CATIA Metaphase Interface & PDM-Broker
Product strategy

Division
Systems Integration

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CMI & PDM - Broker
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- CATIA V5 Integration (Overview)

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- Experience based on prototype development

- Status of development framework

- CMI - CATIA V8 Citrix Thin Client Technology

- Release plan

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CAD Integration
Solutions Overview

Direct Interface

| Metaphase as Global PDM | ← CMI → | CATIA V4 |

Team Integration

| Metaphase as Global PDM | ← PDM - Broker → | TeamPDM | CATIA V5 |

Customer specific services for the integration of CATIA V5

| Metaphase as Global PDM | ← Direct Interface → | CATIA V5 |

Partners

- **IBM** — IBM Business partnership
  - → Reseller contract and professional services
  - → Access to IBM services based on defined processes

- **Smart Solutions** — SmartDeveloper partnership
  - → Delivery of TeamPDM, CATIA V5 interface;
  - → Support for development & marketing

- **SDRC**
  - → Mutual reseller contract for Metaphase / CMI and professional services
  - → Support for development

- **PDTec.**
  - → Delivery of Ecco Toolkit
  - → Support for development

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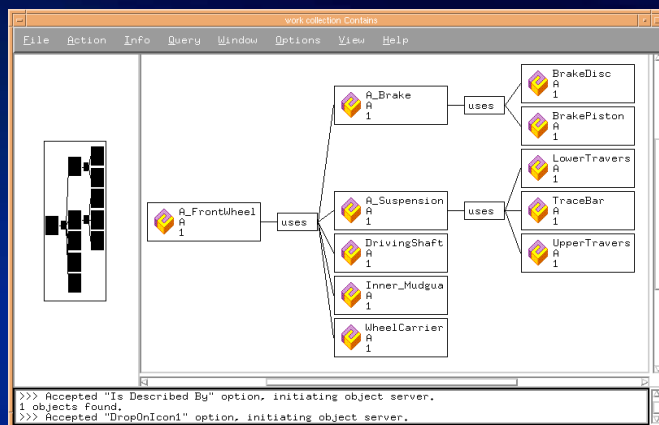# CMI CATIA V4 Integration - Overview

Integration of CATIA 4.x and Metaphase

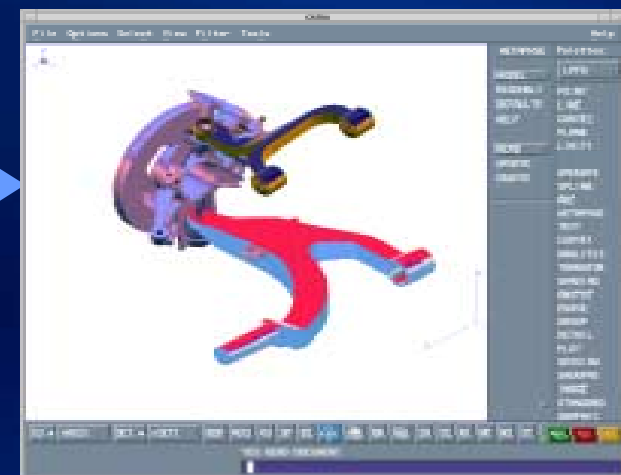Metaphase as the leading system

Since 1995

International customers

www.cmi-support.com

Metaphase as Global PDM

CATIA V4

CMI

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CATIA V5 Integration - Overview

Direct interface to CATIA V5 based on CMI

1st solution with MP as leading system (e.g. prod. Structure)

1st implementation is based on CATIA V5 scripting language

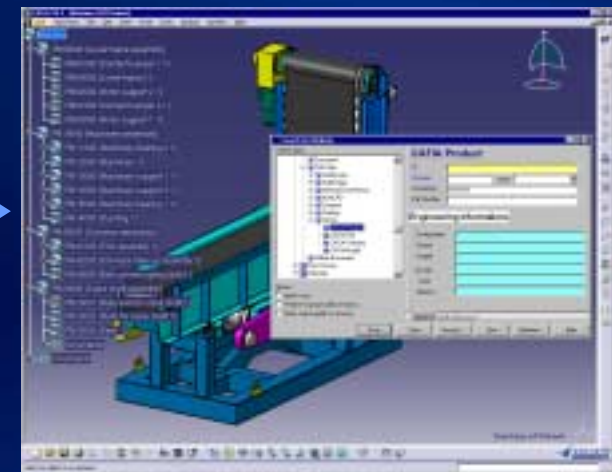Proof of concept

1st available solution on the market

Metaphase as Global PDM

Workbench

CATIA V5

Direct Interface

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PDM-Broker - Overview

Synchronization of different PDM / CAD systems

No leading system

1st Release=Integration of Metaphase and CATIA V5
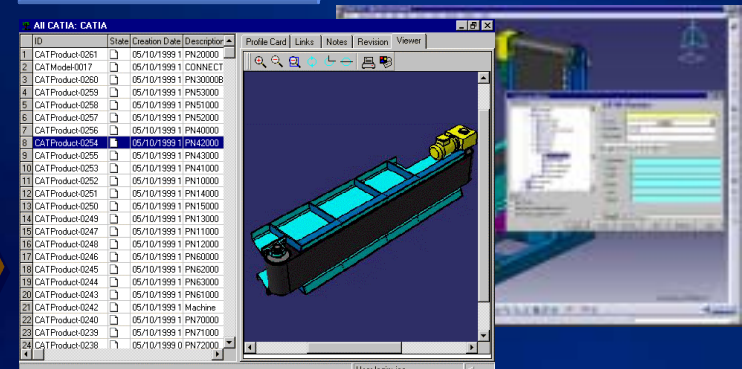
PDM-Broker prototype is available

www.pdm-broker.com

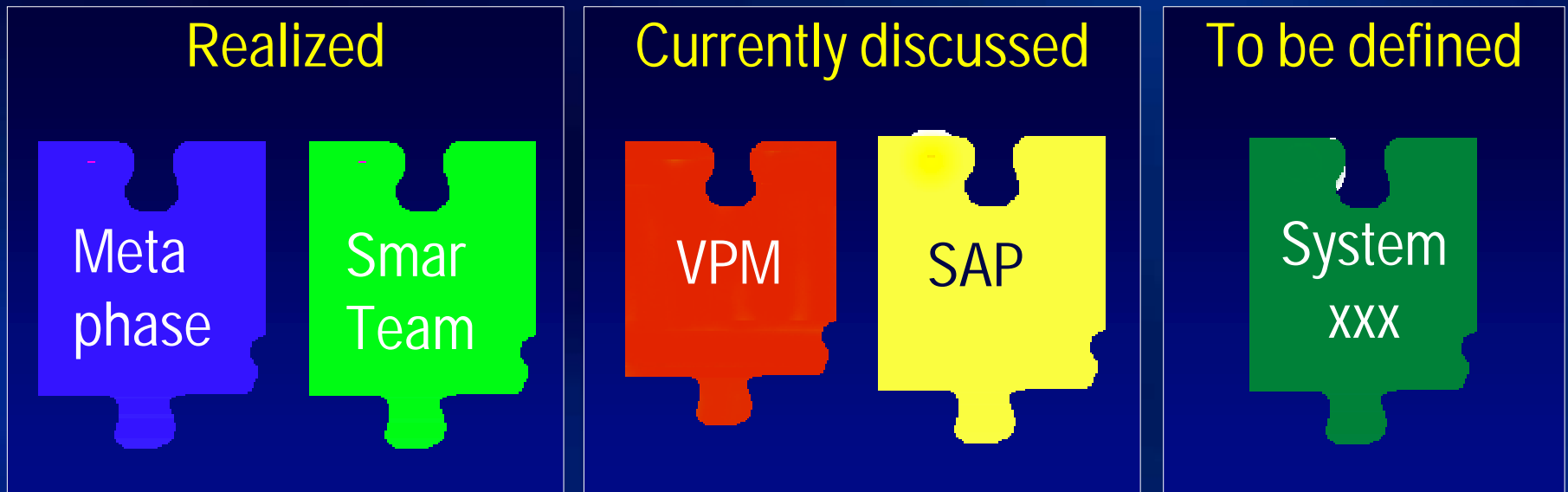Metaphase as Global PDM

TeamPDM

CATIA V5

PDM Broker

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PDM-Broker
Goals

■ Implementation of a generic product kernel

PDM Broker

■ Flexible adapter concept for the easy integration
of further PDM / CAD / IT systems

Realized		Currently discussed		To be defined
Meta phase	Smar Team	VPM	SAP	System xxx

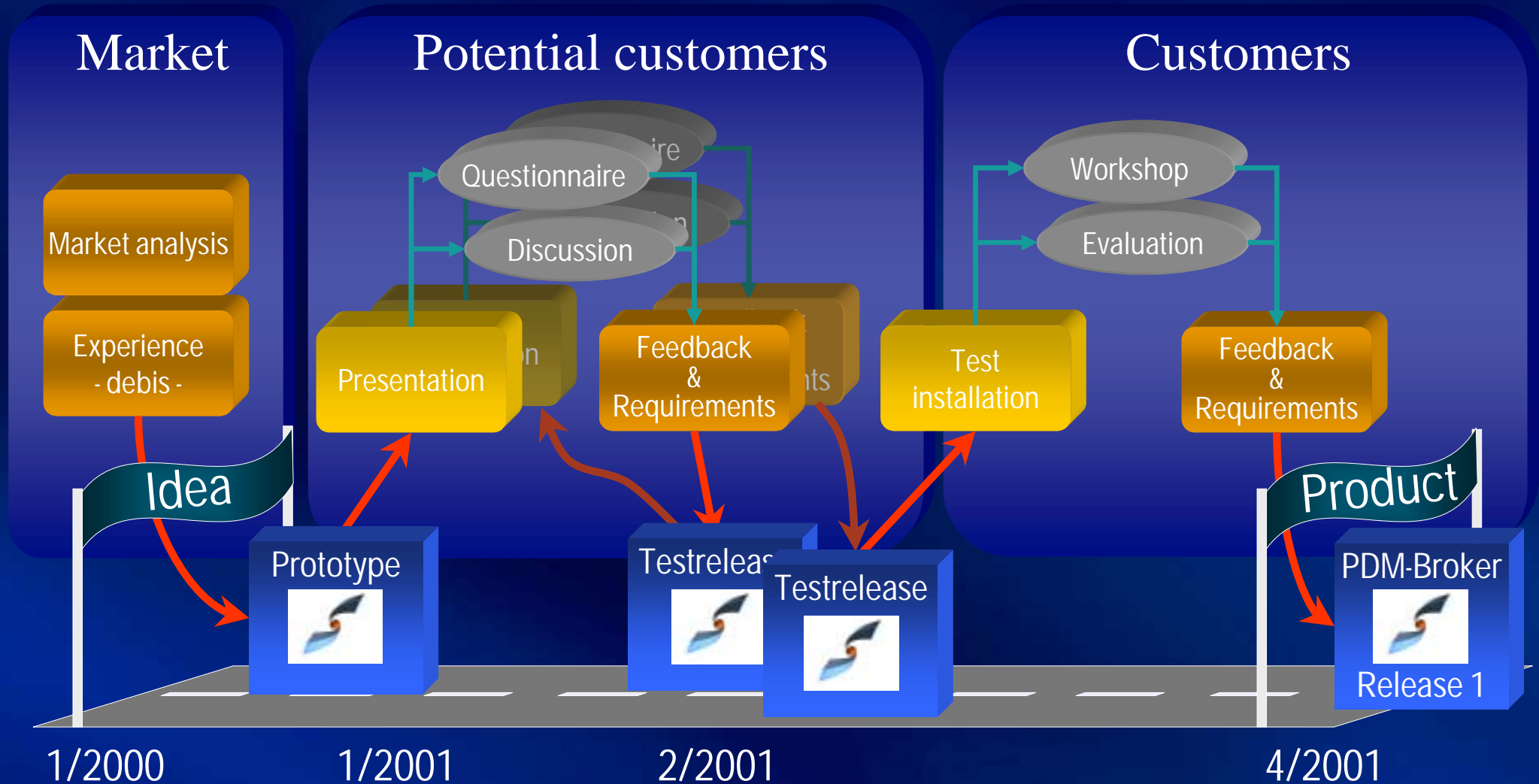**T··Systems**

PDM-Broker
Benefits

Designer

Design Group Manager

- Concurrent Engineering accelerates the design process

- Using each system in correspondence with the specific roles of the company

- Team-oriented design process in a familiar "CAD-environment"

- Focussed view on design specific data

- Less training efforts lead to cost reduction

- High user acceptance

PDM-Broker
Product implementation strategy

Market

Market analysis

Experience - debis -

Idea

1/2000

Prototype

Potential customers

Questionnaire

Discussion

Presentation

Feedback & Requirements

Test installation

Testrelease

Testrelease

1/2001

2/2001

Customers

Workshop

Evaluation

Feedback & Requirements

Product

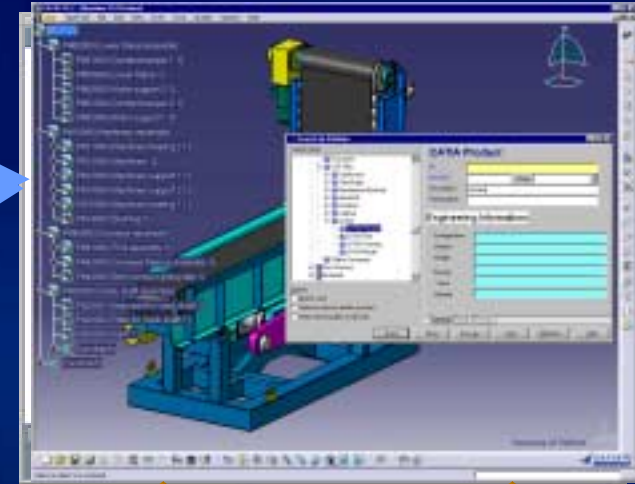PDM-Broker

Release 1

4/2001

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CATIA V5 integration
CATIA V5 specific requirements

Metaphase as Global PDM

CATIA V5

Direct Interface

Meta-Data   Physical-Data

Product structure information

CATIA-Model files

temporary file exchange

Meta-Data   Physical-Data

Private CATIA file maps

Product structure information

CATIA-Model files

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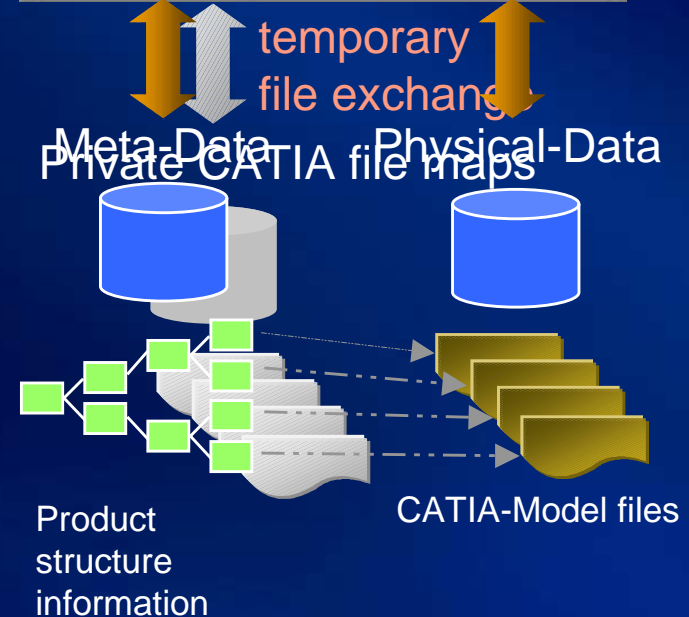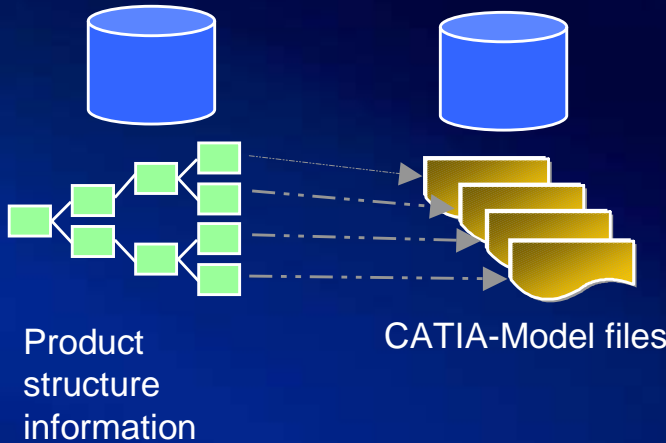
CATIA V5 integration
Goals

- Ability to manage CATIA V5 models and structures in Metaphase   ✓

- Transfer of existing CATIA V4 models and structures (including positioning information) to CATIA V5   ✓

- Exchange of product structure information   ✓

- Ability to use all standard CATIA V5 tools (e.g. DMU-Navigator)   ✓

- Ability to use PDM benefits of Metaphase   ✓

- Support of migration from CATIA V4 to V5

- Ability to use CATIA features like Constraints, MML, ... Dependencies and other implicit functionality

- Availability on Windows NT and UNIX

- Use of stable API

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CMI CATIA V5 integration
Experience based on prototype developm.

- **CATIA V5R6 scripting language restrictions**
  - → limited set of API's (in comparison to development framework)
  - → Scripting language API's of CATIA V5R6 are instable

- **Development framework**
  - → API's of scriting language are a subset of dev. Framework
  - → offers a wide range of additional funtionality
     especially API's for GUI customization

- **Exchange of experience with running projects**
  - → documentation of development framework
  - → development framework of V5R6 is much more stable than former releases but still has some instable parts

CATIA V5 integration
Status of development framework

- Dassault / IBM released development framework for public with CATIA V5R6

- can be purchased by everybody

- T-Systems / debis can implement customer specific solutions

- Customer needs to have purchased the development framework

- T-Systems is currently in discussion with Dassault in order to get the CAA2 partnership for CMI

CMI V8
Support of Citrix Thin Client Technology

Corporate-, Workgroup- and File-Server

Metaphase Network

ICA-Server

CAD WS as ICA-ThinClient
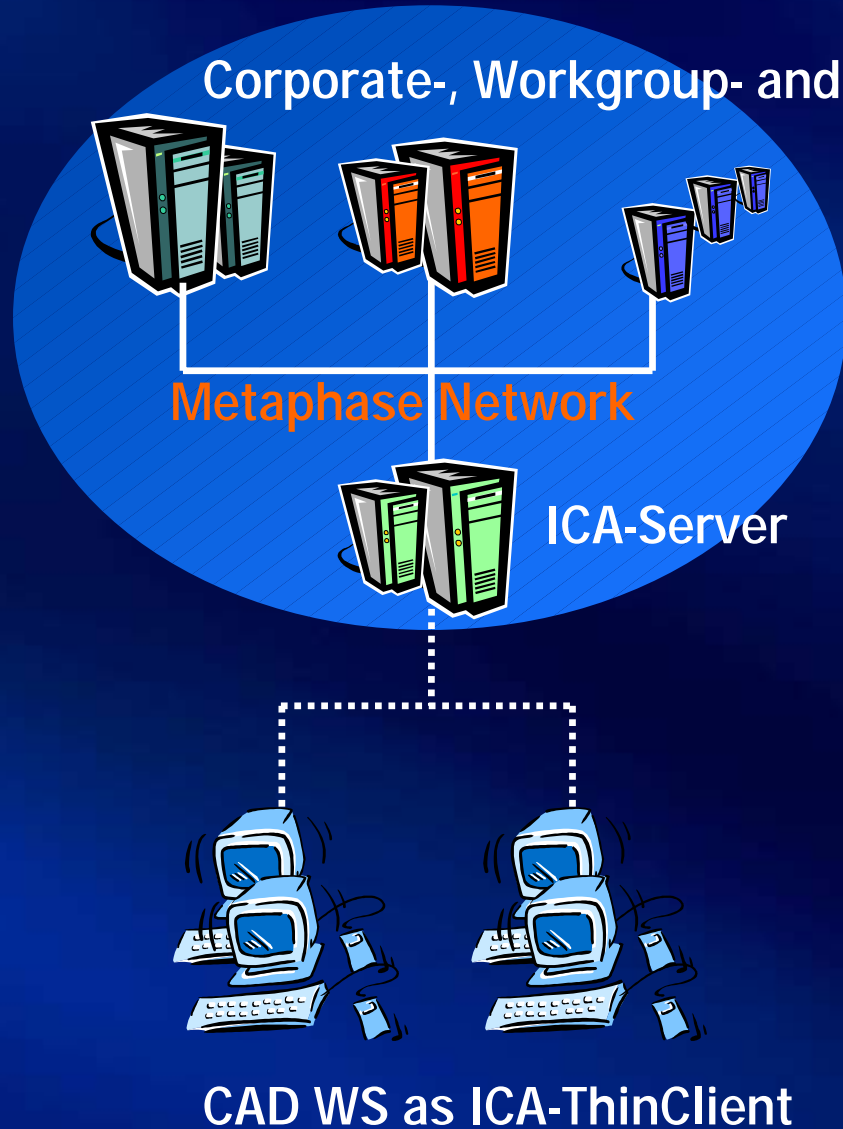
Goal :

- Usability of Citrix Thin Client technology together with CMI

Main benefits :

- No Metaphase on CAD clients necessary
- Less complex running concept
- Better performance (Only transmission of screen)

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Catia Metaphase Interface & PDM-Broker
Release plan

Direct CATIA Interface	CMI 8.0		CMI 8.x		
	• Performance • New Features • CATIA V5 Step 1		• In discussion • New Features		
	• Citrix Support		• Citrix Support		
PDM-Broker	TR1 TR2		PDM-Broker 1.0		
1/2001	2/2001	3/2001	4/2001	1/2002	2/2002

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