

PDM-Broker Concepts

Competence Unit EDM/G

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Global concept

Corporate Server

Metaphase as Global PDM



Workgroup Server

Metaphase



Metaphase



Site 1

PDM - Broker

Team Server

TeamPDM



Clients



Site 2

PDM - Broker

Team 1

TeamPDM



Team 2

TeamPDM



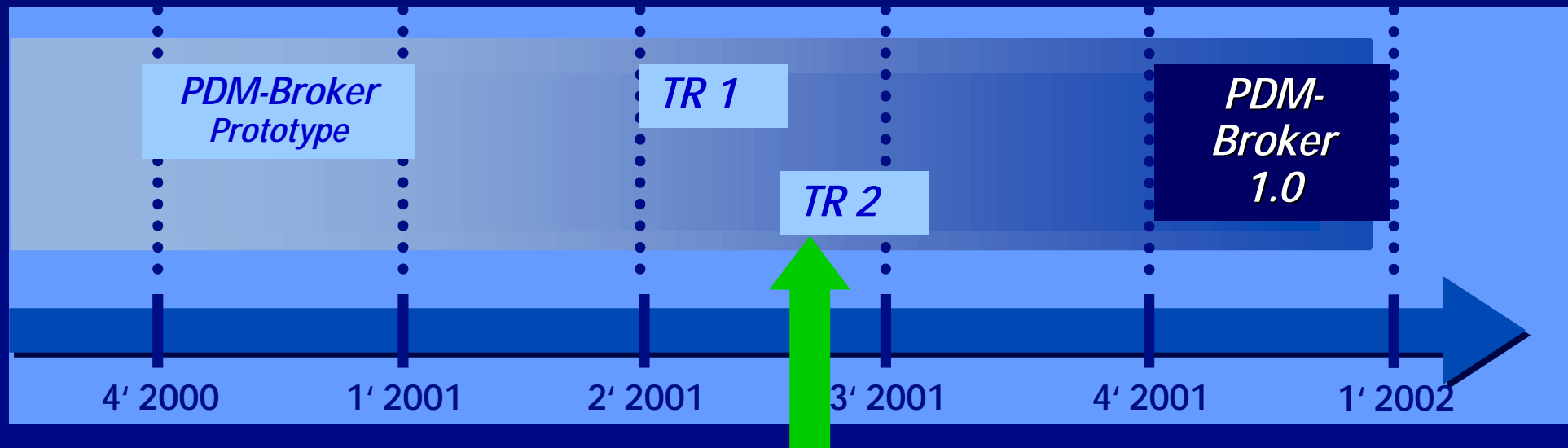
Main goals

- Transfer and management of assemblies and parts
 - automatically triggered by the PDM-System
 - manually triggered by the user
- Object locking in different systems (=> scenario)
 - one object is editable only in one system at a time,
 - but is viewable in multiple systems
- Customer defined mapping for the different data models
 - data model specification in Express
 - mapping specification in Express X
- Support of global and local data management
 - Metaphase as PDM-System for the global engineering data management
 - CATIA TeamPDM as Team PDM-System for the development process
 - CATIA V5 Assemblies and Parts
 - other Integration's available: e.g. AutoCAD, ProE, Inventor, SolidWorks, SolidEdge
- Support of further PDM-Systems by use of a flexible adapter concept

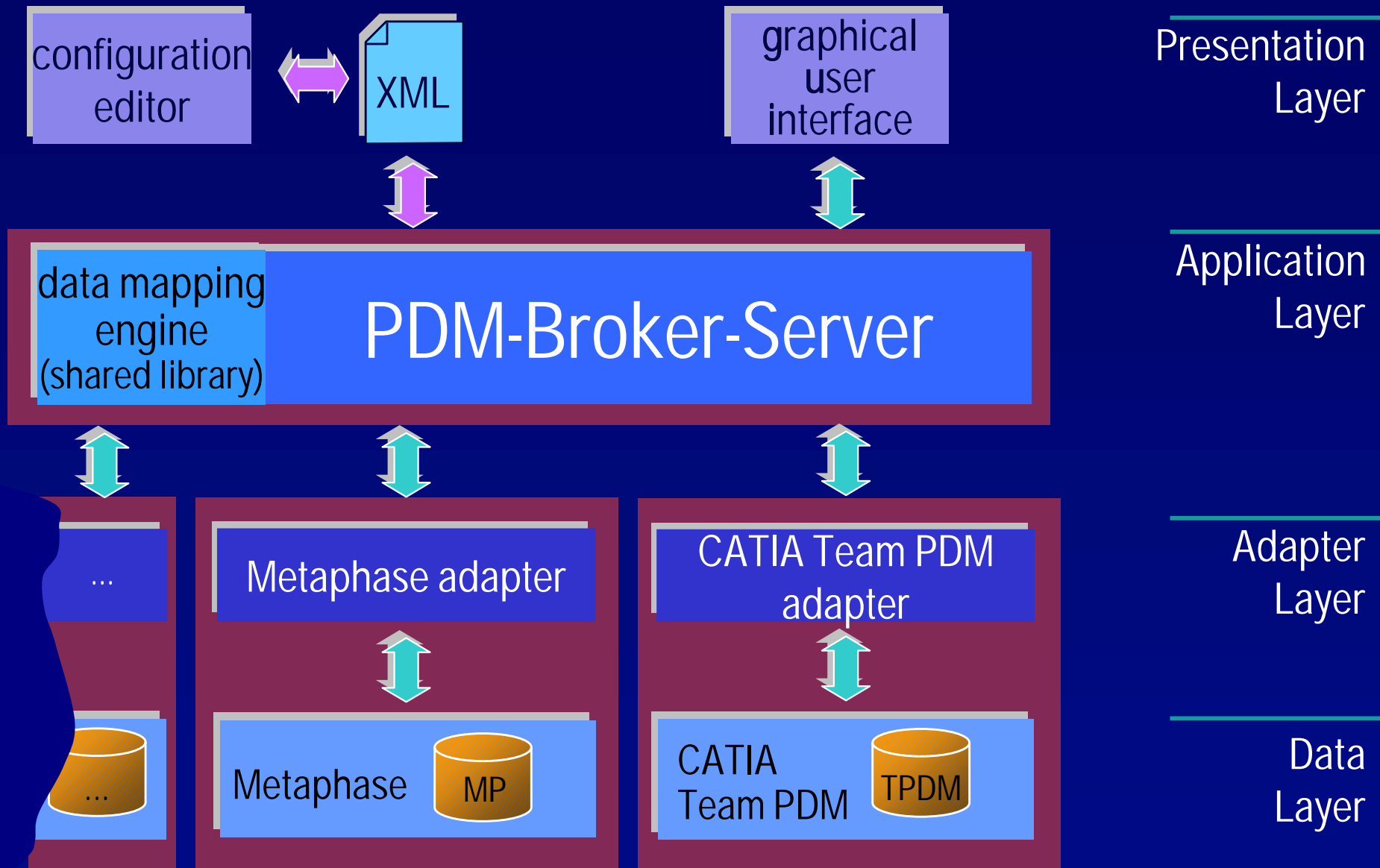
Release plan

- Test Release TR1 and TR2
 - local machine installation
 - CATIA-V5.R6 (CATIA-TeamPDM) support
 - Metaphase 3.2 support
 - Data mapping engine
 - TR1: support for standard Metaphase data model
 - TR2: support for customised Metaphase data model
- Release 1.0
 - TR2 features
 - multi-user-environment
 - full server-client architecture
 - more flexible configuration tools

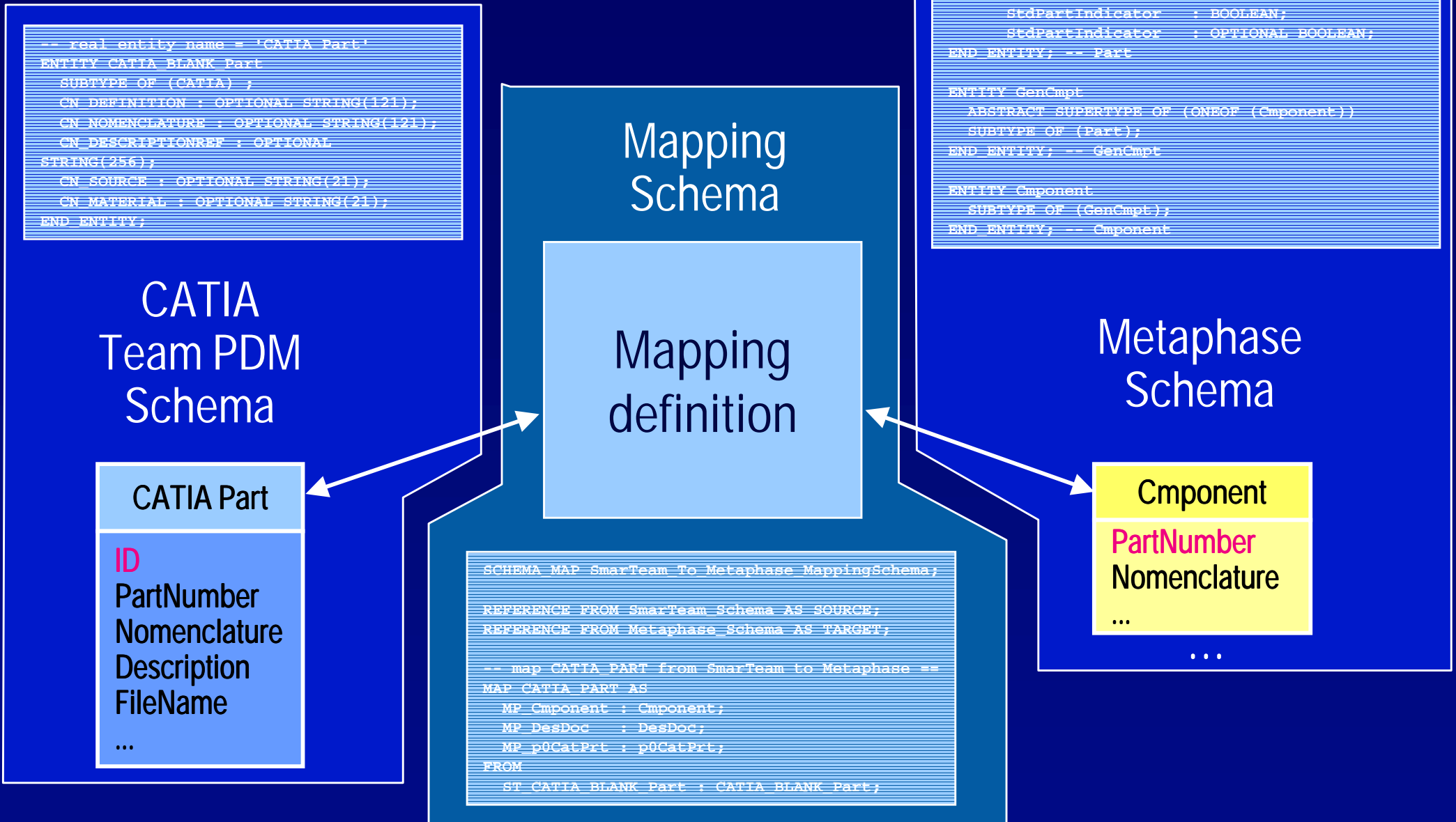
=> define customers requirements for future Releases



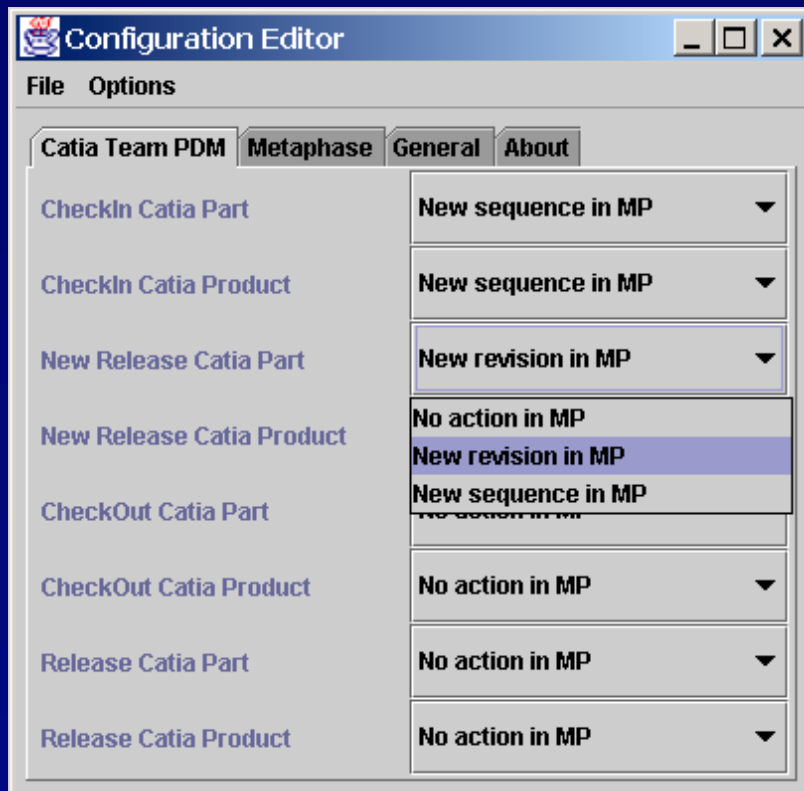
Architecture overview



Data Mapping (example)



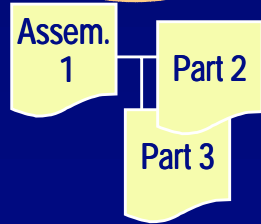
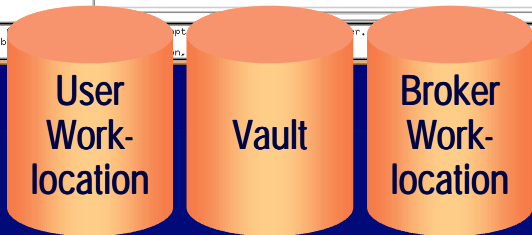
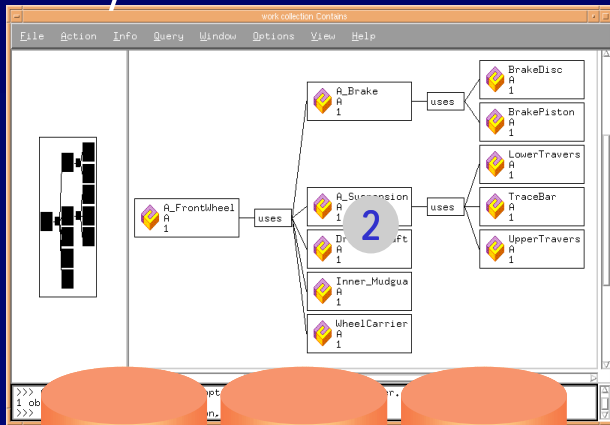
Configuration



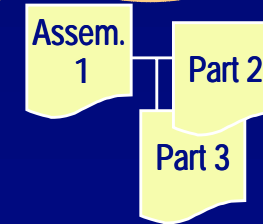
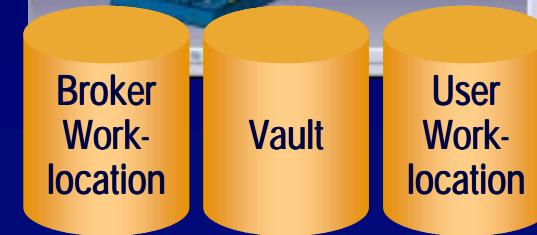
- Behaviour for automatic transfers
 - all events which are supported by the system types
 - in CATIA Team PDM : e.g.
 - check in
 - check out
 - release
 - new release
- Behaviour for manual transfers
- Other configuration
 - system definition
 - data model definition

Scenario 1: Manual transfer of assembly structures from CATIA TeamPDM to Metaphase

Metaphase



CATIA V5 & TeamPDM



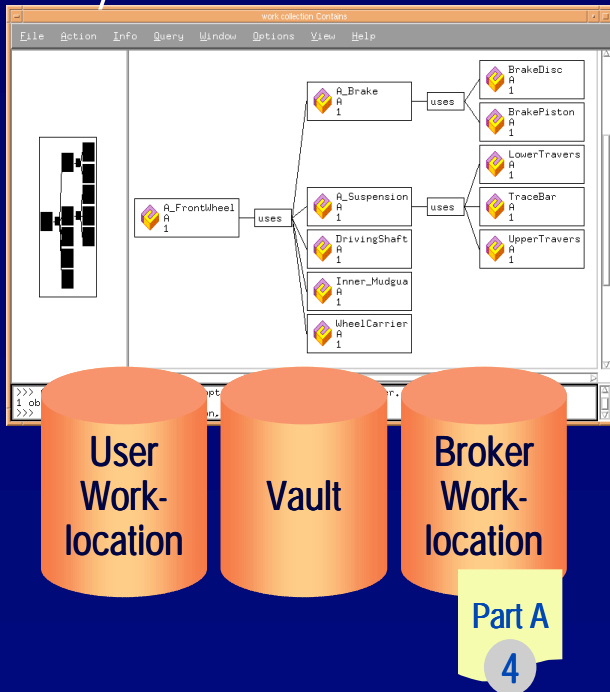
PDM-Broker

- 1 Search existing assembly structure in CATIA Team PDM
- 2 Transfer existing assembly structure Information manual to Metaphase

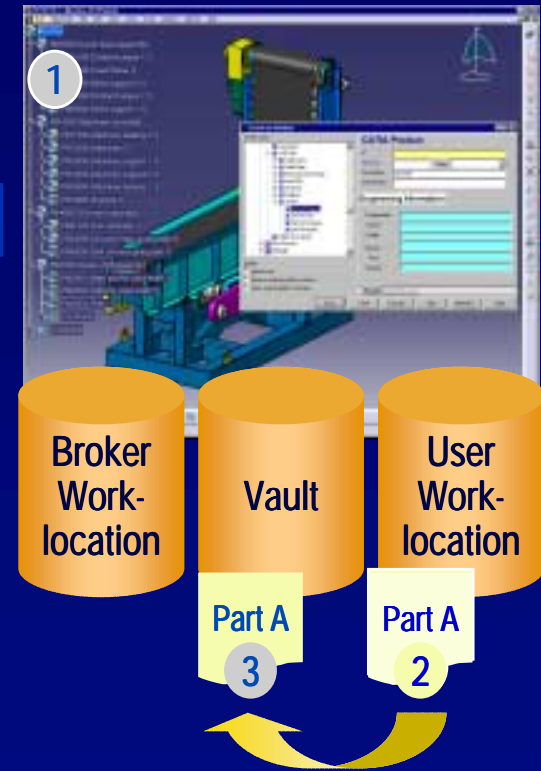
⇒ Assembly structure is visible in Metaphase

Scenario2: Automatic synchronisation when a “check in” in CATIA TeamPDM is performed

Metaphase



CATIA V5 & TeamPDM

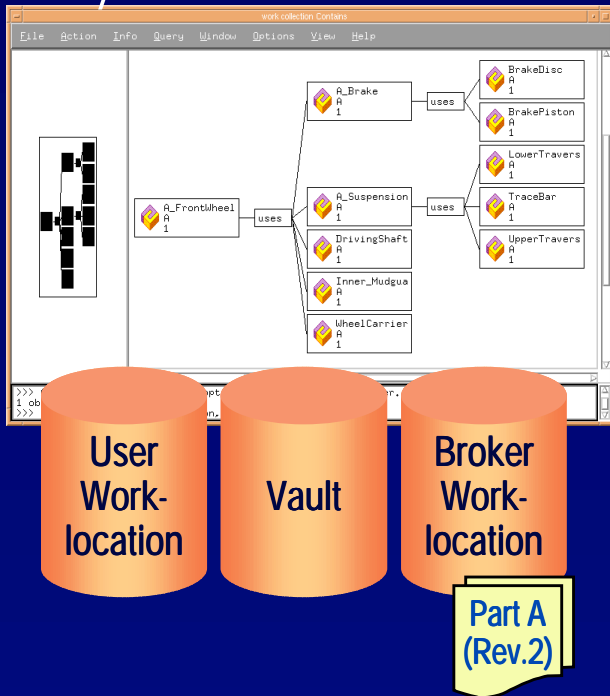


- 1 Create new part in CATIA
- 2 Register new part in CATIA Team PDM
- 3 Check in new part in CATIA Team PDM
- 4 Automatic synchronisation of the new part to Metaphase

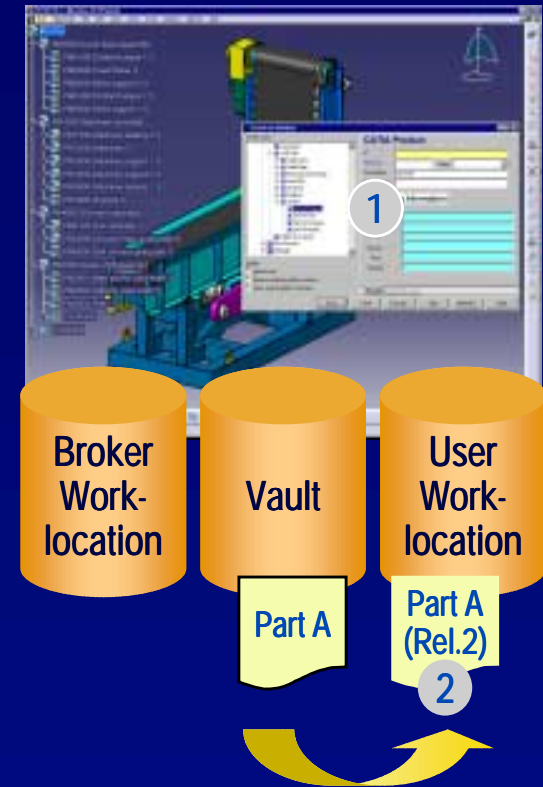
⇒ Part is editable in CATIA Team PDM and is visible in Metaphase

Scenario3: Automatic synchronisation when a “new release” in CATIA TeamPDM is performed

Metaphase



CATIA V5 & TeamPDM



PDM-Broker

- 1 Freeze Part in CATIA Team PDM with „Release“
- 2 Create a new Revision in CATIA Team PDM with „New Release“
- 3 Automatic synchronisation of the new revision to Metaphase

⇒ New revision of the part is editable in CATIA Team PDM and is visible in Metaphase

Questions?