IMS Working Group

NNI Definition, Service Interoperability, Business Model Definition

- IMS-Based Services: Network – Network Interface Definition
  - Transport layer interfaces ; Signalling protocols
  - Codecs (voice and video) - with engineering guidelines
  - Security at transport layer
  - Alternatives for service configuration at NNI - “best implementation practices”
  - Interconnection Forms for four services : Voice over IP, Voice over IMS, ViLTE , Diameter Signalling
- IMS-Based Services: Service Interoperability
  - Basic principles for call routing, QoS control and monitoring, network security service at application layer
  - Analysis of five major interworking scenarios: IMS to IMS (with and w/o fixed/mobile interworking), Legacy to IMS, IMS to VoIP, WebRTC
  - Roaming scenario (LBO and S8HR) ; Features and capabilities of the hubbing mode
- IMS Business Model Definition
  - Working closely with GSMA (Network 202, WSOLU, NG…)
  - endorsed three layer architecture (transport, signalling, service)
  - proposed a charging unit scheme
  - proposed best practices to speed up NNI implementation

i3 forum

Looking ahead : roundtable discussion on the future of IMS

1. In addition to VoLTE/ViLTE, RCS which service/app should rely on an IMS platform?
2. Which business model (and related charging units) should SP/Carriers adopt in IMS?
3. Is there any (basic) problem in VoLTE interoperability?
4. How to “discover” the profile (TDM / IP / IMS) of the called party and how to properly route the call?
5. Which roaming scheme has to be adopted (LBO vs. S8HR)?
6. How to reduce the implementation time of an IMS NNI?
7. What is the impact of NFV paradigm implementing an IMS platform?
8. What is the impact on OSS/BSS?
9. ……

IMS Int. Services can be offered today, but a lot has to be done in order to achieve completeness and efficiency