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ANSA Phase III

Interception May 95 TC Progress Report

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Abstract

This presentation describes the progress in the work on interception since the last TC review meeting.

APM.1493.01.02

Draft

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Project Management (confidential to ANSA consortium for 2 years)

Distribution:

Supersedes:

Superseded by:



Interception

Work in Progress Report

**TC Meeting
26 May 1995**

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Overview of APM.1427: “The ANSA Interception Model”

- **Boundary problems: technical and administrative**
 - **Interception process phases: detect, recognize, mark, resolve**
 - **Resolution strategies: immediate and deferred**
 - **Passing interface references through domain boundaries**
 - **Link to trading and the gateway cloning effect**
 - **Implication to distributed system infrastructure design: Interface references, Resolvers and Binders**
-
- **=> Ready for review now: we need feedback as soon as possible!**



APM.1427: “The ANSA Interception Model”

- **Paper structure and content:**
 - **Chapter 1: Introduction and scenarios**
 - **Chapter 2: Problem overview**
 - **Chapter 3: Types of domains and boundaries**
 - **Chapter 4: The model of interception**
 - **Chapter 5: Gateway transformations**
 - **Chapter 6: Interception resolution strategies**
 - **Chapter 7: Interface Reference structure and content**
 - **Chapter 8: Interface References crossing domain boundaries**
 - **Chapter 9: The Resolver**
 - **Chapter 10: The Binder**
 - **Chapter 11: Conclusions and future work**



ORB Interoperability

- **The following set of documents will supersede APM.1021: “ORB Interoperability”:**
 - **APM.1313: “Introduction to Interception and Gateways”**
 - **APM.1427: “The ANSA Interception Model”**
 - **APM.?: “Federating Type Systems and Type Repositories”**
 - **APM.1303: “ORBIX-ANSAware Application-Level Gateway Design and Implementation”**
- **Integrated set of documents to be ready for review at the end of July**
- **Deliverable planned for next TC**
- **We will need reviewers for this task!**



“The ANSA Interception Model”

- **Boundary problems: technical and administrative**

Two types of boundary problems arise when
diverse systems are interconnected
or when large systems are to be partitioned

Technical difficulties which prevent interaction have to be overcome

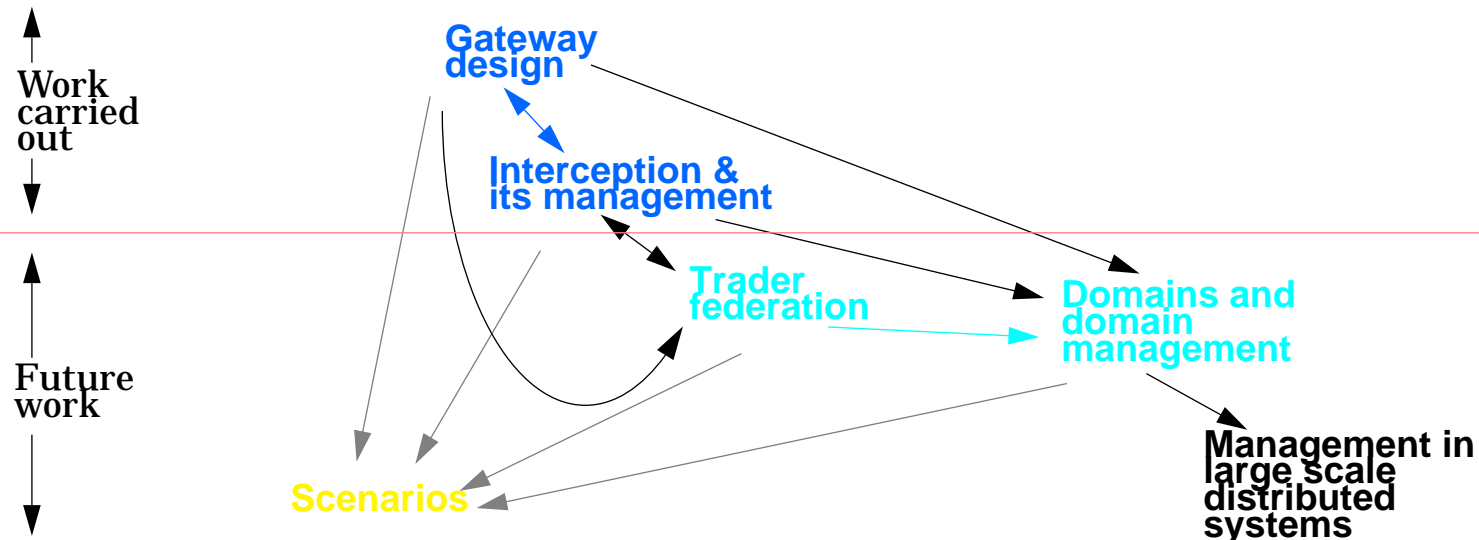
A need to create **administrative** boundaries to manage:

enable disable transform monitor

Interception is the process which can be used to deal with such boundary problems.

- **Interception process phases: detect, recognize, mark, resolve**
- **Resolution strategies: immediate and deferred**
- **Passing interface references through domain boundaries**
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Future Work: A Management Engine (B2 workpackage)



- **Trader federation**
- **Domains and domain management**
- **Distributed system infrastructure management**