



ENTERPRISE VISUALIZATION OF YOUR ENTIRE POWER SYSTEM

Utility Intellect provides a single pane of glass for your PI and non-PI data sources, leveraging the power of the PI Asset Framework. Visualize your entire operation from any device, anywhere.

FEATURES

- Flexible, configurable, fast
- Asset management heatmap
- Asset Framework attribute editor
- Access to external Relational Databases
- Leverages the PI Asset Framework
- Charting
- Wiki, knowledge repository
- Drill down dashboards
- Link to Google maps/ESRI
- Integrated alarm and events and KPI's (optional)
- No code required
- Mobile Device aware
- Uses common reporting tools such as SSRS, Tableau and Microsoft Power BI
- HTML5 based

SUPPORTS

PI Vision including:

- Supports existing and new displays
- Ad-hoc trends and displays

Automated reporting:

- Operator logs, downtime, alarms and events excursions

Event Frame data entry:

- Downtime, operator logs
- Plant events, lab data

BENEFITS

- Role based configurable pages/screens
- Fast and easy rollout with zero clientside deployment
- Easy configurable by non-IT people
- Integrate drawings, manuals, SOP's
- All relevant information displayed in one place

GET THE PICTURE

Live PI displays on any device wherever you are.



CHARTING

Easy to use, responsive, configurable charting tools displaying data from your PI and relational databases.



CONFIGURABLE

No code. Easy to configure and deploy. Drag and drop. Intuitive configuration forms.



USE CASES

- Centralize your PI displays, asset health scores, reports, drawings, data entry, Business Intelligence and dashboards to multiple users.
- Interactive visualization for management through to field workers.
- Mobile data entry.
- Management of asset health indicators and analytics.
- Centralized reporting from PI and other sources such as SQL, Oracle, SAP and Maximo.
- Integrated view of maintenance history, work orders, etc.
- Decision support and monitoring of asset performance.
- User comment entry to collaborate with other users. Examples:
 - Logging issues, notes, etc.
 - View and analyze relevant alarms & events and KPI's.
 - Lab data entry.
 - Downtime entry and reporting.
- Access to all information via mobile device.
- Schedule Excel authored reports, condition or Event Frame.

BI

Use standard tools like Power BI, Tableau, or SSRS to help visualize the situation.



ASSET HEAT MAP

Quick view of what to focus on - 'tool tips' for assets with issues.



MANUAL DATA ENTRY

User definable fields and ability to have dropdown, cascaded data entry.



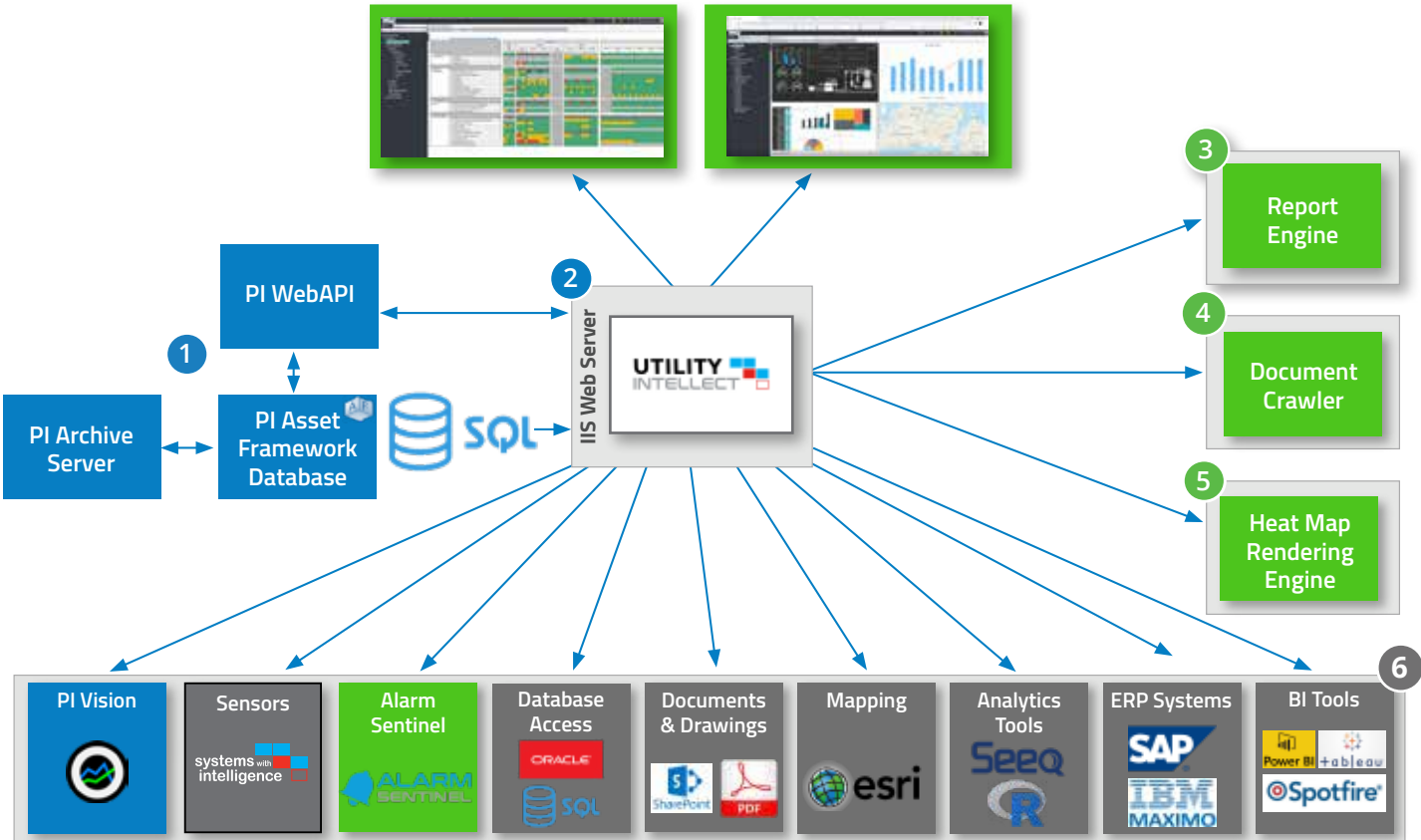
MINIMUM REQUIREMENTS

Asset Framework 2016
Application server with IIS
PI-Vision 2016

PI WebAPI 2016 license
Modern browser

ARCHITECTURE OVERVIEW

Utility Intellect leverages the power of the PI Asset Framework to provide a context driven window into an entire operation. From in-field data entry through to management dashboards, the power of PI and other rich data sources are exposed to the whole business. Leveraging the PI System along with leading industry standard tools helps provide the operational insights required in a modern fast paced business.



LEGEND

- Possible Corporate Components (examples)
- Dimension Software Components
- OSIsoft PI System Components

TECHNICAL DETAILS

- 1 Utility Intellect reads and writes data to the PI Asset Framework and PI Archive servers. Event Frames can be added, modified, and deleted and written back to the PI system. Asset Framework Element values can be modified using the Attribute Editor of Utility Intellect.
- 2 Utility Intellect is an IIS and SQL based web application that leverages the PI Asset Framework to bring together many sources of information in a contextual, asset centric, configurable view. Components in item 6 below can all be easily pulled into Utility Intellect either directly or via our inbuilt configurable content. Inbuilt capabilities include data entry to PI, document viewing, AF Attribute editor, tabular data viewer (e.g. SQL), PI Event Frame viewing/editing, asset health map and more.
- 3 The Excel based Report Engine (a Windows Service) generates reports on a schedule, Event Frame or on PI condition. It will email the report, attach to an Event Frame and load into the Asset Intellect portal. It is user configurable via the web GUI.
- 4 The Document Crawler (a Windows Service) is user configurable. It finds all documents matching a filter and loads the paths into SQL for quick, easy user access via the GUI.
- 5 The heat map is designed to give an instantaneous pictorial view of the health of an asset. The engine (a Windows Service) is user configurable and allows for a multitude of AF based asset condition parameters. The engine is used to pre-render the map for quick easy end user access.
- 6 Interfacing – The philosophy is if information is available and relevant in other system such as Accounting, Mapping, Stores then it should be seamlessly available within the context of the AF structure. The linkage to systems of record (corporate information systems) is provided via Asset Intellect standard interfaces..



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