

Input to the SECOND USAGE AREA WORKSHOP

Brussels, Belgium, 21 - 22 June 2010

Responses to the issues and open questions to be addressed during the Workshop:

- (1) What use case and scenario in your area would you consider the most appropriate and representative one for large-scale experimentation with the Future Internet platform to be built starting from 2013 (please refer to the documents referred to on the above websites for inspiration)?

Consumption of individually attractive AV media content at my leisure, anywhere, anytime, at any AV device. This should be possible in a simple, easy to use way, at affordable cost (for the end-user as well as for the content provider) and in high technical quality (QoS) matching that of SD-/HD-/3D-TV as appropriate.

- (2) What innovative Internet functionality and technologies would you consider important for your suggested use case and scenario (e.g. context awareness, sensor networks, advanced real time processing capabilities handling huge volume of data, ad hoc service composition and mash-up, managed broadband connectivity and services, embedded media support for interfaces easing the interpretation of processed contextual data, etc.)?

All those mentioned above are relevant. Focus is on reliable mass distribution of high-data-rate AV content (at very low cost) and privacy-conserving profiling functionalities.

- (3) Which of the identified functionalities would you expect the Future Internet core technology platform to deliver to support your and other usage area scenarios?

Reliable transport of AV data in the large scale making use of concepts embracing different distribution paths and smart caching technologies; security and privacy functionalities.

- (4) What kind of experimentation environment would you consider necessary for broad large scale testing of the platform to be developed in your use area? What would be needed to experiment new services and applications cutting across use areas (services and application

mash-up) and building a new services and application ecosystem around the prototype implementations of the platform?

The challenge is to define an intelligent delivery concept that moves dynamically between the two extremes

- “unicast connection” (=streaming point-to-point for each individual user), and
- “broadcast reception” (= content push point-to-area and thus to an undetermined high number of users)

This “distributed distribution” concept includes distributed storage and access, and minimizes network load as well as distribution cost over-all. It encompasses elements like multicast connection, P2P, CDN and managed IP(TV) networks in transparent combination with unicast and broadcast.

Content is tailored according to the actual terminal and network capabilities. To be successful, the concept precludes access to personal data like profiles without prior consent by the end-user and generally preserves the end-users’ privacy.

The experimental environment would include various types of terminals including hybrid broadcast/broadband devices as those are ideally suited to serve as seeders of BC content in intelligent, mashed-up delivery concepts.

- (5) How do you see the potential role of your organisation in the FI-PPP, in the context of Usage areas taking a prominent role in the Initiative, to ensure an appropriate application driven approach?

Provision of Broadcast test networks interlinked with LTE (in the dig. dividend band 790-862 MHz or in the white spaces of the lower UHF band 470-790 MHz), pertinent playout servers, test content, test equipment, etc.

Knowledge on Hybrid Broadcast/Broadband TV technology and, more important, on applications for HbbTV terminals and services.

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