Part Effectivity Example

March 2015
What is Effectivity?

• Forward-looking planning tool
  – E.g. for “As-Designed and “As-Planned” product structure views

• Determines when a Part Revision is planned to be ”Used in Production”

• Three kinds of effectivity
  – Date (global or effectivity context)
  – Lot (requires effectivity context)
  – Serial Number (requires effectivity context)

• Able to enter both a beginning and ending parameter
  – Date => 01/31/2009 – 12/31/2010
  – Unit => 001-020

• Configuration Specification used to expand a product structure according to effectivity
• User asks for configuration on October 5, 2011
• User asks for configuration of serial number 0365
• Which version of Part 1 is effective on 2/12/2012?
• Which version of Part 1 is effective on 2/12/2012?
• Which version of Part 5 is effective on 2/12/2012?

```
1
/|\
/ | \\
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```

```
1
/|\
/ | \\
Released Effective 1/1/2012 -
1 A

Released
5 A

Released
5 B

Released Effective 2/1/2012
4 5 6

Effective 3/1/2012 -
1 B

Released
7 A

Effective 3/1/2012 -
4 7 6

Effective 1/1/2012 -
8 9 10 9
```
• Which version of Part 5 is effective on 2/12/2012?
<table>
<thead>
<tr>
<th>Effectivity Management</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Enable Recursive Sibling Propagation</td>
<td>Yes</td>
</tr>
<tr>
<td>Enable Sibling Propagation</td>
<td>Yes</td>
</tr>
<tr>
<td>Enable Structure Propagation</td>
<td>Yes</td>
</tr>
<tr>
<td>Include Work in Process Parts for Part Configuration</td>
<td>No</td>
</tr>
<tr>
<td>Lifecycle State of Part Configuration</td>
<td>Released</td>
</tr>
<tr>
<td>Lot number format</td>
<td>wt.eff.format.AlphaNumericUnitEffFormat</td>
</tr>
<tr>
<td>Serial number format</td>
<td>wt.eff.format.AlphaNumericUnitEffFormat</td>
</tr>
<tr>
<td>View of Part Configuration Specification for Structure Propagation</td>
<td>Design</td>
</tr>
</tbody>
</table>
Change Notice 100
- Releases A01 revision A
- Propagates effectivity s/n 001-up
Revision B
- Removes 300 and adds 400 for s/n 005-up

Change Notice 200
- Releases A01 revision B
- Sets effectivity to 005-up
- Propagates effectivity

Structure Propagation – Propagate effectivity updates down the structure

Sibling Propagation – Propagate effectivity updates to sibling revisions

Recursive Sibling propagation – Propagate sibling effectivity updates down the structure

Effectivity Structure Propagation

Sibling Propagation

Recursive Sibling Propagation

Structure Propagation
Effectivity Structure Propagation

Revision C
- Removes 200 and adds 500 for s/n 010-up

Change Notice 200
- Releases A01 revision C
- Propagates effectivity 010-up
Revision D
• Removes 100 and adds 600 for s/n 010-up

Revision B-1 (One Off Version)
• Removes 100 and adds 600 for s/n 007-009

Change Notice 200
• Releases A01 revisions B-1 and D
• Propagates effectivity 007-009 (rev B-1) and 010-up (rev D)
Effectivity Structure Propagation

Methods to stop Structure Propagation
1. Stop propagation part master attribute
2. Default Trace Code part master attribute set to a traced value, e.g. Lot, S/N, Lot & S/N