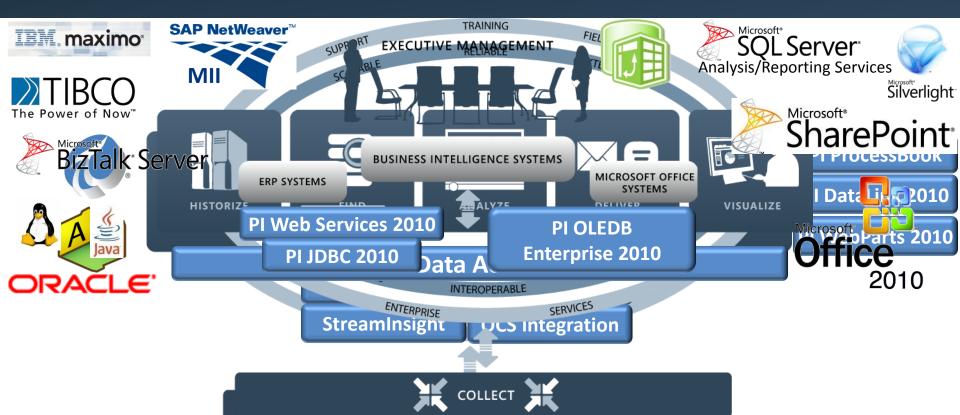




AF and Analytics





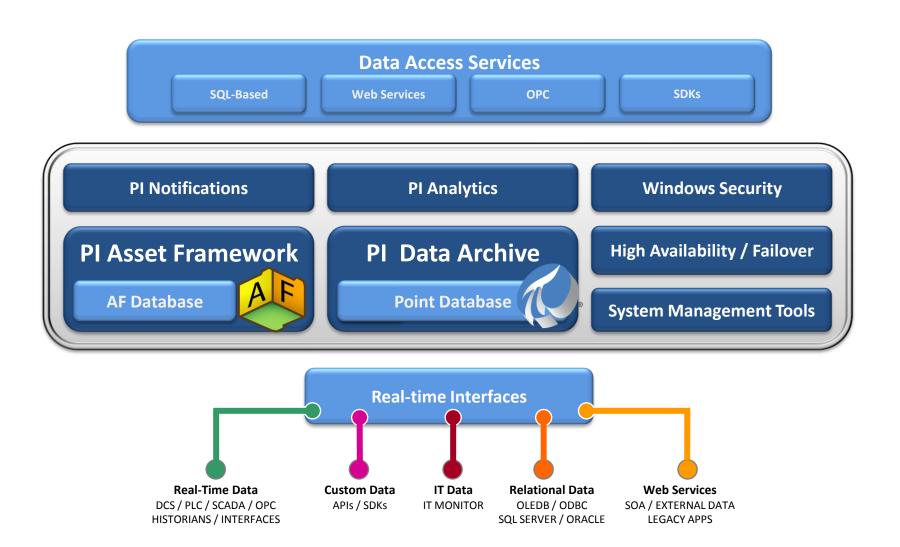
All Released PI
Client and Server
Products





PI Server 2010





PI Server 2010: tags + assets









Scalability

Templates, Models, etc.

Millions of assets

Usability

Unified Data Access

Search

Flexible security

Reliability

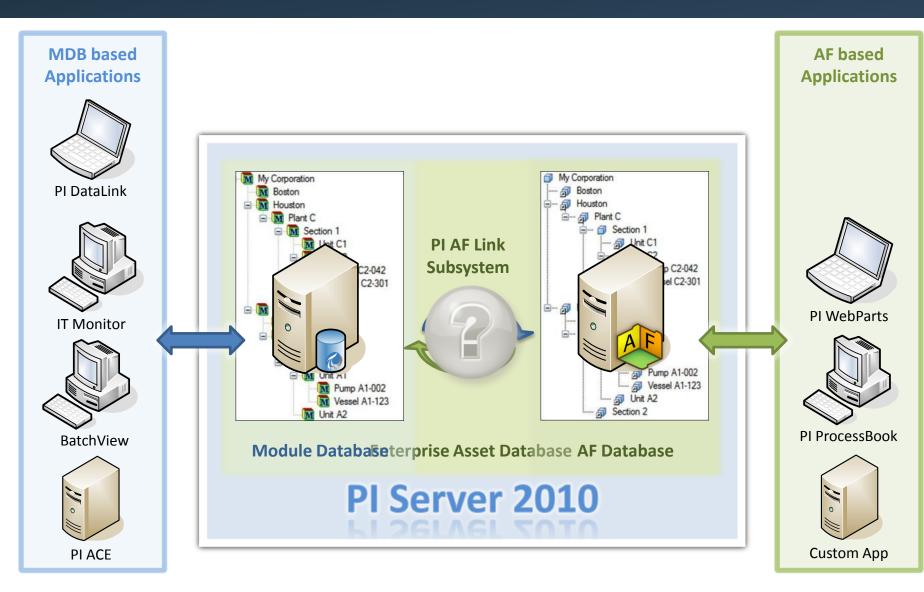
HA Solutions

Windows Security

Preserve Your Investment: Displays, Calcs, Apps

Mixed Applications





Upgrade Steps



- 1. Install or Access SQL Server
- 2. Install AF Server 2010
- 3. Prepare your Module Database
- 4. Upgrade to PI Server 2010
- 5. Enjoy AF! (MDB still available)



PI AF and MDB



- PI AF is now the system-of-record for MDB
- PI AF 2010 Enhanced to support demands of two-way multithreaded synchronization with MDB
- You should develop new asset-based applications using PI AF (AF SDK, PI OLEDB Enterprise, PI Web Services)
- OSIsoft will maintain support for MDB applications
 - PLACE
 - PI Batch
 - Your Applications

Translate MDB paths to PI AF



 Use OSIsoft.PB.MDB2AFPath Assembly Installed into the GAC with PI ProcessBook 3.2 and PI WebParts 2010.

MDB Path Format:

\\piserver\module | \\piserver\module | property

AF Path Format:

\\afserver\database\element \\afserver\database\element|attribute

Uses AF Element established by the PI 2010 AF Link sub-system

ns

Add PI AF capabilities to your Applications

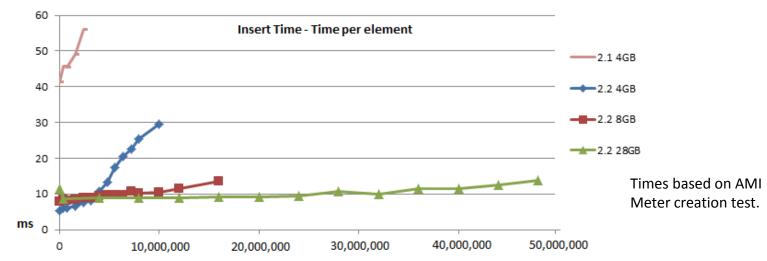
- Find / Search
- Bulk Operations
- Notifications
- Templates
- Relational Data
- Custom data sources

- Units of Measure
- GUI Components
- Relationships and Modeling
- Import / Export

PI AF Performance & Scalability



- Element Creation
 - 10x increase in element creation performance
 - 10x improvement in element scalability



Support for roughly 10 million* templated elements

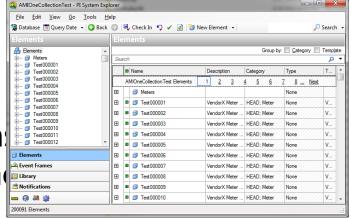
(* can vary significantly based on element structure and use)

Large Collections



- Paging of Collections
 - Support for large element collections

 Improved behavior for applications processes/threads add to the same



Manageability

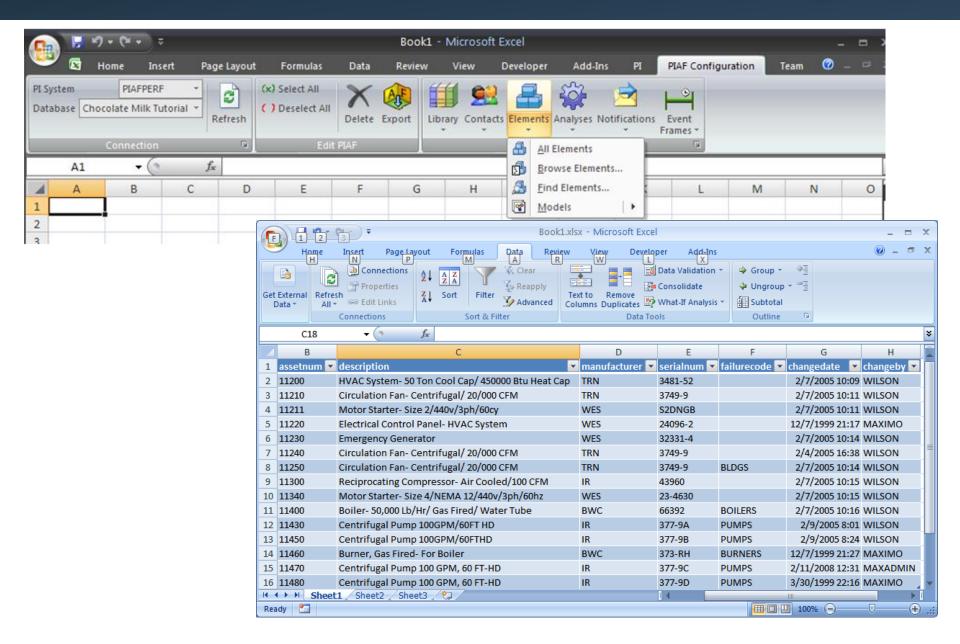


AF Builder for Excel allows creation or modification of:

- Elements
- Templates
- Categories
- Enumeration Sets
- Notifications
- Analyses
- Event Frames

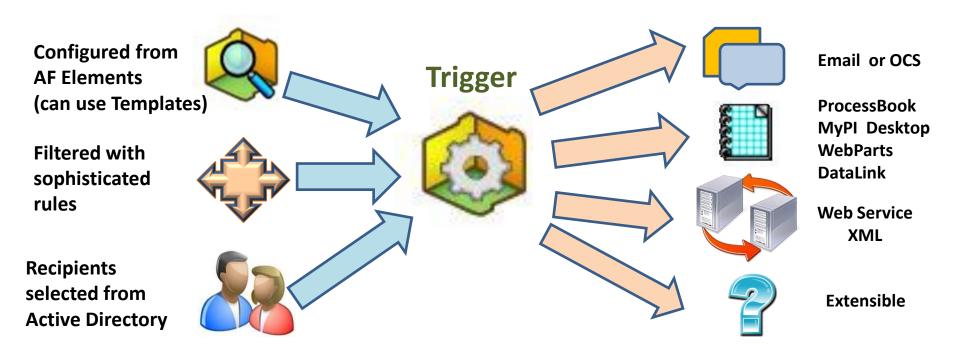
AF Builder for Excel





PI Notifications





Features

- Templates
- Custom Content
- Acknowledgement and Escalation

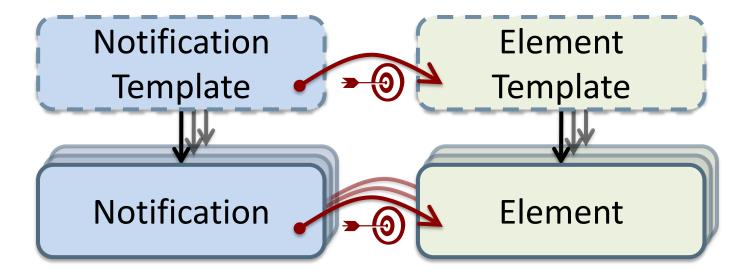
Delivery Channels

- User can create their own
- OSIsoft vCampus XML & Skype

PI Notifications Templates



Enable rapid and automatic creation of maintainable notifications



What's Coming in PI Notifications 2010?



Message Formatting

 Control appearance of subject and body

Performance

- History retrieval is improved by an order of magnitude
- Native 64-bit operating system support
- Internationalization

Subject:	High temp for server	\\PIANODEMO\DM3\SL03-Database1 in Rack 23	
Server \\PIANODEMO\DM3\SL03-Database1 CPU exceeds temperature limit.			
Trigger	Attribute	Value	
CPU Tei	mp	72 °C	
System Temperature		62 °C	
			•



Office Communication Server 2007 R2

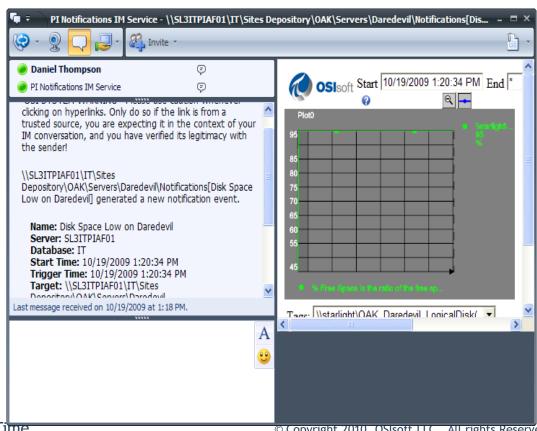


- Native Delivery Channel
- Supports presence and Instant Messaging (IM)
- Applications for phones

Windows Mobile

BlackBerry

iPhone



PI Analytics 2010 - Future Releases



PI ACE 2010



PI for StreamInsight



ACE 2010 Enhancements Overview



Multiple Schedulers





- Performance Improvements
 - Components re-written in .NET



Visual Studio 2010 support



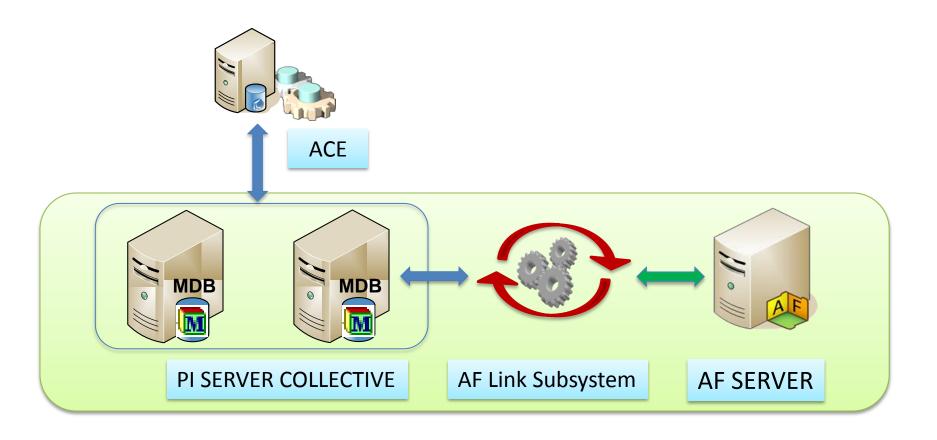
Native 64-bit operating system support



ACE and Asset Framework (AF)



- PI Server 2010 enables MDB to AF link and synchronization



PI for StreamInsight

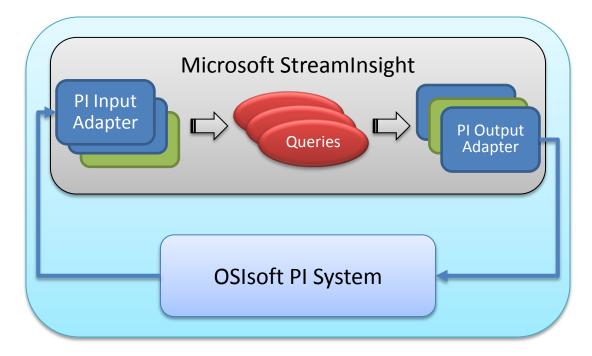


Data Access to the PI System for Microsoft StreamInsight

Developers can create applications with StreamInsight using

PI data

 Natural query language (LINQ)



What is Microsoft StreamInsight™



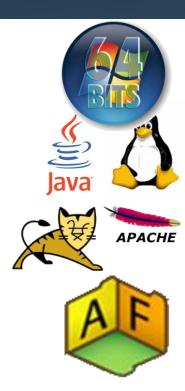
 StreamInsight is the Microsoft implementation of Complex Event Processing (CEP)

- What is CEP?
 - CEP is all about the ability to compute interesting patterns for events over multiple data sources
- How does StreamInsight work?
 - Developer creates queries based on business requirements
 - Queries are loaded by StreamInsight
 - Queries are executed based on time windows
 - Queries are applied to the data stream received during that period

SQL Family - What's New

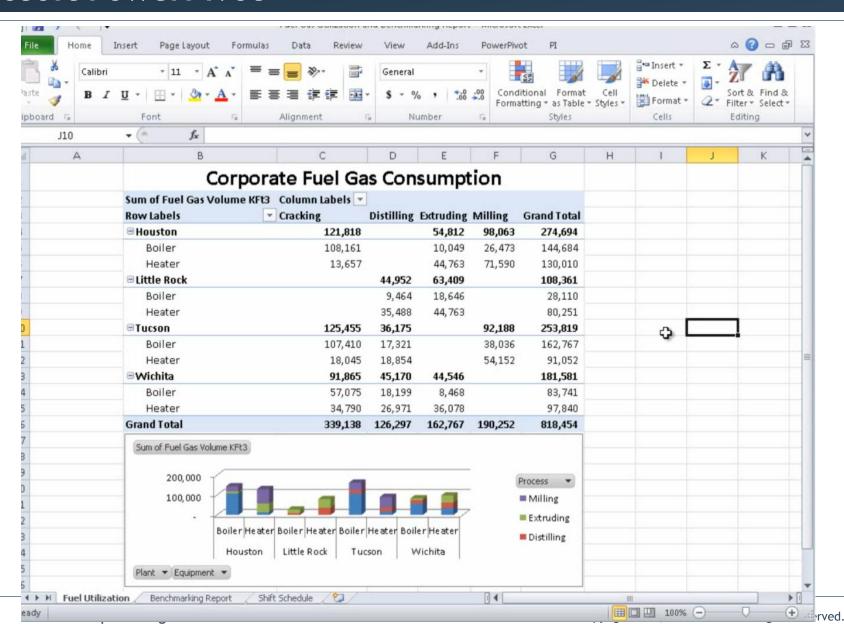


- PI OLEDB 64-bit
- PI JDBC 2010
 - Bring data to the Java world
- PI OLEDB Enterprise 2010
 - Brand new product
 - Access to AF via SQL
 - Supports custom applications and many integration scenarios
 - PI WebParts
 - PowerPivot in Excel
 - SQL Server (Reporting/Analysis Services)



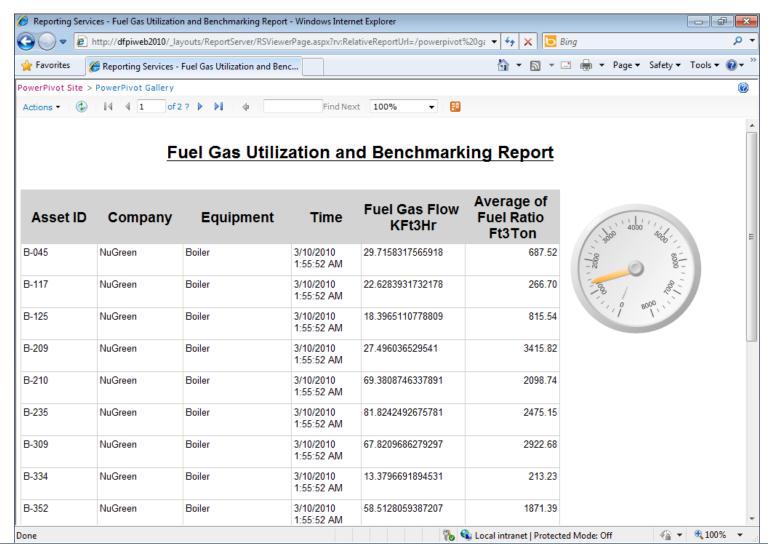
PI OLEDB Enterprise in Microsoft PowerPivot





PI OLEDB Enterprise in SQL Server Reporting Services





OSIsoft SDKs - What's New



- Windows Integrated Security
 - PI SDK 1.3.6
- 64-bit
 - PI SDK 1.3.8
 - AF SDK 2.1
- Client-Side Buffering
 - PI SDK 2010 (coming)

