Siemens RA product versioning Fertigungsstand and Gerätestand explanation

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Abstract—Explaining of the diference between Fertigungsstand and Gerätestand term used in Siemens Product Number specification.

Index Terms—Fertigungsstand, Gerätestand, Eisenbahn-Bundesamt (EBA), BOM (Bill of materials)

I. Introduction

IN general Siemens product manufactured in Braunschweig factory are identified by Siemens Product Number (e.g. s25184-p1000-f1) and also with SSN code (e.g. A2V00002461303). Siemens Product number also contains information about hardware version.

The product status is shown in the Siemens Product Number, blocks b and c (see 1): The production state (Fertigungsstand) is separated from the functional device state Gerätestand by the separator point.

$$\underbrace{S25601 - T1 - A12}_{a} - \underbrace{1}_{b} \cdot \underbrace{B}_{c} \tag{1}$$

where

- a ... Siemens Product Number (SSN)
- b ... Gerätestand (major release)
- c ... Fertigungsstand (minor release)

II. Fertigungsstand

The production state is identical to the existing BOM revision of the product. It is incremented continuously with each change of the BOM as can be seen in the figure 1.
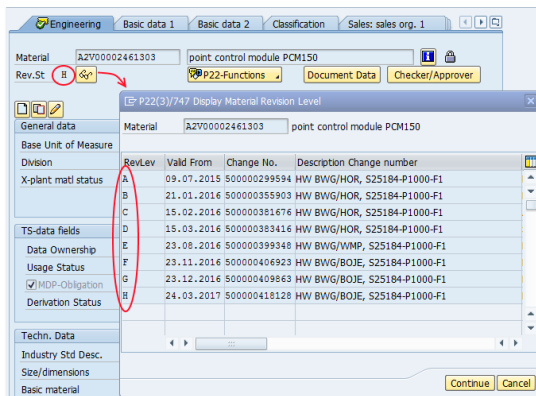

Fig. 1. Fertigungsstand equals to the Rev. St. field in the SAP system. In the window Dislay Material Revision Level ca be seen history of the PCM 150 product.

III. Gerätestand

The production level corresponds to the "manufacturing technology equipment" (fertigungstechnischen Gerätestand) of the procedure requested by the VDB at the Eisenbahn-Bundesamt (EBA) for the "simplification of the approval procedure.

The major release number is generally increased according to the Siemens standard, if the compatibility is no longer ensured after modification. As a rule, expert opinions or approvals of the EBA are also generally based on this identification. For this reason, the device status can also be increased for safety engineering reasons, although the functional compatibility is ensured, because its security-relevant aspects are affected.
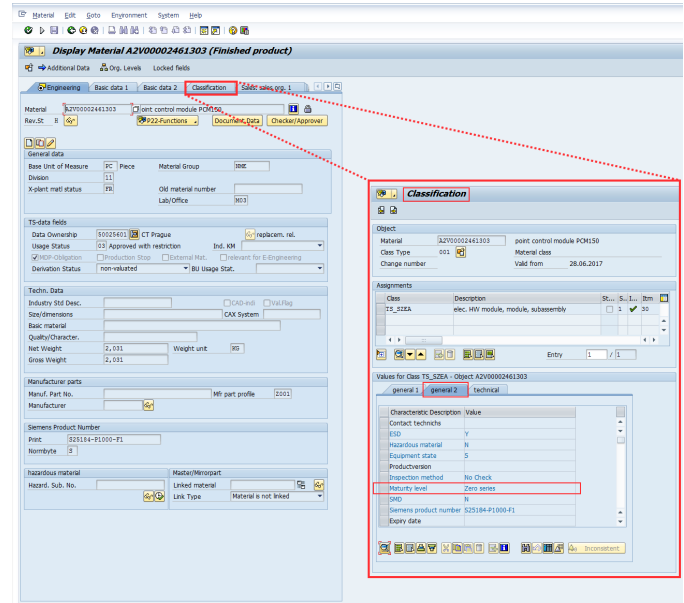

Fig. 2. The „Gerätestand" GS and the "maturity level" are in SAP at the classification. In the slider "Allgemein2" (german).