Session IV_a: Service Architecture

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TINA Added Value TINA Internet Service: ✓ Transparent Location of resources **Pure Internet Service:** ✓ Dynamic Configuration of □ Audio/Video resources **Conference Support** ✓ Multi-resource Support □ Pre-defined ✓ Higher Availability □ No Role Based Service **Conference Types** Features ✓ Role-Based Service Features Representation ✓ Graphical Service Session Representation Bear Service Session Control ✓ Service Session Control ✓ User Identification by Logical Name ✓ New Participants Invitation TINA'99 Conference Hawaii, 12-15 April 1999 🕒 🕘 Р Т













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Outline
 1. Background
2. Overview of the Proposed Service Architecture
3. Implementation of Service Network
4. Performance Evaluation

Background

- Point-to-point applications to Point-to-multipoint applications
- Utilizing "Branch Servers" to improve efficiency of communication
- Market demands

Lessons from the performance evaluation

Distributed domains structure takes advantage in the specific condition, e.g., P < 1/2, Q < 1/2 in our performance test.

The granularity of domains:

More than half of sessions should be local.

The granularity of resource allocation:

More than half of users can access the resource within the user's domain.

Summary

- MSM controls branch servers in "Service Network" to achieve efficient multi-point applications by "Session and Resource" control

- "Service Network" is deployed by CORBA objects (MSM) in hierarchical structure

- Performance evaluation gives us a guideline of domains' distribution when "Service Network" is deployed in a distributed manner.