

SA3 – End-to-End QoS

ME proxying for Toby Rodwell
DANTE

Objective

“ Enable end users to request guaranteed levels of service for some specified traffic..... “

Main Components

- Performance Enhancement Response Team (PERT)
- QoS Provisioning
- Extension of basic services as a result of JRA3 findings

Performance Monitoring & PERT Work Items I

WI 2: Define & Establish PERT [DANTE]

- What? Who? How?

WI 3: Develop PERT Documentation [SWITCH]

- PERT-KB, End user guide and Best practice guide

WI 4: Develop PERT Ticket System [PSNC]

Performance Monitoring & PERT

Work Items II

WI 5: Develop PERT Troubleshooting Procedures [PSNC]

- Initially based on experience

WI 6: PERT Day to Day Operations [DANTE]

- Escalated by NRN NOCs

WI 7: Evaluate and deploy QoS-PMS [DFN]

- Off the shelf equipment installed in networks initially taking part in this activity
- Additional monitors to be bought by individual organisations

QoS Provisioning Work Items

WI 8: Define & Establish Provisioning Team (QoS-PT)

- Staff from [DANTE] and NRNs
- First step develop manual or semi-automated PS

WI 9: Develop Policy for Allocation of Premium IP [GARR]

- Technical and administrative requirements

WI 10: Develop Provisioning System [DANTE]

- Develop existing GÉANT PIP reservation system

Extensions to basic SA3 systems

WI 11: Enhance systems [GRNET]

- as a result of JRA3 findings
- Bandwidth on demand, circuit switching, mobility...

Relationship with EGEE

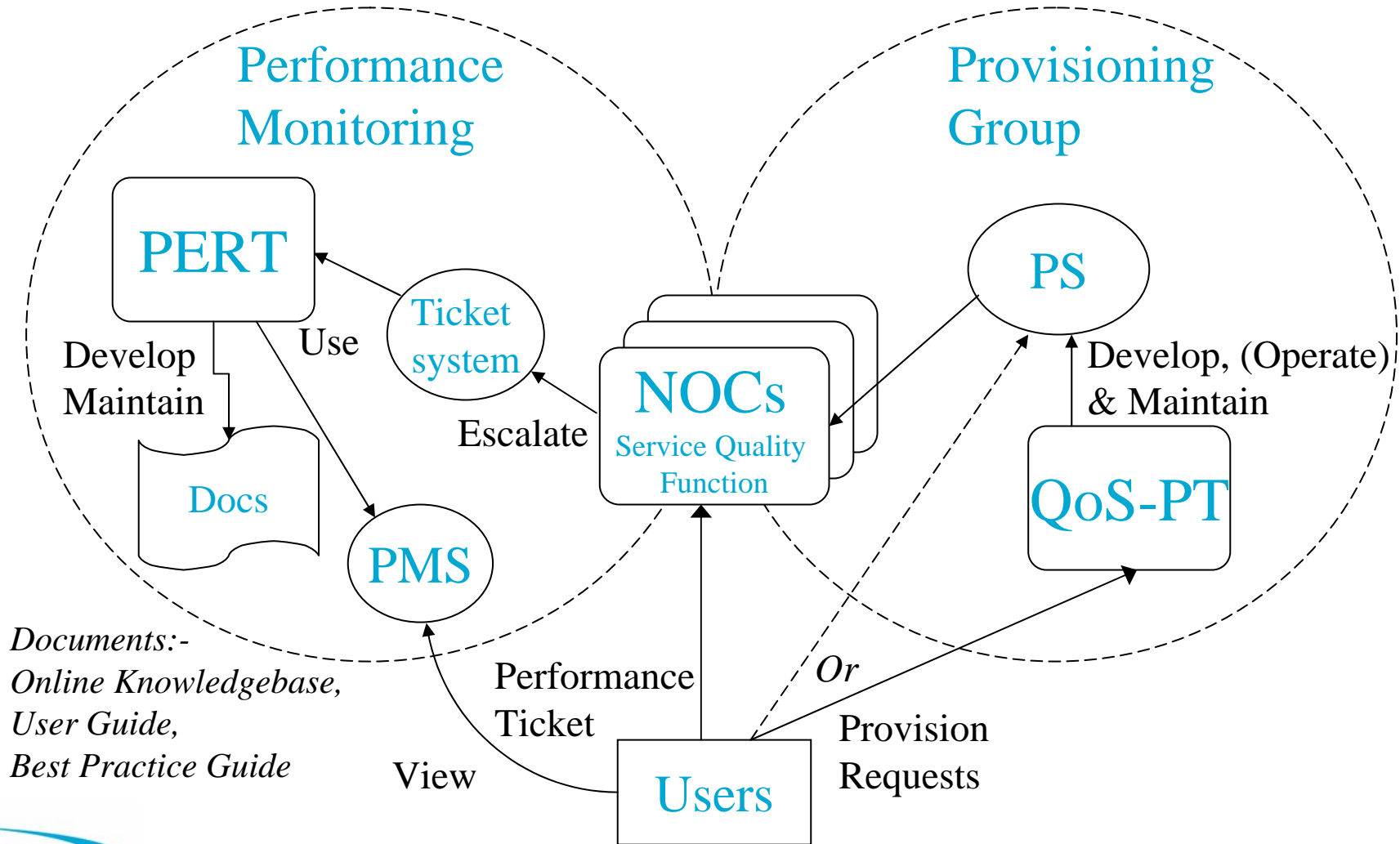
- EGEE, another EU FP6 project, began in April
- EGEE has plans to develop bandwidth allocation systems very similar to GN2 SA3
- DANTE (SA3 activity leader) currently in negotiations with EGEE to align our plans:
 - Minimise duplication
 - Ensure compatibility

Resources (M1-18)

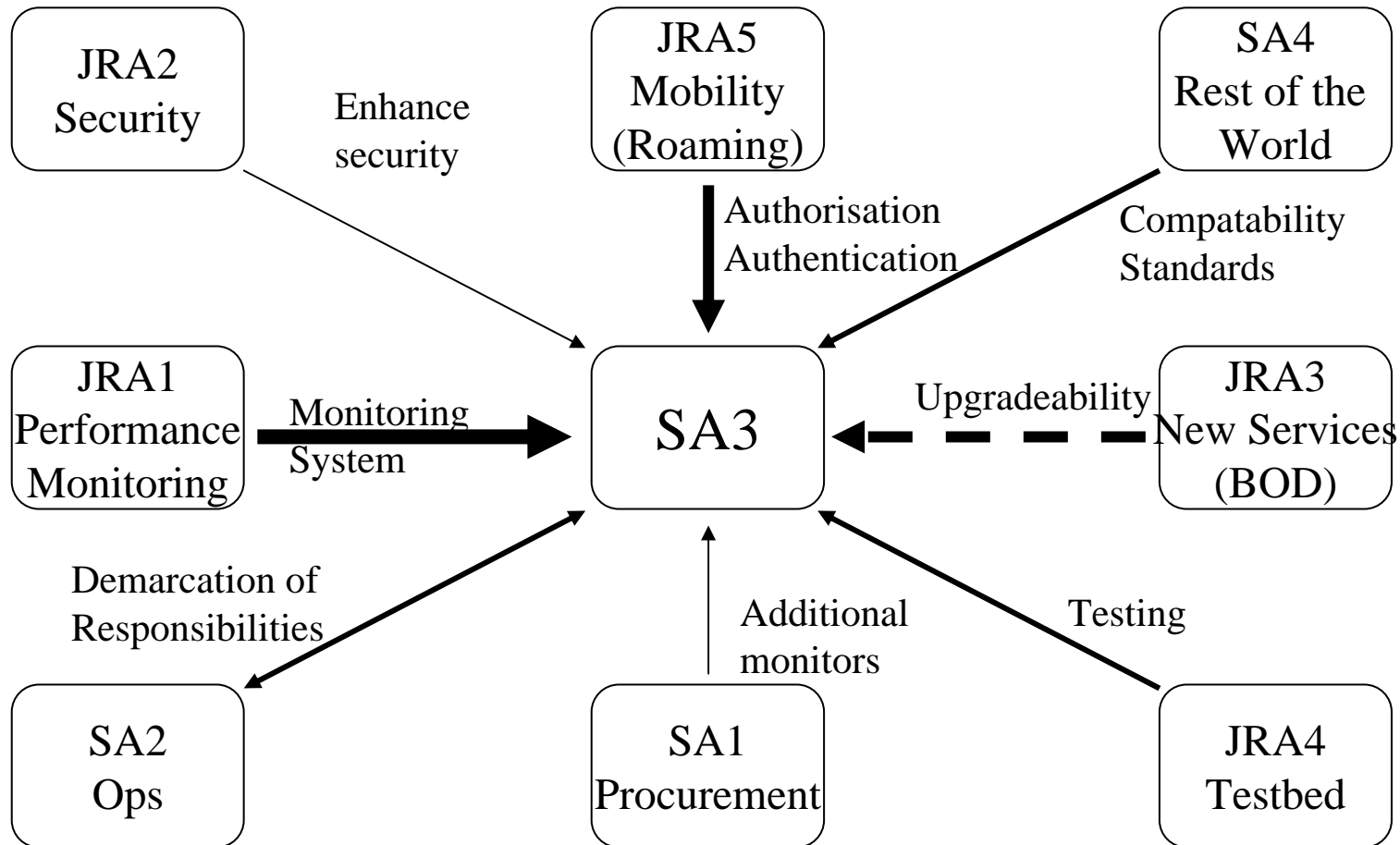
- 180 PM (co-funded)
- Participants for each WI drawn from:
DANTE, CARNet, CESNET, DFN, FCCN, GARR,
GRNET, HUNGARNET, ISTF, NORDUnet, PSNC,
RedIRIS, RENATER, SWITCH
- Expected claim: €1.03M

Questions?

SA3 Organisation



SA3 position in GN2



Performance Monitoring & PERT Work Items I

WI 2: Define & Establish PERT

- What? Who? How?
- **DANTE**, CZ, IT, ES, PL, CH & UK

WI 3: Develop PERT Documentation

- PERT-KB, End user guide and Best practice guide
- CZ, DE, IT, ES, FR, IE, HU, PL, **CH** & UK

WI 4: Develop PERT Ticket System

- CZ, DE, IT, **PL** & CH