

Prepared for: **Siemens BT**

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## Document Information

<b>Project Name:</b>	Cleanup of Revision ID's		
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<b>Title:</b>	PLM Consultant	<b>Version date:</b>	24.05.2017

## Distribution List

Company	Persons
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## Change History

Ver. no.	Date	Author	Reason	Description
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# 1 Initial Situation/Problems

## 1.1 Situation/Problem

At Siemens BT all Item Revision ID's should only consist of uppercase letters. All alphanumeric Item Revisions should start with "0". Allowed patterns are:

- A, B, C, etc.
- AA, AB, BZ, etc.
- A01, B05, C03, etc.
- AB01, BB03, etc.
- 00, 01, 08, etc.

Nevertheless, there are Item Revisions with wrong Revision ID's. For example:

- a, b, z, etc.
- aa, bc, cc, etc.
- A1, B1, etc.
- AB1, BB2, etc.
- 1, 2, 4, etc.

## 1.2 Goals

Correct Item Revision ID's:

- Change lower case characters to uppercase (aa → AA, a → A)
- Add "0" before ID's with numbers (A1 → A01, AB1 → AB01)
- Add "0" before single numbers (1 → 01)

## 2 Solution

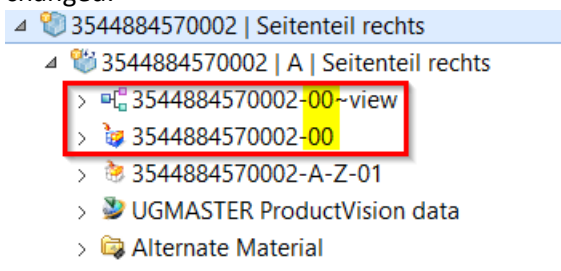
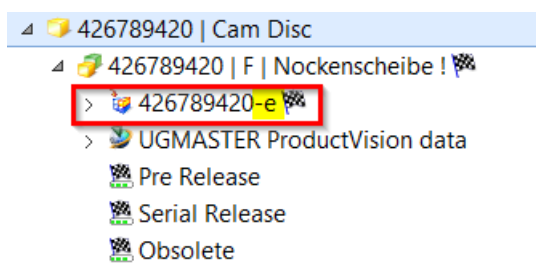
### 2.1 SQL-Script

SQL-Script that searches and corrects Item Revision ID's with the following logic:

1. Searching wrong named Item Revisions in database
2. Check if a corrected Revision ID collides with an existing Revision ID of the same Item
  - a. If "yes" skip complete Item Revision (→ Write Log File)
  - b. If "no" correct the Item Revision ID
    - i. Change lower case characters to upper case (aa → AA, a → A)
    - ii. Add "0" before id's with numbers (A1 → A01, AB1 → AB01)
    - iii. Add "0" before single numbers (1 → 01)
  - c. Correct corresponding objects (Datasets with Revision ID's, Names of Revision Master Forms, Audit Files, etc.)
3. Log any processed and not processed object in a report

### 2.2 Scope/Limitations

- The tool processes only Item Revisions and their corresponding objects with wrong Revision ID's like this:
  - a → A
  - aa → AA
  - A1 → A01
  - AB1 → AB01
  - 1 → 01
- Not defined Revision ID's like (P001, 100, \_8) are not part of this cleanup
- Correcting further Revision ID's after the first cleanup is not in this scope
- If a corresponding object has another Revision ID than his Item Revision, the object name is not getting changed:

	
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## 3 Test-Cases

### 3.1 Test-Steps

1. Search a processed Item Revision in Teamcenter (see logfile of processed objects)
2. Check the Item Revision ID
3. Check the names of corresponding objects (Datasets with Revision ID's, Names of Revision Master Forms, etc.)

### 3.2 Expected Results

- The Item Revision ID is correct (example: e → E)
- The names of corresponding objects are also cleaned up
  - Exceptions: If the object has another Revision ID than his Item Revision, the object name is not getting changed

