

BIG DATA DOCUMENT SOLUTIONS

INSTANT INSIGHTS IN YOUR TECHNICAL DOCUMENTATION

LEGACY DOCUMENTS PROBLEM

DOCUMENT CONTROL MAZE

Keeping track and control on sometimes decades of historic documents of complex assets and within huge organizations is extremely difficult and time consuming.

- Lots of documents scattered around in different databases
- Information is often distributed over multiple documents, which are not linked (actively)
- Many different types of documents (printed/digital, text, technical drawings, etc.)
- Version control is difficult, but essential for quality control and certification
- Most document management SW uses only common (folder) index to organize its content



BIG DATA IN DOCUMENT MANGEMENT

MAKE YOUR DOCUMENTS RELATIONAL AND CLICKABLE

Big data analytics enable you to create a smart dynamic technical documentation index, within your unstructured mountain of (historic) data.

- Combining drawings and manuals via intelligent shape & text recognition
- Fully searchable due to (clickable) cross-references between documents and their content
- Self-learning by using machine-learning to be adaptive to document structure changes
- **Detecting and alerting** incorrect and missing relevant documents
- Companies like Total & NAM selected our solution for their assets documentation monitoring







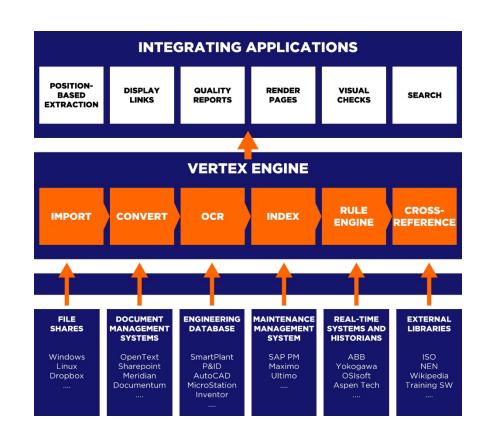


MACHINE LEARNING SAVES COST

SMART INDEXING WITH VERTEX ENGINE

Our solution deploys a whole set of dedicated algorithms to automatically index your oil & gas domain specific documents. Where people need weeks to years to do in themselves, our solution does it near instantly.

- Verification check during import
- HTML5 conversion
- OCR on text and object symbols (e.g. P&ID, well schematics, etc.)
- Dynamic indexing based on document information
- Automatic meta data creation via semantic machine learning
- Full dynamic searchable by generating cross-reference links
- Updating master cross-reference tables





FUNCTIONALITY

DYNAMIC CROSS-REFERENCING IN DOCUMENT MANAGEMENT

- Digitization of complete document structure in HTML5
- Create cross-references between documents, drawings and data
- Fast searchable content at macro level
- Control of missing or incorrect content
- Self-learning during growing and evolving document database
- Classification of documents, drawings and their relevant content
- Organizing information at different levels (e.g. per asset, total organization, etc.)
- Real-time data integration



4 CHARACTERISTIC USER CASES

SINGLE ASSET VIEW

- All information in one view with links between all relevant documents and data
- Manuals, instructions, technical drawings and operational data integrated

DOCUMENT-DATA INTEGRATION

- Existing documents automatically classified for analytics and integration
- Technical drawings, manuals and realtime data combined into a single view

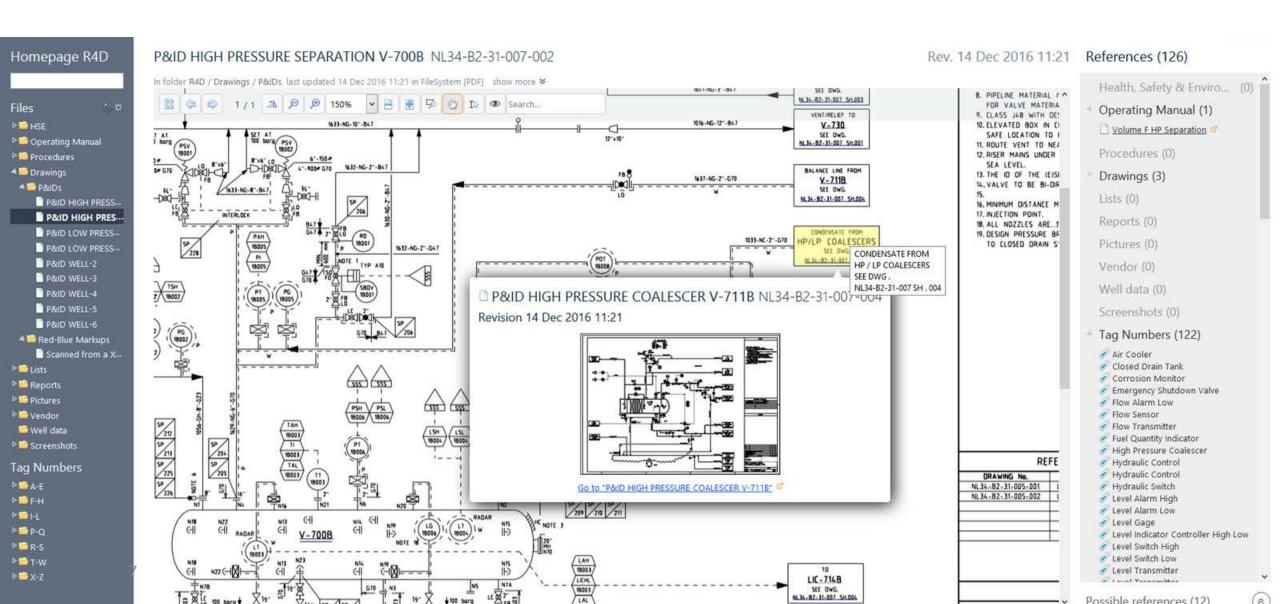
QUALITY CONTROL

- Incorrect or missing information automatically identified
- Latest version always shown regardless of where documents or data are changed

NEW BUILDS

- Overview of entire engineering project, accessible for all stakeholders
- Notification of document or data changes made in asset information systems

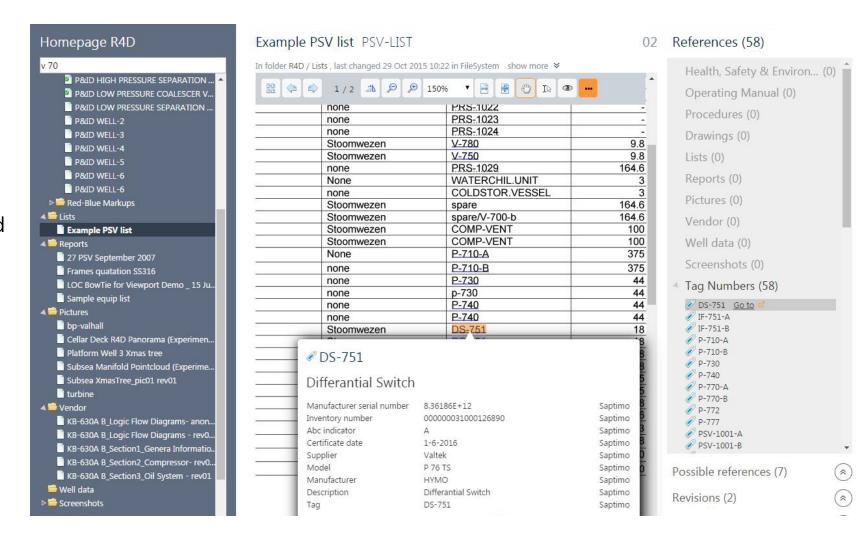
SCREENSHOTS APPLICATION



REFERENCE LINKS PER TAG NUMBER

AUTO-GENERATED LINKS

- Tag numbers are automatically identified
- Additional associated information is shown
- Reference links to related documents

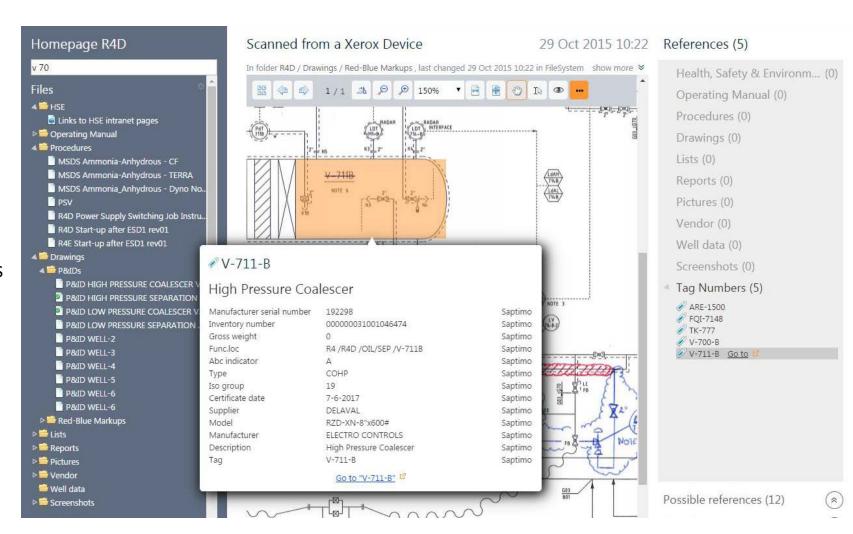




REFERENCE LINKS PER OBJECT

LINKING OBJECTS

- Also objects in technical drawings are identified and referenced to other information and documents
- Review labelled information
- Link to related documents and drawings

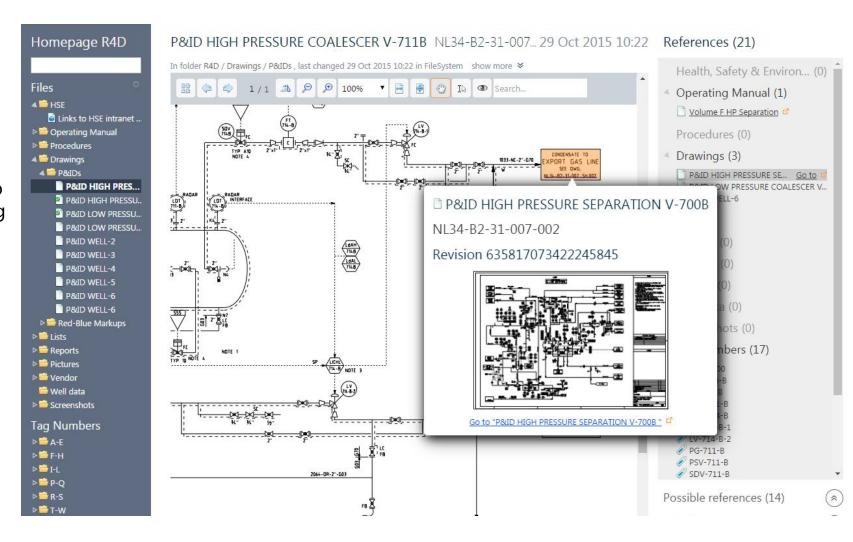




PREVIEW MODE

PREVENT USELESS CLICKS

- When clicking on a link, it is shown first in preview mode
- The preview allows you to continue to the underlying document

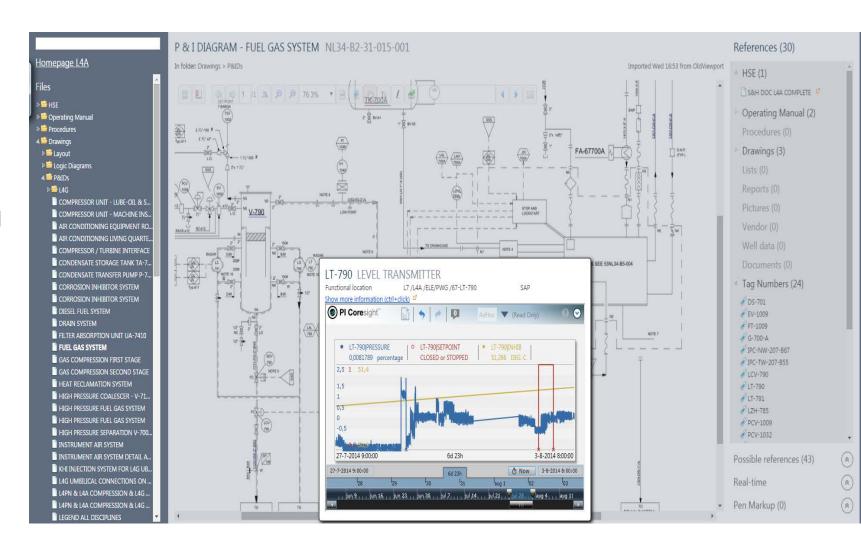




REAL-TIME DATA INTEGRATION

RELATED DOCUMENTS TO 'LIVE' DATA

- Real-time data feeds can be integrated into you documents and drawings
- Available for OSIsoft PI Server, OSIsoft PI AF and Wonderware Historian

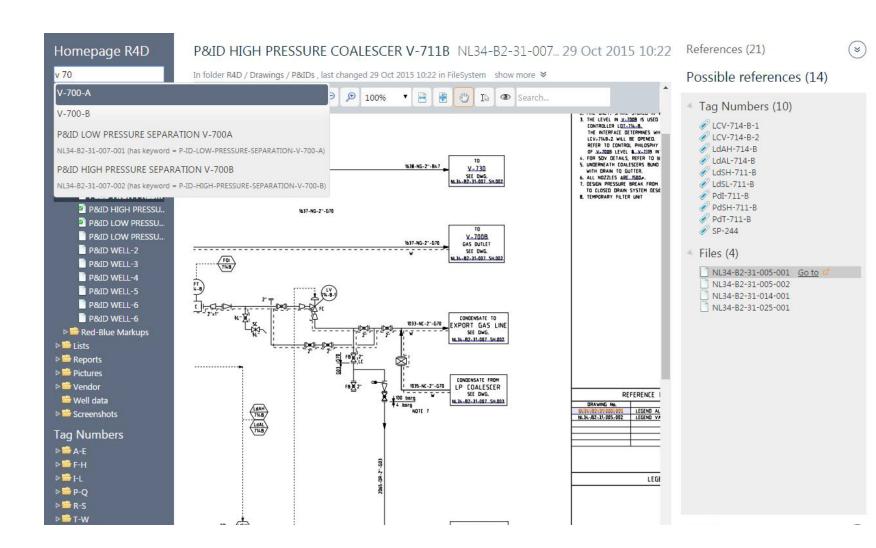




SEARCH & FIND

QUICK FILTERING

- When starting typing, initial results are shown instantly
- Select the right item to continue to all relevant information





SCANNED DOCUMENTS ARE INCLUDED

MAKING DOCUMENTS RELEVANT AGAIN

- Besides digital documents, obviously also scanned (paper) document and drawings can be included
- Old tag numbers will be related to your new document structure

