

# IMS – IP Multimedia Subsystem in Telecommunication Networks

Although IMS is from the point of view of standardisation still a dream of the future for UMTS, several vendors decided to introduce commercialised systems into the market. This anticipates an essential step forward in the development of applications for mobile networks. Push-to-talk, buddy lists, multi-media messages and interworking with internet message services can already be offered as mobile today, based on IMS.

Inform yourself about the possibilities, which a standardised network for application offers to mobile network operators. The course provides a practical and a day-to-day business-related overview of applications, hardware and processes within an IP multimedia sub system. Unlike conventional trainings this course does not just cover standards, but covers also networks which can be used by mobile network operating companies already today.

## Target Group / Requirements

This course addresses employees of mobile network operators who want to obtain an overview of the possibilities of IMS and the processes within an IMS network. Basic knowledge of mobile networks and data networks are a prerequisite for this course.

## Course Content

### Development of mobile data networks

- IP over GSM, GPRS and UMTS
- UMTS releases and IMS

### Mobile applications for IMS

- Typical applications in mobile telephone systems
- Interworking with other networks and services

### Hardware architecture

- Signaling server CSCF
- User database HSS
- Transition to circuit switched with media gateway and controllers
- IP based architecture and applications

### Signaling in IMS

- Introduction to SIP and DIAMETER
- Registration procedure for IMS
- Call set up of various applications
- User database queries with HSS
- Call setup to circuit switched networks

### Current hardware solutions

- Applications
- IMS hardware

#### Course Duration:

3 days

#### Course Number:

NW1270

#### Requirements:

Basic knowledge of mobile networks and data networks

## Certification

Certificates are given to all participants at the end of the course about the successful completion.

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## Course Registration:

Please contact us via

- phone: +49 89 1894354-405
- email: [training@tfk.de](mailto:training@tfk.de) or
- via our website [www.tfk.de/training](http://www.tfk.de/training)

You will receive a confirmation of your registration. We can also advise you concerning the best combination of course contents.

For clients with special requirements the optimal training concept can be customized. Modules from our training portfolio can be combined to meet your company-specific needs.