

IP Multimedia Subsystem (IMS)

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This one day seminar is an overview of the 3GPP IP Multimedia Subsystem (IMS), which is based on the IETF Session Initiation protocol (SIP) and IMS Architecture. This seminar discusses the transition of the traditional telephony provider to IMS, and how IMS will transform the telephony industry. This seminar explains the IMS architecture components and shows how they interconnect and interact with each of the other IMS components. This seminar provides the vision of an IMS roadmap and helps telephony professionals understand the direction of IMS.

Course Outline

- IMS Fundamentals
 - IMS - Network Topology
 - IMS - Key Attributes
 - IMS - Benefits
 - Blended Services with IMS
 - IMS - Access Network and Device
- IMS Architecture
- IMS Home Network - Functional Elements
- IMS Network-to-Network connectivity
- IMS Session Management
 - Proxy-CSCF (P-CSCF)
 - Interrogating - CSCF (I-CSCF)
 - Serving - CSCF (S-CSCF)
- IMS Databases
 - Home Subscriber Server (HSS)
 - Service Locator Function (SLF)
- Application Server (AS)
- Service Capability Interaction Management
- IP Multimedia Service Switching Function
- Open Services Architecture Service Capability Server
- Media Resource Function
- Breakout Gateway Control Function
- Serving GPRS Support Node
- Gateway GPRS Support Node
- Policy Decision Function
- Application Level Gateway
- PSTN/CS Gateway
- Signaling Gateway
- Media Gateway
- Media Gateway Controller Function
- Topology Hiding Inter-network Gateway
- Home/Visiting Network
- USIM Smart Card
- IP Multimedia Services Identity Module
- Private Use Identity
- Public/Private Relationship
- Service Profiles
- User Profile Structure
- Stove Pipe vs. IMS Approach
- IMS Call Flow
- **IMS Reference Points & Diameter**