

Telecom DPE Requirements Workshop

TINA 99 Conference

Turtle Bay Resort. Oahu, Hawaii

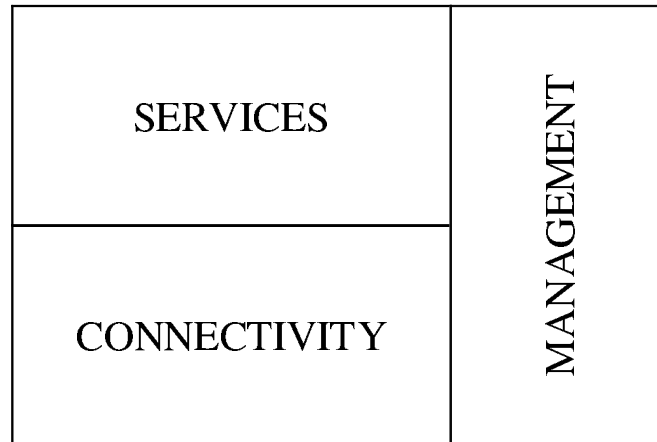
Monday 12th April 1999

Dave Stringer, Tolga Yalcinkaya

Objectives

- Identify a set of requirements for (a) Distributed Processing Environment(s), DPE(s) suitable for the Telecoms industry
- Ensure it reflects a cost / benefit trade-off that's acceptable to some platform vendors
- Ensure it addresses a sufficient number of business models of sufficient users

Decomposing the Telecoms Domain



Organising Requirements

- **functional**
 - i.e. which services are needed (events, trading, ...)
- **qualities**
 - dependability
 - security
 - availability (Fault tolerance)
 - predictability (Real-time)
 - usability (developer, manager, end-user)
 - scalability
 - QoS
- **development environment**
 - UML
 - SDL
- **technology**
 - CORBA
 - COM/MTS
 - MOM
 - DB client/server
 - Java
 - legacy
 - IN SS7
 - TMN CMIP

Integrating and Levelling

- Pigeon-holing requirements facilitates comparisons and integration
- Not all requirements are equally important
- Over stating less important ones hinders the realisation of the more important
- The “wish-list” trap helps no one in the long run and *must* be avoided

Agenda

- Focus Session I 2:00pm - 3:05pm
 - Introduction, Chair (5 min)
 - Tolga Yalcinkaya, Sprint (15 min)
 - Kenichi Kitami, NTT (15 min)
 - Guochun Lin, DT (15 min)
 - Anastasius Gavras, Eurescom (15 min)
- Break 3:05pm - 3:20pm
- Focus Session II 3:20pm - 4:40pm
 - Introduction, Chair (5 min)
 - Nicolas Mercoureff, Alcatel (15 min)
 - Tom Rutt, Lucent (15 min)
 - Dave Stringer, Nortel (15 min)
- Joe Sventek, HP (15 min)
- Kimmo Raatikainen, U. of Helsinki (15 min)
- Break 4:40pm - 4:55pm
- Analysis Session 4:55pm - 5:55
 - Introduction, Chair (5 min)
 - Open discussions (All) (40 min)
 - Wrap-up, Chair (15 min)
- Dinner Break 6:00pm - 8:00pm
- Hospitality Session 8:00pm - 10:00pm
 - Beverages will be provided by Expersoft

Open versus Proprietary

- Interfaces and Semantics in a standard are “open” and will be present in product
- Other required functionality can still be present as “proprietary” features
- Often its impossible to specify elements without over constraining implementation
- Some semantics and qualities have to be left to QoI - Quality of Implementation

A Telecoms ORB

- A “Profile” of CORBA
 - Minimum CORBA has introduced the concept
 - possibly profile a set of CORBA Services too
 - issue an RFP from OMG’s Telecom DTF
 - include the Real-time CORBA Extensions
- Issues
 - picking the right subsets and unions (inexact)
 - OMG’s commercial availability requirement