

Where PI geeks meet... to turn challenges into solutions



#### Welcome

#### **Presented By:**

John Baier & Steve Pilon, OSIsoft



## Thank ou!

#### Special Thanks to our Sponsor



**OSI**soft

#### **OSIsoft vCampus Ecosystem**

You, customers & partners





VCAMPUS LIVE! 2010



Product Managers





**OS**Isoft

## Where PI Geeks Meet... to turn challenges into solutions



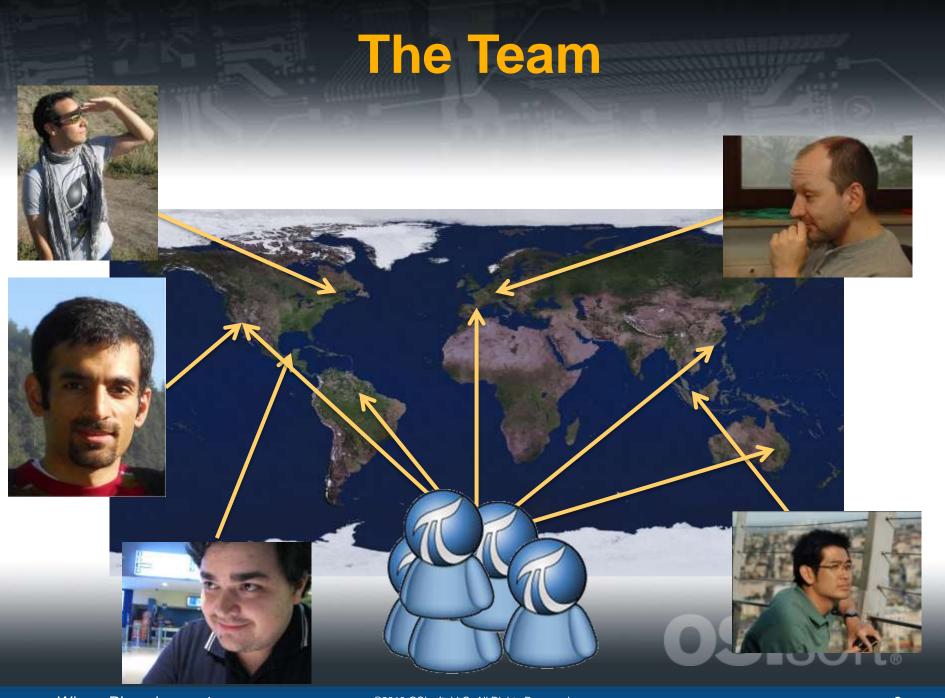


#### It's your conference...









#### 24 Technical Sessions, 2 Tracks





Integration Track



#### **Technology Roundtables**



	SUNDAY, September	12th	
1:00pm - 5:00ym	Hards-On Learning Labe		
5.00pm - 8:00pm	Welcomb	Reimpton	
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7:00sm-7:45sm	Breakfast		
1:00am - 10:00am	Opening Season		
0:00am - 10:30am	Coffee Bress		
0:30am - 11:20am	New to PI SDK and Alf SDK 2010	Pl Server 2010: AF Inside	
1:30am - 12:20pm	Exert Frames and Event France SOK	Exposing Data in Microsoft Office 2010 and SharePrint 2010	
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1:40pm - 2:30pm	PT With Services Embraces New Technologies	Building a Bl Infrastructure Part 1: Warefrouding, ETL, and Cube Building	
2:40pm - 3:30pm	Broadwring Web Service Account through REST and Ottets?	Integration with Enterprise Business Systems using Pl Data Access	
3.30pm-4.00pm	Break		
4,00pm 4,40pm	OStroffa SQL Data Access Family	Pf System Virtualization & High Availability (HA) — Complementary and Contrasting Approaches to HA	
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6:00pm - 9:00pm			
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#### Tomorrow morning at 8am (breakfast starts at 7am)

#### Gold Ballroom











#### **Product Expo**



	SUNDAY, September 1	12th
00pm - 5:00ym	Hands-On Learning Labe	
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30am - 11:20am	New to PLSCR and AF SDK 2010	Pl Server 2010: AF Inside
30am - 12:20pm	Event Frames and Event Frames SDK	Exposing Data in Microsoft Office 2010 and SharePoint 2010
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Tonight at 6pm, in Gold Ballroom

14 Pods

**OS**Isoft.

Handa-On Learning Labs

8:30am - 5:00pm

#### **Breaks & Meals**

## VCAMPUS LIVE! 2010 Where Pf genks meet... to turn challenges into solutions

	SUNDAY, September	(2th)	
1:00pm - 5:00ym	Hards-On Learning Labs		
5.00pm - 8:00pm	Welcome Reception		
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7:00sm-7:45sm	Breitel		
8:00am - 10:00am	Opening Steams		
10:00am - 10:30an	Coffee Small		
10:30am - 11:20am	New to PLSCR and All SDK 2010	Pl Server 2010: AF Inside	
11:30am - 12:20pm	Exert Frames and Exert Frames SOK	Exposing Data in Microsoft Office 2010 and SharePoint 2010	
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10:00am - 10:50am	Complex Event Processing (CEP) with Pt for Streamhraight	Pl System Security	
10/50am - 11/20am	Break		
11:30am - 12:20pm	Delivering PLACE Applications in NET	Pl Sever 2010: AF braids - Papeared	
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1:30pm - 2:20pm	Using Web Technologies To Connect and Enrich Data from Heterogeneous Sources	Building a St Infrastructure Part 2: Visualization, Analysis, and Personalization	
2:30pm - 3:20pm	"Real-time Enabling" Your Enterprise Business Systems	Exert Frames Driving Partners' Successes	
3:30pm-4:10pm	Using PI Web Services and PI WebParts with Silverlight for Creative Schälare	Pt Asset Framework Speeds Up Time to Solution	
4:20pm-5:00pm	You Knew The Job Was Dangerous Whon You Took III	Integrating the PI System with Third-Party Analytics	
5:00pm-5:20pm	- One	4	
5:20pm-6:20pm	Chang Sunan		
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6:20pm - 8:30pm			
6:20pm - 8:30pm	WEDNESDAY, Septembe	er 15th	

Breaks in Foyer area

Meals in Gold Ballroom

#### Live! Pub

### VCAMPUS LIVE! 2010

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1.00pm - 5:00pm	Harris-On Learning Late		
5.00pm - 8:00pm	Welcome Resingtion		
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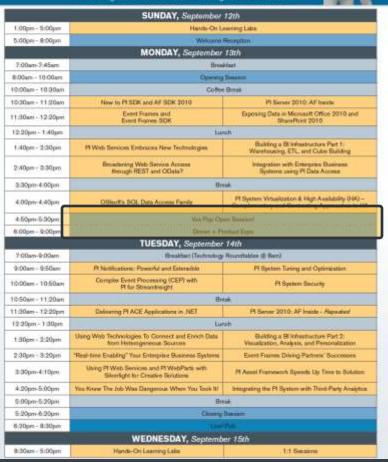
Tomorrow at 6:20pm, in Gold Ballroom

Lots of fun!



#### **Vox Pop Open Session**





5 tracks, not 2

Decided by you, live



#### Hands-On Learning Labs



	SUNDAY, September	12th
1:00pm - 5:00pm	Hants-Oil Learing Labs	
5.00pm - 8:00pm	Welcome Reimpton	
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7:00sm-7:45sm	Breakfast	
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5:20pm-6:20pm	Chang Sunan	
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- 2	WEDNESDAY, September	er 15th
	Hands-On Learning Lafe	

Bring your own laptop
Full PI virtual environment

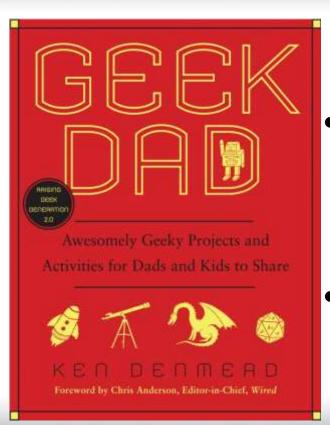
12's of labs with step-by-step instructions
Staff to help

2 sessions tomorrow (1 AM, 1 PM) In this room

Room available Register at reg. desk (extra cost)



#### Geekdad



Haven't received your copy of Geekdad last night?

Grab it at the registration desk!



#### **Recordings and Presentations**

 Available under the Live! tab at <u>http://vCampus.osisoft.com</u>

Oh, and please allow us a couple weeks... ©



#### **Evaluation Form Drawing**





# Thank **OSI**soft<sub>®</sub>



Where PI geeks meet... to turn challenges into solutions



#### PI System 2010

#### **Presented By:**

Jay Lakumb, Laurie Dieffenbach, Steve Pilon OSIsoft



## Experience

PI SYSTEM 2010





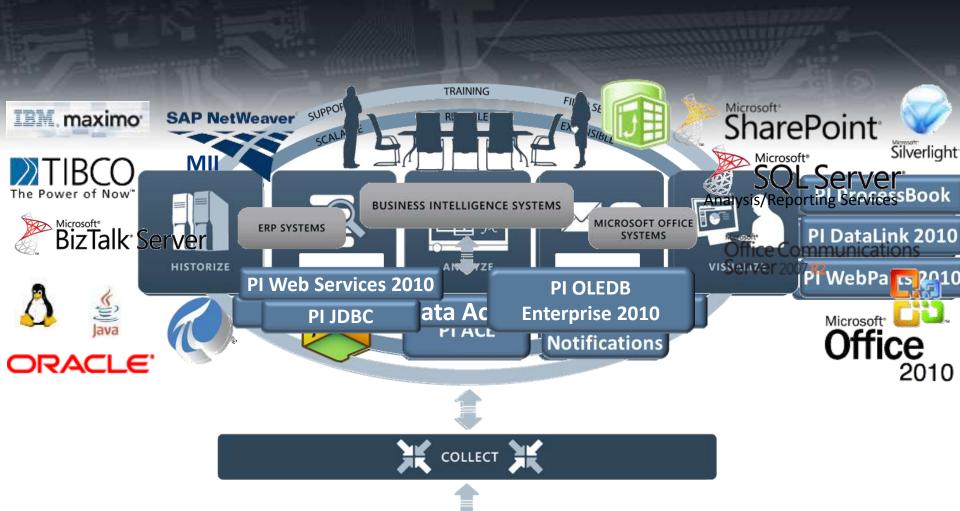


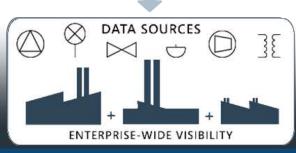






SIsoft.





#### PI Server 2010

Data Access Services

SQL-Based Web Services OPC SDKs

PI Notifications

PI Analytics

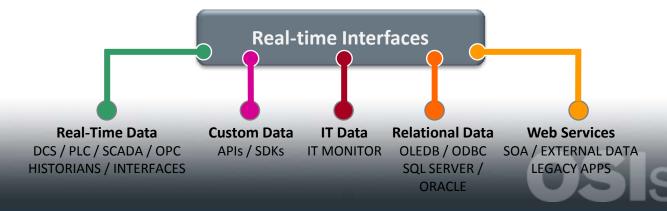
MCN Health Monitor

PI Asset Framework

AF Database

Point Database

High Availability



#### Monitor the PI System

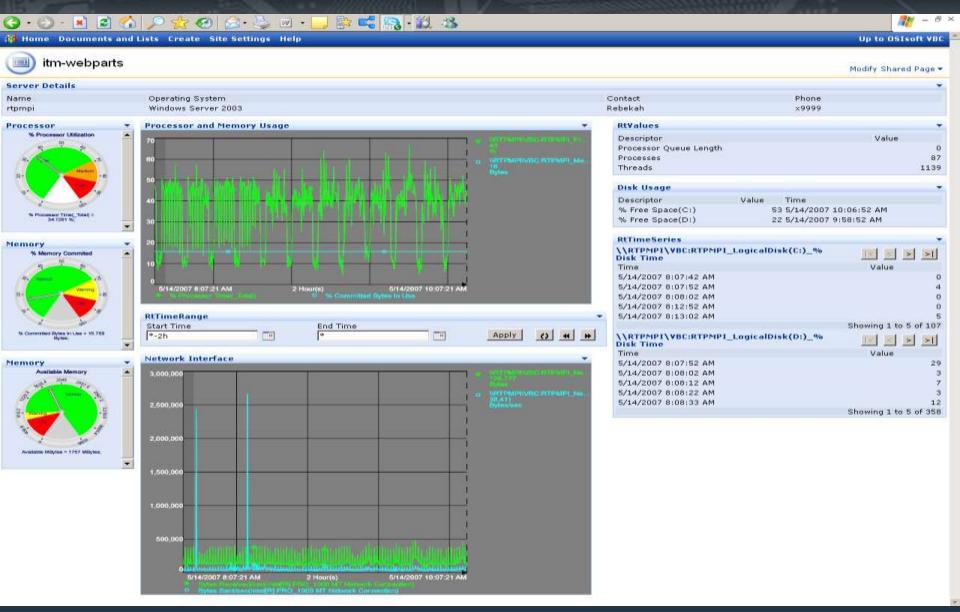




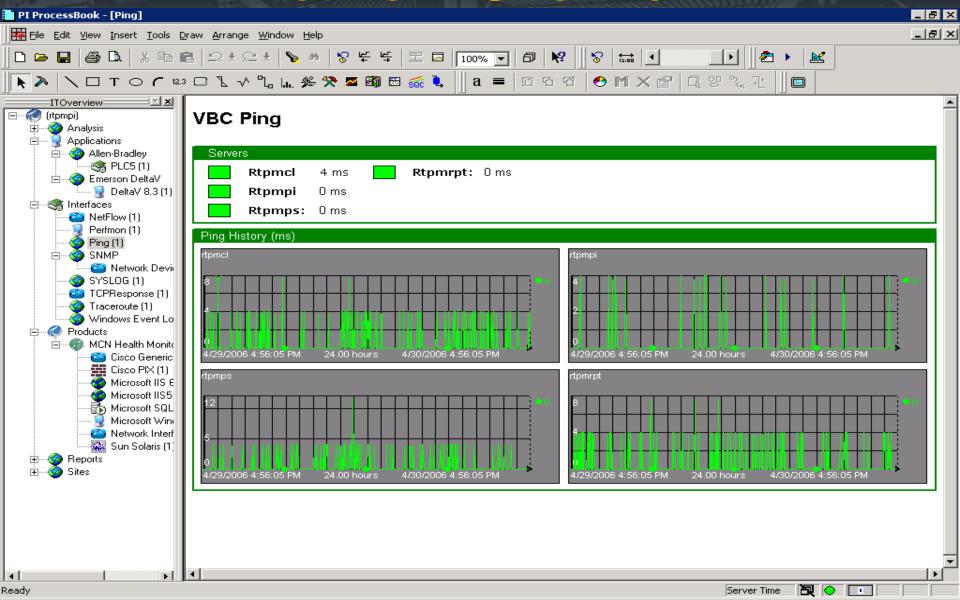




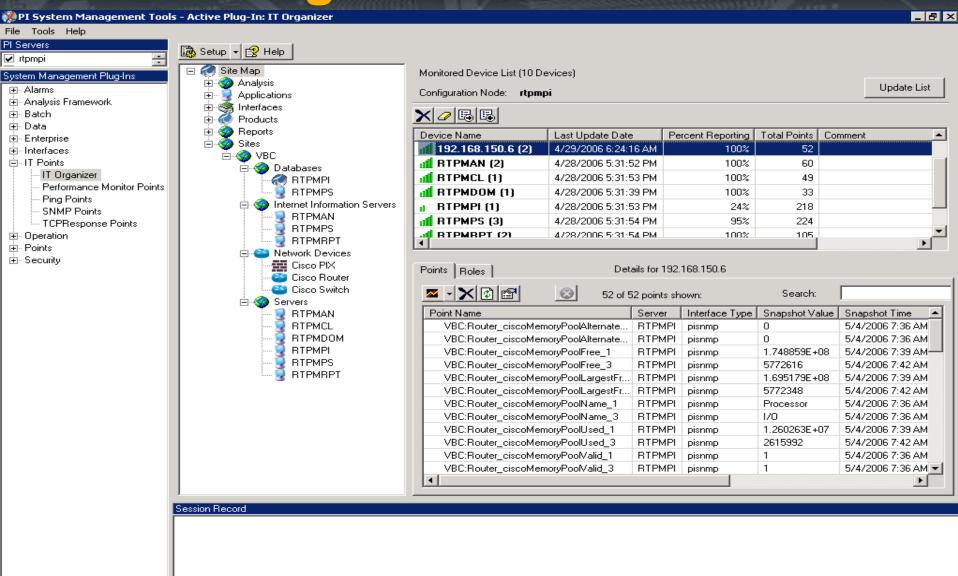
#### IT Dashboard



#### **Network Overview**



#### **Organize IT Assets**



#### Tools used to Monitor the PI System

- PI MCN Health Monitor
- PI System Management Tools
- PI ProcessBook
- PI WebParts 2010



#### **More Details**

PI System Tuning and Optimization



#### **Commission a new Asset**

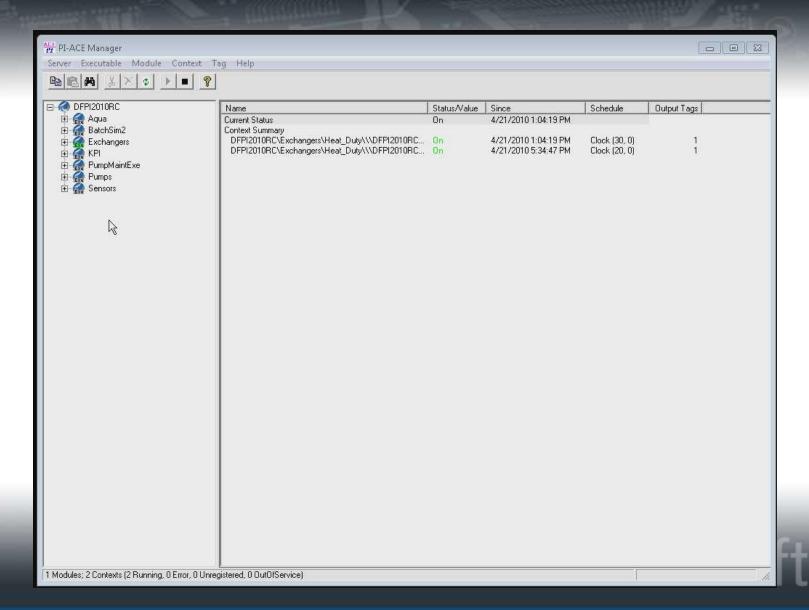




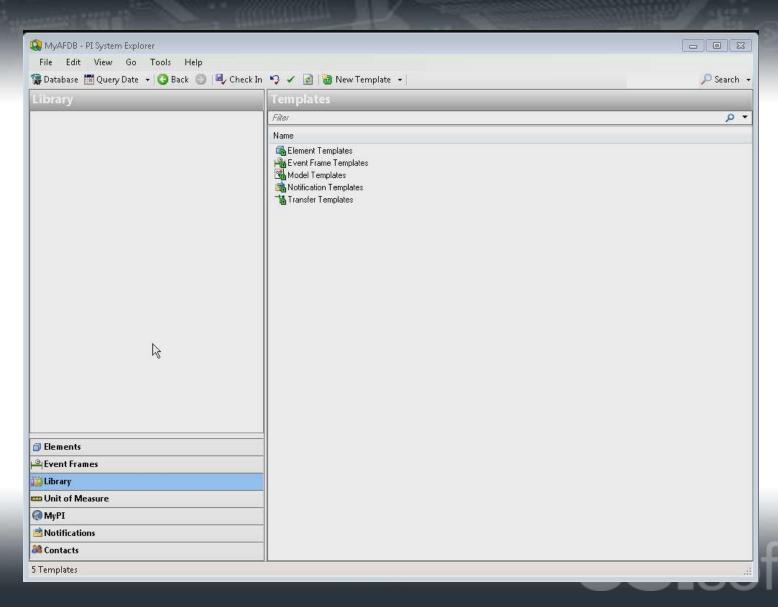
COLLECT X



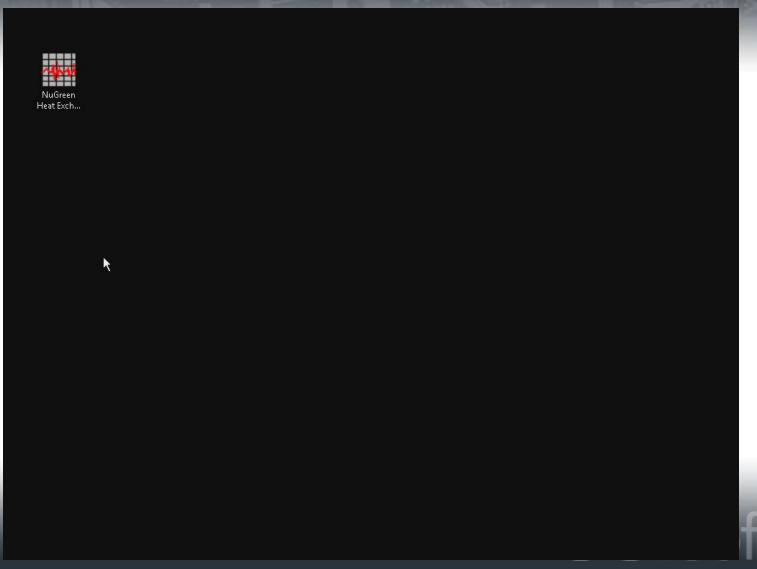
#### **KPI Calculation**



#### Model a new Asset



#### **Monitor the Asset**



#### **Tools used to Commission an Asset**

- PI Server 2010
- PI Asset Framework
- PLACE
- PI Notifications
- PI ProcessBook
- Microsoft Office Communications Server



#### **More Details**

- PI Server 2010: AF Inside
- PI Asset Framework Speeds Up Time to Solution
- Delivering PI ACE Applications in .NET



# Creating a Report



Power of Now"





**BUSINESS INTELLIGENCE SYSTEMS** 











Microsoft\*

Office

2010





BizTalk Server









**PIJDBC** 



**Enterprise 2010** 



SYSTEMS

PI ProcessBook

PI DataLink 2010

PI WebParts 2010



















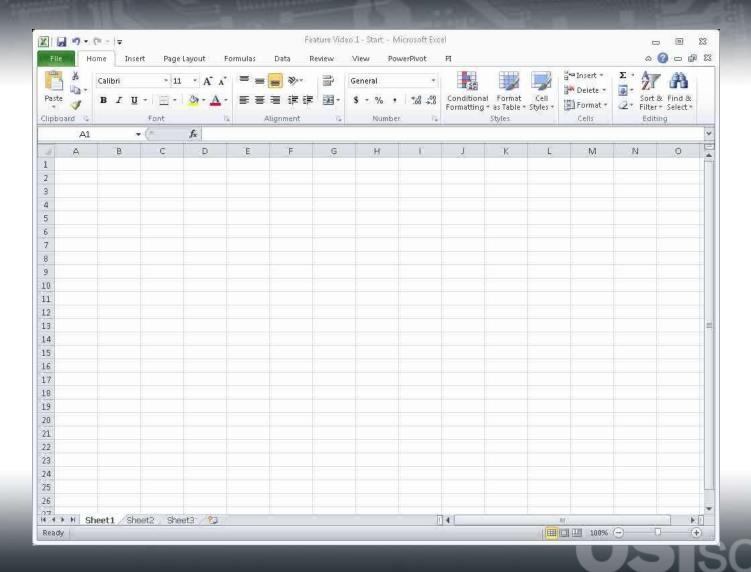




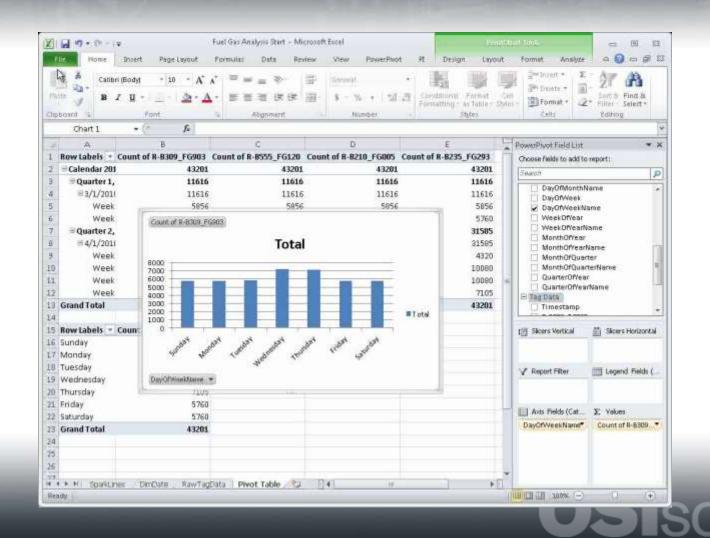




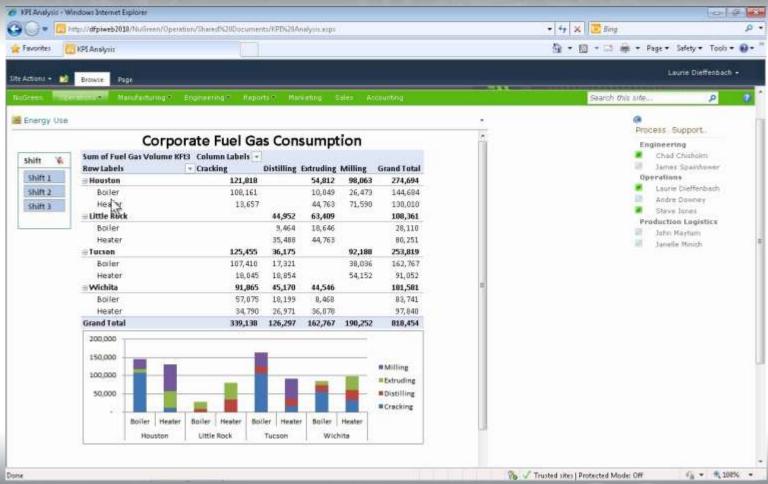
# Creating the Report



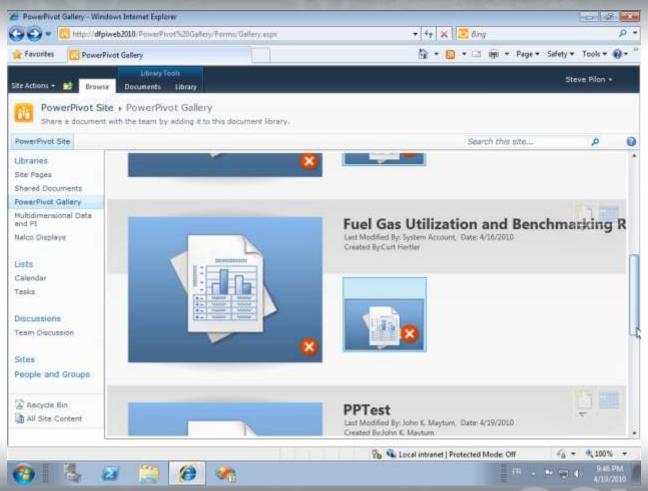
# **Publishing to SharePoint**



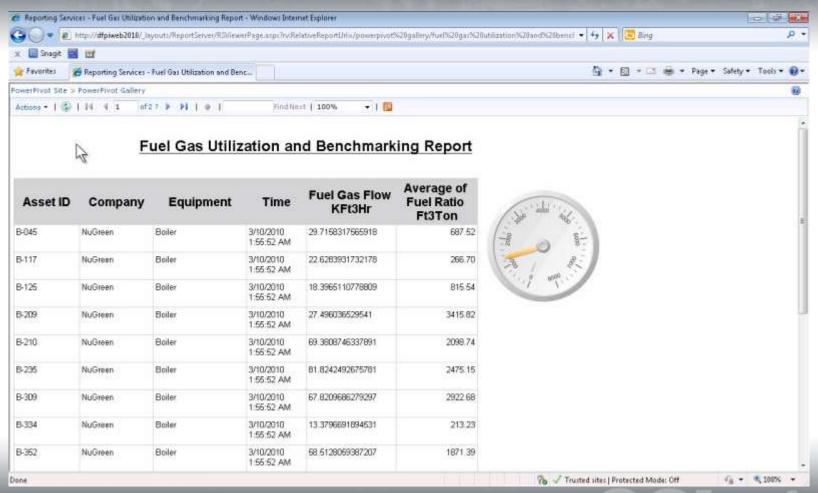
# **Using the Report**



# Making an SSRS Report



# Scheduling an SSRS Report



## **Tools used in Report Creation**

- PI OLEDB Enterprise
- Microsoft Excel 2010
- Microsoft PowerPivot
- SharePoint 2010
- SharePoint Excel Web Access 2010
- SQL Server Reporting Services 2008 R2



#### **More Details**

See the "Building a BI Infrastructure" talks:

- Part 1: Warehousing, ETL, and Cube
- Part 2: Visualization, Analysis, and Personalization



# Respond to an Alert

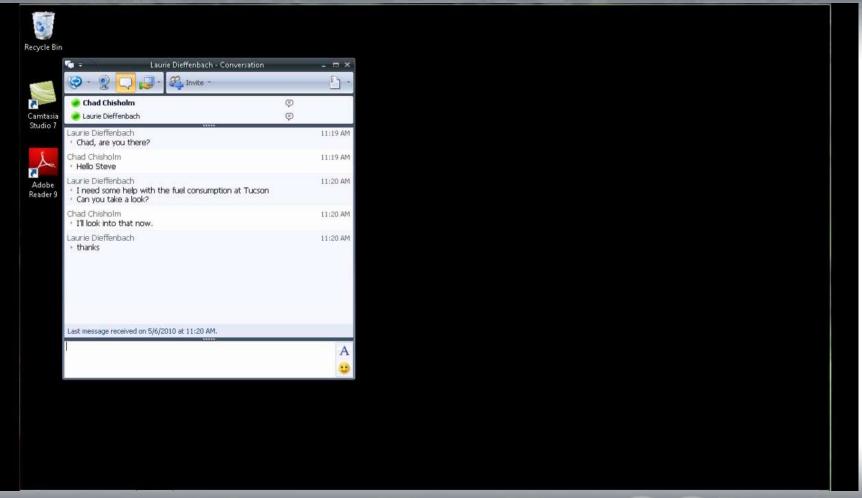




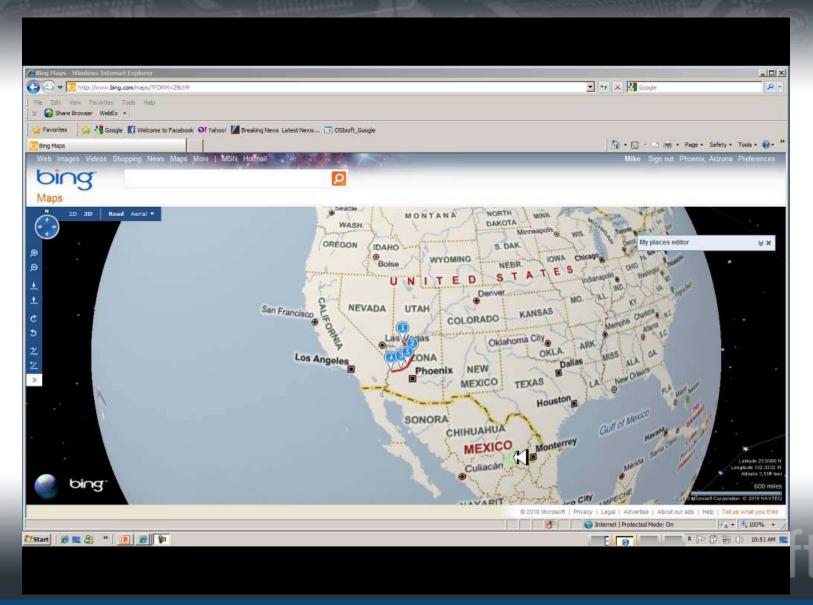
COLLECT

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#### **Notification**



# Bing map navigation



#### Write Data to Reset Condition

#### Notification Limit Change

Use this form to change notification limit values.

Please enter the effective date for changes:

Target Date: 5/6/2010

11:33:08 AM

Please select the appropriate unit:

Heater:

Heater 395: FG Limit Heater 393: FG Limit Heater 148: FG Limit

Please enter a new value Notification trigger limit:

Trigger Limit:

Change setpoint

#### **Tools used in Notification**

- PI Notifications
- Microsoft Office Communications Server 2007 R2
- Microsoft SharePoint 2010
- PI WebParts 2010 and PI DataLink Server 2010
- PI OLEDB Enterprise 2010
- Microsoft InfoPath Forms Services
- PI Web Services 2010



#### **More Details**

- Exposing Data in Microsoft Office 2010 and SharePoint 2010
- PI Notifications: Powerful and Extensible



#### PI Data in External Web Applications

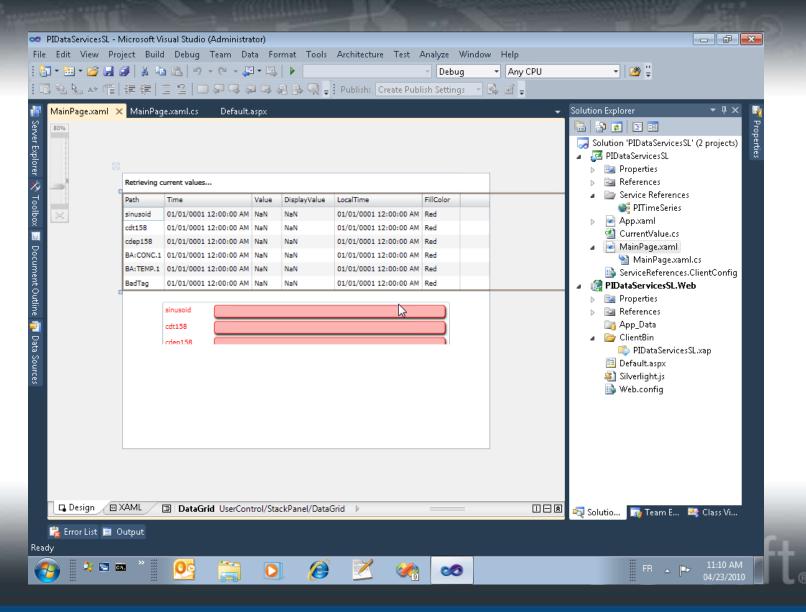




COLLECT X



#### PI Data in External Web Applications



#### Tools used in PI data on the Web

- PI Web Services
- Microsoft Silverlight



- PI JDBC
- Apache Tomcat/Java





#### **More Details**

- PI Web Services Embraces New Technologies
- Broadening Web Service Access through REST and OData?
- OSIsoft's SQL Data Access Family
- Using Web Technologies To Connect and Enrich Data from Heterogeneous Sources
- Using PI Web Services and PI WebParts with Silverlight for Creative Solutions



# Line-of-Business Integration





PI ACE

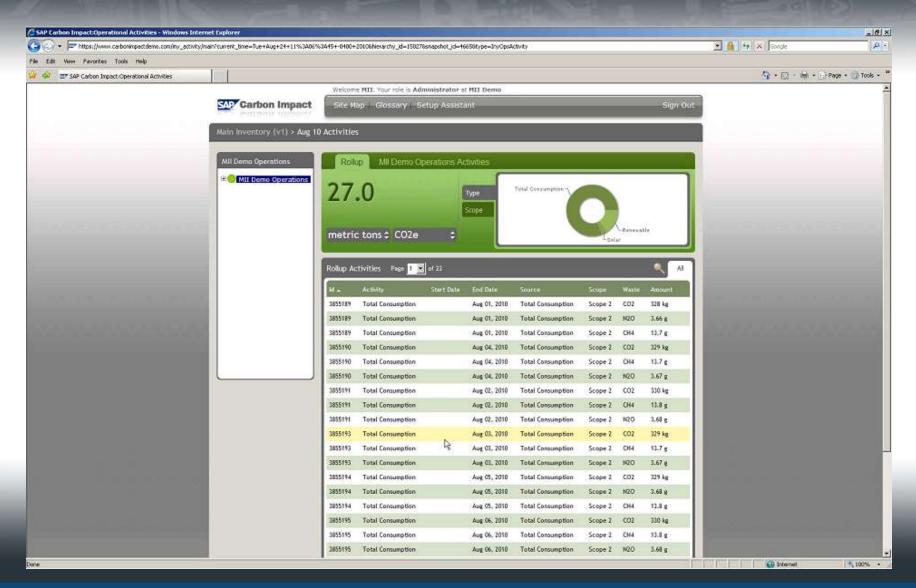
PI

Notifications

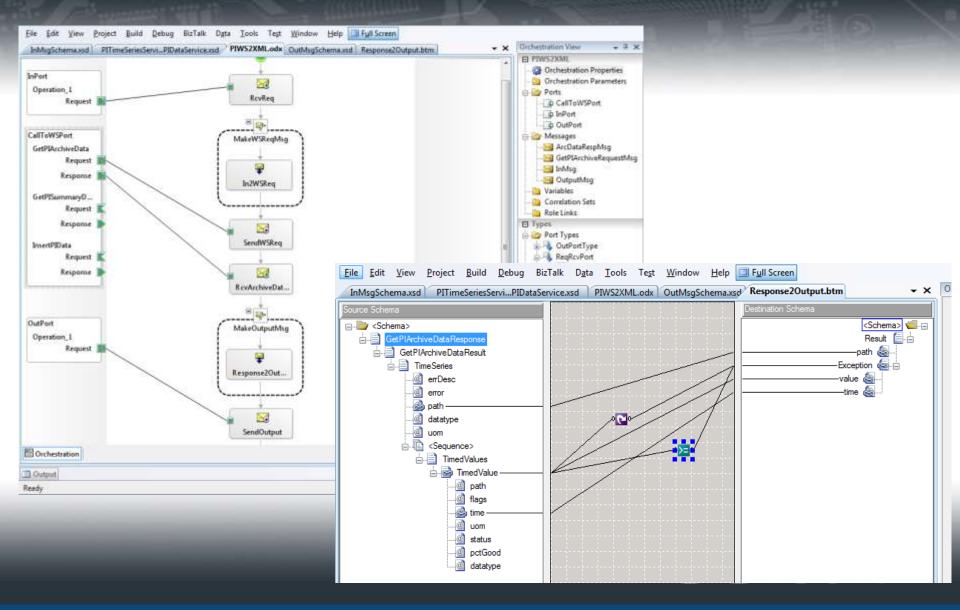




# **Line-of-Business Integration**



#### **Data Orchestration**



# **Tools used in LoB Integration**

PI Web Services

Microsoft SharePoint and BizTalk

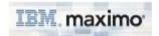
 SharePoint



SAP MII and Business Objects



IBM MMT





#### **More Details**

Integration with Enterprise Business
 Systems Using PI Data Access

 "Real-time Enabling" Your Enterprise Business Systems



# Experience

PI SYSTEM 2010













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Where PI geeks meet... to turn challenges into solutions



# **Technology Roadmap**

**Presented By:** 

Ray Hall and Ray Verhoeff



**OSI**soft<sub>®</sub>

#### **Outline**

- Building Applications on the PI System
- How OSIsoft extends the PI System
- Past Development Efforts
- Current Development Efforts
- Summary



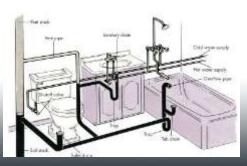
# **Applications**

- What is an Application?
  - Embedded domain specific...
    - Logic, Workflow, Visualization
  - Typically, to achieve a business value in an industry
- The PI System enables Applications
  - By providing easy to use tools to domain experts
  - But, the OSIsoft Infrastructure is not an application

#### Infrastructure











#### Why Trust the PI System?

- We go to extreme lengths to carry you forward
- For example, with few exceptions
  - All client products work with all server versions
  - This is a hard technical and logistical problem
  - But, this makes your job easier
- Did you know?
  - There are still early PI3 systems at customer sites
    - First version of PI3, Circa 1995
  - the PISDK works with all versions of PI3 Server
  - We are the right people to solve that problem



# Why Trust the PI System?

- We solve very difficult problems for you
  - High Availability
  - Security
  - Scalability
  - Manageability
  - Product Support
  - Quality
- We take these infrastructure problems very seriously
- Did you know?
  - 97% of PI Server support calls are handled by front line support?
  - AF can return 8000 rows per second in a search



#### How OSIsoft extends the PI System

#### The PI System is comprised of many parts

Interfaces and Framework	UNIINT and 400+ interfaces
Server	PI, AF, Notifications
Analytics	ACE, AF, StreamInsight
Data Access	PISDK, AFSDK, OLEDB, Web Services, OLEDB Enterprise
Clients	DataLink, ProcessBook, WebParts



#### How OSIsoft extends the PI System

- We extend in two ways
  - Individual product features
  - Platform-wide efforts
- We work on these synchronously
  - Individual products have <u>release dates</u>
  - Platform-wide efforts have <u>timeframes</u>
- Our challenge
  - Individual products must balance these

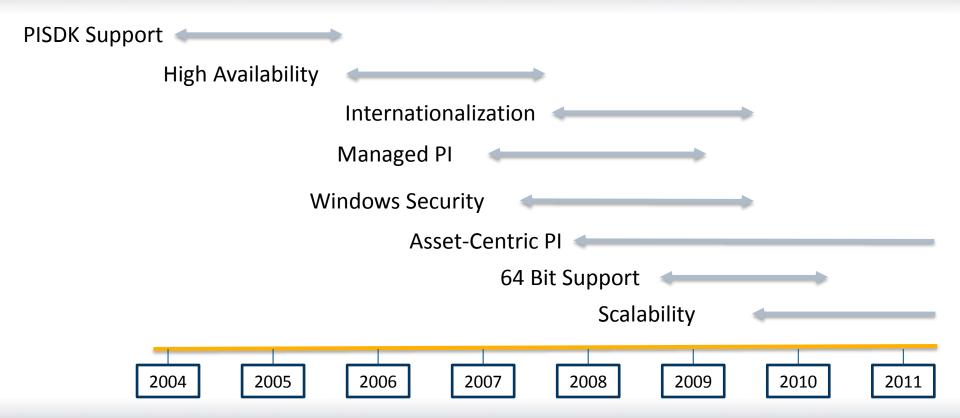


# Examples

- Individual product features:
  - PI Notifications: message formatting
  - PI Web Parts: moving to Silverlight
  - PI ProcessBook: Playback
- Platform-wide efforts
  - 64 bit support
  - Internationalization
  - High availability



#### **Platform-wide Features**





#### 2009 Value Themes

What did OSIsoft accomplish in 2009 to help you?



Security

Critical
Facilities are
Safe



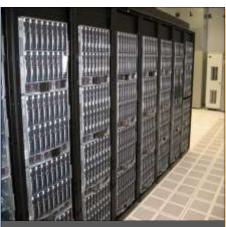
Localization

Use Worldwide



Asset Centric PI

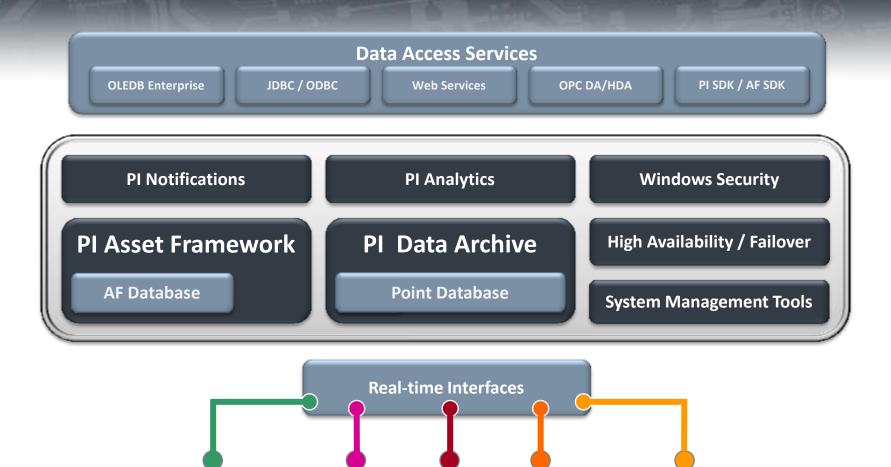
Define Once Use Over and Over



Scaling, 64 bit

Use PI for more data

# PI Server 2010



LEGACY APPS SOFT

**Web Services** 

SOA / EXTERNAL DATA

**Real-Time Data** 

DCS / PLC / SCADA / OPC

**HISTORIANS / INTERFACES** 

IT Data

IT MONITOR

**Relational Data** 

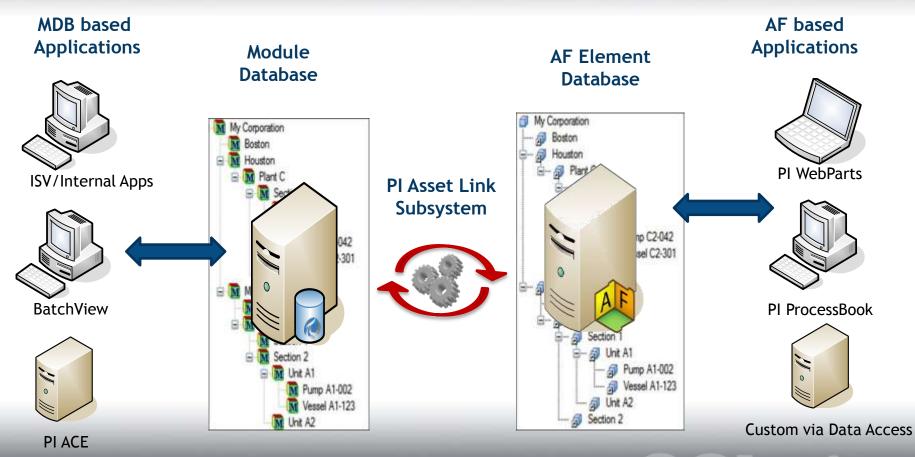
OLEDB / ODBC

SQL SERVER / ORACLE

**Custom Data** 

APIs / SDKs

# Migrating Module DB to Asset Framework (AF)





## **Data Access Products**

**SQL** Family

Web Services

**OPC Servers** 

**OSIsoft SDKs** 



**Asset Information / Metadata** 

**Notifications** 

**Event Frames** 





**PI Server** 

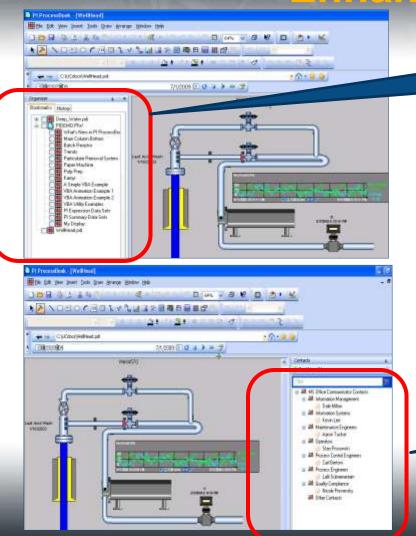


**PI Server Collective** 

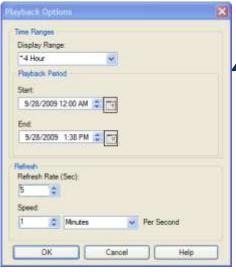
**Time Series Data** 



#### ProcessBook 3.2: Productivity Enhancements



Browsing forward and backwards
Permanent books mark of favorites



Playback

Troubleshoot problems by replaying a display

Communicator
IM, Email Contacts
Easily send a PB
screenshot

Go See: Recent Productivity

Enhancements to PI ProcessBook

# **2010 Value Themes**

What are we working towards?



Asset Centric PI

Define Once Use Over and Over



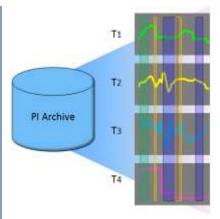
Scalability

Use PI for more data



**Analytics** 

Easily use PI Data in calculations



**Event Frame** 

Save timeframes to find, analyze data

## Value Theme - Asset Centric Pl

- Provide alternate naming for PI Data
  - Common object names
  - Accessible for users unfamiliar with tag naming
- Allows:
  - Re-use with Templates
  - Browsing and Searching
  - Adding in other data
    - Relational, Calculations, Fixed Values
- Requires some effort to build the assets

# **Asset-Centric PI - Timeline**

Servers	AF 2.0 Merge AF and MDB features	AF 2.1 HA	PI Server 2010	
Data Access	AF SDK		PI OLEDB Web Services	Web Services
Clients	ProcessBook Add-In	Web Parts ERD	Web Parts AF Builder	DataLink

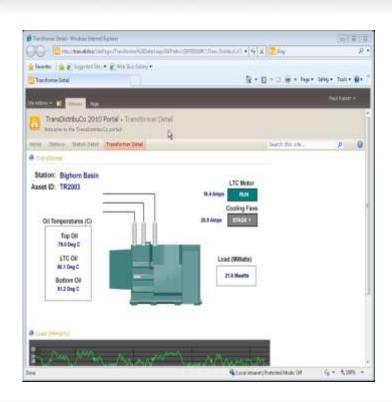




# **Asset-Centric PI - PI WebParts**

- Improved access to asset data
- PI System Search
- Deployment architecture
  - Performance, Scale, Manageability
- Improve User Interaction
- Replace Adobe with...







#### **Asset-Centric PI - DataLink**

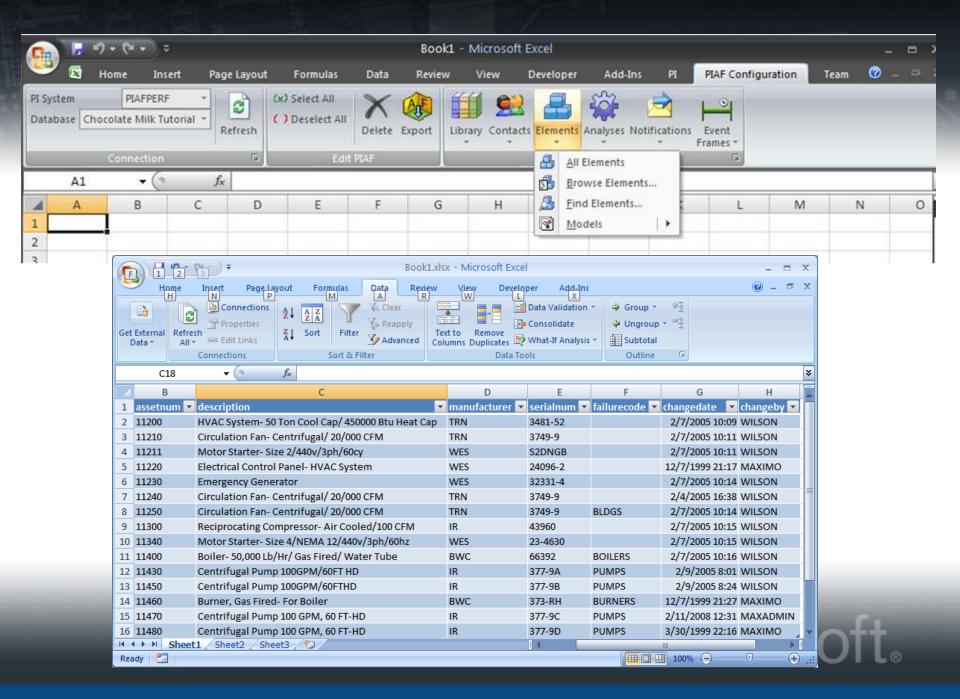
- Accept AF attributes as equals to tags
- AF Specific Enhancements
- Integrated Search
- 64-bit Support
- Integrated Search User Defined Function



## **Asset-Centric PI – AF Builder**

- Excel add-in to manage all structures:
  - Elements
  - Notifications
  - Analyses
  - Event Frames
  - Templates
  - Categories
  - Enumeration Sets





# Value Theme - Scalability

- AF 2.2
  - Significant improvements
  - Paged collections
- ACE
  - Improvements in start-up time, throughput
- Event Frames
  - Optimizing the backend architecture
- Making PI work well on a large scale
  - Increased point count
  - Increased data rates
  - Ability to sign up for events on many tags

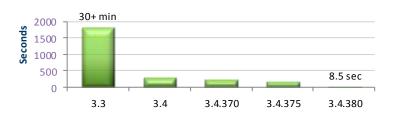


# The PI Server Trends over the last decade



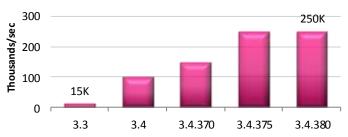
#### Startup Time

#### Initialization Time per Million of Points



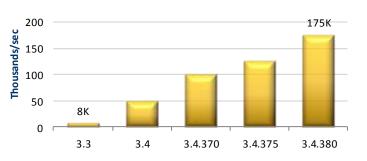
#### **Snapshot Rate**

#### **Events Processed in Memory**



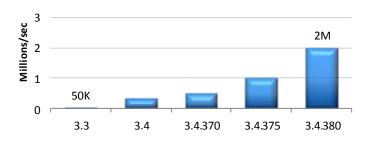
#### **Archiving Rate**

#### **Events Stored to Disk**



#### **Archive Query Rate**

#### **Events Served to Clients**



# **Value Theme - Analytics**

- Analytics is a core PI System function
- Now is the right time to work on analytics
  - Point count and data rates have progressed
  - Asset-Centric PI
  - Stream Processing



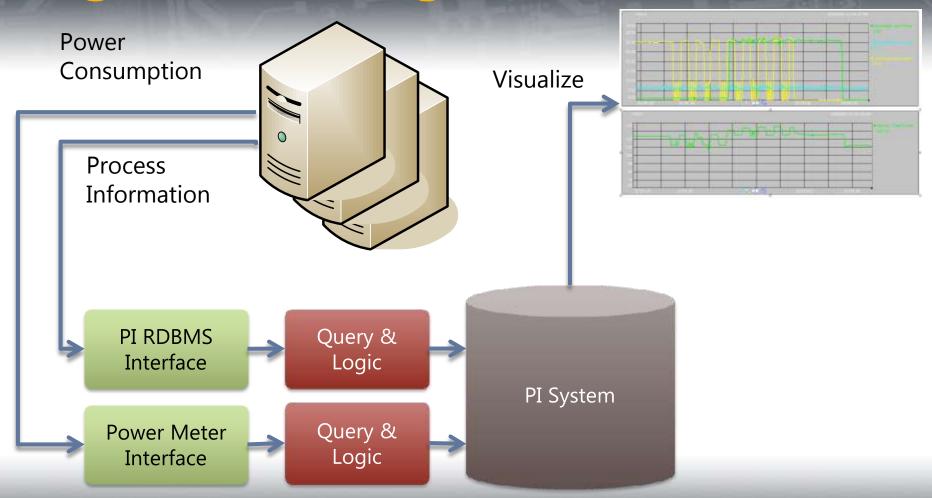
# **PI Analytics**

Configure	d Analytics	Programmed Analytics	
Adhoc	Time or event	schedule based	Custom application
Asset Framework Formula Data Reference	Performance Equations	PI Advanced Calculation Engine	Software Development Kits (SDKs)
ProcessBook Datasets	Totalizers		PI for StreamInsight
DataLink	Statistical Quality Control		
	AF Analytics		

- Release later this year
- Future product



# **Edge Processing**





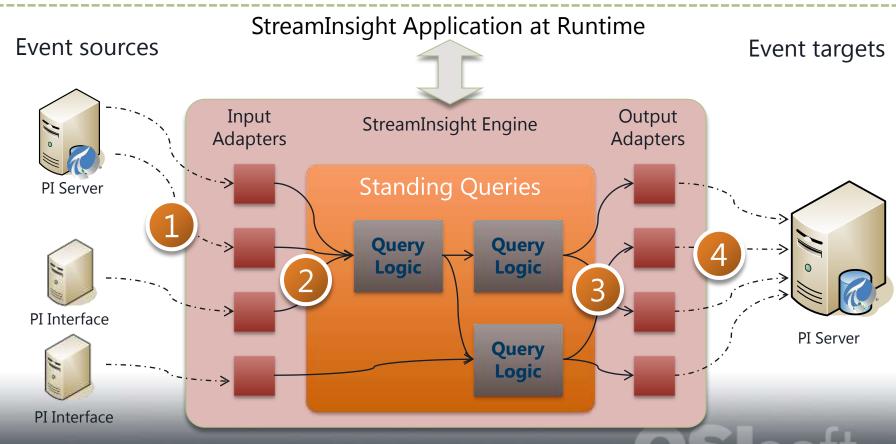
# PI & StreamInsight Platform

StreamInsight Application Development









```
// Define the input tag(s)
   string[] InputTags = { "sinusoid" };
                                                                A Complete
   // Define the output tags
   string outTag = "test:sinusoid";
                                                                 StreamInsight Application
   string summaryTag = "test:sinusoid-count";
   // Configure a PI Input Adapter
   var inputConfig = new SnapshotInputConfig();
   inputConfig.PointsQuery = InputTags;
   // Create the Event Stream, of type PIEventBasic<double>
   var inputDataStream =
       CepStream<PIEventBasic<double>>.Create("input", typeof(SnapshotInputFactory), inputConfig, EventShape.Point);
   // Simple pass-through query, copies the input to the output
   var passThroughStream = from e in inputDataStream
                           select new PIEventBasic<double>
                               Path = outTag,
                               Value = e.Value,
                               Status = e.Status,
                               Id = 0
                           };
   // Count the events over a 30 second window
   var countStream = from window in inputDataStream.TumblingWindow(TimeSpan.FromMinutes(0.5), DateTime.Today,
HoppingWindowOutputPolicy.ClipToWindowEnd)
                     select new PIEventBasic<double>
                         Path = summaryTag,
                         Value = window.Count(),
                         Status = 0,
                         Id = 0
   // Combine (union) the two output streams
   var outputDataStream = passThroughStream.Union(countStream);
   // Turn the stream into a functional query and start the query
   var query = outputDataStream.ToQuery(app, "sample", "", typeof(PIOutputAdapterFactory),
       new PIOutputAdapterConfig(), EventShape.Point, StreamEventOrder.FullyOrdered);
   query.Start();
   Console.ReadLine();
   query.Stop();
```

static void Main(string[] args)

```
static void Main(string[] args)
{
    // Define the input tag(s)
    string[] InputTags = { "sinusoid" };

    // Define the output tags
    string outTag = "test:sinusoid";
    string summaryTag = "test:sinusoid-count";

    // Configure a PI Input Adapter
    var inputConfig = new SnapshotInputConfig();
    inputConfig.PointsQuery = InputTags;
```

# Define tags and configure an input adapter

```
// Create the Event Stream, of type PIEventBasic<double>
var inputDataStream =
    CepStream<PIEventBasic<double>>.Create("input", typeof(SnapshotInputFactory), inputConfig, EventShape.Point);
```

Create an input stream

```
// Simple pass-through query, copies the input to the output
   var passThroughStream = from e in inputDataStream
                                                                     Use Linq to create
                           select new PIEventBasic<double>
                              Path = outTag,
                                                                     the output stream
                              Value = e.Value,
                              Status = e.Status,
                              Id = 0
                          };
   // Count the events over a 30 second window
   var countStream = from window in inputDataStream.TumblingWindow(TimeSpan.FromMinutes(0.5), DateTime.Today,
HoppingWindowOutputPolicy.ClipToWindowEnd)
                     select new PIEventBasic<double>
                         Path = summaryTag,
                        Value = window.Count(),
                         Status = 0,
                         Id = 0
   // Combine (union) the two output streams
   var outputDataStream = passThroughStream.Union(countStream);
```

# Start the StreamInsight query

```
// Turn the stream into a functional query and start the query
var query = outputDataStream.ToQuery(app, "sample", "", typeof(PIOutputAdapterFactory),
    new PIOutputAdapterConfig(), EventShape.Point, StreamEventOrder.FullyOrdered);
query.Start();
Console.ReadLine();
query.Stop();
```

# **AF Configured Analytics**

- Philosophy
  - User configures the equation in AF
  - OSIsoft takes care of the rest
- Rich Configuration
  - Merge of PE and Formula DR syntax
  - Capability of doing "rollup" calculations
- Very Large Scale
  - Improvements in our data access
  - New cache mechanism
  - OSIsoft managed scale-out



# **AF Analytics**

- Leverage AF Elements and AF Element Templates
- GUI configuration experience
- Outputs written back to PI
- Same PE Library as in PI Notifications
- No change to existing AF Data References



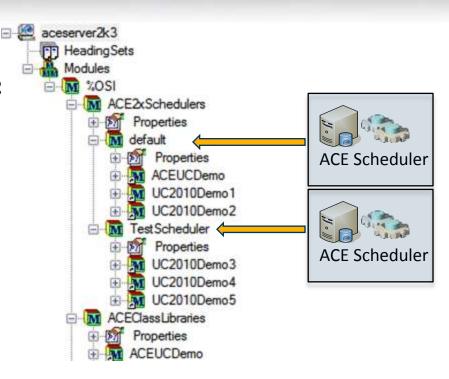
# **AF Analytics**

Name: LMTD C	alculation		Target: HeatExchange	
Analysis Rule				0.00
Performance Eq	uation			-
♣ Add →	Evaluate			
Functio	on 🕨			
Operat	or 🕨	Ceiling		
Attribu		Char		
T Rection		Compare		
		Concat		
Input Paramete	rs			<u>™</u> Add
☑ ColdIn	.  Shell Side	e Inlet Temperature;	UOM=°C	K-W-L
☑ ColdOut	.  Shell Side	e Outlet Temperature	; UOM=°C	
☑ HotIn	.  Tube Sid	e Inlet Temperature;	UOM=°C	
☐ HotOut	. Tube Sid	e Outlet Temperature	e; UOM=9C	
Output Paramet	ters			Add
MTDLMTD				1,000
	Ø PI Po	vint \\%Ser	ver%\%Element%.%Attribute%	
Schedule	200			
SARRANE.				
Hourly				¥   3414.5



#### PI ACE

- Visual Studio 2010 support
- Native support for 64-bit Windows
- Upgrade to .NET code base
- Multiple PI ACE Schedulers
- Startup optimization
- Cache enhancements



Distribute heavy-duty calculations across multiple schedulers.



# **Programmed Analytics on AF**

- Current Status
  - OSIsoft is committed to supporting ACE on MDB
  - No current plans to AF-enable ACE
  - AF Link subsystem enables MDB/AF replication
  - This was an important use case for PI Server 2010
- The first step is configured AF analytics
- Next step is programmed AF analytics



## **Value Theme – Event Frames**

There is a real need to store

Structure events downtime

Timeframes shifts

Hierarchical events batches

- PI Batch is great for batch processes
- Event Frames is the generalization of this for all industries



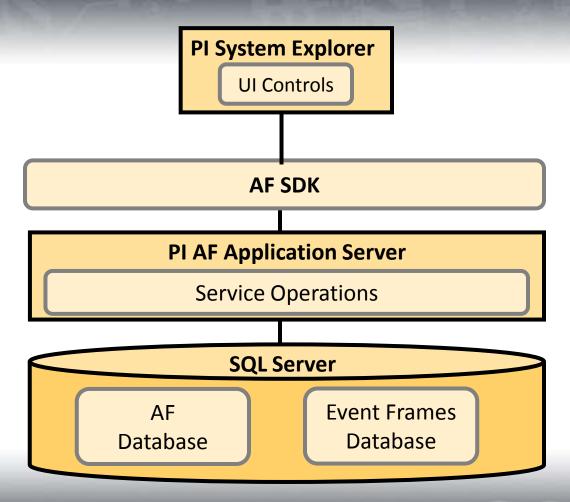
## **Event Frame Definition**

- A time series data type defined by two times and optionally accompanied by supporting data
- Any event in your process:
  - downtime event
  - incident event
  - material transfer event
  - equipment maintenance
  - batch processing step
  - specific investigation
  - electrical power outage
  - safety incident

- Any time range or repeatable set of time ranges:
  - shifts
  - day
  - week
  - month
  - year to date
  - etc.
- Aspects: HA, Secure, Scalable, Performant, Searchable



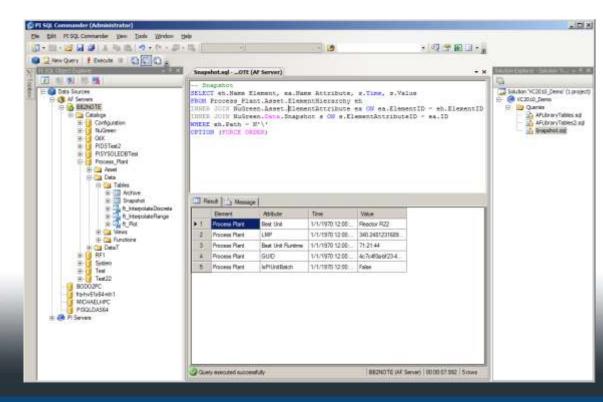
#### PI AF and Event Frames Architecture





### **Event Frames**

- Release the functionality that CTP today
- Support within PI OLEDB Enterprise
  - Reports
  - Integration
  - SQL-based apps



## PI Notifications 2010

- 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

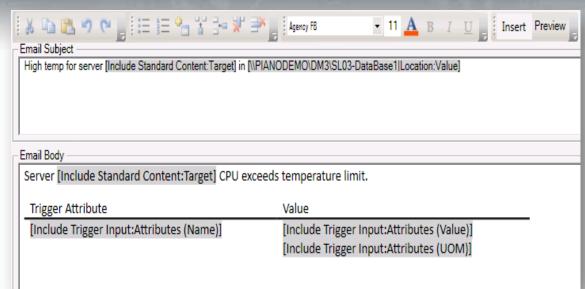




Internationalization



## PI Notifications 2010



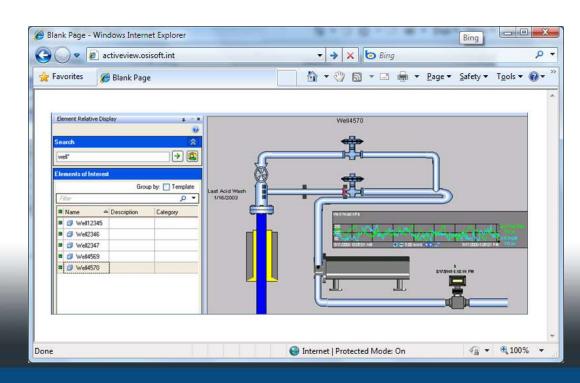
Subject: High temp for server \\PIANODEMO\DM3\SL03-Database1 in Rack 23

Server \\PIANODEMO\DM3\SL03-Database1 CPU exceeds temperature limit.

Trigger Attribute	Value
CPU Temp	72 °C
System Temperature	62 °C

### ProcessBook and ActiveView

- Docking Windows in ActiveView
- Enhanced Time Range Interface
- Important defects and enhancements
- Multi-Language Improvements



### Data Access

- Web Services
  - Simplified snapshot call
  - Support for any AF data reference
- PISDK
  - Ability to fan data adds and inserts
  - Ability to buffer data adds and inserts
- OLEDB Enterprise
  - Support for Event Frames

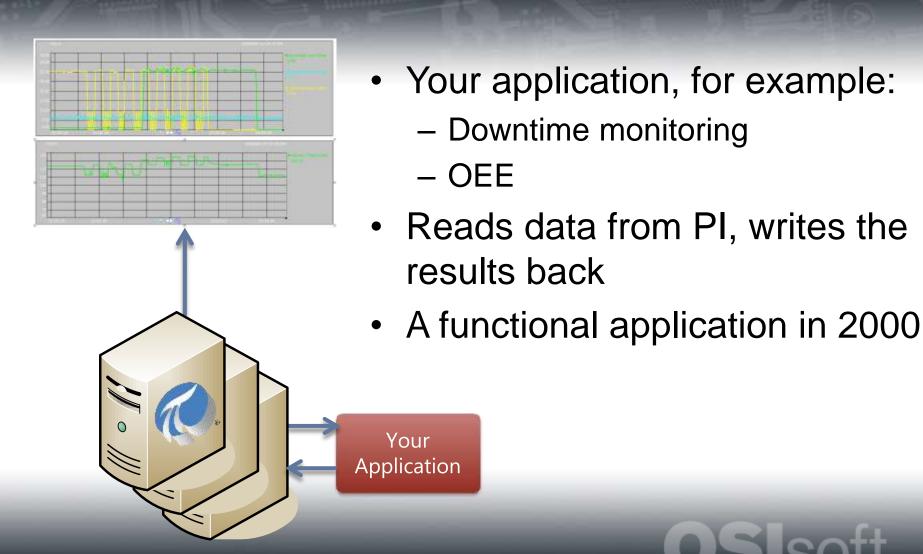


# **Interfaces: Ongoing**

- OSIsoft commitment:
  - 440 interfaces
  - 20 developers in 6 locations
  - Over 150 effort-years of development expertise
- Other Interface Development
  - SAFER Systems Weather Station
  - Thermotron 8800 Controller
  - XML Interface (Phase II failover)
  - Cibectec SNP (Phase II failover)
  - Performix xMES Batch Interface
  - Werum PAS-X Batch Interface
- AMI Head-End Development
  - Grid Net PolicyNet
  - Elster EnergyAxis Meter Automation Server (MAS)



#### The 10 year old application



#### **Evolution of your PI Application**

Year	New capabilities	Your effort
2002	Your results available through OLEDB	-
2004	Higher Performance (PI 3.4)	-
2005	Your results viewable through Web Parts	Some
2007	Highly Available	-
2007	Managed by OSIsoft	EA
2008	Viewable through assets (AF, clients)	Some
2009	Windows Security (PI 3.4.380)	-
2010	Your results available through Web Services	-
all	Connects to many additional systems (PI Interfaces)	-



#### Summary

- We continually improve the PI System
- Currently, we are focused on
  - Scalability, Analytics, Event Frames
- Our hope for vCampus Live 2010:
  - You will see new OSIsoft tools, infrastructure that makes your job easier
  - We hear from you about what you need



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Where PI geeks meet... to turn challenges into solutions



### OSIsoft vCampus One Year Later

**Presented By:** 

Ahmad Fattahi, OSIsoft



**OSI**soft<sub>®</sub>

#### **OSIsoft Virtual Campus**

Drive value
by fostering a community
to cause greater and better
adoption of PI as an infrastructure



Do more with PI Get PI done right



#### **OSIsoft vCampus**

Software + Resources + Collaboration Development and integration

Online, community-oriented program

Partners, customers and OSIsoft

**Exclusive contents** 



#### Where are we at?

Launched in November 2008

1000 active subscribers

6500+ posts on 1000+ threads

14 blogs

20 monthly webinars and counting

5 online courses

158 tweets (@OSIsoftvCampus)

Exclusive content on the Library and the Download Center



**OSI**soft。

#### All over the place!

	United States
?	Unknown
0	European country
٠	Canada
	Germany
幾	Australia
	Great Britain
0	Singapore
	Netherlands
	Austria
	France
•	Japan
+	Denmark
*	China
+	Norway
	Russian Federation
<b>(</b>	Brazil
	Belgium
➣	South Africa
+	Sweden

Spain Finland Mexico South Korea Italy Morocco Saudi Arabia India Chile Yugoslavia Puerto Rico Hong Kong Switzerland
Mexico South Korea Italy Morocco Saudi Arabia India Chile Yugoslavia Puerto Rico Hong Kong
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-	Latvia
1	Croatia
	Qatar
÷	Iran



#### **Community Projects**

#### **Hosting 4 Community Projects**

- AF Symbol Drop
- LingToPI
- Smart Table Lookup
- PDI Preview Handle

#### 2 more coming soon

- PI for StreamInsight
- PI data mining for preemptive maintenance

#### Be the first to know!

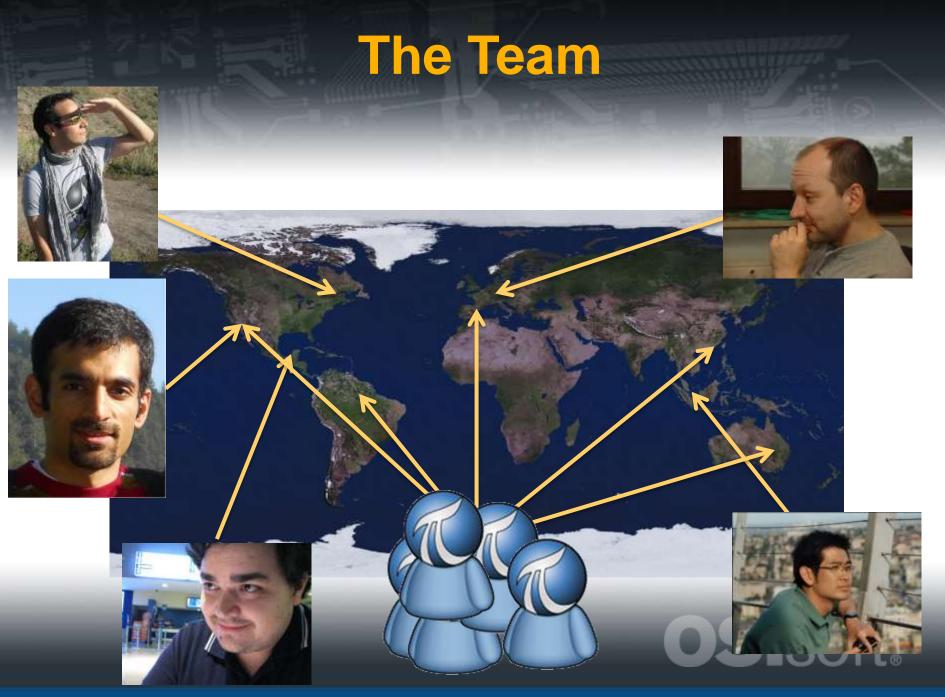
#### Preview of new products

- PI for StreamInsight
- Event Frames
- PI Web Services (now released)
- PI OLEDB Enterprise (now released)
- PI JDBC (now released)
- AF Builder Excel Add-in

#### New versions of existing products

- PI System 2010 (now released)
- PI ACE 2010





#### Website upgrade!

Telligent Community 5.5

Supporting more browsers

Syntax highlighting



**Download Center** 

Bug fixes and improved usability

AUDITORIUM GROUP TAGS Sort by: Recent | Name | Downloads | Views | Comments | Rating NA AF SDK AF UT COMPRESS TITE DOWNLOADS постии Builders' Café Webinar Series: Complex Event Processing (CEP) with Microsoft Streamlosight and Builders' Café We by Steve Piton Series subtracing firm Thu, Jan 29 2010 Builders' Café Webinar Series; Pt WebParts 3.0 and 140 by Shave Pilion Coding Custom Web Parts Thu, Dec 17 2000 Builders' Café Webinar Series: Programming with 118 by Steve Filton **Event Frames** Thy, Nev 26 2009 Builders' Café Webinar Series: Pl Integration 101 to Stave Piton OPC DA/HD Thu, Gut 29 2009 Builders' Café Webinar Series: What's New in AF 122 Server Pl WebParts by Steve Pilon Programming (AF 2.1) SharePoint Set, Cat 3 2009 Builders' Café Webinar Series - Deeper in PLSDK 169 by Shave Filters (Calculations, Event Pipes and Application Identity)

Training Center

sion Hall

Auditorium

Bloggers' Place

#### **All-Star Program**

#### Recognition of best contributors

Nominated by the community

#### Privileges

- Personal vCampus blog
- Moderate vCampus forums
- Voluntary participation to team meetings
- Free admissions for the year to come
  - OSIsoft vCampus & OSIsoft vCampus Live!
  - Users Conference
- A few more surprises...





#### 2010 All-Stars!

3 ALL-STAR members for the first year!

Recognized for their positive influence and highly effective participation in the community







### Michael van der Veeken Atos Origin Member since Dec. 2008 397 posts

- **Specialty**: Silverlight, Webservices
- <u>Features would like to see in PI</u>:
   Future data support
   Silverlight applications for PI
- Favorite quote: "Once a new technology rolls over you, if you're not part of the steamroller, you're part of the road. " – Stewart Brand
- **Bio**: Michael van der Veeken is a Software Engineer at Atos Origin in the Netherlands. Besides hanging out on vCampus, he creates innovative software for the PI system.





Asle Frantzen
Amitec
Member since Dec. 2008
241 posts

- <u>Specialty</u>: Software development with different PI technologies and SharePoint solutions.
- <u>Features would like to see in PI</u>: Future data, PI ProcessBook-to-Silverlight
- Favorite quote: "It's a 106 miles to Chicago. We've got a full tank of gas, half a pack of cigarettes, it's dark, and we're wearing sunglasses. Hit it!!!" –The Blues Brothers
- <u>Bio</u>: Asle Frantzen is a Software Engineer at Amitec in Norway, and an MCTS in Microsoft Office SharePoint Server application development. He has six years of experience in the field of industrial IT, and has been with Amitec since 2008.



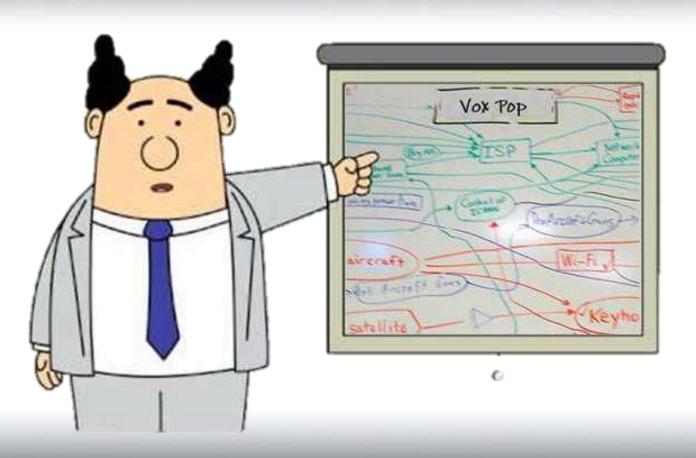


Rhys (Ethan!) Kirk
RJK Solutions
Member since Nov. 2008
608 posts

- Specialty: PI SDK and AF SDK, ability to solve pretty much any problem with PI!
- Features would like to see in PI: Event Frames and future data support in PI
- Favorite quote: "Dada!" –Ethan Kirk
- **Bio**: Having worked with PI since 2001 he has been involved in everything from PI-API applications to investigating Event Frames. Even though he is currently working at an architectural level, he is a developer at heart.



#### Break + Vox Pop Topics



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