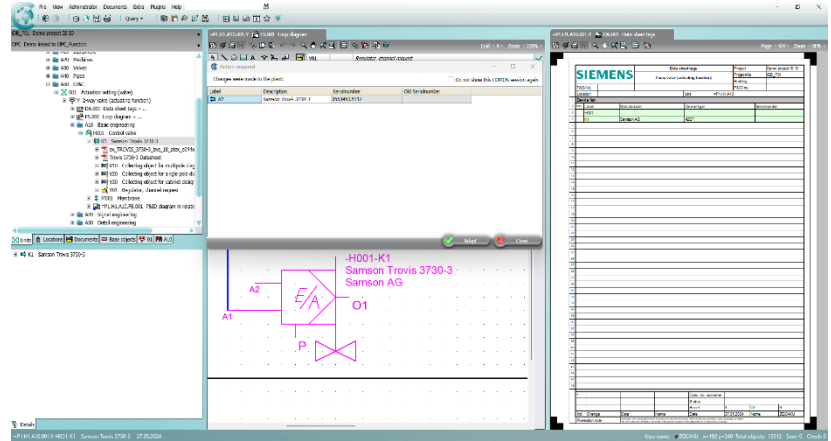


The use case "Automated as-Built" detailed in the NE176 NOA Information Model involves conducting a comparison between the instrumentation currently installed and the planned status. This process includes comparing parameters stored in the field devices with those documented in engineering records within a CAE tool (Computer-Aided Engineering).



A specialized comparison tool is utilized to read the parameter values from the field devices (As-Built), match them with the values in the planning CAE tool (As-Planned), and identify any discrepancies.

A dashboard for field devices could look like the following, where a field device, TT01, has an issue:

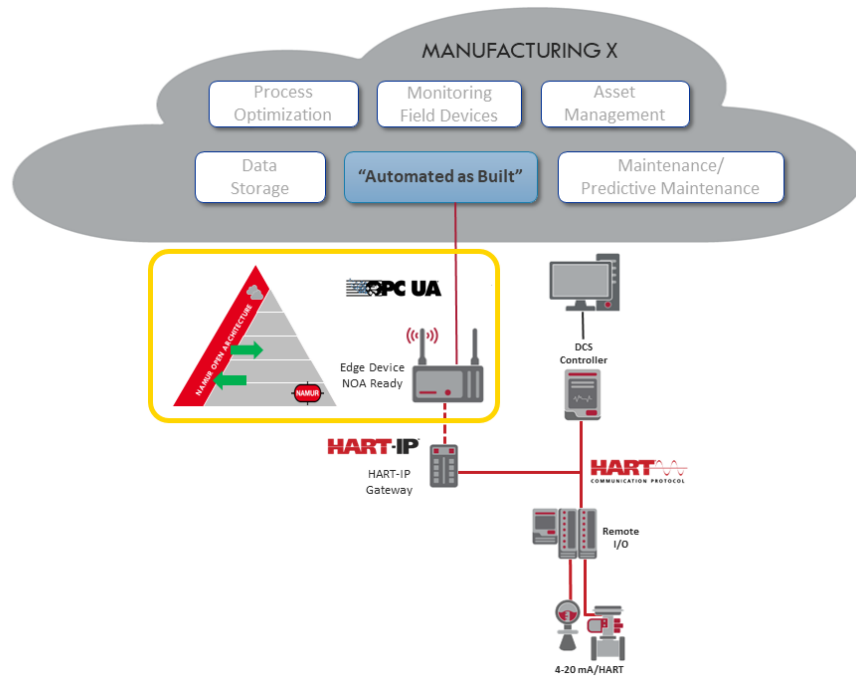
| AssetId | IL string                               | Status |
|---------|---|--------|
| TT01    | id.abb.com/9AAC129112?SN=3K650000554982 | not ok |
| TT02    | id.abb.com/9AAC129112?SN=3K650000678342 | ok     |
| TT03    | id.abb.com/9AAC129112?SN=3K650000554984 | ok     |
| PT01    | id.abb.com/9AAC158718?SN=3K650000123562 | ok     |
| PT02    | id.abb.com/9AAC158718?SN=3K650000647838 | ok     |
| ...     |   | ...    |

**VALUE OF PA-DIM**

USING PA-DIM  
 ALLOWS USERS TO  
 IDENTIFY DEVIATIONS  
 QUICKLY AND  
 TRANSPARENTLY  
 WITHOUT THE NEED  
 FOR AN ON-SITE  
 INSPECTION &  
 IDENTIFICATION

The detailed view for Temperature Transmitter TT01 shows that the signal TTS01 was planned with Grad Celsius but built with Grad Fahrenheit:

| IRDI                                  | Parameter            | As planned          | As build                                | Status |
|---------------------------------------|----------------------|---------------------|---|--------|
| <a href="#">0112/2///61987#ABA565</a> | Manufacturer         | ABB                 | ABB                                     | ok     |
| <a href="#">0112/2///61987#ABN591</a> | ManufacturerUri      | abb.com             | abb.com                                 | ok     |
| <a href="#">0112/2///61987#ABA567</a> | Model                | TTH300              | TTH300                                  | ok     |
| <a href="#">0112/2///61987#ABA300</a> | ProductCode          | 9AAC129112          | 9AAC129112                              | ok     |
| <a href="#">0112/2///61987#ABN590</a> | ProductInstanceUri   | id.abb.com/9AAC1291 | id.abb.com/9AAC129112?SN=3K650000554982 | ok     |
| <a href="#">0112/2///61987#ABA038</a> | AssetId              | TT01                | TT01                                    | ok     |
| <a href="#">0112/2///61987#ABB271</a> | SignalTag            | TTS01               | TTS01                                   | ok     |
| technology specific                   | EngineeringUnits     | Grad Celsius        | Grad Fahrenheit                         | not ok |
| technology specific                   | EURange              | 0-100               | 0-100                                   | ok     |
| technology specific                   | InstrumentRange      | 0-1000              | 0-1000                                  | ok     |
| <a href="#">0112/2///61987#ABB271</a> | SignalTag            | TTS02               | TTS02                                   | ok     |
| technology specific                   | EngineeringUnits     | Grad Celsius        | Grad Celsius                            | ok     |
| technology specific                   | EURange              | 0-100               | 0-100                                   | ok     |
| technology specific                   | InstrumentRange      | 0-1000              | 0-1000                                  | ok     |
|                                       | More NE131 parameter |                     |   |        |



**From HART to PA-DIM**

- ✓ Simple Access to Field device Data via NOA IM (PA-DIM)
- ✓ No configuration required
- ✓ All device-specific data available
- ✓ Description files (FDI Device Package / EDD) from an integrated pool
- ✓ Available for all devices from HART v5
- ✓ Standardized Data directly usable for many other Monitoring and Optimization (M+O) solutions