



Example use cases

Power your assets with leading operational intelligence

CONDITION MONITORING

Asset Intellect delivers flexible, configurable solutions to improve reliability, decrease unscheduled downtime, and plan your scheduled maintenance for optimum efficiency.

OPERATOR DASHBOARDS

Bring together a range of data from multiple sources to create a holistic view of your operation. This includes production, downtime, alarms, safety, maintenance, staff recognition, and more.

WORKFLOW

Events can come from multiple sources, including plant events, operators, analytics, and IOT. Asset Intellect allows configurable workflow actions including work orders, emails, API calls, PowerShell actions, and much more.

LEGACY SYSTEMS

Replace unsupportable, costly, bespoke spreadsheets that no longer deliver to requirements. Asset Intellect provides configurable web based data entry to capture data while in the field.

Minimise cost of ownership, along with process and data duplication.

PROCESS SAFETY

Gain visibility and certainty into the status of your plant safety critical equipment. This ensures mandatory compliance obligations are delivered based on evidence.

Dashboards display actionable insights into your safety instrumented systems, allowing early identification of pending issues.

DATA GOVERNANCE

Asset Intellect creates a single corporate version of the truth including displays, BI, reports, alarms, documents and more.

Data remains in its native repository removing the need for duplication. This ensures uniform data visualization throughout the enterprise.

Your one stop shop for relevant contextualized data

ALL OF YOUR PLANT OPERATIONS IN ONE PLACE

- Advanced visualization
- Shift logs
- Downtime / OEE
- Manual data entry
- Reporting
- Case management and workflow
- Asset health maps
- SharePoint integration
- BI integration
- Alarms and events

FLEXIBLE, QUICK, AND EASY

- Fast and easy rollout with zero client-side deployment
- Rapid solution development
- Role-based displays
- Easily configurable - no code
- Mobile device aware
- Modular
- Scalable
- AD integrated

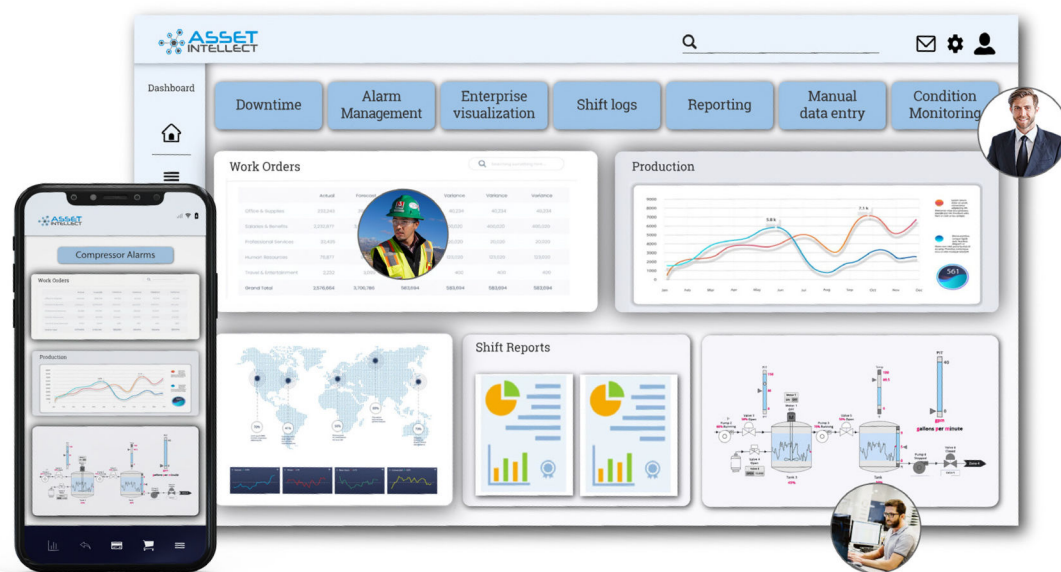


BRINGING OT AND IT TOGETHER

- Uses the PI Asset Framework and PI Vision
- Access to external relational databases such as SQL and Oracle
- Pulls in CMMS data to mash with your PI data
- Provides real-time situational awareness
- Integrates with cloud-based solutions
- Integrates with IOT and advanced analytic solutions
- On-premise or cloud-based

MAXIMIZE EXISTING INVESTMENT

- Leverage existing PI and IT infrastructure
- Use common reporting tools, such as SSRS and Power BI
- Open standards for linking to other data sources
- API calls and PowerShell actions supported
- Incorporate existing applications
- Link to document management systems





Features and capabilities

Asset Intellect is a highly flexible, modular, one stop shop for operational transformation.

With a wide range of configurable components, users can quickly create a powerful AF based platform that enables smarter data-driven decisions.

KEY FEATURES

Below is a selection of key features:

Read/Write to SQL, PI, and Event Frames

Create configurable data entry forms and retire old Excel based data entry.

Vector graphics using SVG

Allows live data from PI, API's, ODBC sources, and SQL. Examples include HSE safety crosses, time usage model visualization, animations, and more.

Scheduling Engine and workflow

Allows integration to platforms such as SAP and Maximo. Update counters or create Notifications on events. Easily automate your SSRS and Excel reports.

Shift logs

Full flexibility forms and handover notes integrated with process data, short interval control, production reporting, and maintenance information all via easy configuration.

Alarms and events

Bring together your DCS and SCADA alarms in context of your PI data, wiki, and master alarm database.

Create PI-based alerts for your Remote Operations Centre... triage, assign and create engineering cases for further analysis.

ASSET INTELLECT		DIMENSION SOFTWARE	
Use Cases			
Shift Logs	Alarm Management	Workflow Scheduling Engine	Enterprise Visualization
Downtime / OEE	Case Management	Reporting	Notifications
Manual Data Entry	Condition Monitoring	Interactive Dashboards	Asset Health Map
User Created Content			
Alarm Sentinel	File Viewer	SQL Editor	Custom URL
Tabular Data Grid	AF Attribute Editor	PI Vision	R Shiny
Sharepoint	GIS Map Viewer	SVG	AI Charting
Content Filter	Wiki	Healthmap	Control Loops
AF Event Frame Editor	SSRS Reports	Power BI	Seeq
Technology Platform		Connectivity	
IIS	REST API	SQL	AD
Asset Framework	SQL	Oracle	ODBC
	OleDb	API	

TECHNOLOGY PLATFORM

The Asset Intellect platform is an IIS hosted website utilizing a SQL Server database for content management. It supports Active Directory and SSO user authentication, along with comprehensive user roles and permissions.

The website is a modern Angular-based solution with a full range of supporting REST API's.

In addition to the website, Asset Intellect runs several Windows Services engines carrying out workflow and scheduling tasks, document library integration, and heatmap offline rendering.

CONNECTIVITY

Asset Intellect supports a wide range of connectivity.

The left hand asset tree is primarily based on the PI Asset Framework. Other API-based connectors can be introduced to support asset structures that are not AF-based.

Full support for the AVEVA PI System includes AF, PI Data Archive, AF Event Frames, and AF Attributes.

A key strength of Asset Intellect is the ability to query and visualize data from SQL, ArcGIS, ODBC and OleDb data sources such as Oracle, SharePoint lists, Cloudera, Azure IOT, and much more.

Supports querying and visualizing REST API-based data.