

Voice over LTE

IMS, WLAN Calling and Network Coupling

IP-based telephony in LTE-based networks is referred to as Voice over LTE (VoLTE). Unlike in previous mobile networks, the service is provided here via an IP Multimedia Subsystem (IMS).

In order to be able to make calls via an LTE network, the processes via the IMS must be linked to those in the access network. It must be ensured that calls that have already been set up are retained, even if the mobile network coverage changes. Extensions such as the WLAN call are intended to close any remaining gaps in coverage. Finally, VoLTE calls should also be possible across providers both as interconnection calls and via VoLTE roaming.

Course Contents

- LTE network requirements
- IP Multimedia Subsystem (IMS) in mobile communications
- Policy and Charging Rules Function (PCRF)
- Handover procedures
- Attach with registration
- Detach and de-registration
- Terminating Access Domain Selection (T-ADS)
- Call Flows
- Single Radio Voice Call Continuation (RVCC)
- Rich Communication Suite (RCS)
- PC and CS Interconnection
- VoLTE Roaming
- WLAN Call
- Emergency Call
- 5G and telephony

Target Group

The course is aimed at people from LTE network planning, technology, consulting and product management who deal with Voice over LTE (VoLTE), the introduction of VoLTE, the operation and coupling of LTE networks.

Prerequisites

Basic knowledge of mobile radio networks, corresponding to the courses Mobile Communications Today – From GSM over LTE to 5G or LTE, LTE-Advanced & 5G – All about State-of-the-Art Mobile Communications is required.

Knowledge of IP protocols and Voice over IP is desirable.

Course Target

You will gain an understanding of the requirements that a 4th generation mobile network must meet in order to be used for telephony purposes and what the necessary processes in the EPC and the mediating IMS look like. In addition, you will also understand more advanced functions such as WLAN and roaming calls as well as handover processes for maintaining telephone calls.

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/LTIM

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

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Status 03/26/2026

Training	Prices, excl. of V.A.T.	
Classes in Germany	3 Days	€ 2,395
Online Training	3 Days	€ 2,395
Date/course venue	Course language German	
02/11-04/11/26 Frankfurt	02/11-04/11/26 Online	



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