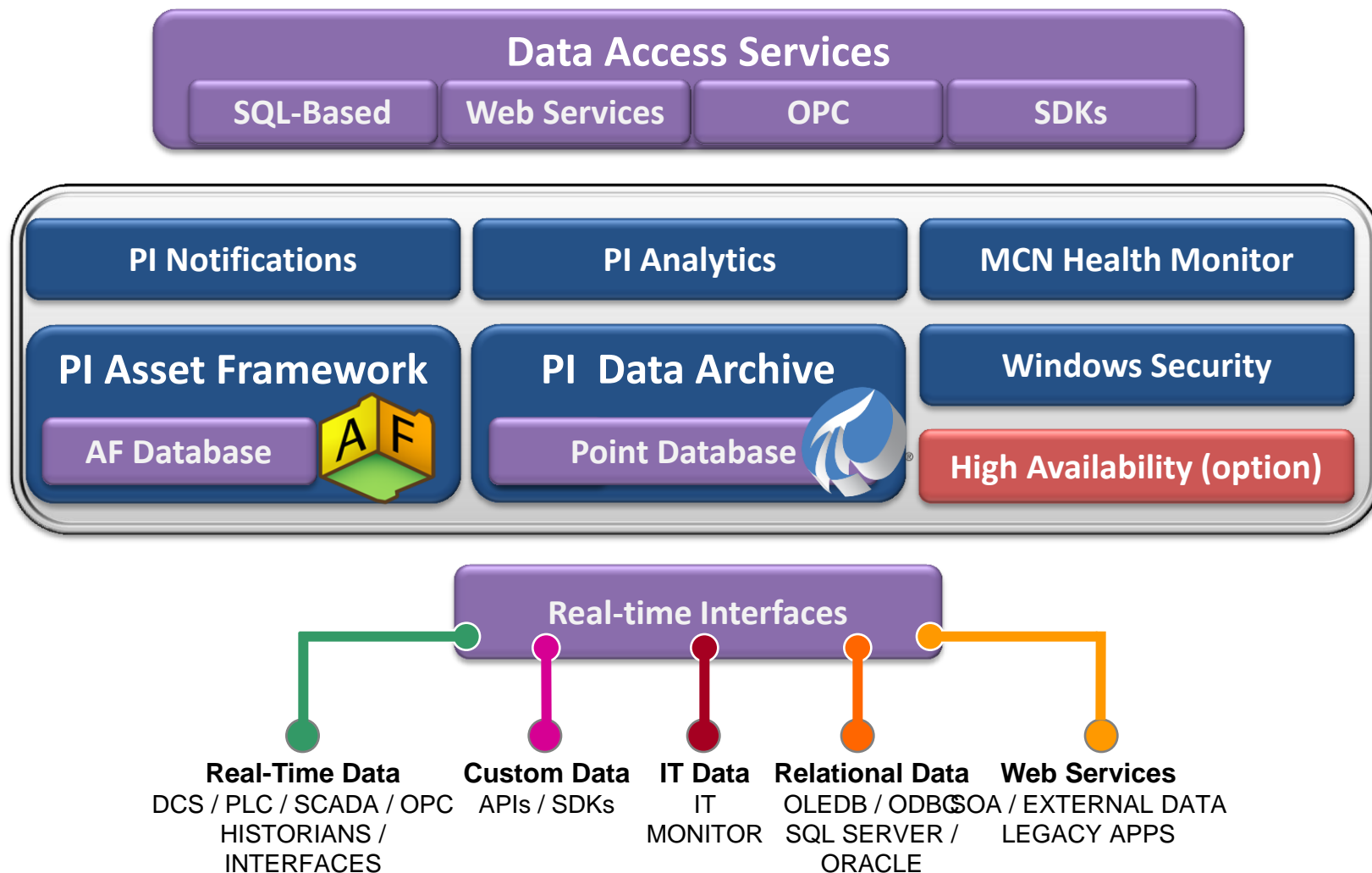
Permission	Allow
Read	<input checked="" type="checkbox"/>
Write	<input checked="" type="checkbox"/>

Server - My_PI

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

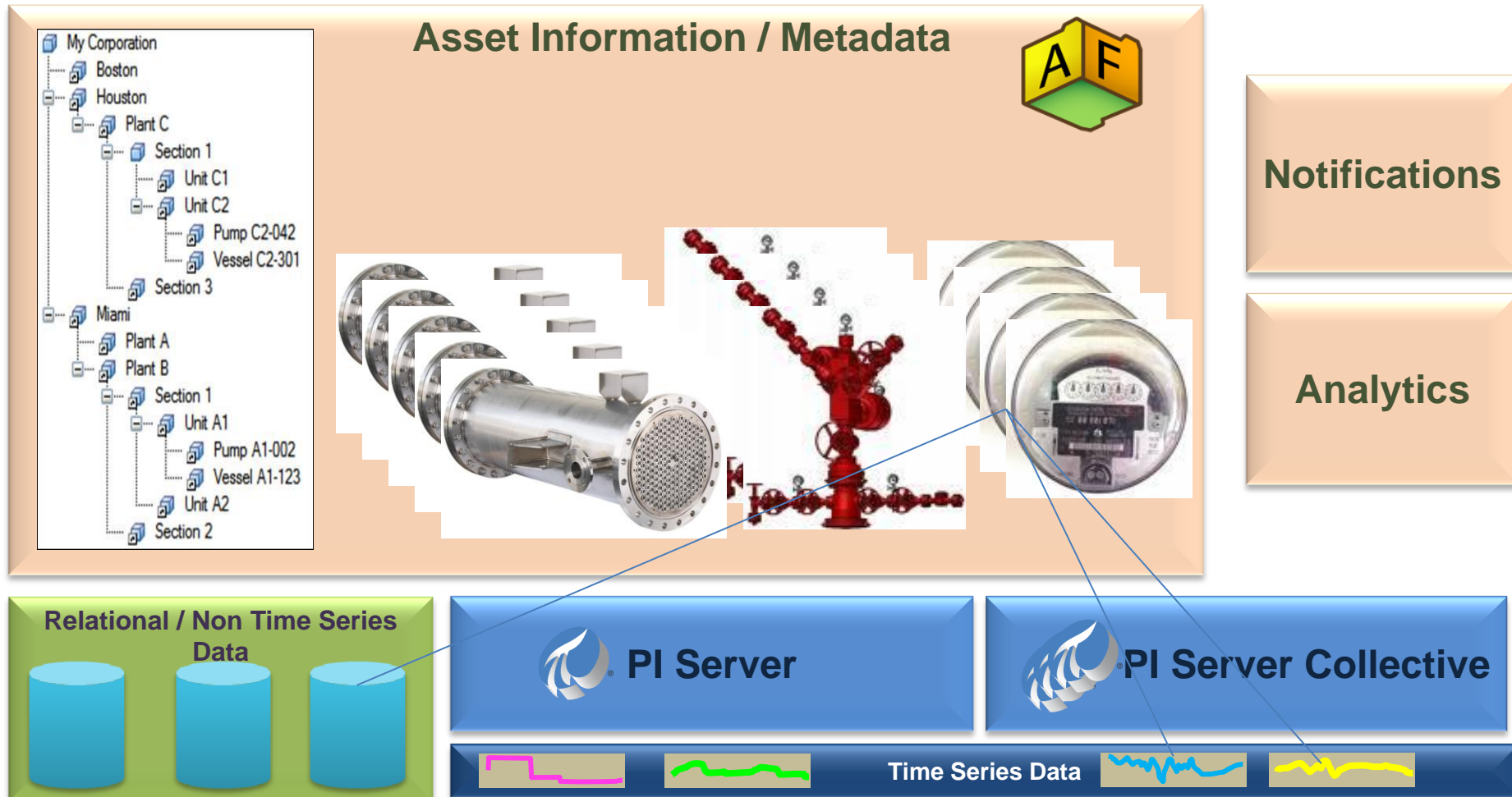
Note: This change requires a restart of the PI Base.

- OSIsoft Values
 - Provide reliable data for your business
 - Minimize cyber risk
 - Ease compliance burden
- Proactive Actions
 - Security Development Lifecycle
 - Enable Built-In Defenses
 - Managed PI and First Responders
 - Dedicated Security Manager
- Verification
 - 2009 US Army NETCOM - Certificate of Noteworthiness (CoN)
 - 2008 Windows Logo Certification - Server 'Core'
 - 2006 National SCADA Test Bed - Cyber Assessment
 - 2004 EPRI and Utility Partner - Cyber Assessment

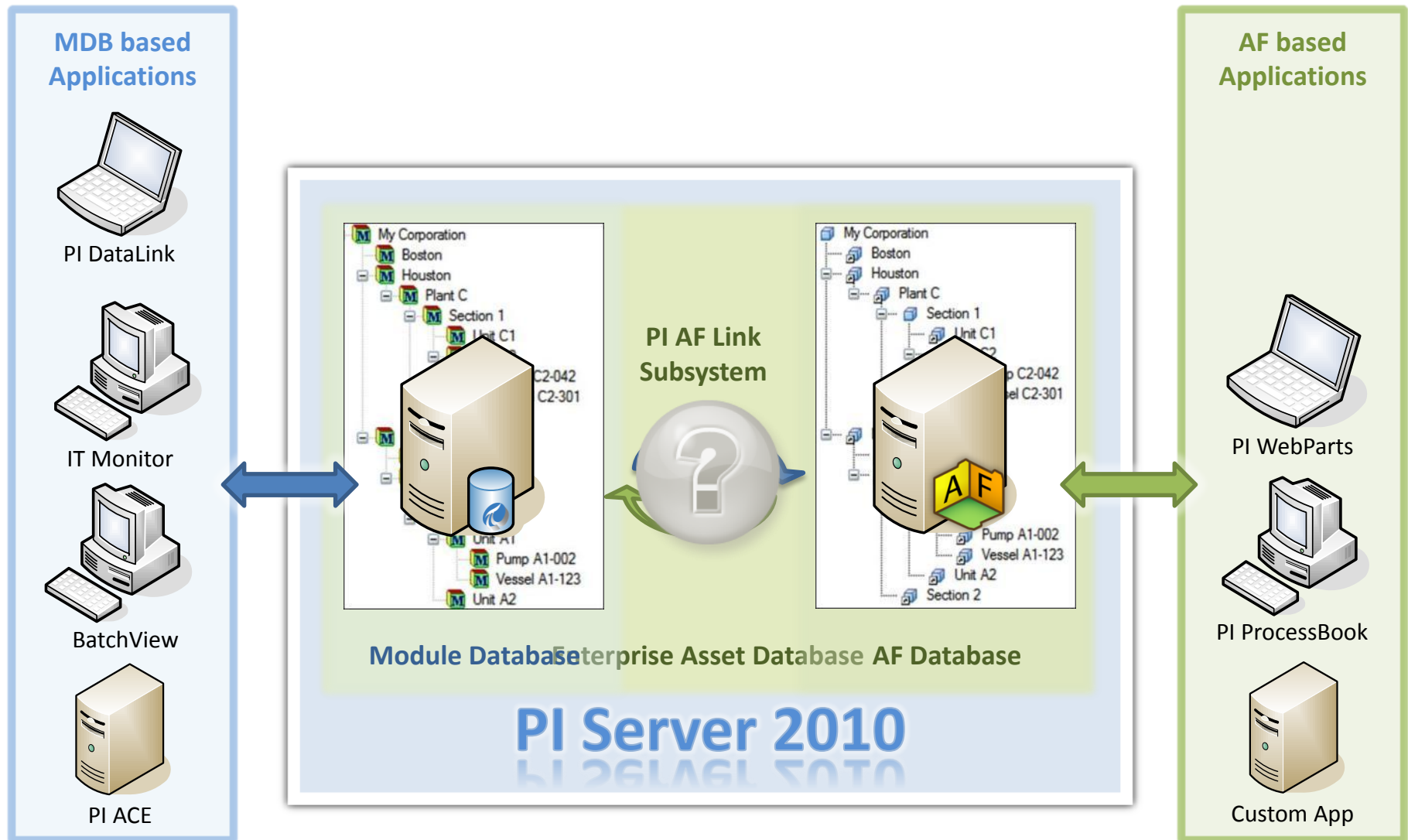




- Find all data by name, relationship, or usage
- Find important configurations such as analytics and displays
- Easily find work that you or colleagues have already completed
- Organize and Categorize data so it's easier to find next time
- Leverage your teams work



Mixed Applications





- Combine data elements together
- Aggregate totals and averages
- Filter out irrelevant data.
- Includes both configured and programmed analytics
- Enables organizations to continually improve by analyzing data and obtaining insight into their operations.

BATCH ID	PI MIN	PI AVG	PI MAX	PI RANGE	PI STDEV
MP_20090911_115632	147.1	172.6	205.6	58.5	13.6
MP_20090910_204531	266.7	316.9	366.9	100.2	26.5
MP_20090910_170536	32.8	102.5	230.0	197.2	36.4
MP_20090910_160842	141.8	188.3	220.1	78.4	21.6
MP_20090909_220449	230.0	328.4	426.3	196.3	56.2
MP_20090909_153813	201.5	256.4	289.0	87.5	18.2
MP_20090909_142545	264.1	291.1	327.9	63.8	14.7
MP_20090909_132727	295.4	338.1	377.1	81.7	25.4
MP_20090902_171845	32.3	129.7	292.8	260.5	88.1
MP_20090902_153523	108.6	184.5	251.6	143.0	35.2
MP_20090901_204325	311.9	363.5	409.4	97.4	23.4
MP_20090831_194329	340.6	361.8	396.0	55.4	13.2

MIN	AVG	MAX	MAX	MAX
32.3	252.8	426.3	260.5	88.1

PI Analytics - Components and Functionality



calculations



event based



PI data



- Performance Equations



Sche User Configuration

- Totalizers



- Alarms/Statistical Quality Control



- Advanced Computing Engine



- PI for StreamInsight*

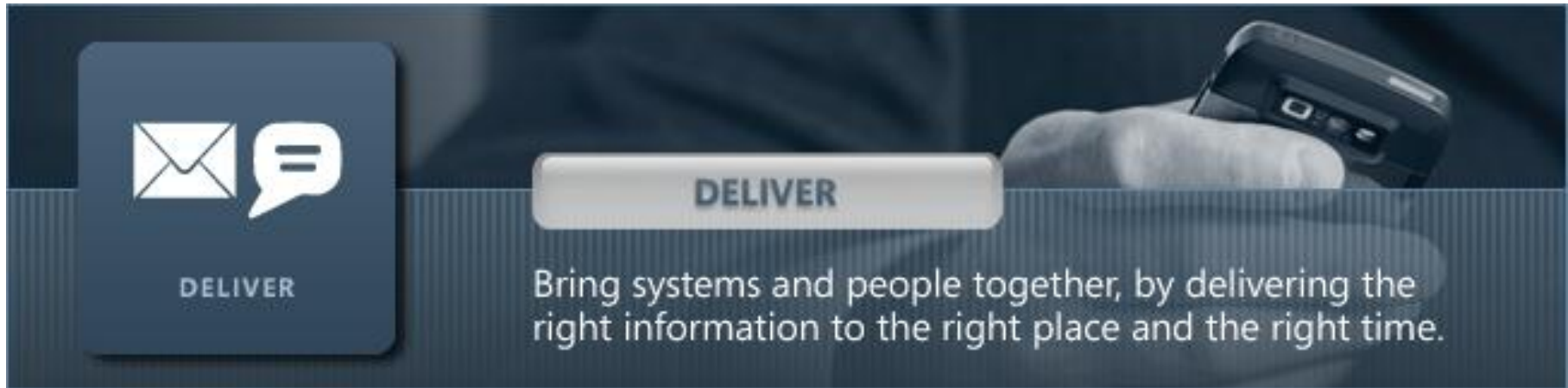


Programme Non-PI data

- Asset Framework supported Analytics*



* Future products



- **PI Notifications** – deliver exceptions to humans or push to other systems
- **PI Data Access** – enables development of custom PI applications, as well as integration with business systems

SQL Data Access

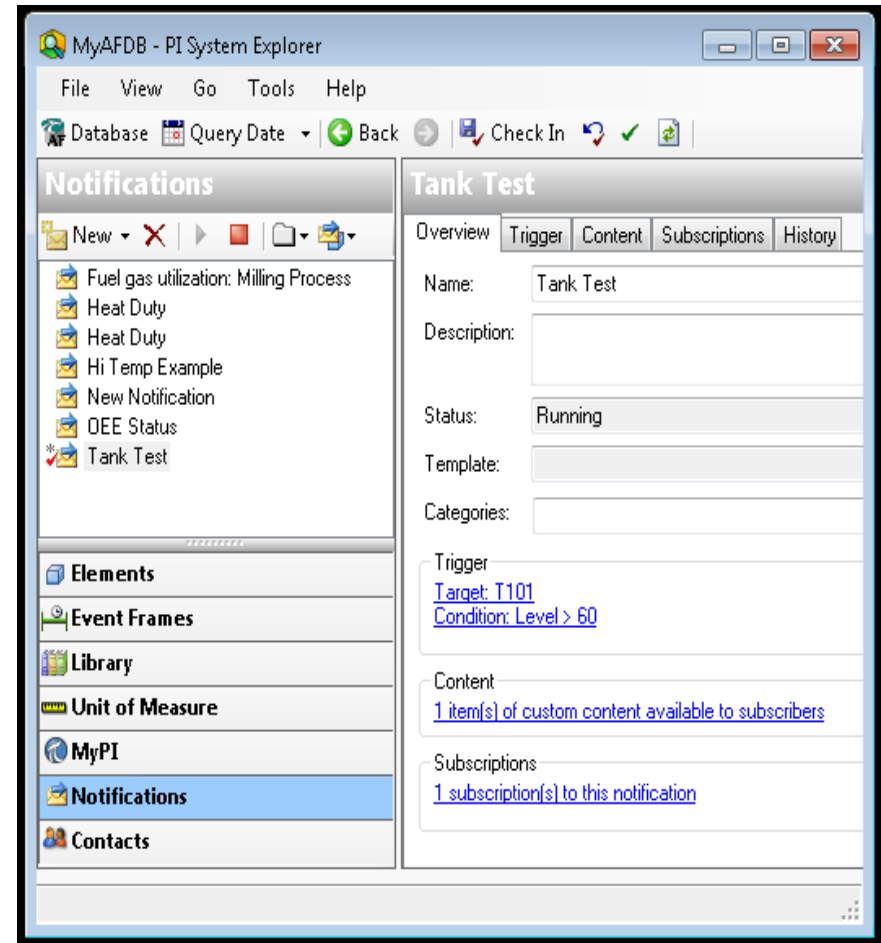
Web Services

OPC Servers

Software Development Kits (SDKs)



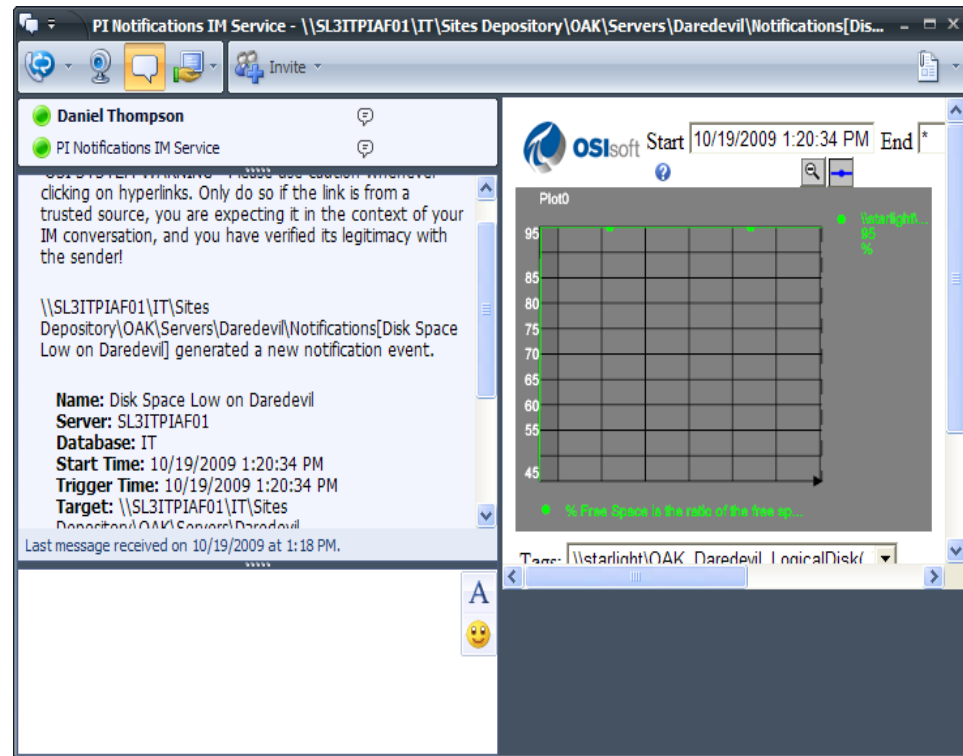
- Let one or more people or systems know an event has occurred
- Notifications combines
 - Trigger condition
 - Customizable content
 - Subscribers
 - Deliver the notification
 - Acknowledgement
 - Escalation



Delivery Channels



- How a message is delivered
- Supported Delivery Channels:
 - Email
 - Web service
 - Microsoft Office Communicator
- Extensible - write your own!
 - Helper classes available
- OSIsoft vCampus example
 - XML delivery channel



PI Server 2010 Releases



11-Oct-2010

Major release
 Minor release
 Service Pack

[older](#)
[newer](#)

Featured Products	Q2 2009	Q3 2009	Q4 2009	Q1 2010	Q2 2010	Q3 2010	Q4 2010	Q1 2011	Q2 2011 - Q3 2011
CLIENT View more	Q2 2009	Q3 2009	Q4 2009	Q1 2010	Q2 2010	Q3 2010	Q4 2010	Q1 2011	Q2 2011 - Q3 2011
PI ProcessBook									
PI ActiveView									
PI DataLink									
PI DataLink Server									
PI Manual Logger									
PI WebParts									
DATA ACCESS View more	Q2 2009	Q3 2009	Q4 2009	Q1 2010	Q2 2010	Q3 2010	Q4 2010	Q1 2011	Q2 2011 - Q3 2011
PI JDBC									
PI ODBC									
PI OLEDB									
PI OLEDB Enterprise									
PI OPC DA/HDA Server									
PI SDK									
PI Web Services									
SERVER View more	Q2 2009	Q3 2009	Q4 2009	Q1 2010	Q2 2010	Q3 2010	Q4 2010	Q1 2011	Q2 2011 - Q3 2011
PI ACE									
PI AF									
PI for StreamInsight									
PI Server									
PI Notifications									
INTERFACES View more Search	Q2 2009	Q3 2009	Q4 2009	Q1 2010	Q2 2010	Q3 2010	Q4 2010	Q1 2011	Q2 2011 - Q3 2011

PI AF
Scalability
HA

PI Server
Windows
Security

PI Server 2010
Assets and Tags,
Scalability, Packaging

PI
Notifications
Templates



Deliver: PI Data Access - The Products



SQL Family

Web Services

OPC Servers

OSIsoft SDKs



Asset Information / Metadata

Notifications

Analytics

Relational / Non Time Series Data



PI Server



PI Server Collective

Time Series Data

PI Data Access: The 2010 Wave



SAP NetWeaver®



Microsoft® BizTalk® Server

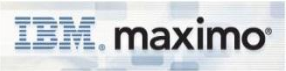


Microsoft® SQL Server®

Analysis/Reporting Services



Microsoft® Visual Studio®



ORACLE®



Microsoft® Silverlight



Microsoft® SharePoint®



TIBCO
The Power of Now™

PI JDBC

PI Web
Services 2010

PI OLEDB
Enterprise 2010

PI OPC DA/HDA
Server 2010

OSIsoft SDKs

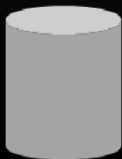


Asset Information / Metadata

Notifications

Analytics

Relational / Non Time Series Data



PI Server



PI Server Collective

Time Series Data

Data Access Releases



11-Oct-2010

Major release
 Minor release
 Service Pack

[older](#)
[newer](#)

Featured Products	Q4 2008	Q1 2009	Q2 2009	Q3 2009	Q4 2009	Q1 2010	Q2 2010	Q3 2010	Q4 2010	Q1 2011
CLIENT View more	Q4 2008	Q1 2009	Q2 2009	Q3 2009	Q4 2009	Q1 2010	Q2 2010	Q3 2010	Q4 2010	Q1 2011
PI ProcessBook										
PI ActiveView										
PI DataLink										
PI DataLink Server										
PI Manual Logger										
PI WebParts										
DATA ACCESS View more	Q4 2008	Q1 2009				Q1 2010	Q2 2010	Q3	Q4 2010	Q1 2011
PI JDBC										
PI ODBC										
PI OLEDB										
PI OLEDB Enterprise										
PI OPC DA/HDA Server										
PI SDK										
PI Web Services										
SERVER View more	Q4 2008	Q1 2009	Q2 2009	Q3 2009	Q4 2009	2010	Q2 2010	Q3 20	Q4 2010	Q1 2011
PI ACE										
PI AF										
PI for StreamInsight										
PI Server										
PI Notifications										
INTERFACES View more Search	Q4 2008	Q1 2009	Q2 2009	Q3 2009	Q4 2009	Q1 2010	Q2 2010	Q3 2010	Q4 2010	Q1 2011
PI OPC UA										

PI JDBC 2010
1st Release

PI OLEDB
Enterprise 2010
1st Release

PI OLEDB
64-Bit

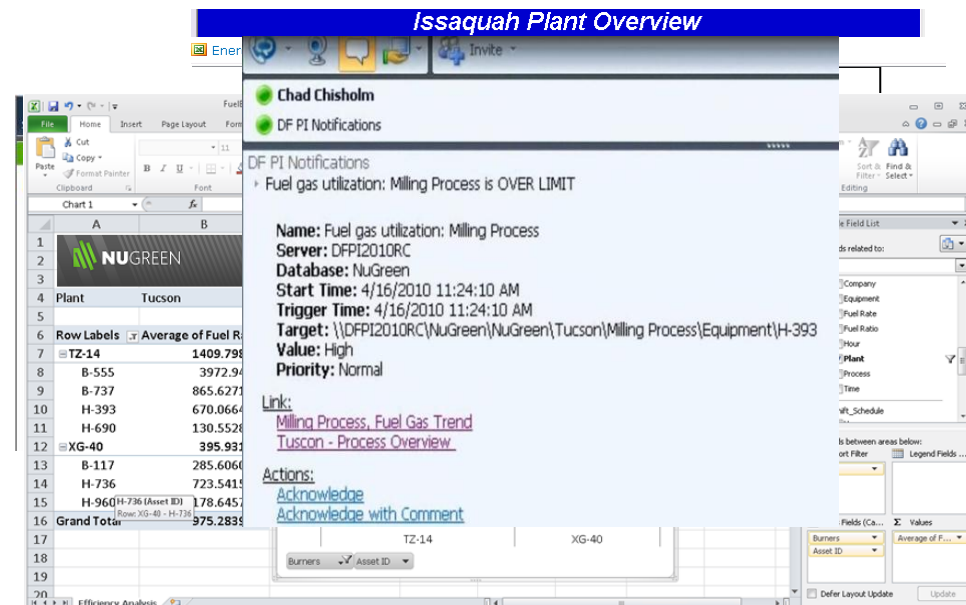
PI Web Services
2010
1st Release

PI OPC Server
OPC Compliance
Tested

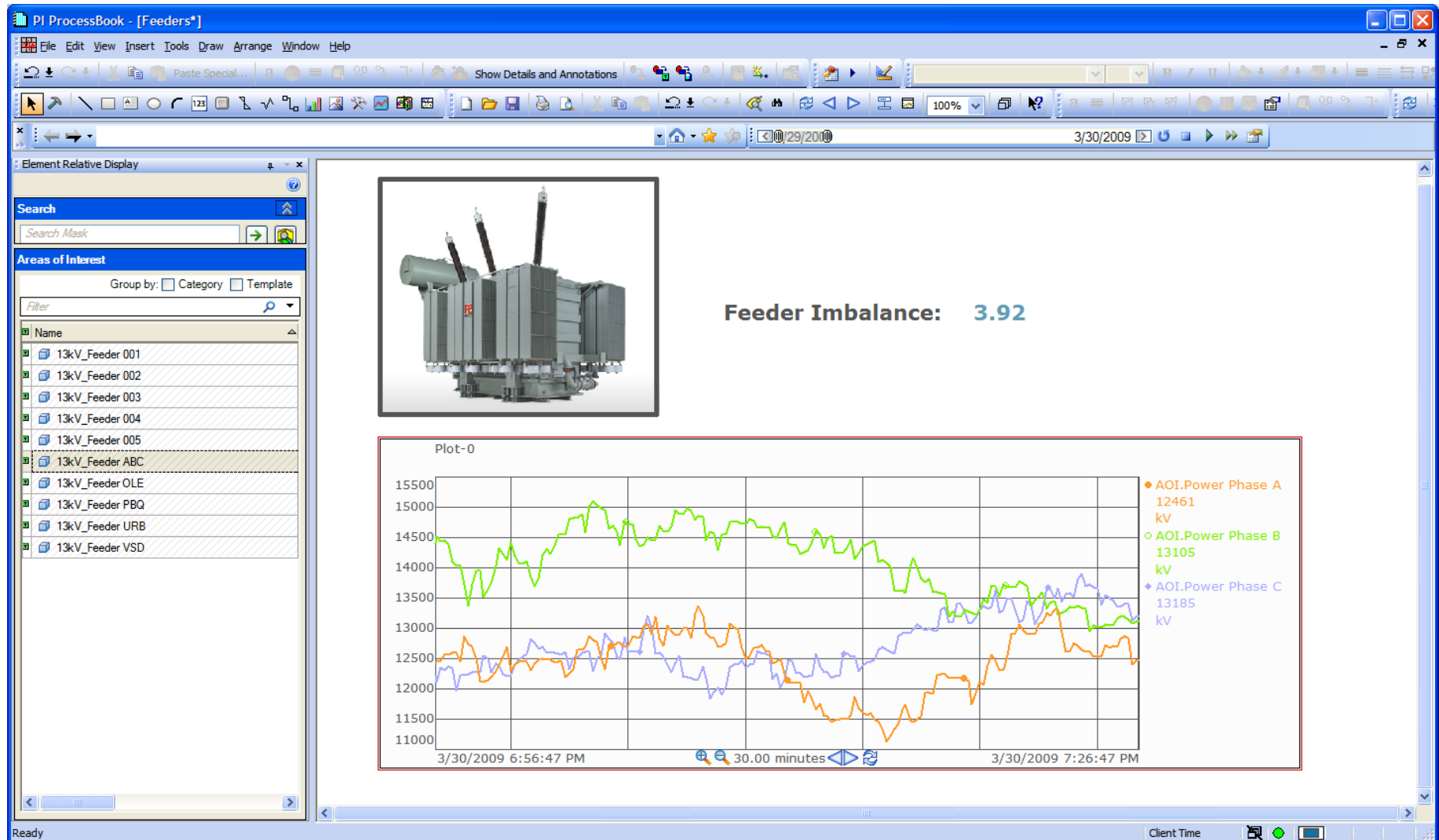
PI SDK
64-Bit



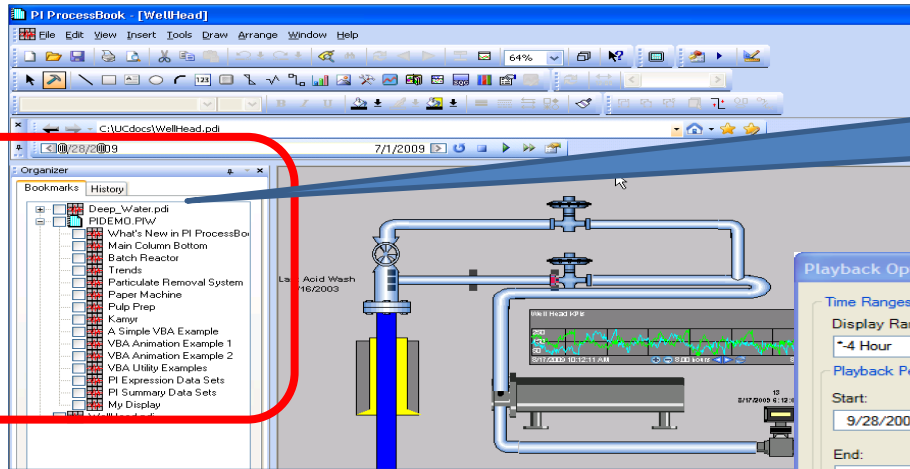
- Easy to build process graphics and data analysis displays
- Collaborate, Share Information, KPIs
- Build and Publish Drill Down Reports
- Integrate with standard off the shelf tools
- Deliver the visual



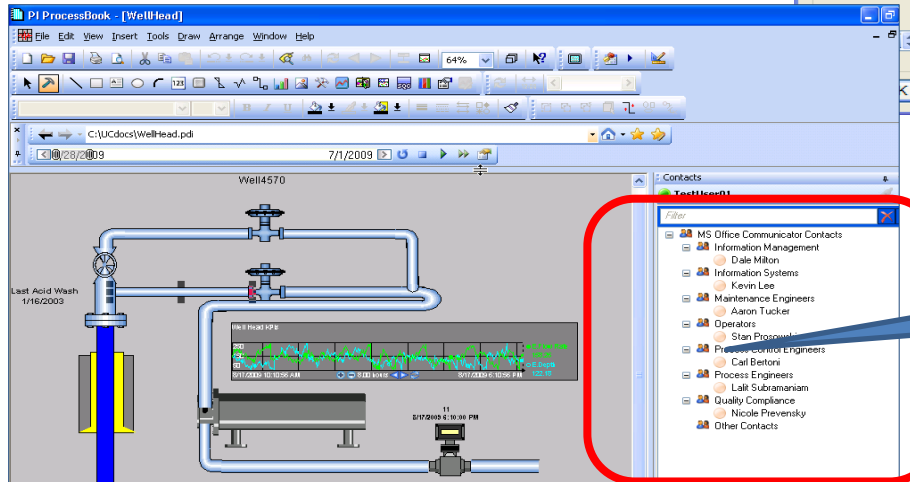
PI ProcessBook 3.2: Element Relative Displays



PI ProcessBook 3.2: Productivity Enhancements



Browsing forward and backwards
Permanent bookmarks of favorites



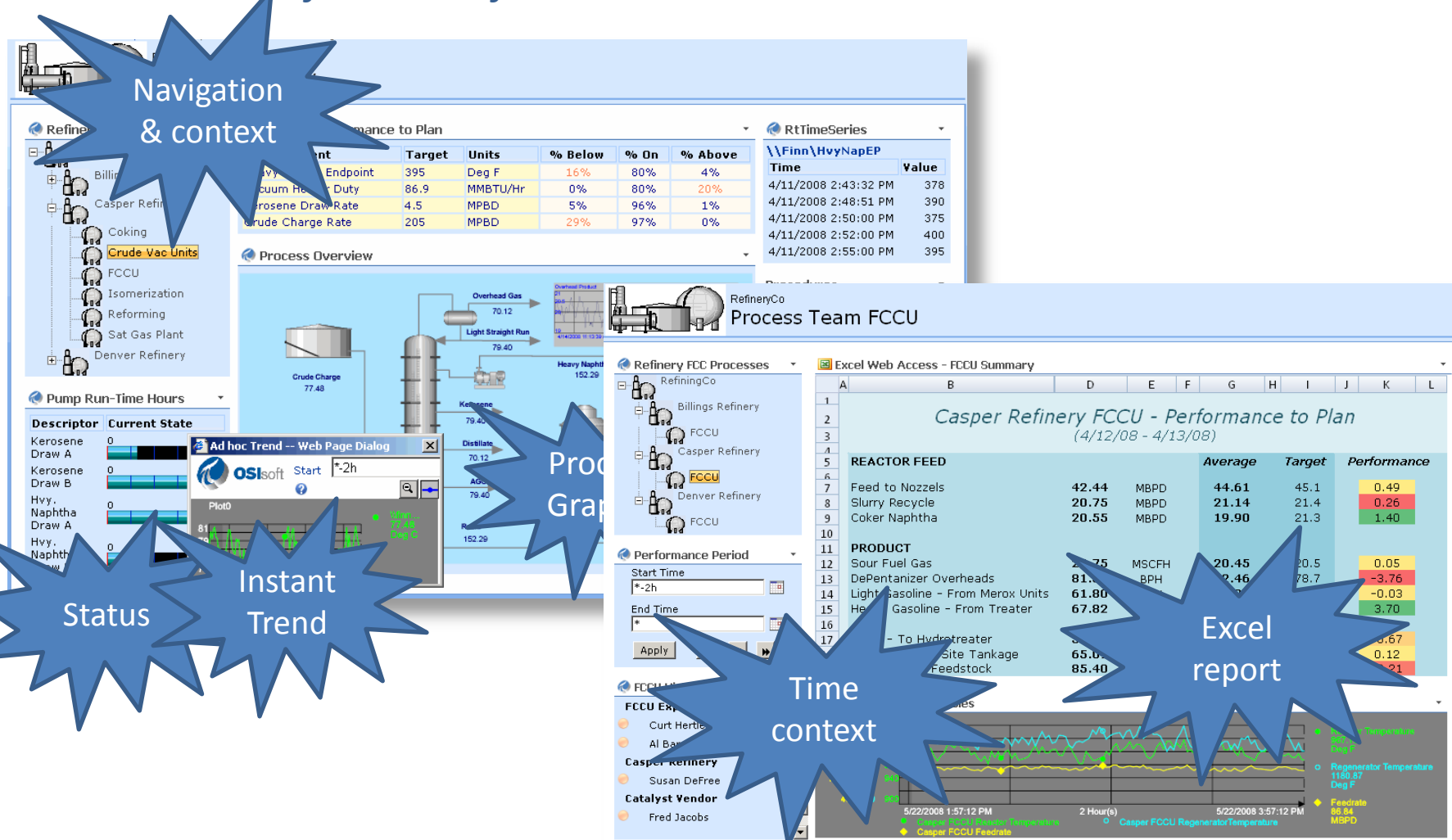
Playback
Troubleshoot problems
by re-playing a display

Communicator
IM, Email Contacts
Easily send a PB
screenshot

Dashboarding on the Corporate Portal



PI WebParts 2010 for Microsoft SharePoint 2010 or 2007



What's New with Visualization in PI System 2010?



Format Reports

Dashboards

Notification Delivery

Scorecards



- Productivity through familiar and intuitive tools
- End users to create their own BI solutions
- Improve sharing and discovery of insights



- Organizational productivity through dashboards
- Visibility into key team and organizational metrics
- Business user efficiency and collaboration



- Cut costs by leveraging existing IT investments
- Scale-out to support BI for all users
- Familiar and intuitive management tools

Product Localization: Eight Languages






- Available now
 - PI ProcessBook
 - PI ActiveView
 - PI WebParts
 - PI SDK
 - PI DataLink
 - In plan
 - PI System Explorer
 - PI Notifications
 - PI Manual Logger
- French
 - German
 - Russian
 - Spanish
 - Korean
 - Japanese
 - Brazilian Portuguese
 - Simplified Chinese









































hallo *bonjour*
привет
iHola
안녕하세요
こんにちは
Olá
你好
saluton

Visualization Releases

11-Oct-2010

 Major release
  Minor release
  Service Pack

[older](#)
[newer](#)

Featured Products	Q2 2009	Q3 2009	Q4 2009	Q1 2010	Q2 2010	Q3 2010	Q4 2010	Q1 2011	Q2 2011 - Q3 2011
CLIENT View more	Q2 2009	Q3 2009	Q4 2009	Q1 2010	Q2 2010	Q3 2010	Q4 2010	Q1 2011	Q2 2011 - Q3 2011
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PI ActiveView									
PI DataLink									
PI DataLink Server									
PI Manual Logger									
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DATA ACCESS View more	Q2 2009	Q3 2009	Q4 2009	Q1 2010	Q2 2010	Q3 2010			Q3 2011
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PI OLEDB									
PI OLEDB Enterprise									
PI OPC DA/HDA Server									
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SERVER View more	Q2 2009	Q3 2009	Q4 2009	Q1 2010	Q2 2010	Q3 2010	Q4 2010	Q1 2011	Q2 2011 - Q3 2011
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PI AF									
PI for StreamInsight									
PI Server									
PI Notifications									
INTERFACES View more Search	Q2 2009	Q3 2009	Q4 2009	Q1 2010	Q2 2010	Q3 2010	Q4 2010	Q1 2011	Q2 2011 - Q3 2011

PI ProcessBook
AF ERDs
Playback

PI Manual Logger
2010
Performance

PI DataLink 2010
Office 2010

PI DL Server 2010
SharePoint 2010

PI WebParts 2010
SharePoint 2010,
AF, 64-Bit

Coming Soon: Enhancements in 4Q2010

Enhancements to Asset Meta-Data
using PI AF

- PI AF Builder - part of PI AF 2010 R2 release
 - Allows you to build or edit AF structure in bulk
 - Uses MS Excel
- PI Notifications 2010
 - String Formatting for Message Body
 - Native 64-Bit support
 - Microsoft Lync Support (new name for Office Communicator)
- Complete AF Attribute Access
 - PI WebParts 2010 R2 - Released in October
 - PI Web Services 2010 R2
- AF Support
 - PI JDBC 2010 R2 (uses PI OLEDB Enterprise)

PI AF Builder - Build AF Hierarchy in Bulk



Book2 - Microsoft Excel

File Home Insert Page Layout Formulas Data Review View Add-Ins PI AF Builder Team

Current AF Connection
 PISystem: SKWANE6400
 Database: AF Demo

Database
 (x) Select All
 () Deselect All

Delete Export
 Library Elements Event Frames

Errors
 About
 Help
 Resources

Connection Export to AF Import from AF

A	B	C	D	E	F	G	H	I
Selected(x)	Parent	Name	ObjectType	Template	Description	Categories	AttributeDataReference	AttributeDefaultUOM
x		Power Plant #1	Element	Plant	Combined cycle power plant			
x	Power Plant #1	Train1	Element	Train	Combined Cycle Power Plant Train			
x	Power Plant #1\Train1	Plant1	Element	Plant	Combined cycle power plant			
x	Power Plant #1\Train1\Plant1	Gas Turbine1	Element	Gas Turbine	Gas Turbine			
x	Power Plant #1\Train1\Plant1\Gas Turbine1	Exit Flow	Attribute		Gas Turbine Exit Flow		PI Point	klb/hr
x	Power Plant #1\Train1\Plant1\Gas Turbine1	Exit Temperature	Attribute		Gas Turbine Exit Temperature		PI Point	°C
x	Power Plant #1\Train1\Plant1\Gas Turbine1	Fuel Gas Flow	Attribute		Gas Turbine Fuel Flow		PI Point	klb/hr
x	Power Plant #1\Train1\Plant1\Gas Turbine1	Inlet Flow	Attribute		Gas Turbine Inlet flow		PI Point	klb/hr
x	Power Plant #1\Train1\Plant1\Gas Turbine1	Inlet Temperature	Attribute		Gas Turbine Inlet Temperature		PI Point	°C
x	Power Plant #1\Train1\Plant1\Gas Turbine1	Power Output	Attribute		Gas Turbine MW Output		PI Point	MW
x	Power Plant #1\Train1\Plant1\Gas Turbine1	Serial Number	Attribute		Gas Turbine Serial Number			
x	Power Plant #1\Train1\Plant1\Gas Turbine1	Pump Type A1	Element	Pump Type A	Pump Type A Template	Pumps;		
x	Power Plant #1\Train1\Plant1\Gas Turbine1\Pump Type A1	Pump Casing Temperature	Attribute		Temperature of the pump casing		PI Point	°F
x	Power Plant #1\Train1\Plant1\Gas Turbine1\Pump Type A1	Pump Serial Number	Attribute		Serial Number for the pump			
x	Power Plant #1\Train1\Plant1\Gas Turbine1	Pump Type A2	Element	Pump Type A	Pump Type A Template	Pumps;		
x	Power Plant #1\Train1\Plant1\Gas Turbine1\Pump Type A2	Pump Casing Temperature	Attribute		Temperature of the pump casing		PI Point	°F
x	Power Plant #1\Train1\Plant1\Gas Turbine1\Pump Type A2	Pump Serial Number	Attribute		Serial Number for the pump			
x	Power Plant #1\Train1\Plant1	Gas Turbine2	Element	Gas Turbine	Gas Turbine			
x	Power Plant #1\Train1\Plant1\Gas Turbine2	Exit Flow	Attribute		Gas Turbine Exit Flow		PI Point	klb/hr
x	Power Plant #1\Train1\Plant1\Gas Turbine2	Exit Temperature	Attribute		Gas Turbine Exit Temperature		PI Point	°C
x	Power Plant #1\Train1\Plant1\Gas Turbine2	Fuel Gas Flow	Attribute		Gas Turbine Fuel Flow		PI Point	klb/hr
x	Power Plant #1\Train1\Plant1\Gas Turbine2	Inlet Flow	Attribute		Gas Turbine Inlet flow		PI Point	klb/hr
x	Power Plant #1\Train1\Plant1\Gas Turbine2	Inlet Temperature	Attribute		Gas Turbine Inlet Temperature		PI Point	°C
x	Power Plant #1\Train1\Plant1\Gas Turbine2	Power Output	Attribute		Gas Turbine MW Output		PI Point	MW
x	Power Plant #1\Train1\Plant1\Gas Turbine2	Serial Number	Attribute		Gas Turbine Serial Number			
x	Power Plant #1\Train1\Plant1\Gas Turbine2	Pump Type A1	Element	Pump Type A	Pump Type A Template	Pumps;		
x	Power Plant #1\Train1\Plant1\Gas Turbine2\Pump Type A1	Pump Casing Temperature	Attribute		Temperature of the pump casing		PI Point	°F
x	Power Plant #1\Train1\Plant1\Gas Turbine2\Pump Type A1	Pump Serial Number	Attribute		Serial Number for the pump			
x	Power Plant #1\Train1\Plant1\Gas Turbine2	Pump Type A2	Element	Pump Type A	Pump Type A Template	Pumps;		
x	Power Plant #1\Train1\Plant1\Gas Turbine2\Pump Type A2	Pump Casing Temperature	Attribute		Temperature of the pump casing		PI Point	°F
x	Power Plant #1\Train1\Plant1\Gas Turbine2\Pump Type A2	Pump Serial Number	Attribute		Serial Number for the pump			

Sheet1 Sheet2 Sheet3

PI AF Builder - Configure AF Attributes



Book2 - Microsoft Excel

File Home Insert Page Layout Formulas Data Review View Add-Ins PI PI AF Builder Team

Current AF Connection
 PISystem: SKWANE6400
 Database: AF Demo

Database
 Headers
 (x) Select All
 () Deselect All
 Delete Export
 Library Elements Event Frames
 Import from AF
 Errors
 About
 Help
 Resources

Parent

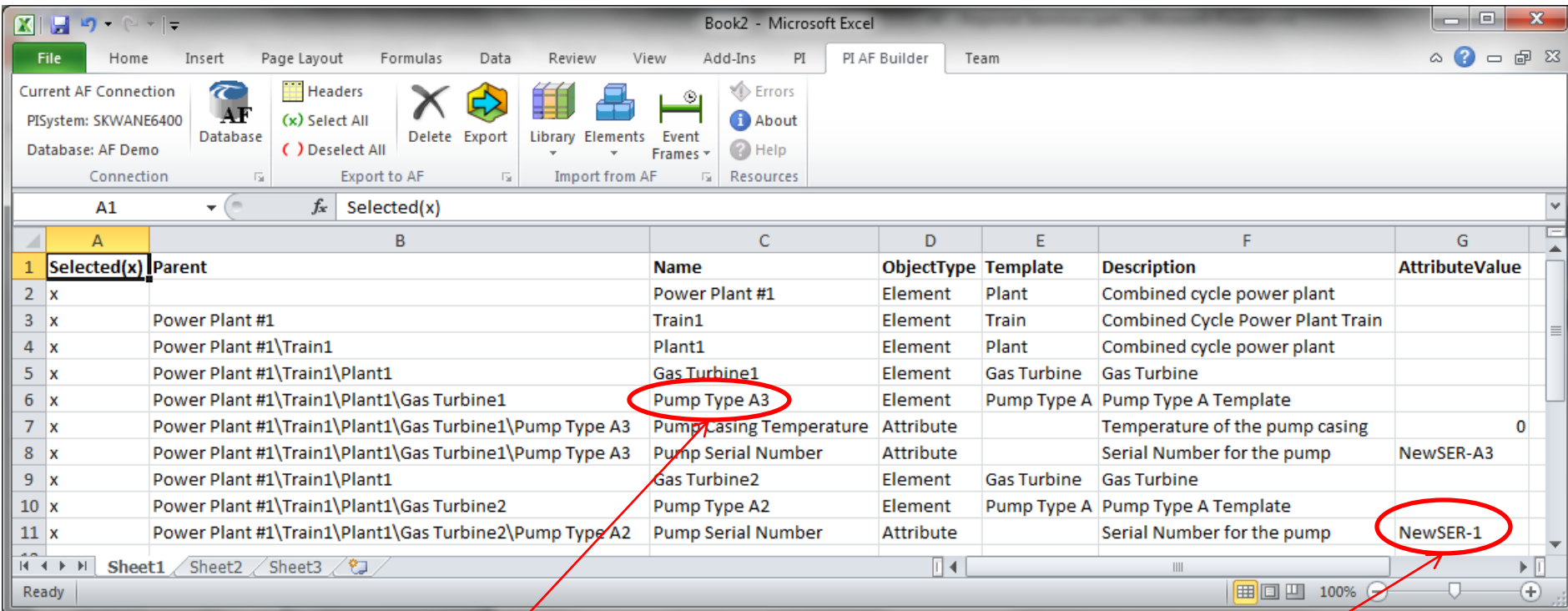
	A	B	C	D	E	F	G	H	I
	Selected(x)	Parent	Name	ObjectType	Template	Description	Categories	Serial Number	Pump Serial Number
2	x		Power Plant #1	Element	Plant	Combined cycle power plant			
3	x	Power Plant #1	Train1	Element	Train	Combined Cycle Power Plant Train			
4	x	Power Plant #1\Train1	Plant1	Element	Plant	Combined cycle power plant			
5	x	Power Plant #1\Train1\Plant1	Gas Turbine1	Element	Gas Turbine	Gas Turbine		GT505-A	
6	x	Power Plant #1\Train1\Plant1\Gas Turbine1	Pump Type A1	Element	Pump Type A	Pump Type A Template	Pumps;		T1-197
7	x	Power Plant #1\Train1\Plant1\Gas Turbine1	Pump Type A2	Element	Pump Type A	Pump Type A Template	Pumps;		T1-198
8	x	Power Plant #1\Train1\Plant1	Gas Turbine2	Element	Gas Turbine	Gas Turbine		GT505-B	
9	x	Power Plant #1\Train1\Plant1\Gas Turbine2	Pump Type A1	Element	Pump Type A	Pump Type A Template	Pumps;		T1-199
10	x	Power Plant #1\Train1\Plant1\Gas Turbine2	Pump Type A2	Element	Pump Type A	Pump Type A Template	Pumps;		T1-200
11									
12									

Sheet1 Sheet2 Sheet3

Ready

100%

PI AF Builder - add / replace



Book2 - Microsoft Excel

File Home Insert Page Layout Formulas Data Review View Add-Ins PI PI AF Builder Team

Current AF Connection
PISystem: SKWANE6400
Database: AF Demo

Database

Headers
(x) Select All
() Deselect All

Delete Export

Library Elements Event Frames

Errors
About
Help
Resources

Export to AF Import from AF

A1 Selected(x)

	A	B	C	D	E	F	G
1	Selected(x)	Parent	Name	ObjectType	Template	Description	AttributeValue
2	x		Power Plant #1	Element	Plant	Combined cycle power plant	
3	x	Power Plant #1	Train1	Element	Train	Combined Cycle Power Plant Train	
4	x	Power Plant #1\Train1	Plant1	Element	Plant	Combined cycle power plant	
5	x	Power Plant #1\Train1\Plant1	Gas Turbine1	Element	Gas Turbine	Gas Turbine	
6	x	Power Plant #1\Train1\Plant1\Gas Turbine1	Pump Type A3	Element	Pump Type A	Pump Type A Template	
7	x	Power Plant #1\Train1\Plant1\Gas Turbine1\Pump Type A3	Pump Casing Temperature	Attribute		Temperature of the pump casing	0
8	x	Power Plant #1\Train1\Plant1\Gas Turbine1\Pump Type A3	Pump Serial Number	Attribute		Serial Number for the pump	NewSER-A3
9	x	Power Plant #1\Train1\Plant1	Gas Turbine2	Element	Gas Turbine	Gas Turbine	
10	x	Power Plant #1\Train1\Plant1\Gas Turbine2	Pump Type A2	Element	Pump Type A	Pump Type A Template	
11	x	Power Plant #1\Train1\Plant1\Gas Turbine2\Pump Type A2	Pump Serial Number	Attribute		Serial Number for the pump	NewSER-1

Sheet1 Sheet2 Sheet3

Ready

Adding a new pump

Changing an attribute value

- **Message Formatting**
 - More control over the appearance of the subject and body
- **Performance**
 - **History retrieval** is improved by an order of magnitude
 - Native 64-bit operating system support
- **Internationalization**



PI Notifications 2010: Message Format



Subject

Alert on element [Target]

Attachments

Body

Warning: [Triggering Condition:Triggering Condition]

[Attribute1:Name]: [Attribute1:Value] [Attribute1:UOM] ([Attribute1:TimeStamp])

Free-form composition of
subject and body

Content is substituted
when alert is triggered

This message was sent with High importance.

From: dthompson@osisoft.com Sent: Mon 7-Jun-10 9:09 AM

To: David Moler

Cc:

Subject: Alert on element \\\PIANODEMO\Demo1.2\Demo 01

Warning: Attribute1 has exceeded target:

Attribute1: 11 (7-Jun-10 9:08:40 AM)

PI Notifications 2010 - MS Lync

Tuscon heater H-393 OVER LIMIT: 38.72 scf/h for gas utilizati...

PI Notifications - Available

IM Call Video Share

PI Notifications 5:22 PM

- The Tuscon plant milling process heater H-393 has a gas utilization **over limit** at 38.72 scf/h

Trigger Time: 10/13/2010 5:22:14 PM Pacific Daylight Time (GMT-07:00:00)
Triggering Condition: Fuel Gas Flow > UpperAlarmLimit
Fuel Gas Flow: 38.72 scf/h
UpperAlarmLimit: 25 scf/h

Link:
[Instant PI WebParts Trend](#)

Actions:
[Acknowledge](#)
[Acknowledge With Comment](#)

Last message received on 10/13/2010 at 5:22 PM.

PI Notifications

Tuscon heater H-393 OVER LIMIT: 38.72 s...

Redirect Ignore

PI System Roadmap - 4Q 2010 AF Wave



11-Oct-2010

Major release Minor release Service Pack

◀ older newer ▶

Featured Products		Q4 2009	Q1 2010	Q2 2010	Q3 2010	Q4 2010	Q1 2011	Q2 2011 - Q3 2011	Q4 2011 - Q1 2012
CLIENT View more				Q2 2010	Q3 2010	Q4 2010	Q1 2011	Q2 2011 - Q3 2011	Q4 2011 - Q1 2012
PI ProcessBook									
PI ActiveView									
PI DataLink									
PI DataLink Server									
PI Manual Logger									
PI WebParts									
DATA ACCESS View more				Q2 2010	Q3 2010	Q4 2010	Q1 2011	Q2 2011 - Q3 2011	Q4 2011 - Q1 2012
PI JDBC									
PI ODBC									
PI OLEDB									
PI OLEDB Enterprise									
PI OPC DA/HDA Server									
PI SDK									
PI Web Services									
SERVER View more					Q3 2010	Q4 2010	Q1 2011	Q2 2011 - Q3 2011	Q4 2011 - Q1 2012
PI ACE									
PI AF									
PI for StreamInsight									
PI Server									
PI Notifications									
INTERFACES View more Search		Q4 2009	Q1 2010	Q2 2010	Q3 2010	Q4 2010	Q1 2011	Q2 2011 - Q3 2011	Q4 2011 - Q1 2012

PI WebParts 2010 R2
Complete AF
Attribute Access

PI JDBC 2010 R2
Full Asset (AF) Support

PI Web Services 2010 R2
Complete AF Attribute
Access

PI AF 2010 R2
AF Builder

PI Notifications 2010
Message Formatting,
64-Bit, MS Lync

PI WebParts 2010 R2
Complete AF
Attribute Access

PI JDBC 2010 R2
Full Asset (AF) Support

PI Web Services 2010 R2
Complete AF Attribute
Access

PI AF 2010 R2
AF Builder

PI Notifications 2010
Message Formatting,
64-Bit, MS Lync

Coming Soon: Enhancements in 1H 2011

Improved Analytics

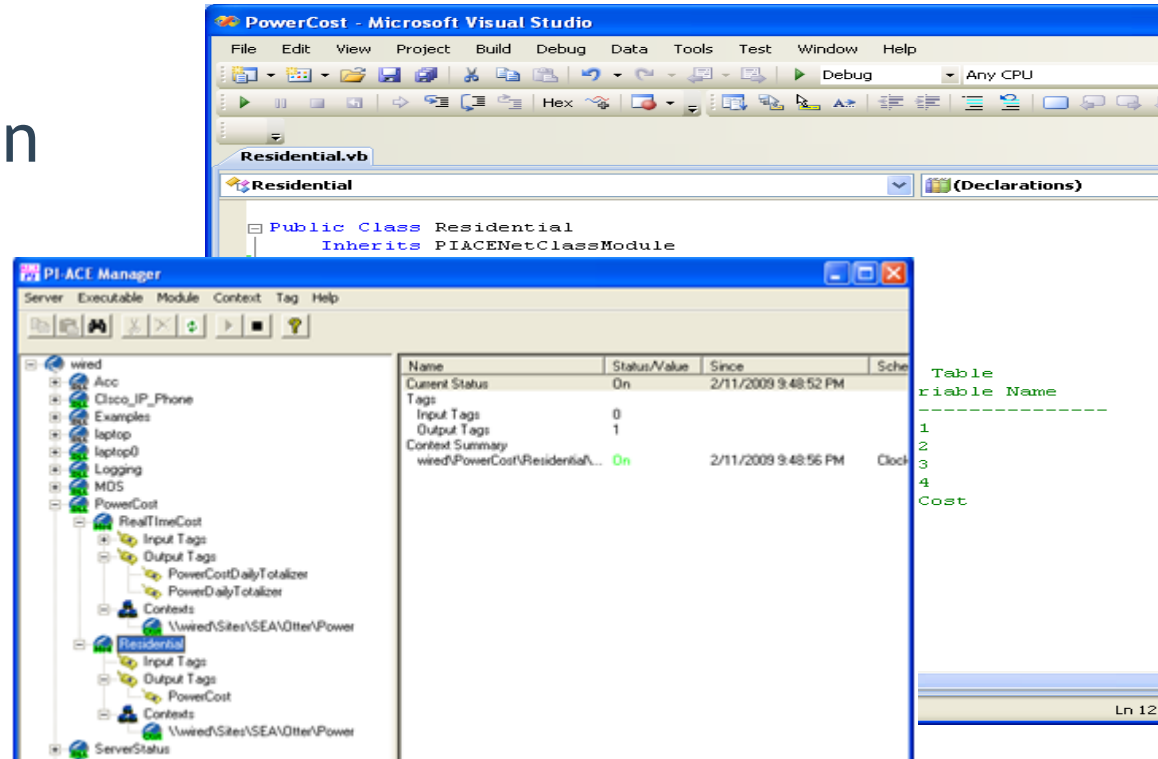
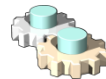
- Visual Studio add-in
 - develop

- Manager client

- configure

- Scheduler

- execute



- Scheduled to be released early 2011

- Multiple Schedulers



ACE Scheduler 1 ACE Scheduler N

- Performance Improvements
 - Components re-written in .NET



- Visual Studio 2010 support



- Native 64-bit operating system support

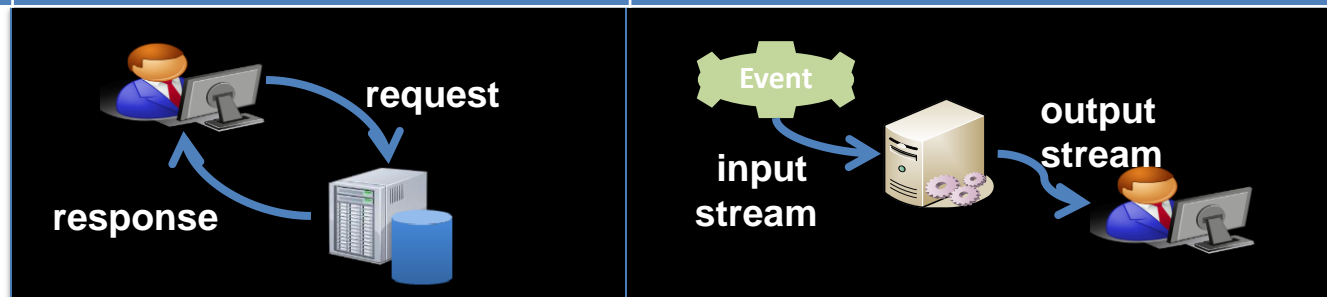


The Need for Event-Driven Analytics



Analytics need to be calculated in real time

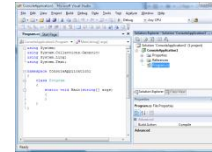
	Database Applications	Event-driven Applications
Query Paradigm	Ad-hoc queries or requests	Continuous standing queries
Latency	Seconds, hours, days	Milliseconds or less
Data Rate	Hundreds of events/sec	Tens of thousands of events/sec or more
Query Semantics	Declarative relational analytics	Declarative relational <i>and temporal</i> analytics



PI System and StreamInsight Platform



StreamInsight Application Development



.NET
C#
LINQ

StreamInsight Application at Runtime



Event sources



PI Server



Stock ticker, news feeds



PI Interface (future)

Input
Adapters

StreamInsight Engine

Output
Adapters

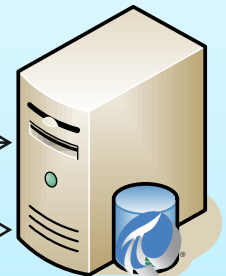
Standing Queries

Query
Logic

Query
Logic

Query
Logic

Event targets



PI Server

Pagers,
Mobile



Trading stations

PI for StreamInsight – 1Q 2011

PI System Roadmap - upcoming releases



11-Oct-2010

Major release Minor release Service Pack

◀ older newer ▶

Featured Products	Q4 2009	Q1 2010	Q2 2010	Q3 2010	Q4 2010	Q1 2011	Q2 2011 - Q3 2011	Q4 2011 - Q1 2012
CLIENT View more	Q4 2009	Q1 2010	Q2 2010	Q3 2010	Q4 2010	Q1 2011	Q2 2011 - Q3 2011	Q4 2011 - Q1 2012
PI ProcessBook								
PI ActiveView								
PI DataLink								
PI DataLink Server								
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PI SDK								
PI Web Services								
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PI ACE								
PI AF								
PI for StreamInsight								
PI Server								
PI Notifications								
INTERFACES View more Search	Q4 2009	Q1 2010	Q2 2010	Q3 2010	Q4 2010	Q1 2011	Q2 2011 - Q3 2011	Q4 2011 - Q1 2012

PI SDK 2011
Enhanced HA
Support

PI ACE 2011
Scalability,
Performance, 64-bit

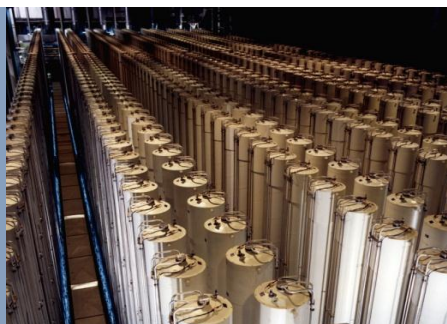
PI for StreamInsight
2011
1st Release

2009-2010 Themes



Security

- ✓ Windows Security
- ✓ Single Sign On



Asset Centric PI

- ✓ ProcessBook
- ✓ WebParts
- ✓ Notifications
- ✓ OLEDB Enterp.
- ✓ Web Services



Localization

- ✓ 8 languages
- ✓ 5 products
- ✓ 3 planned



Scaling, 64-bit

- ✓ Servers
- ✓ Notifications
- ✓ ACE
- ✓ Data Access
- ✓ Web Clients

- See PI System Roadmap on OSIsoft Technical Support

<http://techsupport.osisoft.com/techsupport/NonTemplates/roadmap.aspx>



Thank you

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