



Integration

Managing seamless data integration

Benefits

- Asset management data for decision making is:
 - up to date
 - complete
 - accurate.
- Staff can focus on more value adding work instead of collating or manually adding information from different data sources for decision making.
- Asset owners and decision makers can have a comprehensive real time view of their organisation from an Asset Management perspective from their EAM system.
- Maximise the value of data gathered through different systems and devices.

A modern Enterprise Asset Management (EAM) software solution plays a key role in the successful implementation of a comprehensive Asset Management System. This EAM solution usually consists of a number of systems that should be integrated seamlessly. Furthermore, this EAM solution should effectively integrate with other information management systems such as finance, human resources, materials management, manufacturing execution, customer relationship management and condition monitoring.

Modern business expects these systems to automatically work as one solution and provide users with a 'single version of the truth' on all user platforms without the need for manual user intervention to keep systems in sync. To meet this stringent demand, it is crucial for any enterprise software application to provide application integration interfaces through which information can be inserted into, or extracted from the application. On Key addresses these requirements through web services, the On Key Interface Tool and On Key Analytics.

Concerns Addressed

- My systems do not 'speak' to each other.
- Manual integration processes are error prone and time consuming.
- My equipment is at risk because the decision making information is outdated.
- Our organisation does not have the expert knowledge to implement seamless integrations.
- The network architecture and/or server configuration prevents us from integrating different systems/applications.
- I am concerned about information security and On Key data integrity.
- The interface may fail without me knowing about it.
- My organisation cannot deal with the Internet of Things.



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Key Features

On Key provides three basic integration mechanisms, namely:

- Import/export web services through which the business objects in On Key can be accessed directly by other applications. This allows clients maximum flexibility to shape the On Key integration with other systems.
- A standalone interface tool that allows users to import/export data to and from On Key through a traditional file based approach. This solution provides a simple, minimal programming option for clients to integrate On Key with other systems which also support file based interfacing.
- Information integration for analysis purposes through On Key Analytics. This allows clients to obtain a combined view of information in On Key and 3rd party data sources without actually importing the 3rd party data into On Key.

The On Key web services have the following characteristics:

- SOAP and REST based web services are provided.
- Import web services supports synchronous and asynchronous operation.
- The export web service relies on user definable (Analyser) queries loaded into On Key.
- The same On Key business logic is applied for user interface entries.

The On Key Interface Tool has the following characteristics:

- Uses On Key web services for direct communication with the main On Key application.
- UTF-8 encoded flat files in support of global enterprises with multilingual requirements.
- Comprehensive error and activity log for fault finding.
- Automated fault reporting via e-mail.
- Exports defined by user definable (Analyser) queries loaded into On Key.

Integration of information through On Key Analytics has the following characteristics:

- Information from almost any data source can be viewed with asset management data in On Key.
- Information from third party sources is not imported into the On Key database.
- On Key Analytics is powered by QlikView®, a leading BI solution provider.

On Key is supported by:

- An off-the-shelf integration solution with Syspro's material management module.
- A number of other 'ready to customise' integration solutions that can be deployed to provide further integration logic between different systems. These solutions are based on the Microsoft SQL Server Integration Services (SSIS) platform that ships with the On Key installation and can be used to tailor make an integration solution to specific client needs.

On Key Interfacing Capabilities

The illustration gives a summary of all the information integration options that could be used with On Key.

