

Track 3: Networking

5th e-Infrastructure Concertation Meeting

e-Infrastructures as standardisation drivers

Track 3: Networking

- The Networking Cluster – Who we are
- Summary of the meeting
 - Progress on already-identified standards
 - New standardisation topics raised

Track 3: Networking

The Networking Cluster – Who we are

6 June, 2007

e-Infrastructures Concertation Meeting

Track 3: Networking

FP6	GN2	GEANT	
	ALICE	Latin America NREN connectivity	
	EUMEDCONNECT	EU-Mediterranean connectivity	
	OCCASION	Satellite communication to Central Asia	
	SEEREN2	SE Europe NREN connectivity	
	TEIN2	EU-Asia connectivity	
	AUGERACCESS		
	EXPRoS		
	Go4IT	IPv6 conformance testing	
	ITHANET		
	PHOSPHORUS	Optical networks, Control plane issues	
	WEIRD	WiMAX	
	FP7	6CHOICE	IPv6 Europe-India
		6DEPLOY	IPv6 deployment support
BSI		Black Sea Initiative (South Caucasus)	
EVALSO		Astronomy; link to Chile observatory	
FEDERICA		Slices of European NREN for experimentation	
GLOBAL		Virtual conferencing, archiving and retrieval	
ORIENT			
DEISA			

Summary of the Meeting

- Progress on already-identified standards

Progress on already-identified standards

OGF:

- Network Mark-up Language (NML) to describe topology (Europe is co-chairing the WG)
- Network monitoring (PerfSONAR (NRENs in GN2, plus Internet2 and other international research groups)
 - Led to 1 BOF on how to exchange measurement information (can be useful for the FP7 project MOMENT – Unit D, Challenge 1)
- 2 new BOFs initiated by **GN2**:
 - Control plane and provisioning for optical networks – research focus and network approach
 - Inter-domain exchange of information – research focus and network approach

Summary of the Meeting

- New standardisation issues

New standards areas identified (1)

6DEPLOY

IETF: IP (IPv6):

- Multihoming (Shim6)
- Mobile IP (Mext)
- Softwires (IPv6 networks connected via IPv4, and vice-versa)
- 16ng (IPv6 over WiMAX)
- DHCPv6 (DHC)
- Multicast (mboned)
- IPv6 maintenance (6man)
- IPv6 operations (6ops)

Security

IETF: Trusted archive service

Optical cryptography (NIST)

EIFFEL (Unit D, Challenge 1)

New Internet protocol

New standards areas identified (2)

Other:

New “standards body” identified by FEDERICA:

- IPsphere Forum (Control plane and Inter-domain issues – industrial focus and service approach)

Accessibility to ICT tools for disabled people (CEN-W3C-ETSI-ICTSB WG)

Inter-domain issue and monitoring and measurement are seen as common points of interest between a few FP7 projects and OGF (next OGF meeting is mid September, Singapore)

Other work items discussed

Video-conferencing standards:

Global believes that standards in video-conferencing are OK. There are already VoIP and video WGs in IETF for the protocols.

New functionalities would be nice (so far, the systems are very proprietary and non-interoperable), but this is at an operational level. It is where Global is focusing, but there are no plans to try and standardise (much effort) – there are already several different solutions (both free and commercial)

Dynamic reservation of network resources:

DEISA has a requirement for the dynamic reservation of resources (BoD) in hybrid (inc. optical-switched and packet-switched) networks both ad-hoc and on-demand. Enables to share resources.