

JRA3 Work Plan Refinement Activity

Progress to date (Jan 04)

JRA3 - What's it all about?

- **New services**
- **Focus on BoD (first 18M)**
- **Exploring “circuit-oriented” BoD provision**
 - start with MPLS layer-2 VPN approaches
 - address multi-domain, heterogeneity, auto provisioning...
- **Packet-oriented BoD provision will be addressed by SA3**
 - means Premium IP (DiffServ or Over Provisioning)
 - but JRA3 will address integration with PIP-only domains

Headlines

- **Meeting #1 attended by 9 NRENs**
 - out of 24 who have committed manpower
 - largest contributors all present
- **General agreement with content of current high-level work plan**
- **Some partners have quite ambitious ideas for JRA3:**
 - i.e. develop in-house all components necessary to deliver BoD services especially should GARDEN/GRANDE not deliver (or late)
- **Others not happy with the prospect of lots of development**
 - cannot (directly) access software development resource
 - sub-contracting a must

Unresolved Issues

- **E2E: what does it mean?**
 - Noted that SA3 defined it to mean edge-of-NREN to edge-of-NREN
 - Also noted that most interesting (difficult) part of network is at the edge
 - Hence: should involve end user institutions...
- **Desire to add decision points down the line**
 - Due to uncertainties with other FP6 projects
 - Means before M18
 - How to deal with this?
- **Envisage much sub-contracting required**
- **No manpower figures collected yet**

Relationships with other Activities

- **JRA1: Monitoring**
 - BoD service monitoring requirements not yet discussed but clearly monitoring is required...
- **JRA2: Security**
 - Bandwidth brokers/network resource managers will ultimately have to be able to dynamically re-configure network elements
- **JRA4: Testbed**
 - Need to provide requirements at M6, M18, ...
- **JRA5: Ubiquity**
 - Would like to re-use generic AAI later on (but JRA3 will probably need an interim solution earlier?)

Relationship with SA3

- Leave (E2E) packet-oriented BoD (e.g. PIP) to SA3
- Northbound provisioning interface should be compatible with that developed by SA3
- (Pre?)Production BoD service phase 1:
 - manually/(semi-automatically?) provisioned E2E service
 - blueprint ready for SA3 around M18
- (Pre?)Production BoD service phase 2A:
 - auto provisioned in the domain, manually between domains
 - blueprint ready for SA3 around M28
- (Pre?)Production BoD service phase 2B:
 - full automation
 - blueprint ready for SA3 around M34

Relationship with Other FP6 Projects

- **VERY IMPORTANT!** Arguably JRA3 is the GN2 activity that is closest to GARDEN, GRANDE and, to a lesser extent, EGEE
- **EGEE:**
 - Look to get initial user requirements from EGEE
 - Aim to re-use northbound interface developed herein
 - Extend it to include circuit-oriented BoD provisioning?
- **GARDEN/GRANDE:**
 - Both will develop bandwidth brokers and/or network resource managers
 - JRA3 should aim to re-use these (after some adaptation)
 - BUT what if they don't happen...???
- **GRNET (Afrodite)** has written a nice summary of relevant work to be done by these projects

How to Proceed?

- **At the end of JRA3 meeting #1 it was decided that:**
 - **due to close relationship of JRA3 with EGEE, GARDEN & GRANDE activities...**
 - **the best way to proceed is for GN2 partners with most exposure to the EGEE, GARDEN & GRANDE proposals to draw up a first draft DoW and discuss with the rest of the partners**
 - **this means DANTE, CZ, IT, GR & PL**
 - **this work is in progress now**

(Very) Draft DoW

Sub Activity	Title/Description	MM	Start	Stop
GN2-JRA3-0	Overall JRA Project Management	47	-M3	M44
GN2-JRA3-1	Requirements Gathering & Service Definition		-M3	M3
GN2-JRA3-2	Survey of Technologies & Techniques		M1	M6
GN2-JRA3-3	Definition of Testbed Requirements & Test Plans		M3	M30
GN2-JRA3-4	Testing Activities		M9	M30
GN2-JRA3-5	Network Middleware Development		M12	M32
GN2-JRA3-6	Implementation & Validation		M18	M44
TOTAL				

Questions?