Subject

Management and Governance within the Future Internet

Scope

• Management of Ubiquitous Virtual Resources - including the integrated and flexible usage of heterogeneous and assumable virtual resources for energy, networking, computation, storage, content, mobility, etc.

• Cross-domain Self Management functions and cross-layer cooperative Future Internet systems design providing integrated management functionality, including: system lifecycles, monitoring, (re)configuration, optimisation, organisation, performance, adaptation, context, semantics, security, composition, assurance, negotiation, repository, SLA, QoS, billing, functions-management; minimising life-cycle Future Internet system costs, minimising the energy footprint

• Embedding management functionality in all Future Internet systems (i.e. InNetworks management, InServices management, InContent management)

• Dynamic deployment of (new)management functionality with no interruption of Future Internet systems' and services' operation (i.e. Plug-and-Play, UnPlug-and-Play, programmability)

• Orchestration and integration of management functionalities

Initiator domain

Services WG

Priority from the originator domain

1

Duration of the parallel session

2.5 hours

Other domains required to participate and how

Networks, Content

Possible endorsement/support from other domains

Networks

More information

http://services.future-internet.eu/index.php/Management_and_governance

Subject

Architectures and infrastructures

Scope

Identify architectural and infrastructural concerns that will make the Future Internet a reality. The main issues covered would include: network layer versus services layers; mobility; dynamicity; security; awareness of user context; relationship to business value chains and socio-economic aspects.

Initiator domain

Services

Priority from the originator domain

2

Duration of the parallel session

90 minutes

Other domains required to participate and how

Networks

More information

http://services.future-internet.eu/index.php/Architectures_and_infrastructures

Subject

Trust at scale and high granularity

Scope

Security management frameworks taking into account current research in Mobile Ad-Hoc Networks (MANET), planetary scale computing efforts, trusted virtualization which facilitate the creation of appliance networks which largely automate the deployment and auditing life cycles of both hardware and software according to well specified policy requirements, which operate across the differing domains of personal, business and governmental computing sectors.

Initiator domain

Services

Priority from the originator domain

3

Duration of the parallel session

60-90 Minutes

Other domains required to participate and how

Security

Possible endorsement/support from other domains

We are discussing with the Security WG to embed this session within a longer Security and Trust session. Our contact on this is Zeta Dooly who's a member of this working group.

More information

http://services.future-internet.eu/index.php/Trust_at_scale_and_high_granularity

Subject

Lifecycle engineering for Future Internet Applications

Scope

Considering the challenges that exist when we look at the interplay between content engineering, service engineering and network engineering lifecycles. For example, content and service lifecycles are changing radically and we need to understand the impact. One challenge is how these things can be kept separate, i.e. move away from traditional models where they are all locked together (for example, consider television and how the way that content is commissioned and shot is actually a result of the way people will view it on a TV set and the way it will get to them over the airwaves - the device, channel and content are all connected). Questions we would investigate include: how can content be engineered so it remains usable when the devices and networks used to produce, consume and distribute it are transient? How can content be engineered when these devices and channels may not even exist yet?

Initiator domain

Services

Priority from the originator domain

4

Duration of the parallel session

90 minutes

Other domains required to participate and how

Networks, IoT, Content

More information

http://services.future-internet.eu/index.php/Lifecycle_engineering_for_Future_Internet_Applications