

OSIsoft®

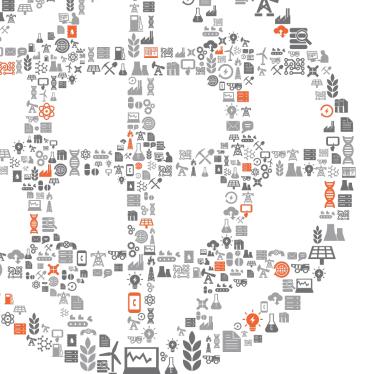
ISERS CONFERENCE 64

The Power of Data CHANGE

THRIVING

IN A

WORLD OF



Deliver PI Data to Your Apps and **Enterprise Systems**

Presented by Michelle Kuiee

Business Challenges

Disparate systems

- Acquired independently, over time
- Different departments/units

Domain, industry, or user-specific needs

PI System is an infrastructure

Many different targets

- Diverse types of workers
- Different platforms, media

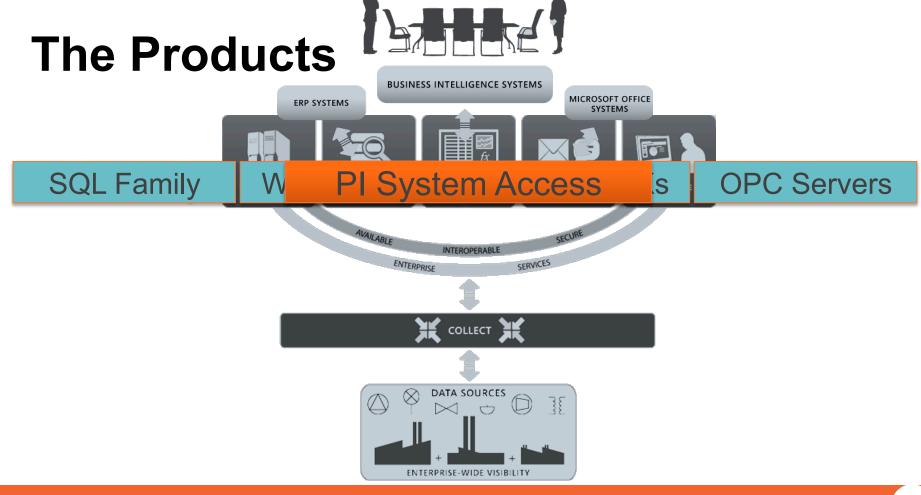
A few use cases, some ideas

- LoB Systems/Databases
- Orchestration/Workflows
- Web/Non-Windows Platforms
- Analysis/BI/Reporting
- Custom Applications



Custom Downtime Analysis Engine

Automated Ordering to Suppliers



PI System Access Themes for 2012

Asset based PI

Event Frames



The SQL Family

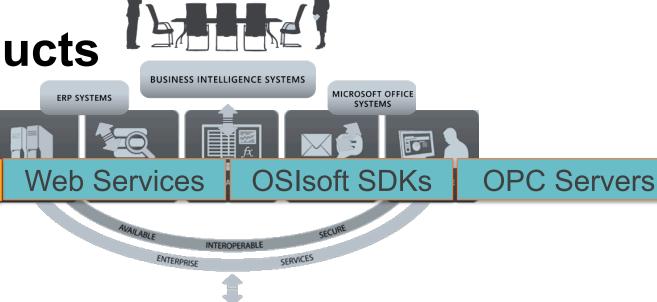
- Set of drivers that expose PI System data in a relational database view (OLE DB, JDBC, ODBC)
- Database systems integration, analysis, BI, reporting, Linux

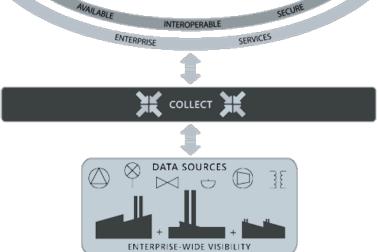




The Products

SQL Family

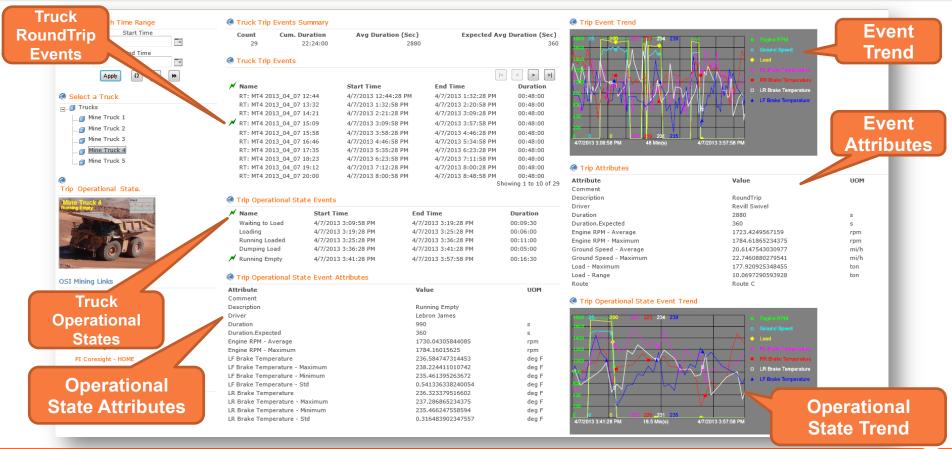






PI WebParts + PI OLEDB Enterprise 2012 - RoundTrips

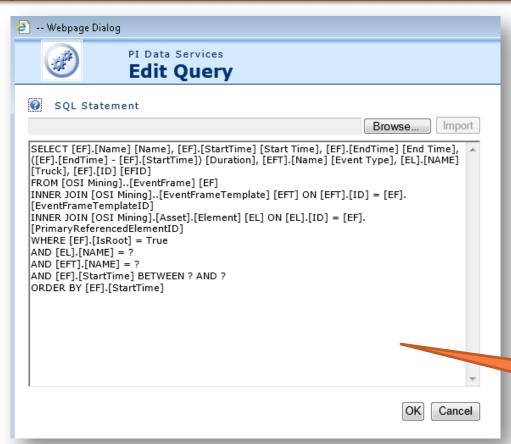






PI WebParts + PI OLEDB Enterprise 2012 - RoundTrips



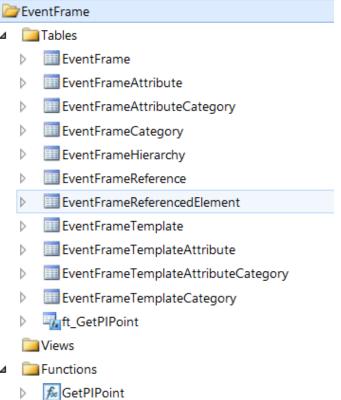


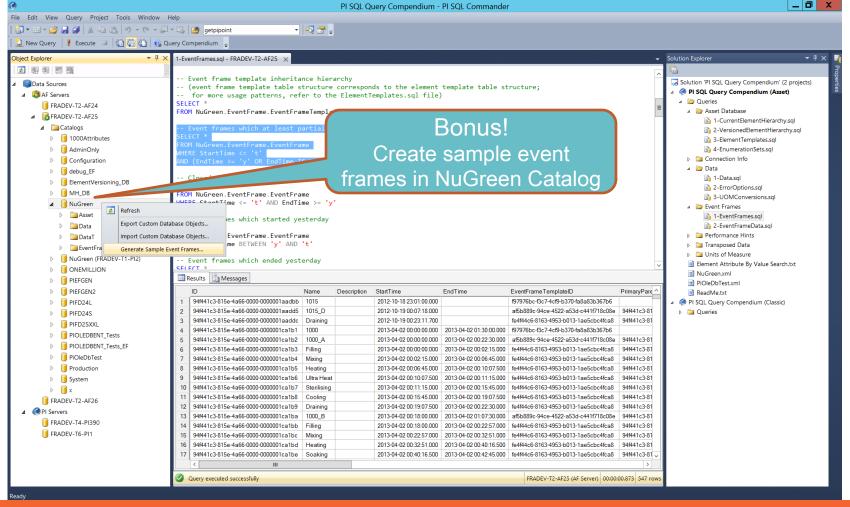


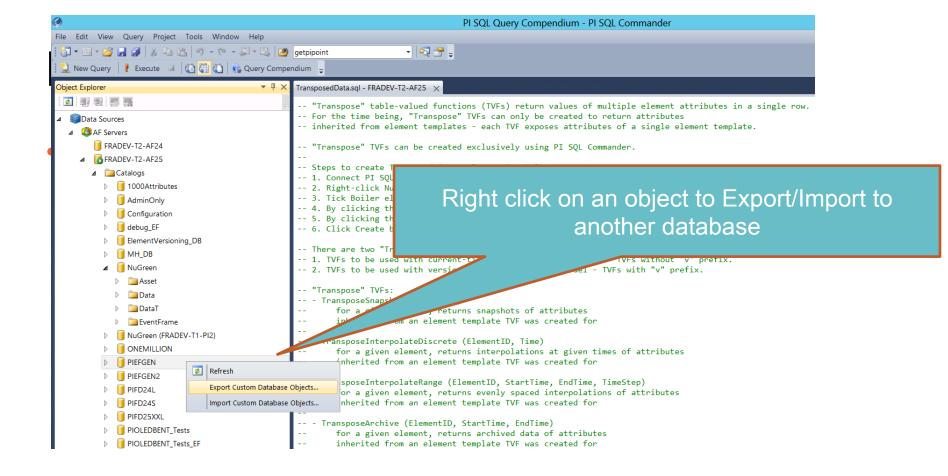
No Black Magic ... simple PI OLEDB **Enterprise Query**

PI OLEDB Enterprise 2012

- Read Event Frames
 - New catalog

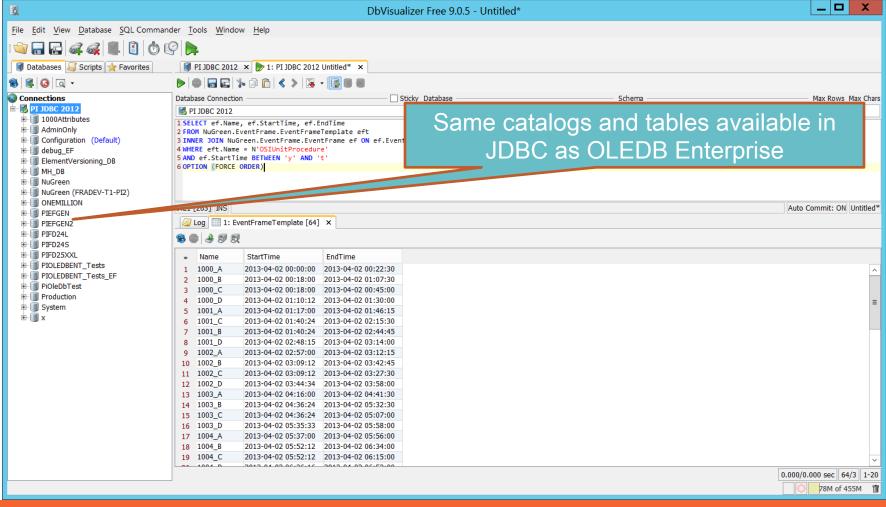






PI JDBC 2012

- Now also runs on Java Runtime Environment 7
- Support new features of PI OLEDB Enterprise 2012 (e.g. Event Frames)
- Enhanced to support SAP EventInsight
- Removed dependency on .NET 4.0



The Products

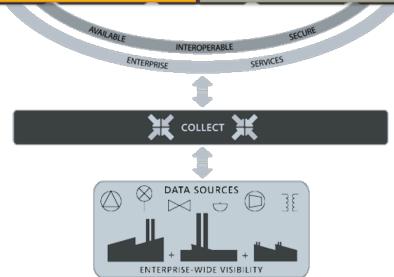


SQL Family

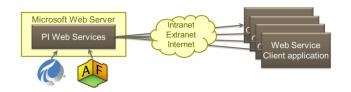
Web Services

OSIsoft SDKs

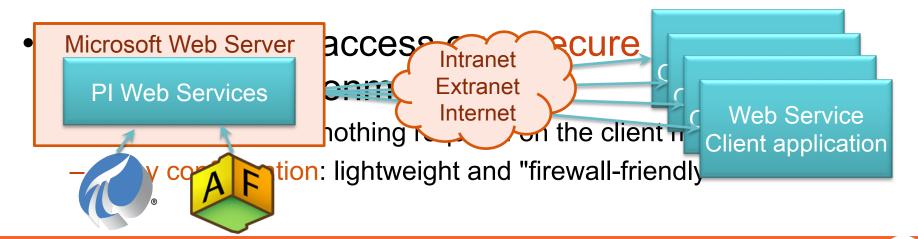
OPC Servers



PI Web Services



 Access to PI System data using standard web service technologies

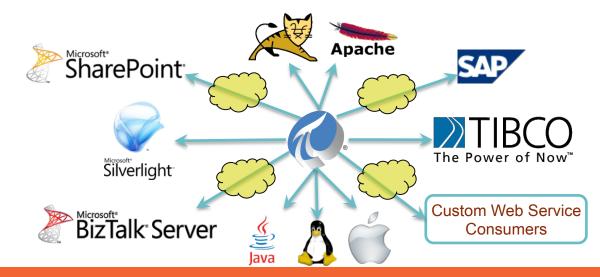


Use Cases

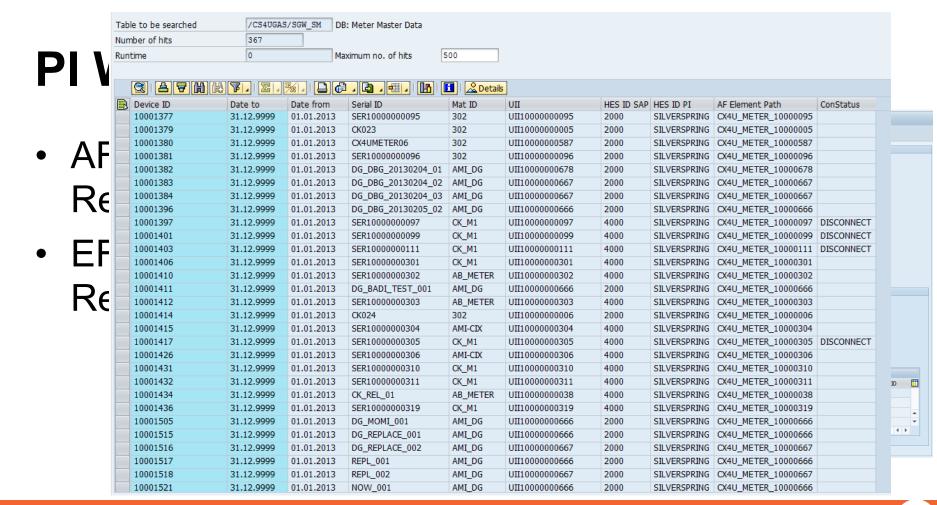
Web-based visualization

Integration with business systems

Non-Windows environments







The Products ERP SYSTEMS

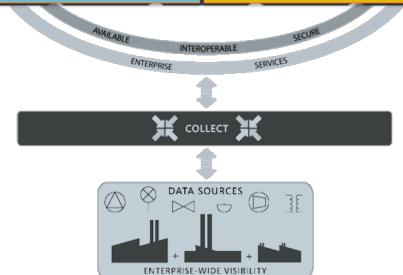


SQL Family

Web Services

OSIsoft SDKs

OPC Servers



AF SDK 2012 - Enhancements

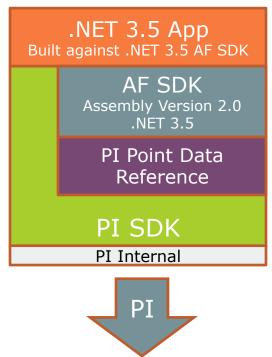
- Retrieve time series data from the PI Server
 - Rich Data Access (RDA)

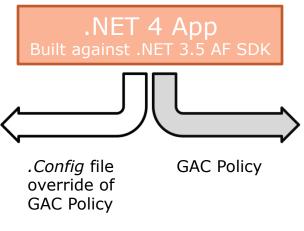


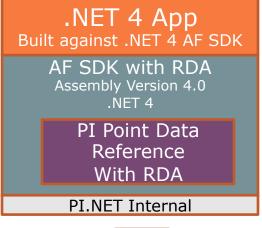
AF SDK 2.4

&

AF SDK 2012









AF SDK 2012 - Benefits

- Access all PI data with one SDK
 - Simplify application development
- Smaller Memory Footprint and Larger Scale
- Higher Performance
- No more legacy COM

What Does This Mean to You?

- Your existing apps continue to be supported
 - PI SDK will continue to be supported
 - AF SDK will be provided in two versions
 - .NET 3.5 for backwards compatibility
 - .NET 4 for Rich Data Access
 - Focus for future releases
 - Do nothing and your apps will continue to work
- Consider the benefits of AF SDK 2012



PI ODBC 2.0

ODBC 3.5 SDK

UNICODE

Architecture change

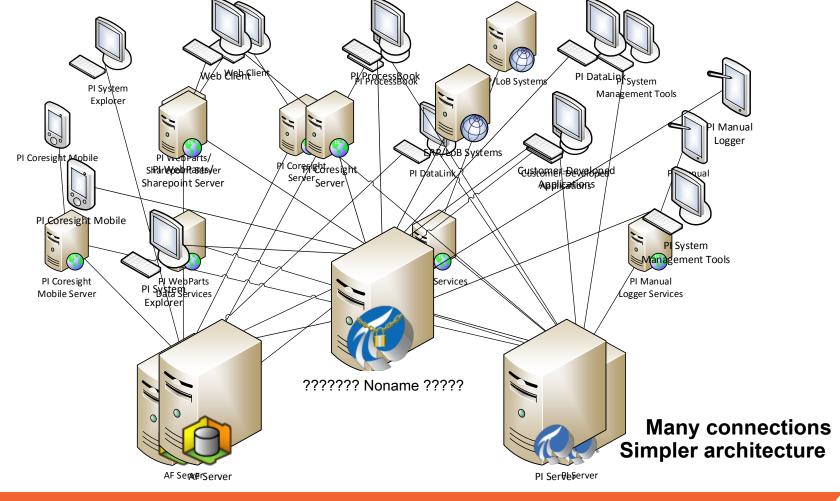
SQL capabilities similar to PI JDBC 2012

Next Generation Services

- The next generation platform for multi-user access to the PI System
- Supports plain REST and OData
- Claims-based security
- Extensible with plugins
- Performant and scalable

Next Generation Services

- Replaces multiple single-purpose servers
- Replaces countless connections to PI and AF servers
- The new primary way to access PI System data



ODATA support



SERVERS







Joomla



How to get PI System Access Licenses

```
AFTimeRange tr = new AFTimeRange(new AFTime(tex
AFValues vals = _afDB.Elements["Pump123"].Attri products

lstValues.Items.Clear();
foreach(AFValue val in vals)
```

lstValues.Items.Add(val.Value.ToString() +

1 stvalues.items.Add(vai.value.lostring() +



time license: VCAMPUS





PI System
Access
(PSA)

Get hands on knowledge of how to use and get value from the PI System

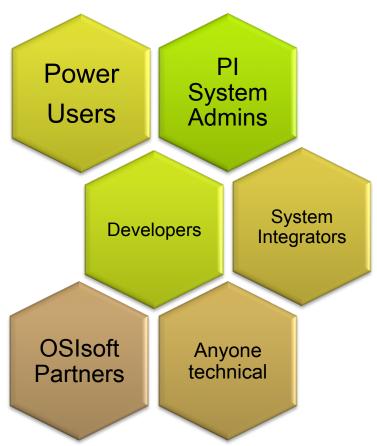
DECEMBER 3 - 6, GRAND HYATT SAN FRANCISCO

vCampus Live! 2013

WHERE PI GEEKS MEET



SAVE THE DATE



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OSIsoft, LLC

