

IMS Advanced

SIP and Diameter Deep Dive

Many European providers have now put an IP multimedia subsystem into service or have taken concrete steps to do so. Standardization is now also more detailed in many respects than it was a few years ago. The frequently voiced accusation that SIP has no performance features is now being refuted as part of IMS standardization. There are also concrete proposals on security issues. In our course, new aspects of signaling with SIP and Diameter are discussed using the standards and concrete examples. Detailed call flows on performance features and security will also be discussed. However, problems such as emergency calls, location-based services or QoS are also discussed, for which only possible solutions are available in practice.

Course Contents

- Status of standardization
- Further development of SIP for IMS services
- SIP outbound: signaling with redundant edge proxies
- NAT traversal with Interactive Connectivity Establishment: salvation or curse?
- Network transitions according to AKNN: Architecture, features, QoS
- Features according to ETSI TISPAN and 3GPP
- Architecture of conference systems
- Billing/charging in the 3GPP standards
- Location Based Services: Signaling and possibilities
- IMS AKA: Secure authentication in IMS with SIM cards
- Variants of authentication without SIM card
- Quo Vadis IMS? Just VoIP - or more?
- QoS for LTE, PacketCable and TISPAN with IMS and Diameter

E-Book The detailed digital documentation package, consisting of an e-book and PDF, is included in the price of the course.

Target Group

This course is aimed at planners and administrators who have already dealt with IMS and are looking for a discussion of advanced topics relating to IMS.

Prerequisites

Participants should be familiar with IMS concepts and SIP. Prior attendance of the course IP Multimedia Subsystem - Telephony in Fixed and Mobile Networks is strongly recommended.

This Course in the Web



You can find the up-to-date information and options for ordering under the following link:

www.experteach-training.com/go/IMSA

Reservation

On our Website, you can reserve a course seat for 7 days free of charge and in a non-committal manner. This can also be done by phone under +49 6074/4868-0.

Guaranteed Course Dates

To ensure reliable planning, we are continuously offering a wide range of guaranteed course dates.

Your Tailor-Made Course!

We can precisely customize this course to your project and the corresponding requirements.

Status 03/14/2026

Training		Prices, excl. of V.A.T.	
Classes in Germany	2 Days	€ 1,795	
Online Training	2 Days	€ 1,795	
Date/course venue	Course language German		
19/03-20/03/26	17/09-18/09/26		
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