



# **Versioning of Substances**

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Session 2

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## Versioning of Substances

- **Definition:** A version is a complete set of data for a substance.  
All data from substance itself and all dependent data are copied to the new version.
- For all versions of a substance a common identifier exists to identify the current version of a substance.
- Each version has a reference to its predecessor. All versions form a linear list.

## Versioning of Substances

**Each version keeps track of some administrative data:**

- Date and Time of its creation
- Date and time of last modification
- Date and time of begin of its validity
- Date and time of end of its validity
- A version number (Format <major>.<minor>.<micro>)
- A status value

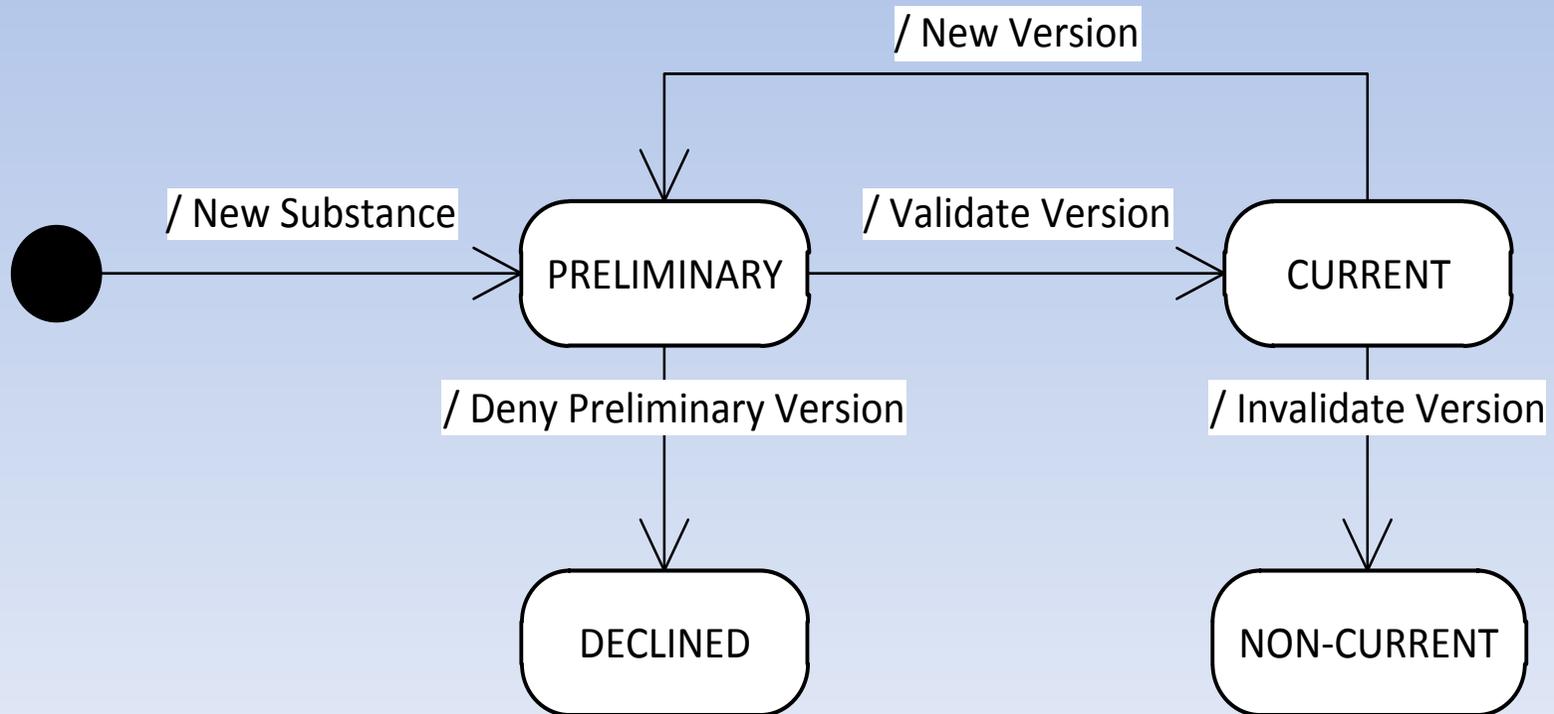
## Versioning of Substances

### Status Values

Status	Modification Point	Description
<b>PRILIMINARY</b> Version no: 0.0.0	Creation, Approval	Status after creation of a substance or version of a substance
<b>CURRENT</b> Version no.: 1.0.0	Approval, Versioning	Status of a version after approval
<b>NON-CURRENT</b>	Versioning, Deletion, Replacement	Status after creating a new version or deletion or replacement of a substance
<b>DECLINED</b>	Denial	Status after denial of a preliminary substance

# Versioning of Substances

## Sequence of Status



## Versioning of Substances

### Necessary Fields

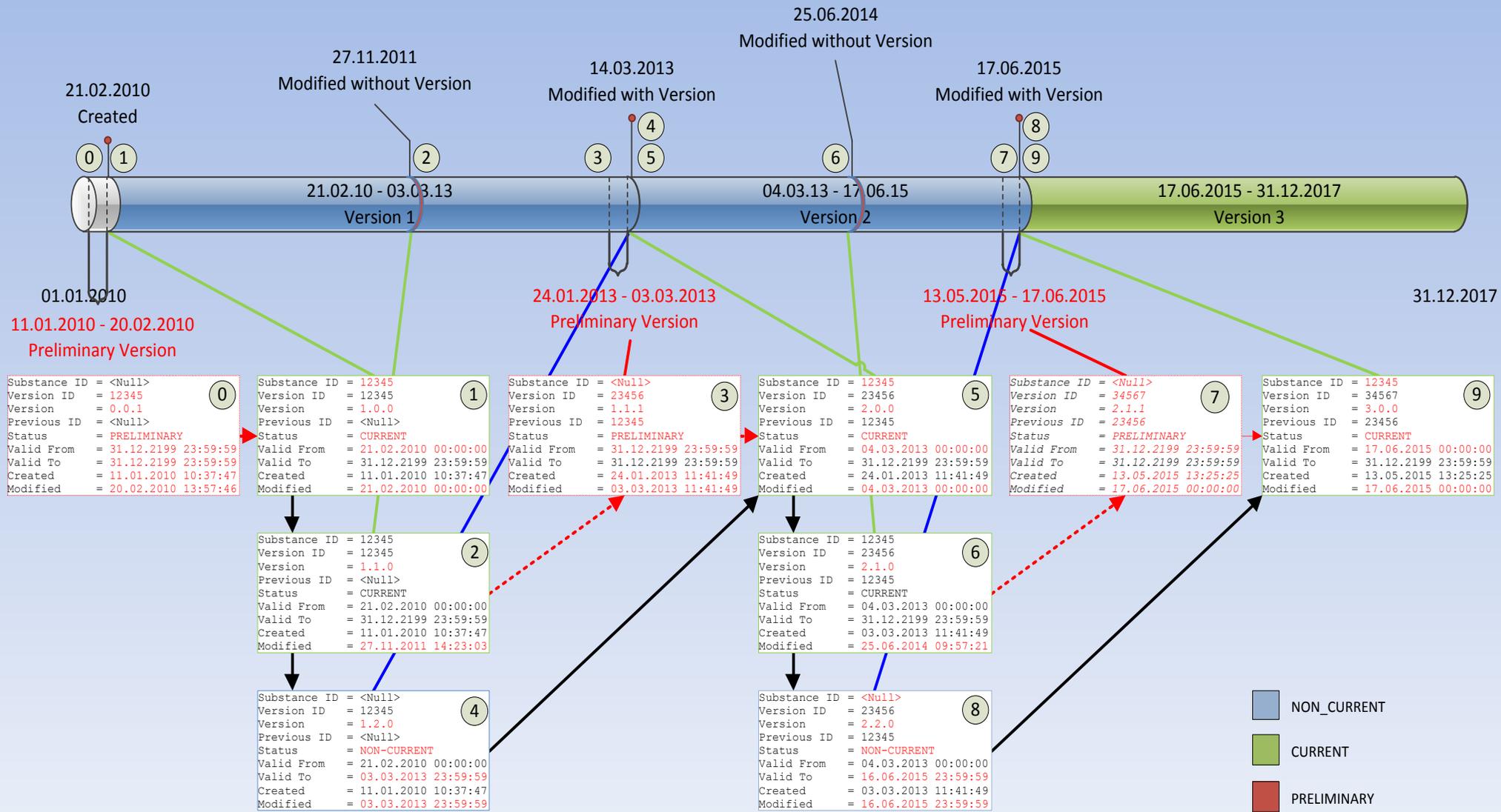
For the administration of versions in a data base some fields are necessary:

- Substance Id: Identifier for the Substance
- Version Id: Identifier for the Version
- Previous Id: Identifier for the predecessor
- Some fields for Date and Time values

# Field Description for Versioning

FIELD	DATA TYPE	MODIFICATION POINT	DESCRIPTION
Substance Id	ID	Creation of Substance	Overall Id of Substance
Version Id	ID	Creation of Subst. and Version	Id of a Version of a Subst.
Previous Id	ID	Creation of Version	Id of Prev. Version of a Version
Version	String	Creation of Subst. and Version	Version no. Major for versions; Minor for Mod.
Status	CV	Creation of Subst. and Version	Status of Version
Valid From	Date and Time	Creation of Subst. and Version	Begin of Validity
Valid To	Date and Time	Creation of Subst. and Version	End of Validity
Create Date	Date and Time	Creation of Version	Creation point of Object
Created By	ID	Creation of Version	Creator
Modified Date	Date and Time	Creation of Subst. Version or Modification	Modification point of object
Modified By	ID	Creation of Subst. Version or Modification	Modifier

# Versioning data model





**THANK YOU!**