



UniversalReporter

Use Case 4: Update process data for P&ID

CHALLENGE

Data is stored in different locations/departments each having the ownership of parts of the data. Data must be imported in a controlled process to the SmartPlant P&ID application.

WORKFLOW STEPS

1. Extract data from the source application

Item Tag	Fluid Code	Design Max Press	Design Max Temp	Piping Materials Class	Drawing Name
05139-W	W			1C0031	Po Wa
05140-W	W			1C0031	Po Wa
05144-W	W			1C0031	Po Wa
05183-W	W			1C0031	Po Wa
05276-W	W			1C0031	Po Wa
05367		5 bar	10 C		Po Wa
05375-W	W	6 bar	60 C	M10C2ES	Po Wa

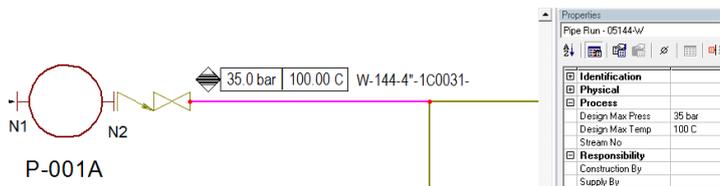
2. As Process Engineer add / modify technical parameters

Item Tag	Fluid Code	Design Max Press	Design Max Temp	Piping Materials Class	Drawing Name
05139-W	W	20 bar	200 C	1C0031	Po Wa
05140-W	W	20 bar	200 C	1C0031	Po Wa
05144-W	W	35 bar	100 C	1C0031	Po Wa
05183-W	W	35 bar	80 C	1C0031	Po Wa
05276-W	W	36 bar	81 C	1C0031	Po Wa
05367		5,5 bar	10,5 C		Po Wa
05375-W	W	6 bar	60 C	M10C2ES	Po Wa

3. Import the modified reports into **UniversalReporter**

Item Tag	Fluid Code	Old Value_of_De	Design Max Press	Old Value_of_De	Design Max Temp	Piping Materials
NOT-NULL			Changed Values			
05139-W	W		20 bar		200 C	1C0031
05140-W	W		20 bar		200 C	1C0031
05144-W	W		35 bar		100 C	1C0031
05183-W	W		35 bar		80 C	1C0031
05276-W	W		36 bar		81 C	1C0031
05367		5 bar	5,5 bar	10 C	10,5 C	
05375-W	W	100 psi	6 bar	99F	60 C	M10C2ES

4. Write the changes to SmartPlant P&ID



SOLUTION

- **UniversalReporter** allows modification of source data using the familiar Microsoft Excel interface; the data can be modified by users from different departments each adding their part of information and then imported into **UniversalReporter**
- The changes towards the Smartplant P&ID application are traced in a history file (history logging)
- In addition:
 - Verification steps ensure all changes are applied correctly (for example check of codelist values)
 - Restricted data cannot be changed
 - Changes are propagated to connected objects as defined in the rules
 - Changed data is reflected in labels on the corresponding SmartPlant P&ID documents

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Contact & information:

CAXperts GmbH Carl-Zeiss-Ring 4
P.: +49 89 96 97 72 0 85737 Ismaning – Germany

www.caxperts.com/ur
info@caxperts.com

