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Empowering Business in **Real Time.**

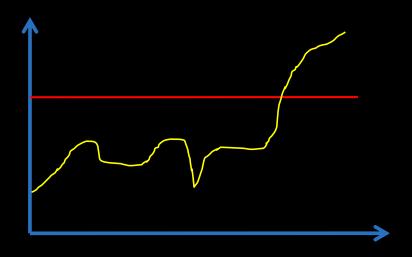**PI Infrastructure** for the Enterprise.

Visualization

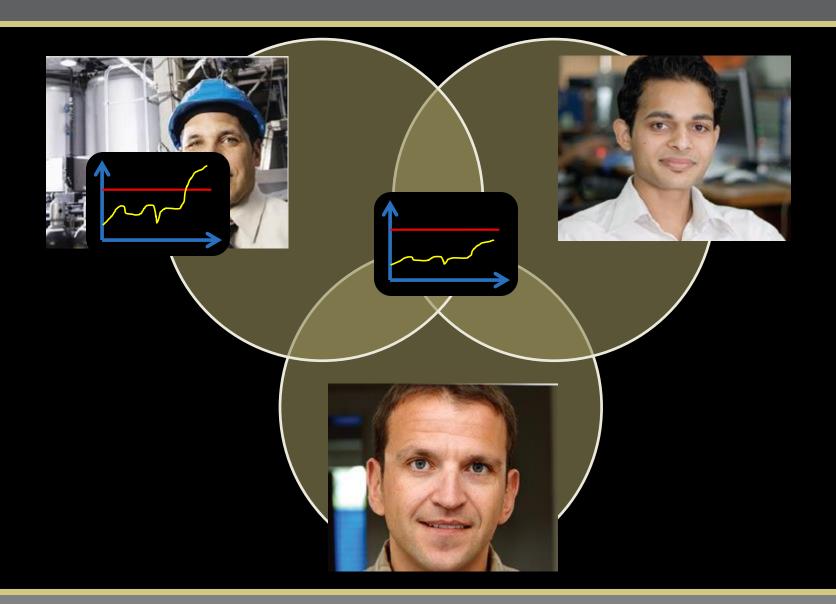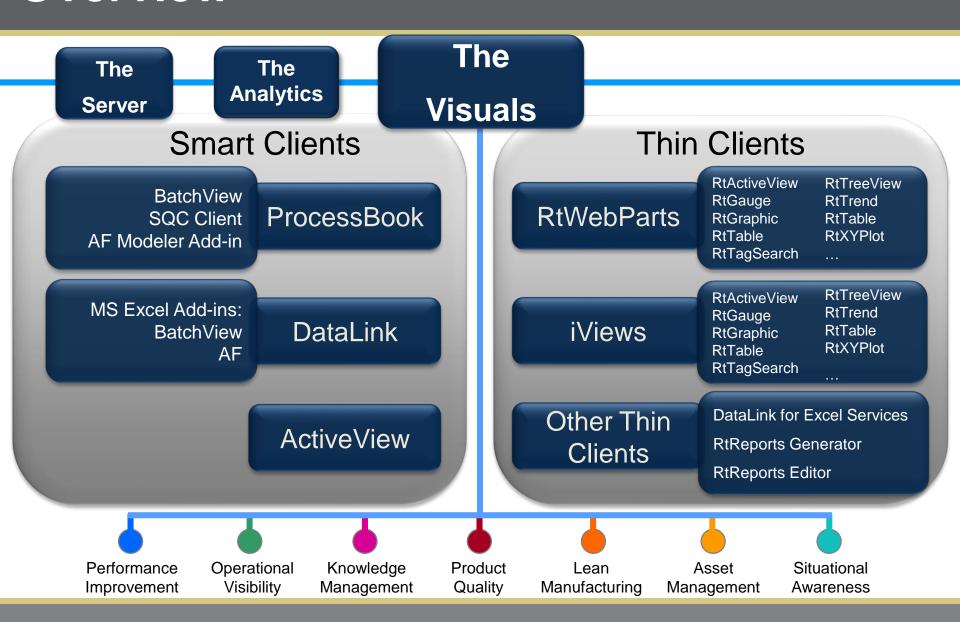**Brian Bostwick
Martin Levionnois
Hans Otto Weinhold**

A Napkin

A Napkin

Collaboration

Overview

The Server

The Analytics

The Visuals

Smart Clients

BatchView
SQC Client
AF Modeler Add-in

ProcessBook

MS Excel Add-ins:
BatchView
AF

DataLink

ActiveView

Thin Clients

RtWebParts

RtActiveView	RtTreeView
RtGauge	RtTrend
RtGraphic	RtTable
RtTable	RtXYPlot
RtTagSearch	…

iViews

RtActiveView	RtTreeView
RtGauge	RtTrend
RtGraphic	RtTable
RtTable	RtXYPlot
RtTagSearch	…

Other Thin Clients

DataLink for Excel Services

RtReports Generator

RtReports Editor

Performance Improvement

Operational Visibility

Knowledge Management

Product Quality

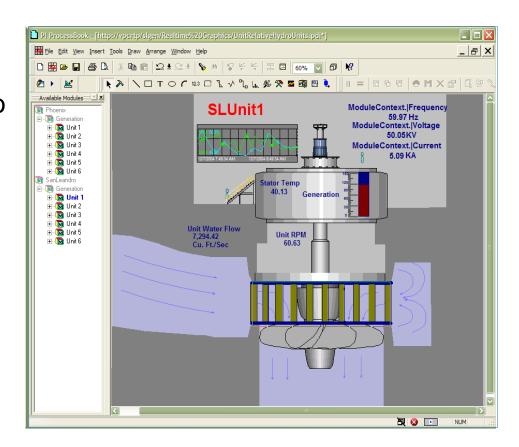Lean Manufacturing

Asset Management

Situational Awareness

ProcessBook

Real-time Data in an Intuitive Graphical Environment

- Build and display graphical views of PI data

- Information for all, Operations to Enterprise View

- Simple to use

- Fosters ownership

- View value, quality and annotation information

- Rich symbol library

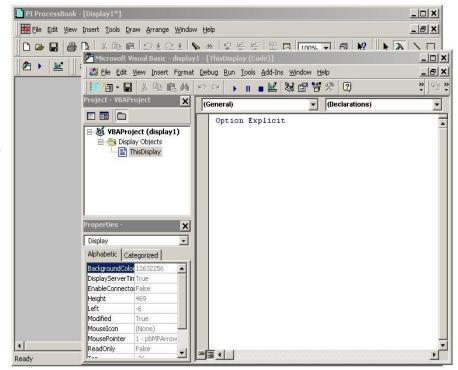- Office integration

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ProcessBook with VBA Integration

Microsoft Visual Basic for Applications

Provides automation capabilities to customize
your PI ProcessBook environment

- Modify the behavior of the objects
  within the PI ProcessBook displays.

- Implement some interaction between items
  within a given PI ProcessBook display or
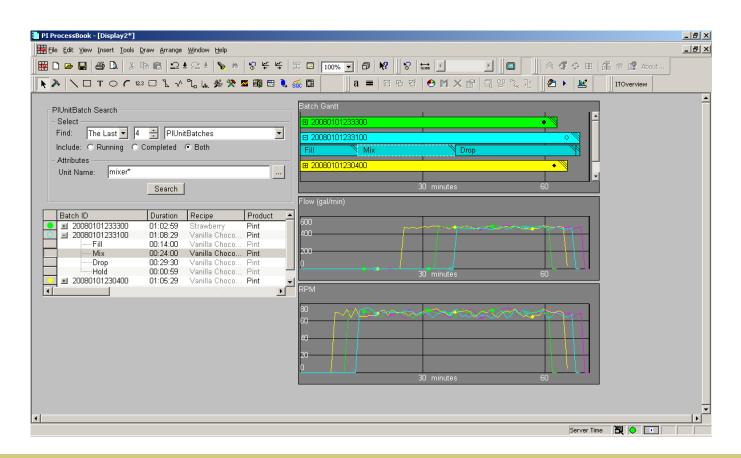 between different PI ProcessBook displays.

Offers unlimited functionality
to your PI ProcessBook displays.

Microsoft | Partner
Program

ProcessBook with BatchView

With the PI BatchView add-in, one can view
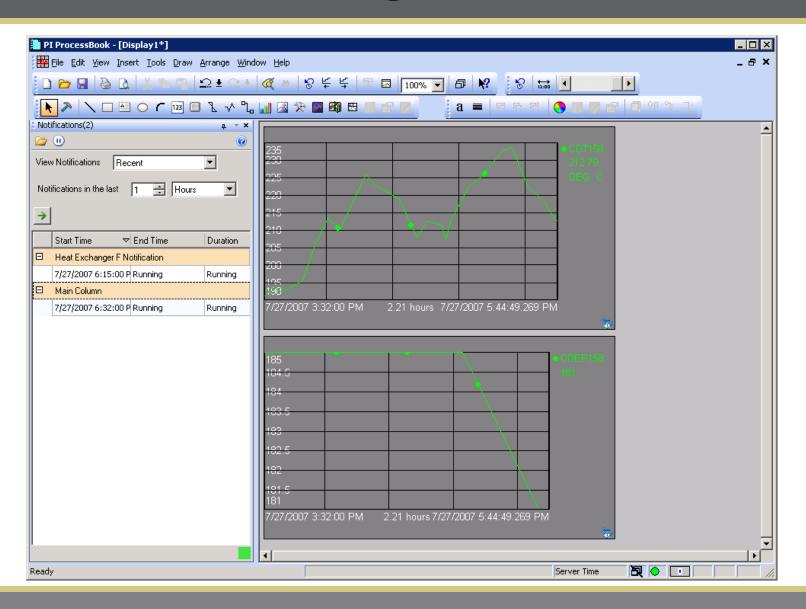live and historical batch data in PI ProcessBook displays.

ProcessBook 3.1

- Buttons and links to displays and files
- Vertical trend
- Usability improvements
  - Formatting toolbar
  - Format painter
  - General UI improvements
- Data Details, statistics, copy to Excel
- Data Favorites
- Automatically add missing PI Servers
- PI Notifications Integration
- Localization support

…ActiveView too.

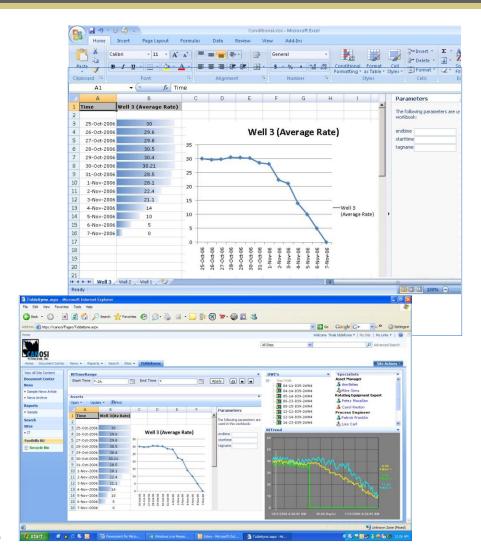# PI Notifications Integration

DataLink

Integrate Real-time Data into Excel

- Provide access to data in PI

- Perform in depth data analysis

- Create interactive reports

- Allows for ad hoc server based calculations

- Publish to SharePoint 2007 to share DataLink reports using Excel Services

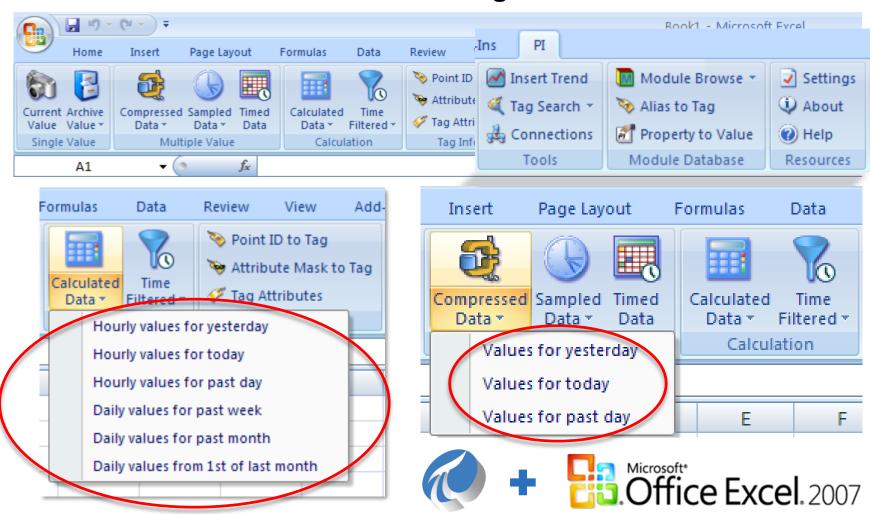**Microsoft GOLD CERTIFIED Partner**

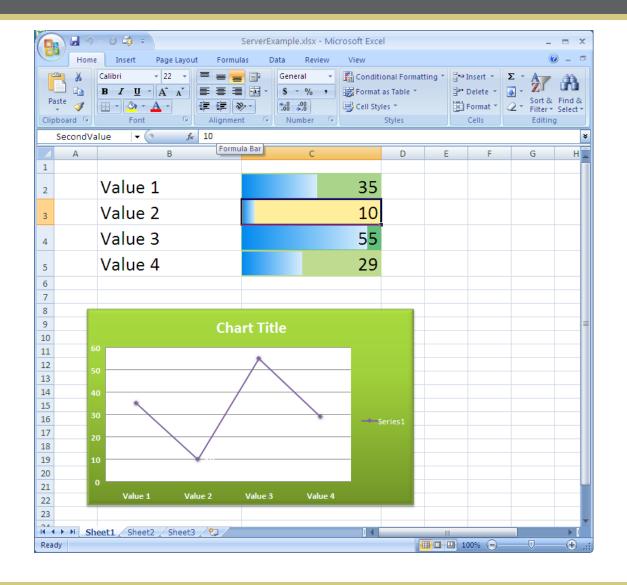**Microsoft® Office Excel®**

DataLink 4.0

- Office 2007 support (also 2000, XP and 2003)
- Office 2007 usability
  - Ribbon interface with quick picks
  - Task pane configuration, single click reactivation
- Automatically add missing PI Servers
- PI Notifications Integration
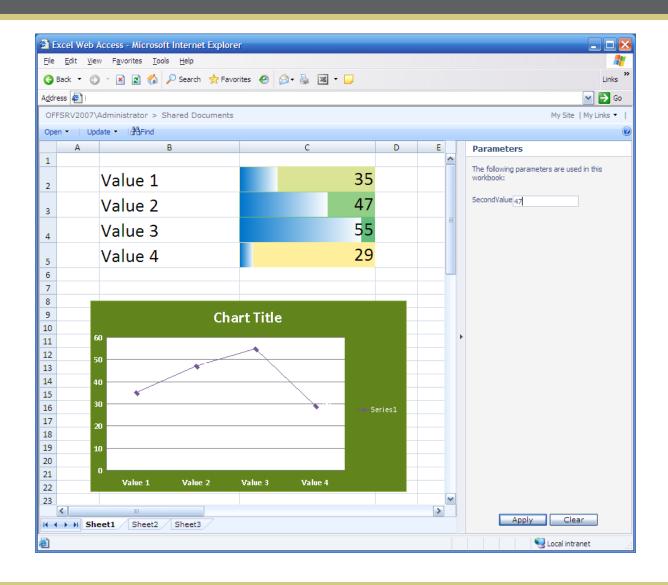- Localization support

DataLink 4.0 UI in Excel 2007
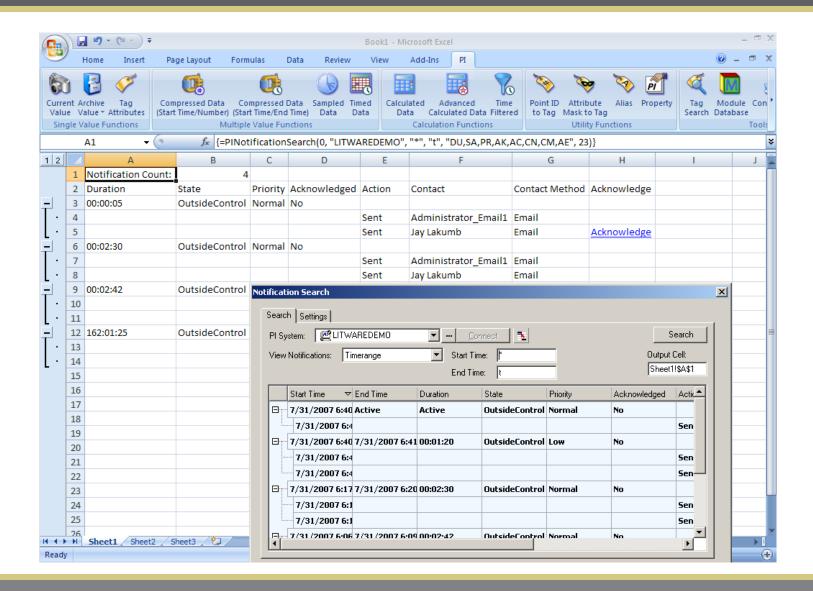
- **Ribbon makes it easier to find the right function**

Excel 2007

Excel Services 2007 for SharePoint

PI Notifications Integration

RtWebParts / iViews

Integration of Real-time Data into Your Portal Environment
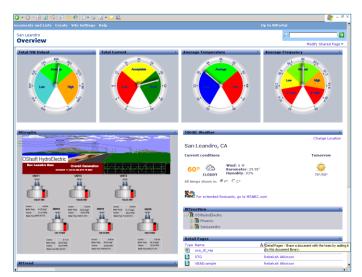
- RtWebParts
- RtPortal iViews

RtWebParts

Configure Pages in Microsoft SharePoint with Real-time Data in no Time.

- **RtGauge:** Dial gauges for value and KPI presentation.

- **RtGraphic:** ProcessBook displays on the web.

- **RtTimeRange:** Changes the displayed timeframe.

- **RtValues:** Display Snapshot and Summary values.

- **RtTimeSeries:** Lists of events occurring within specified time range from any time series data source in tabular form.

- **RtTreeView:** A hierarchical view of contextual data.

- **RtTrend:** Live trend object with configurable time range.

- **RtTable:** Data values and summaries from any time series data source in tabular form.

- **RtBatchTable**: Displays PI Batch data

- **RtMessenger:** A list of contact that can be filtered based on context and status.

- **RtXYPlot:** Display XY Trend

- **RtActiveView:** Updated displays created in PI ProcessBook and saved in PDI format.

iViews

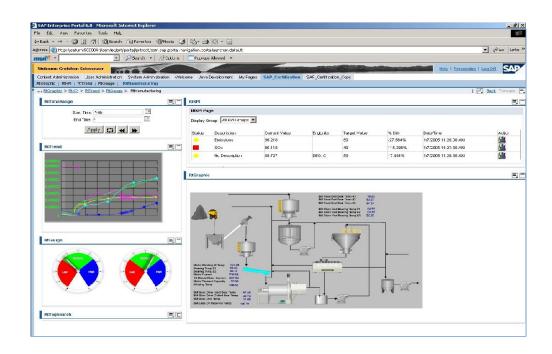## Lets You See Representational Renderings of Enterprise Data in Your SAP Portal Environment.

Browser view showing various iViews:

- RtTrend
- RtTimeRange
- RtTimeSeries
- RtKPI
- RtGauge
- RtGraphic
- RtActiveView
- RtValues
- RtTagSearch
- RtTreeView
- RtTable
- RtTableTemplate

- RtForm
- RtAnnotation
- RtTicker
- RtXYPlot
- RtBatch

iViews are connected and interact using SAP page events.

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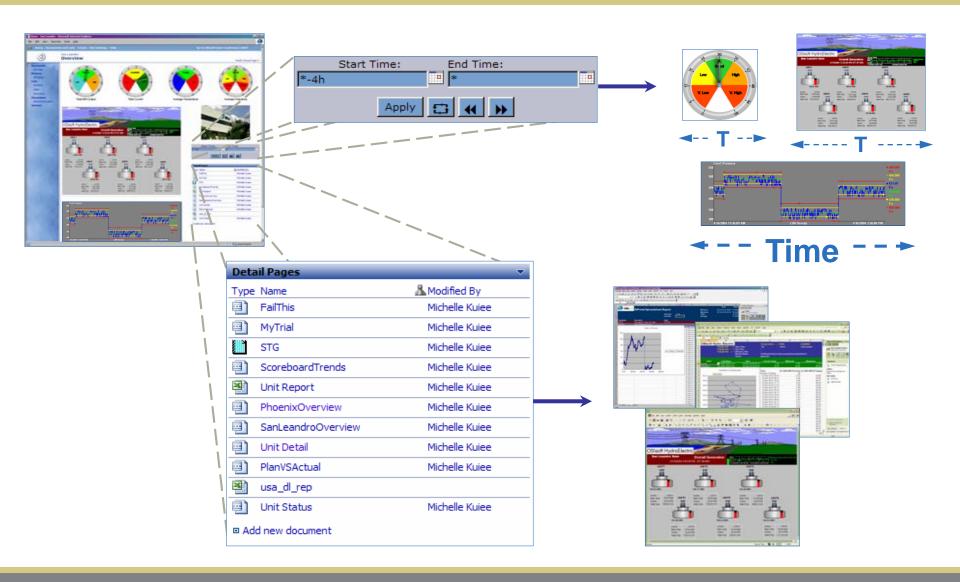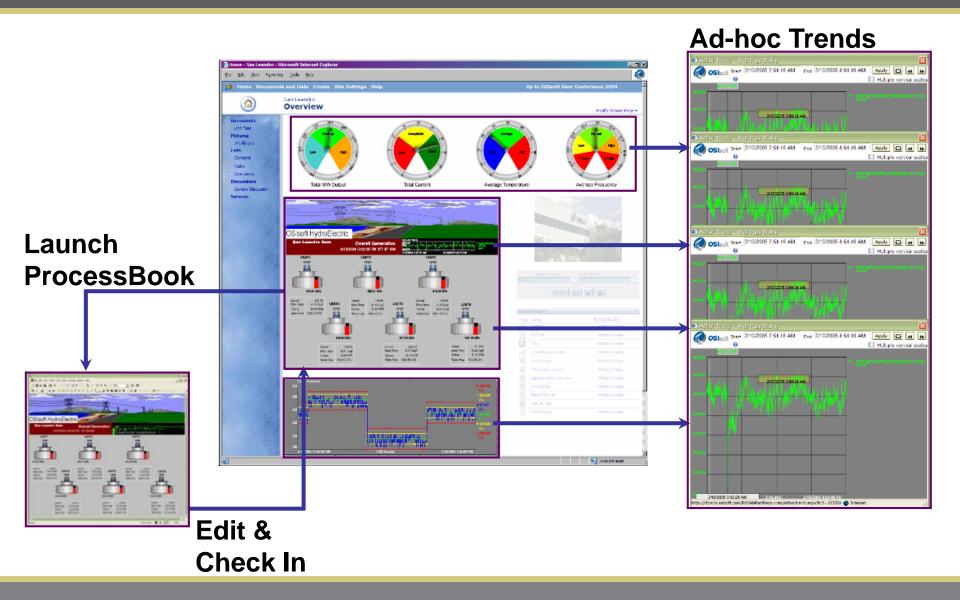
Collaborative environment

Web Part Interactions

Ad-hoc Trends

Launch ProcessBook

Edit & Check In
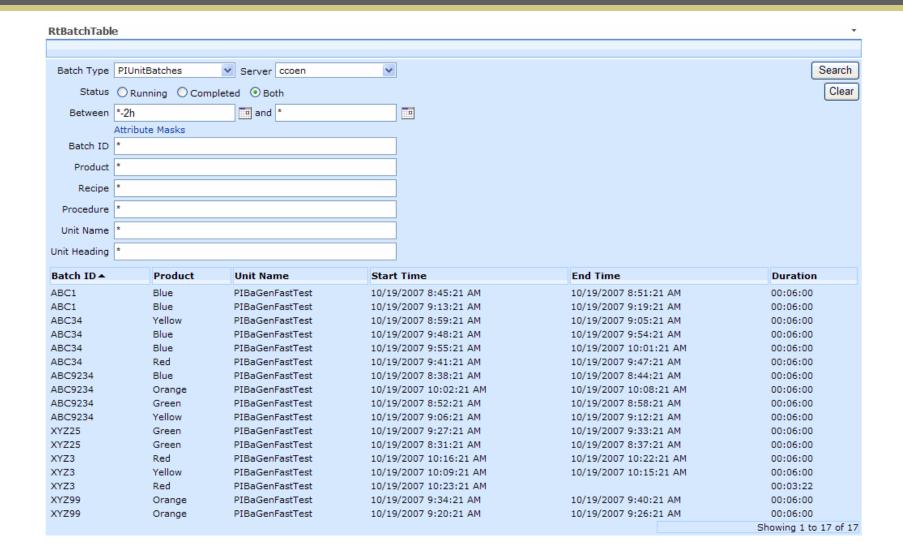
RtWebParts versions 2.1 and 2.2

- RtBatchTable
- Printing enhancements
- PI Notifications Integration
- Usability improvements
- Multiple condition column formats for tables
- Localization Support
- Forms based authentication
- Support for reverse proxy servers, ISA server.

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RtBatchTable

RtBatchTable

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THANK YOU