



***The Open Group's
QoS Task Force
& Quarry
Technologies
SLA Round Table***

<http://www.opengroup.org/qos>

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QoS Implies Different Things to Different Constituents...

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- ❑ **QoS means certain things to the Enterprise**
 - Fail-safe, Availability, Reliability, Load Balancing, Applications competing for Enterprise Resources...

- ❑ **Network Concept of QoS is what many think of...**
 - Guaranteed Bandwidth, Jitter, Latency, End-to-End, Internet Applications competing for Bandwidth

- ❑ **True End-to-End QoS includes more than Networks and the Internet**
 - Extends from the Enterprise, through WANs, to Remote Services

- ❑ **The Open Group QoS Task Force Focus**
 - Work with Customers and Vendors to achieve End-to-End QoS with emphasis on linking Enterprise QoS with Network QoS.

QoS Task Force Vision

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Facilitate QoS solutions that are standards oriented and capable of propagating and measuring QoS requirements End-to-End in order to provide quality of service assurance throughout the entire QoS delivery path.

QoS Task Force Objectives

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- ❑ Bolster existing standardization and policy efforts by gathering requirements from organizations who don't have time/resources to insure their individual organization's requirements are being incorporated into standards but can afford to interface with Task Force in order to drive them as a collective set with collective force behind it.
- ❑ Identify areas where there are no existing standardization/policy efforts that meet specific requirements and initiate those efforts - whether it is our own standard/policy effort or whether we produce RFCs for: IETF, DMTF, MPLS etc.
- ❑ Facilitate Interoperability, whether through publicizing APIs, developing test suites that verify compliance with APIs, or developing certification programs that provide a good housekeeping seal of approval for conformant technology.

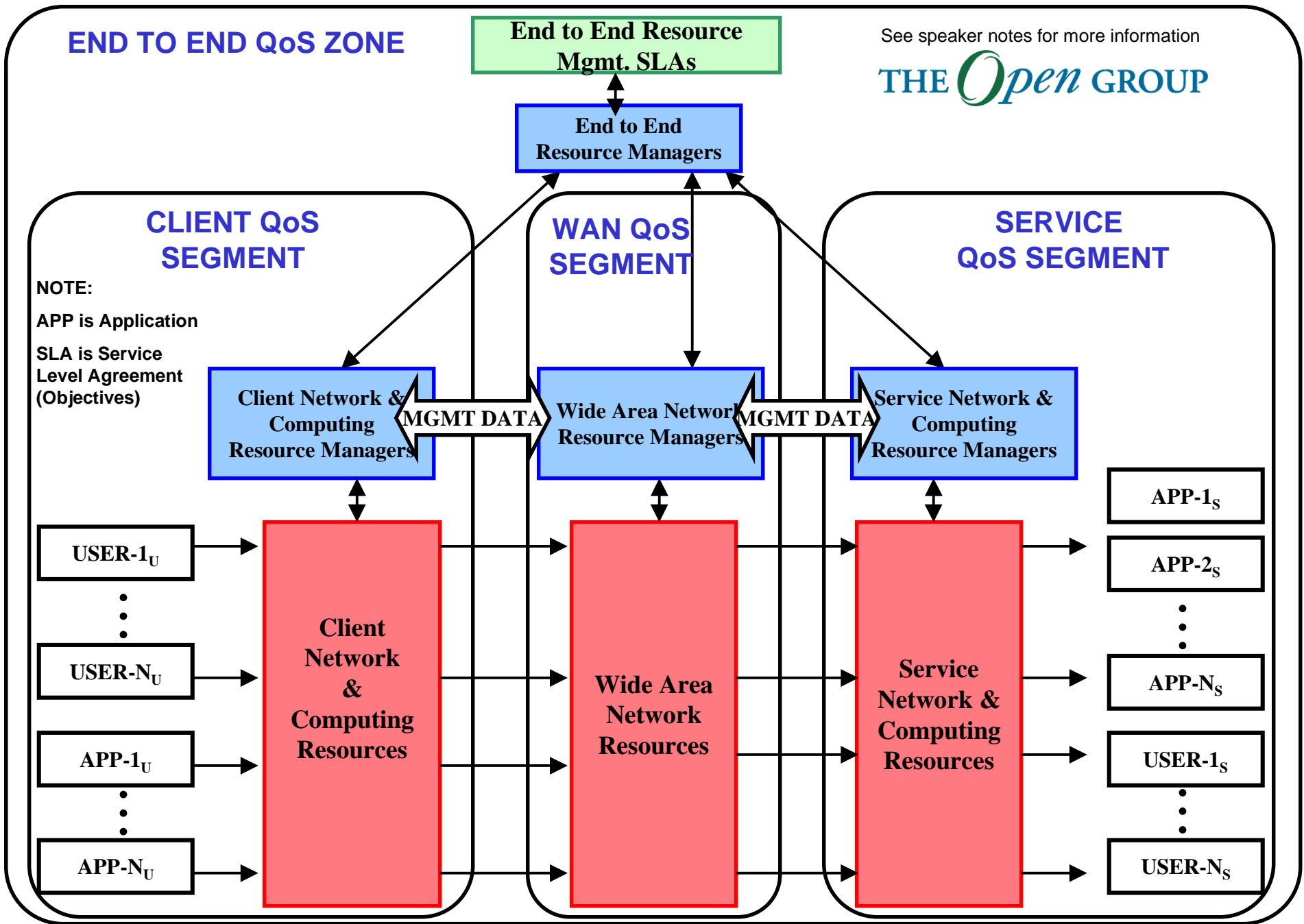
QoS Task Force Component Model – Starting Point

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- ❑ **Major Deliverable over past Quarter – Component Model**
- ❑ **Objective for Component Model – Point of Reference**
 - **Provide a reference for constituents involved in end-to-end QoS.**
 - **Provide a reference of functional components and QoS architecture from system-wide level and further detailed at a unit level.**
- ❑ **Work in Progress - shaped and validated by Members**

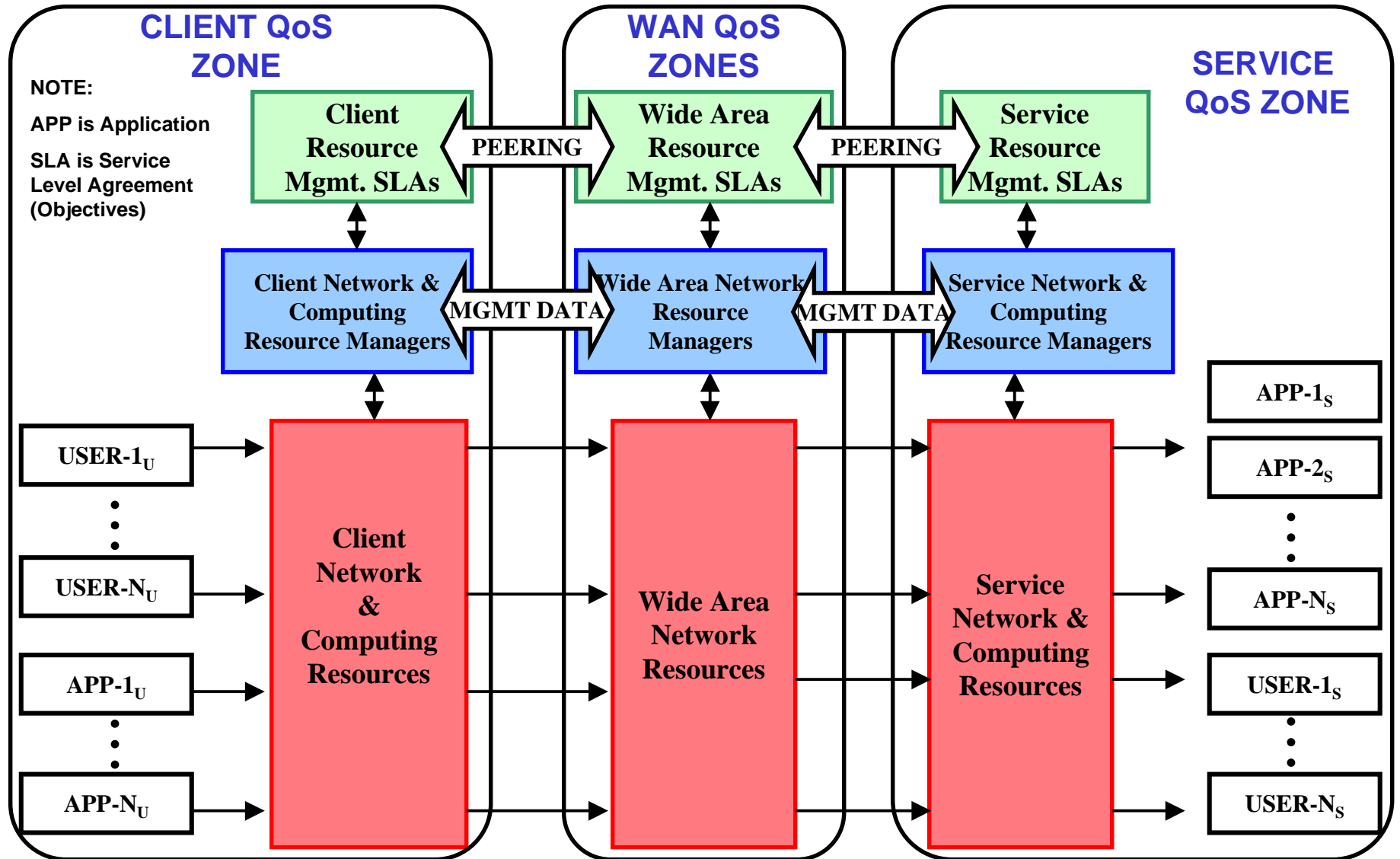
TOP LEVEL COMPONENT MAP FOR SINGLE AUTHORITY E2E SOLUTIONS

See speaker notes for more information
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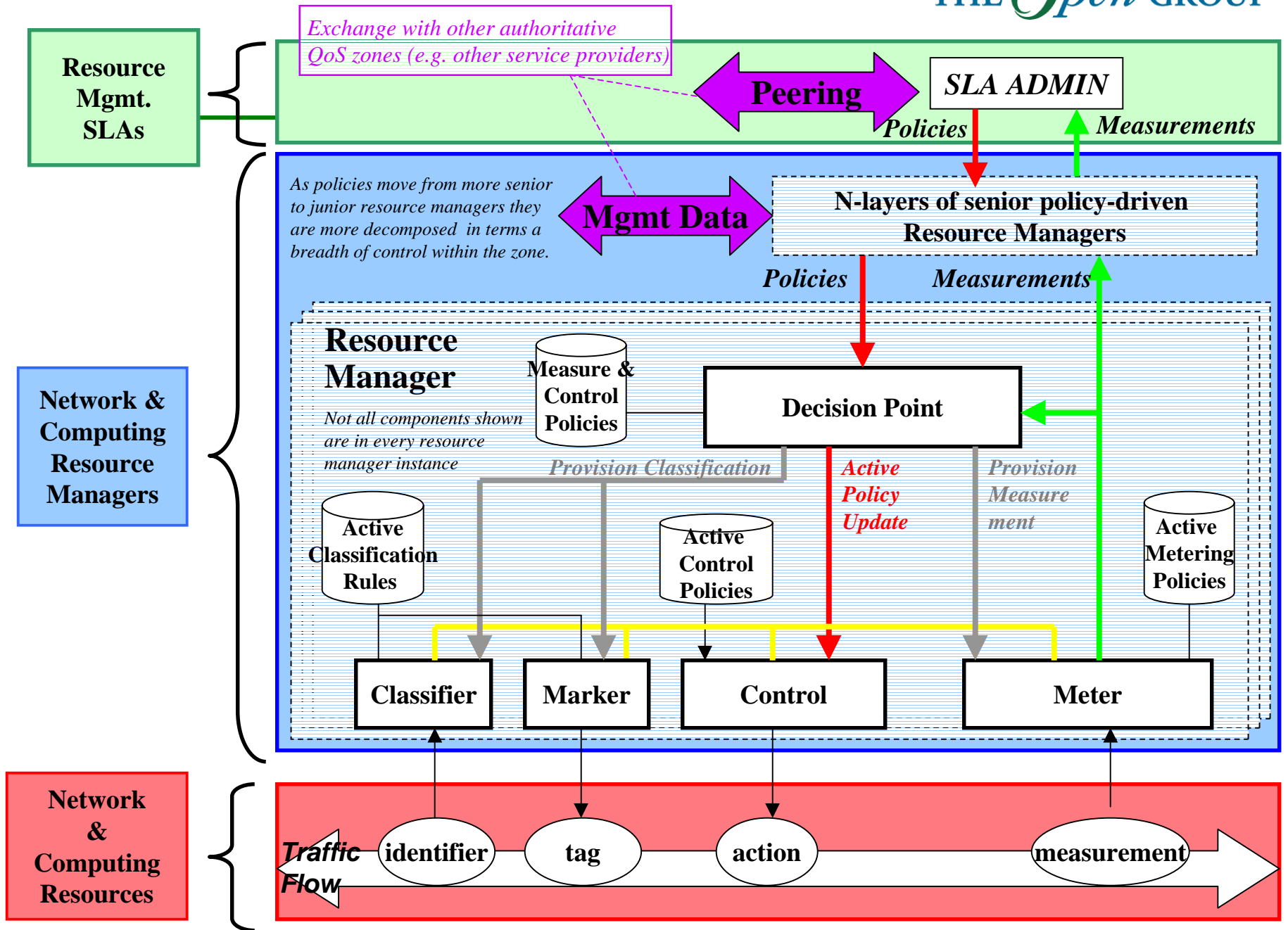


TOP LEVEL COMPONENT MAP FOR FEDERATED E2E SOLUTIONS

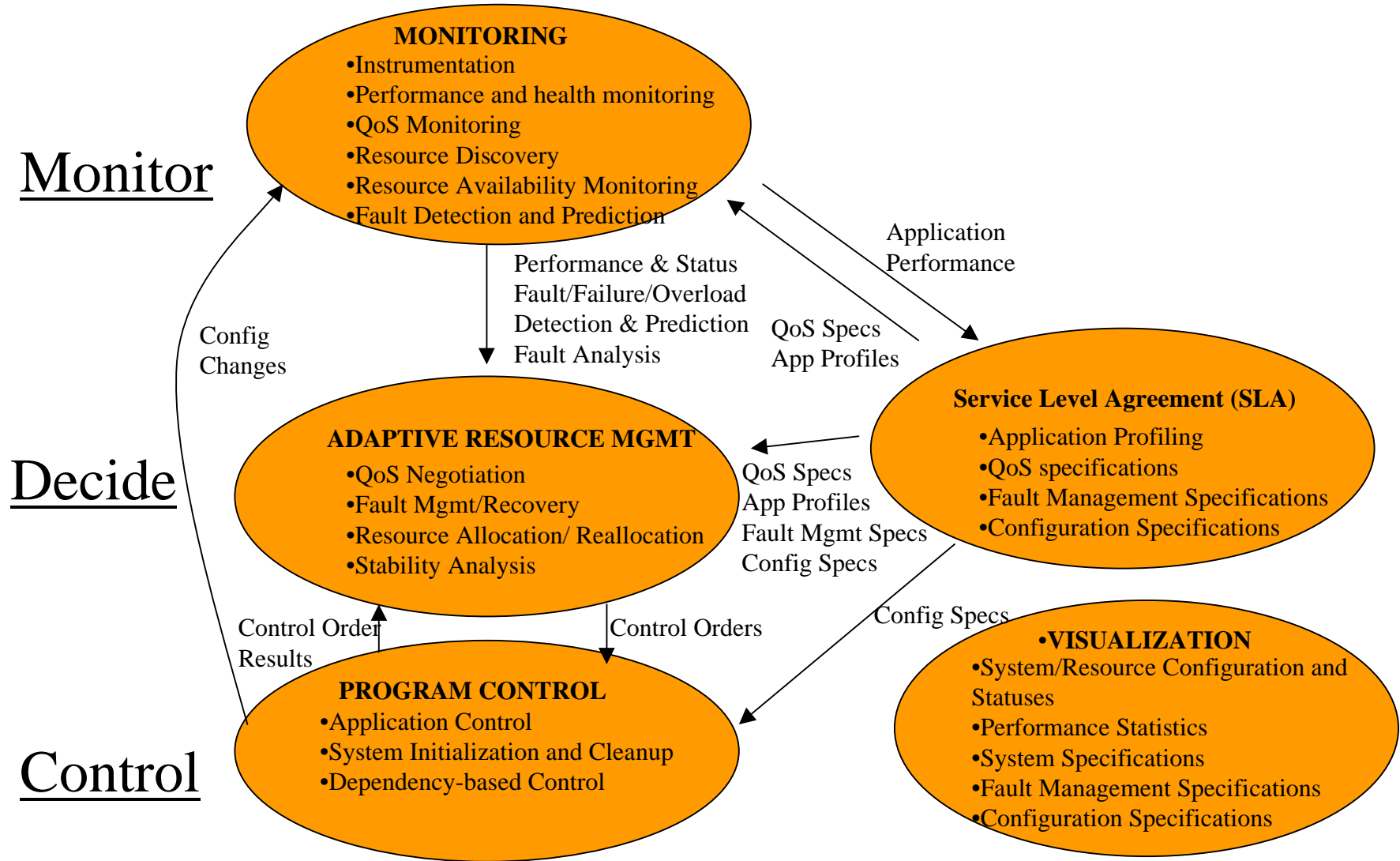
See speaker notes for more information



MID-LEVEL COMPONENT MAP



SLA Driven Resource Arch



Definition Phase - What Exists

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- ❑ Many Consortia working on Standards/Policy:
 - IETF, DMTF, GMDFFokus, Euro-Commissioned Projects, OMG, MPLS, TMF (Telcos) etc.
- ❑ Do NOT want to duplicate efforts that already have market adoption
- ❑ After prioritizing members' requirements identify and evaluate pertinent efforts in other consortia
- ❑ Populate Component Map with Existing standards efforts; interfaces protocols etc.
- ❑ White Paper for QoS Task Force

Evaluation Phase

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Given the Standards & Policies that are out there, What is the Level of Applicability to Customers' & Vendors' Requirements?

- What does the Standard/Policy achieve – how well does it fit Member's Requirements?

- Level of Support & Market Adoption for Particular Standards?
 - Working Group (Who's involved?)
 - Specification (Is it a Draft/Standard/Revision?)
 - Implementations (Prototype/Product?)
 - Evolution of Implementations (Beta, Major Revs?)
 - Interoperability of Implementation (Do they work with other Vendor's Products)

Decision Phase

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- ❑ **Given what is discovered in the Evaluation phase – Decide what is most important to Members to determine which areas to put resources toward:**
 - Which existing standardization efforts should we support via gathering & driving requirements?
 - Which consortia to have partner with and how closely to work with?
 - Initiate efforts to increase market awareness and adoption of QoS solutions?
 - Initiate efforts to provide testing, interoperability, certification for existing standards?
 - Initiate new efforts for QoS architecture, standards, policies?

- ❑ **Publish Roadmap Q3**

Implementation Phase – Q4

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Based on Definition, Evaluation, Decision
Phases
and According to Roadmap – To Be published in
Q3

Working Groups

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Re-Organized from Tech/Business => Vertical QoS Segments

- QoS Edge & Core (Routers) Technology
- QoS Real-Time (Joint Working Group – Time, Measurement, Embedded Systems & O/S)
- QoS Storage (SLAs for Data Store – High Reliability, Redundancy, Performance in Accessibility)
- QoS Customer (SLA requirements, Business Scenarios, Measurements & Monitoring requirements)
- QoS Architecture (Ties all Working Groups Together)
- QoS Business (Increase Membership, Promote QoS solutions & Members who Implement QoS Standards)
- QoS Service Provider (SLAs, QoS Measurements, Dynamic Controls/Allocation, Interfaces to Enterprise)

Working Group Actions

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- ❑ Identify current standards, I/F, protocols that exist for their particular area of interest
- ❑ Identify where the holes are
- ❑ Identify what pertinent policies/service level agreement parameters they envision for their areas.
- ❑ Populate Component Map with findings
- ❑ Define, Evaluate & Decide what initiatives/standards/policies to support or initiate for their particular WG segment
- ❑ Evolve architecture of component map to insure fit for their working groups components

Progress Since Last Conference

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- ❑ Regional Meetings
 - March 2001, Sponsored by Hewlett-Packard
 - March 2001, Sponsored by Sun Microsystems
- ❑ Berlin Conference (April 25th – 26th)
- ❑ Regional Meeting Sponsored by Quarry Technologies (April 30th)
- ❑ Working Groups Established
- ❑ Component Map Evolved and Definition Phase Begun

Today's SLA Round Table Discussion

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- Why The Open Group is Here
 - SLA Critical throughout End-to-End
 - Standards Efforts in this Area are just Beginning
 - Want to Drive SLA standards and policies with real world requirements
 - Gather Requirements – Bring Back to QoS Task Force
 - Document
 - Extend & Evolve
 - Drive Standards/Policies that meet Requirements

QoS Membership

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QoS Task Force Membership

Allot Communications
Compaq Computer Corp.
Hewlett-Packard
Hitachi
IBM
NetReality
Predictive Systems AG
Sitara Networks
Teknowledge

Aurema
Consignia (UK Post Office)
Boeing
DISA
MEGAXESS
The MITRE Corporation
NeTraverse
Quarry Technologies
Sun Microsystems

SIAC (Securities Industry Automation Corporation)
S/TDC (Systems/Technology Development Corporation)

For more information on Membership Contact:

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