PTC® PRODUCT & SERVICE ADVANTAGE

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

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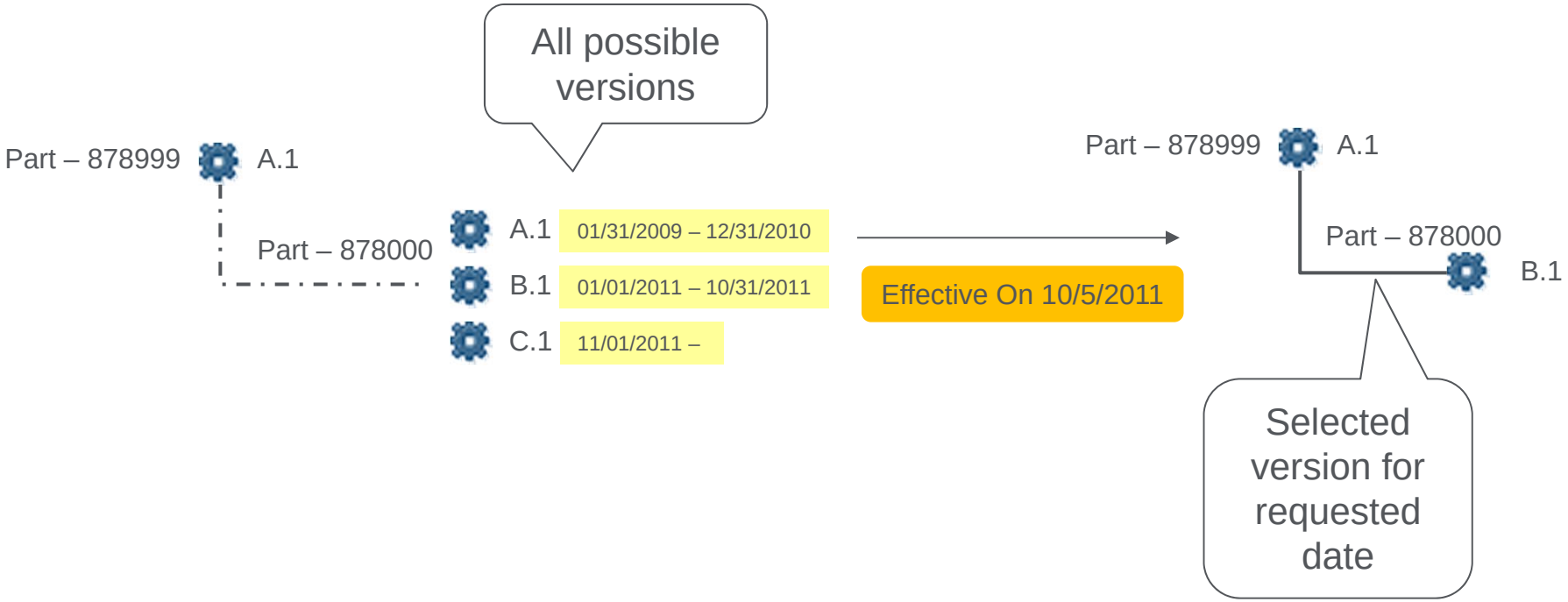
Applying Date Effectivity Configuration Specification

- User asks for configuration on October 5, 2011



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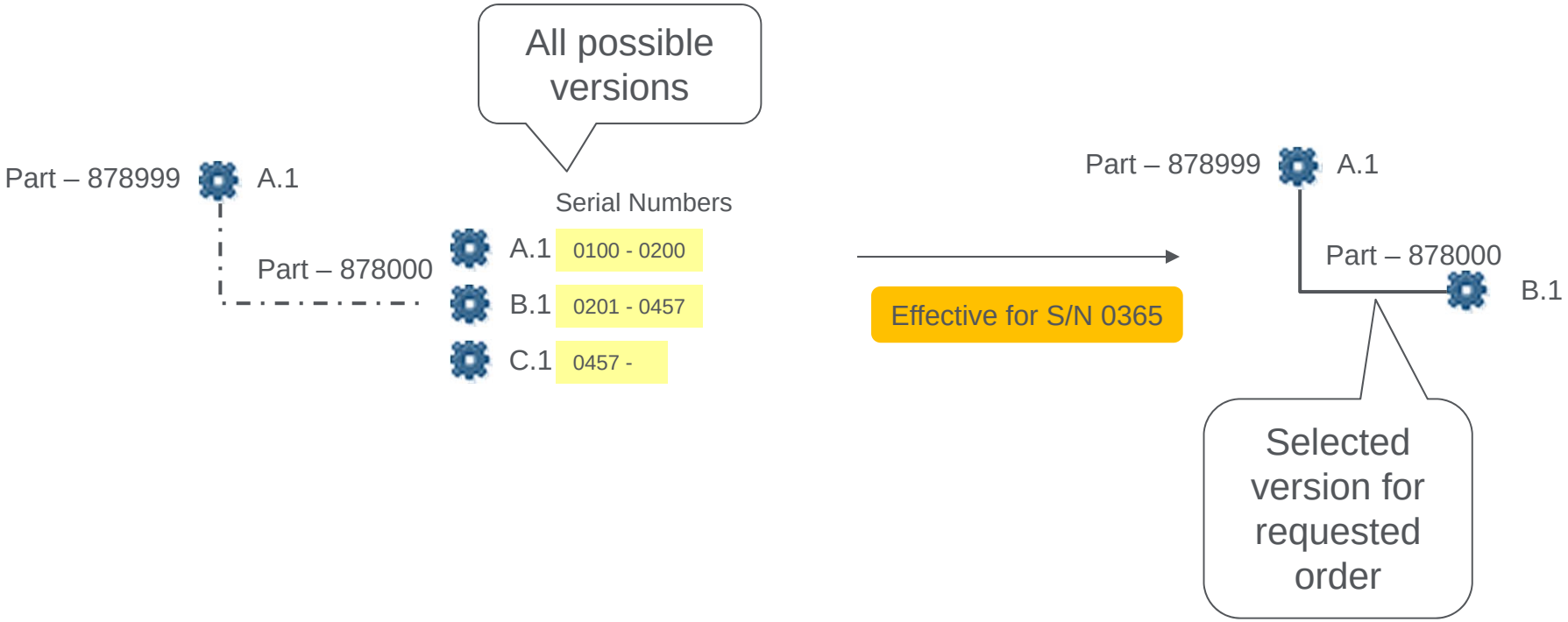
Applying Unit Effectivity Configuration Specification

- User asks for configuration of serial number 0365



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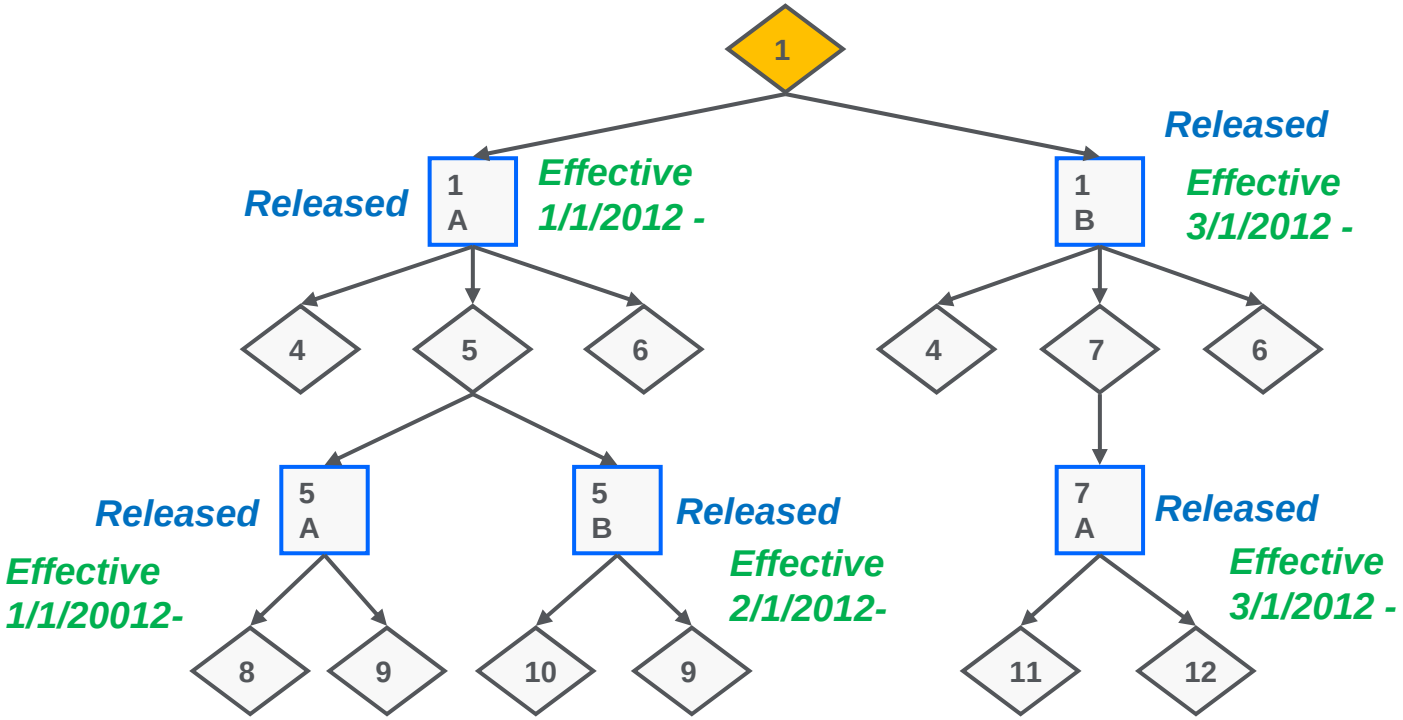
Date Effectivity

- Which version of Part 1 is effective on 2/12/2012?



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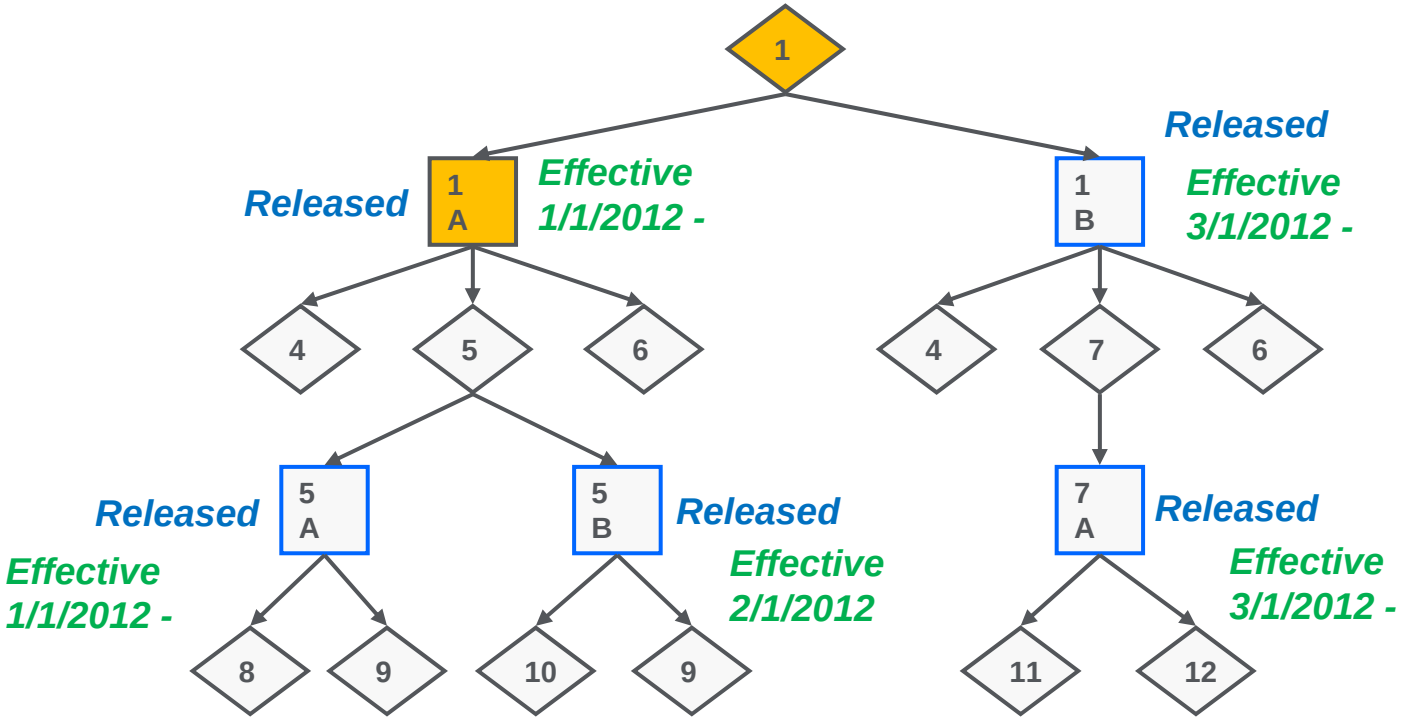
Date Effectivity

- Which version of Part 1 is effective on 2/12/2012?



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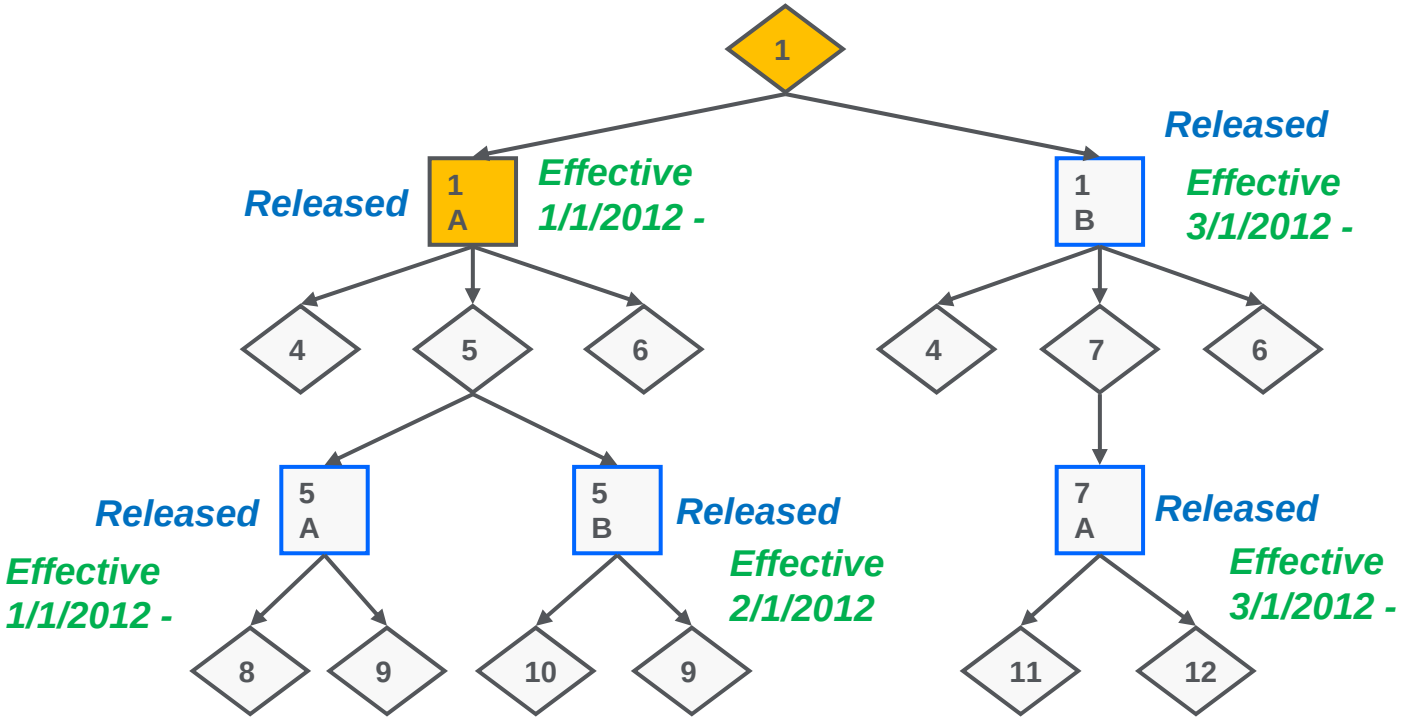
Date Effectivity

- Which version of Part 5 is effective on 2/12/2012?



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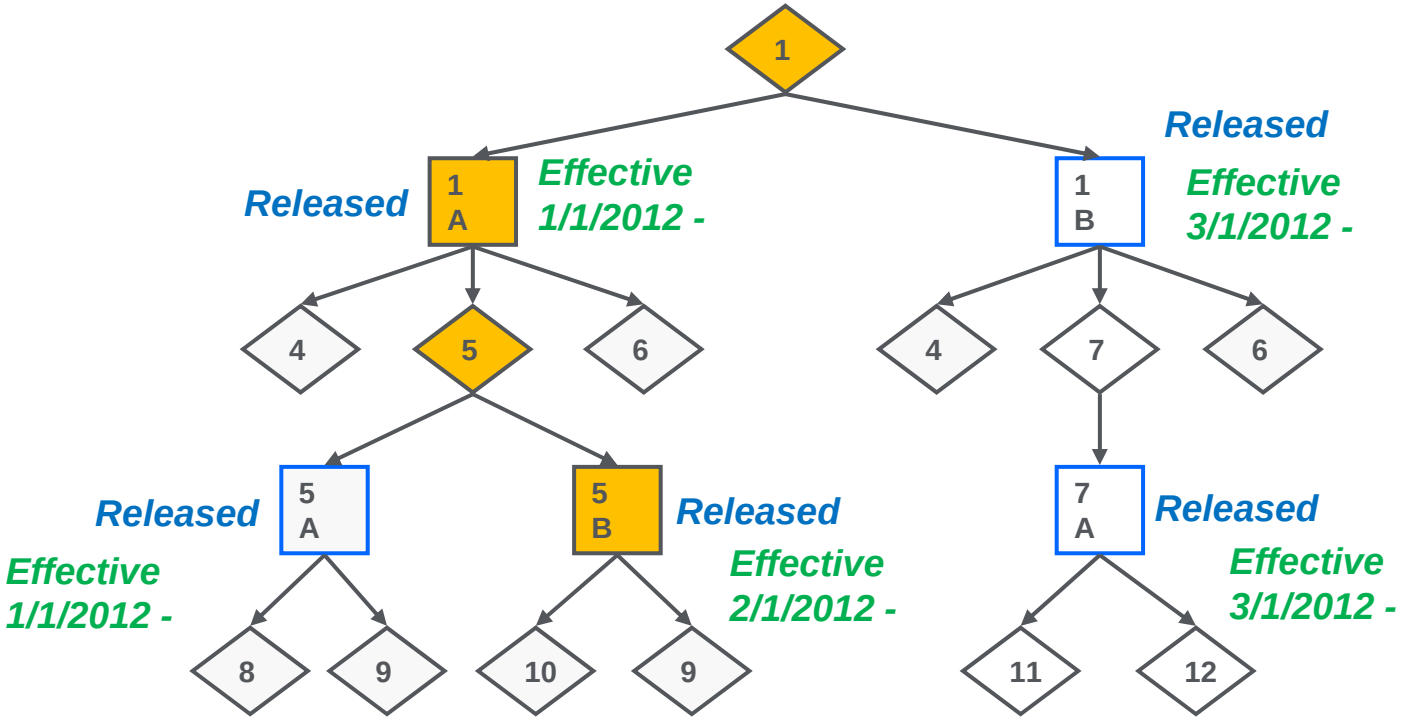
Date Effectivity

- Which version of Part 5 is effective on 2/12/2012?



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Effectivity Preferences

Effectivity Management	
Enable Recursive Sibling Propagation	Yes
Enable Sibling Propagation	Yes
Enable Structure Propagation	Yes
Include Work in Process Parts for Part Configuration Specification for Structure Propagation	No
Lifecycle State of Part Configuration Specification for Structure Propagation	Released
Lot number format	wt.eff.format.AlphaNumericUnitEffFormat|length=3
Serial number format	wt.eff.format.AlphaNumericUnitEffFormat|length=3
View of Part Configuration Specification for Structure Propagation	Design

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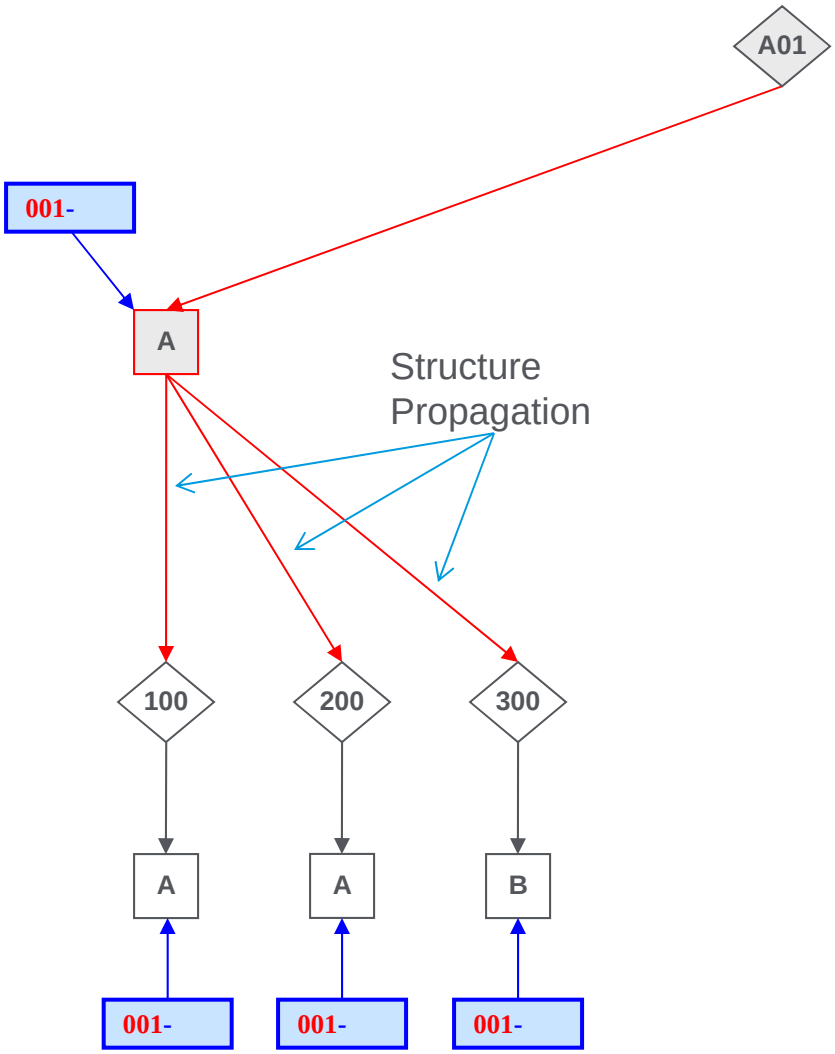
Effectivity Structure Propagation



Change Notice 100

- Releases A01 revision A
- Propagates effectivity s/n 001-up

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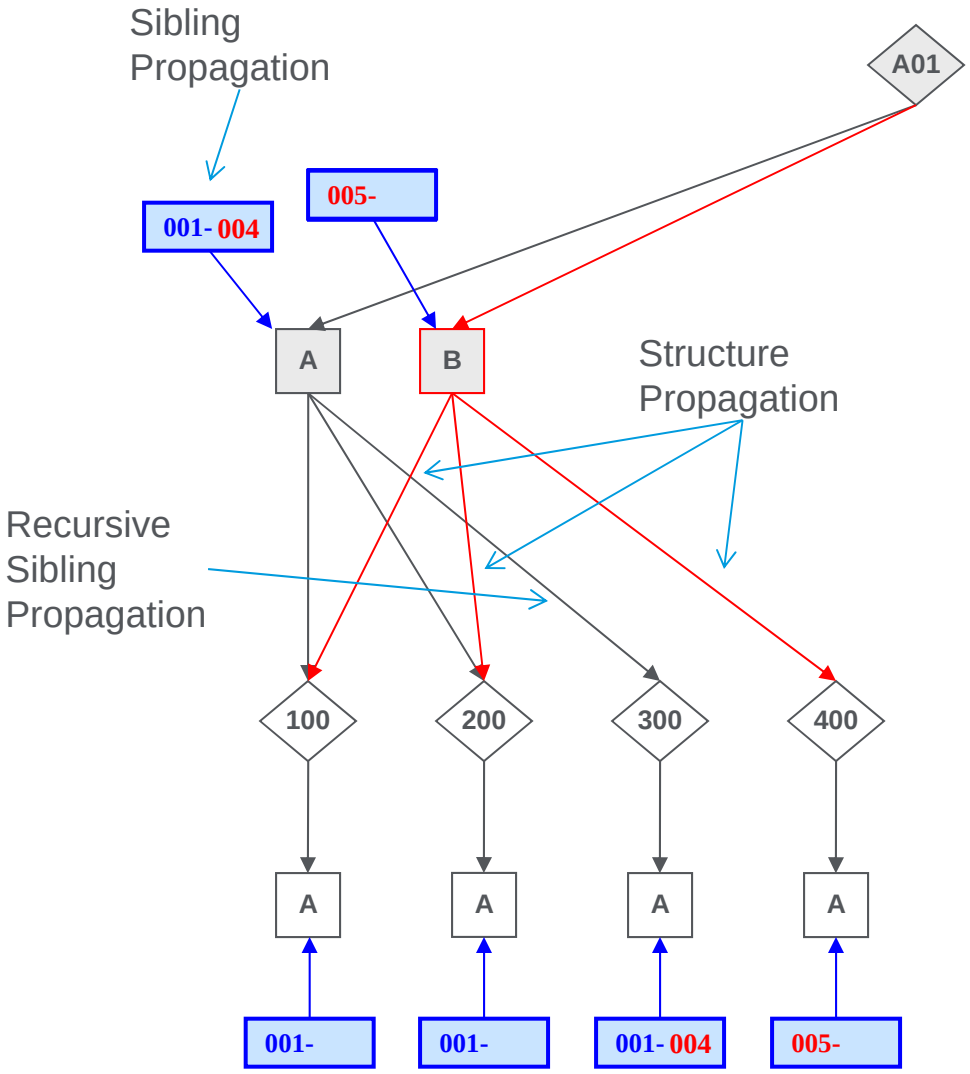
Effectivity Structure Propagation



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

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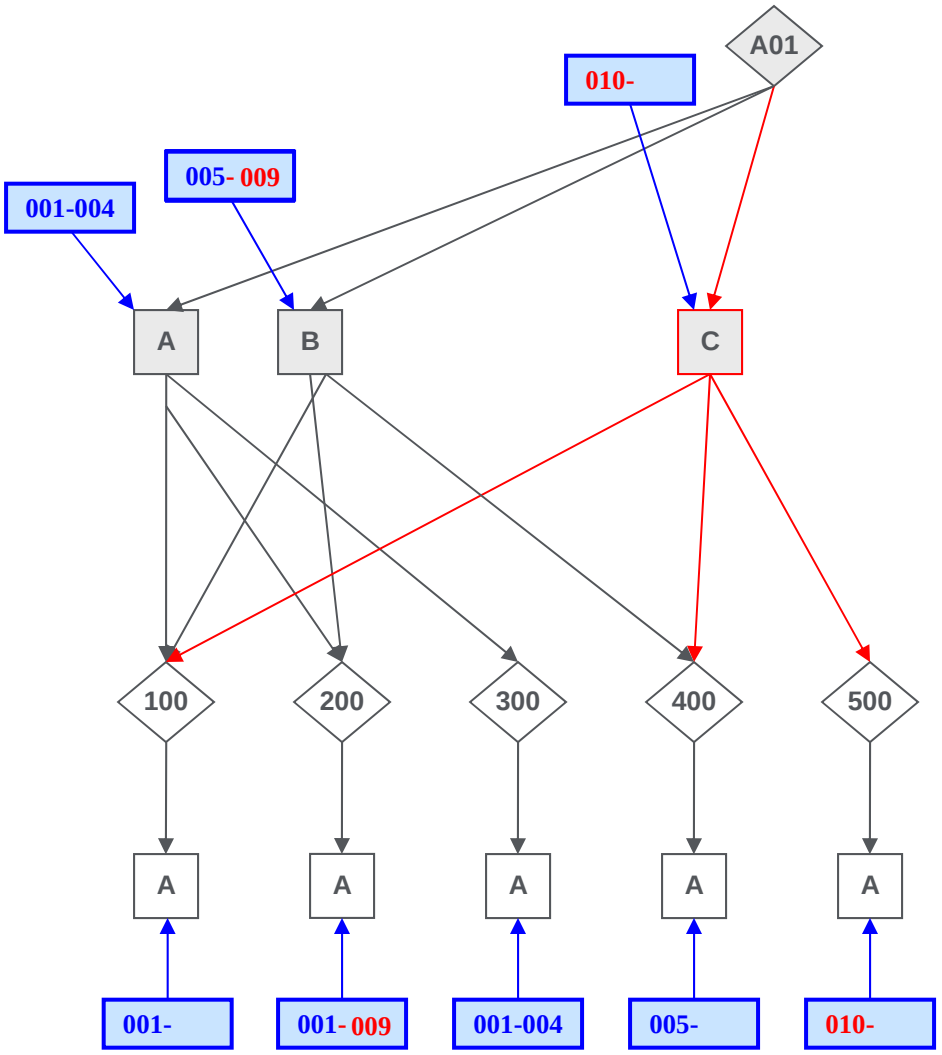
Effectivity Structure Propagation



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

Change Notice 200
- Releases A01 revision C
- Propagates effectivity 010-up

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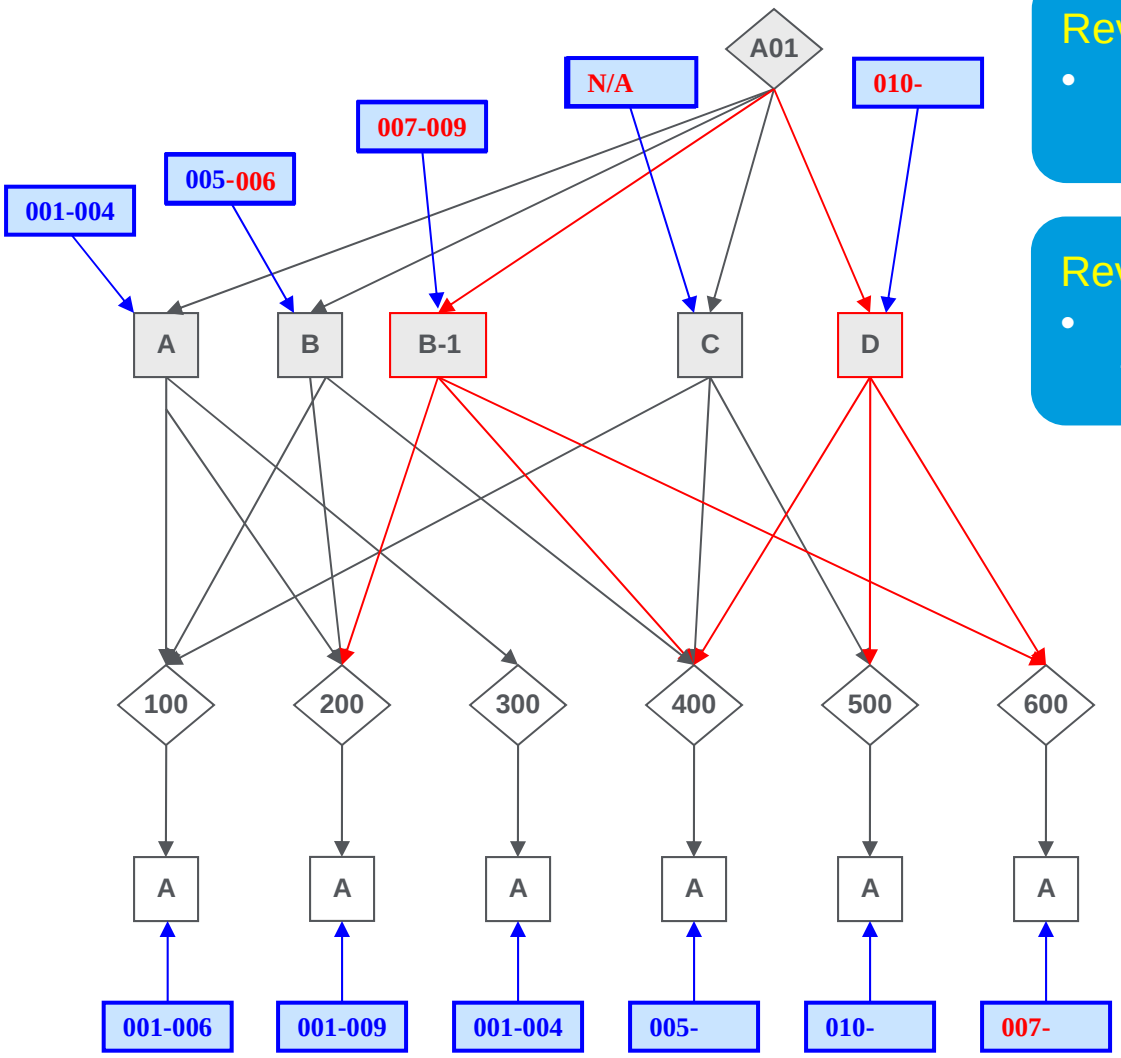
Effectivity Structure Propagation



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)

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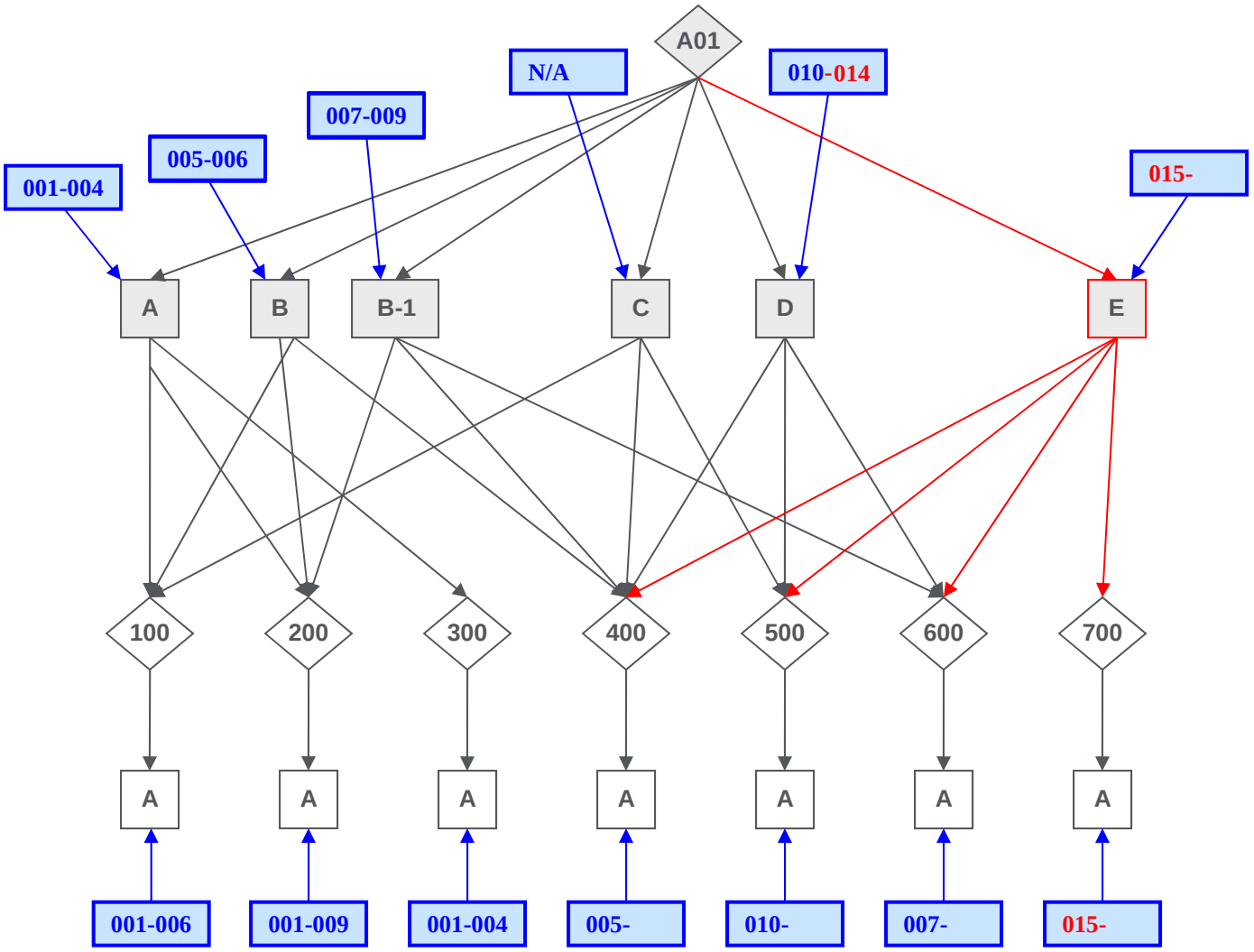
Effectivity Structure Propagation



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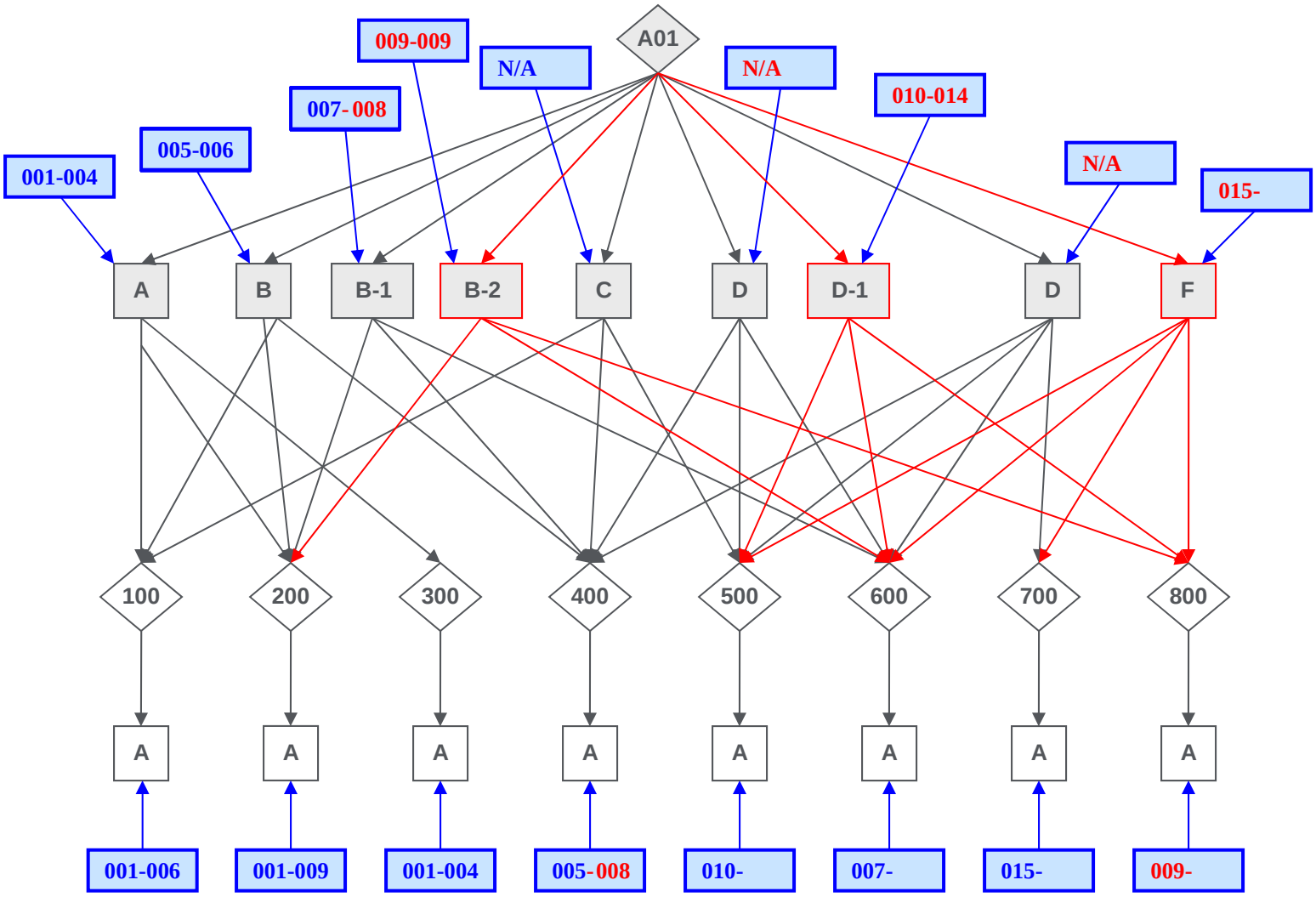
Effectivity Structure Propagation



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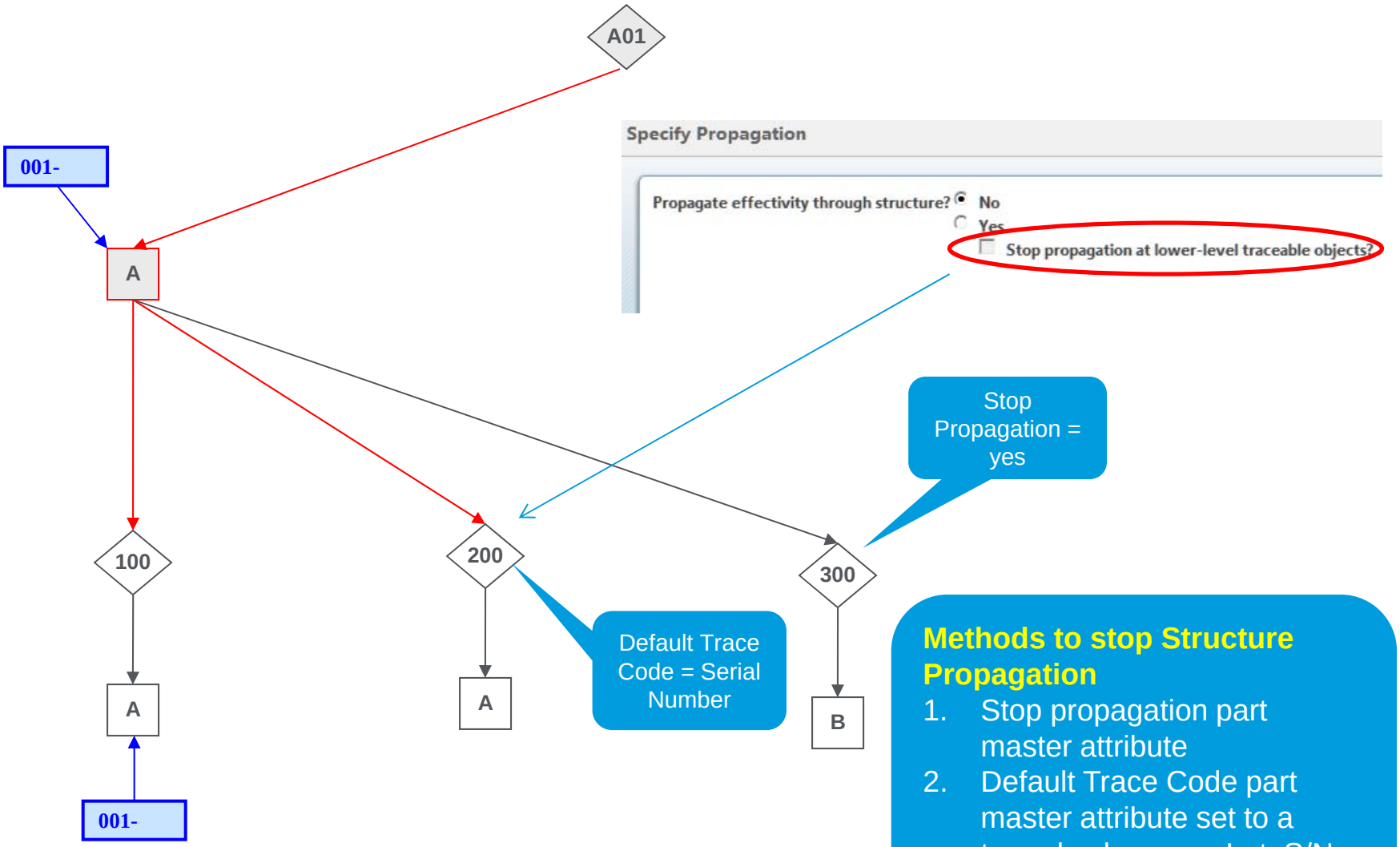
Effectivity Structure Propagation



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

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