



Engineering Analysis, Intelligent Solutions

SPI Management of origin in Engineering Project

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Origin in the engineering project

When working in the brownfield project within SPI As Built engineering project, have you ever asked the question – where is this coming from, is it existing tag (loop, JB, etc.) or is it being added in the project?

Origin in the engineering project

- ✓ In greenfield projects everything is easy, everything is new staff
- In brownfield things are more complicated:
 - ❖ Physically existing
 - ❖ Being added by the project

Impact on multiple aspects of the As Built:

- Claiming
- Management of access and rights
- Merging

Access rights – CR PB-219848:

As an SPI Administrator in charge of the SPI data management at the operating facility, I want to be able to control the types of changes made in the engineering project, so that higher level of control of the engineering work done by the contractor can be exercised.

CR PB-219848 – Condition of satisfaction:

SPI Administrator should be able to set different access rights on main entities in SPI project depending if they were claimed from the As Built or created in the Engineering Project. So for some of the existing access rights a new one should be created reflecting these 2 separate conditions, e.g. something like “Claimed:<definition>” and “Project created:<definition>”.

Origin in the engineering project

CR PB-219848 – Condition of satisfaction:

These definitions include, but are not limited to:

- Tag Definition;
- Specification Definition;
- Process Data Definition;
- Loop Definition;
- Wiring connections;
- Plant Panel Management;
- Plant Cable Management;
- Line definition;
- Enhanced Report Chag (Layout);
- Control System tag Operations;
- Custom Table 1-16 definitions

Origin in the engineering project

- **CR PB-219848 – Condition of satisfaction:**
For example SPI Administrator who claimed instrument tags, panels and cables to the Engineering Project should be able to set access rights to allow creating new panels, cables, tags and specifications in the project and being able to freely delete them but not be able to delete claimed instruments, cables or panels and only marked them for demolition using the entity status.

Origin in the engineering project

CR PB-219848 – Assumptions:

- To limit the amount of work for SPI administrators not interested in the above feature it should be only available for the “Owner Operator” type of domain and not to the “Engineering Company” type of domain;
- When the feature is initially implemented, access right value to both “Claimed:” and “Created:” type of access rights should be inherited from the current value of the item definition access rights during the upgrade; proper value can be set by administrator later on;
- When the type of domain is changed from the EPC to O/O access right value to both “Claimed:” and “Created:” type of access rights should be inherited from the current value of the item definition access right; proper value can be set up by the administrator later on;
- When the type of domain is changed from the O/O to the EPC, access right value for the definition should be taken from the “Claimed:” type of access rights as usually more restrictive.

Q&A / Discussion

