

eMBMS Overview (LTE_117) HOLV2AAE

HPE course number	HOLV2AAE
Course length	1 hour
Delivery mode	WBT
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Mobile operators around the world are deploying Long Term Evolution (LTE) in order to support the ever increasing demand for speed and data throughput. Video is becoming a significant component of the information carried by mobile networks. Techniques related to content distribution are critical for the operators to maximize the spectral efficiencies and provide acceptable coverage and capacity for subscribers. eMBMS (evolved Multimedia Broadcast Multicast Services) is a technology designed for LTE networks that supports efficient distribution of broadcast and multicast contents. This course provides an overview of eMBMS technology. Starting with a quick introduction to eMBMS, the course then describes example usage scenarios followed by an architecture discussion. The course covers the end-to-end operations in eMBMS and concludes with a look at how eMBMS is supported over the air on LTE networks.

Audience

This course is an overview of eMBMS and is targeted for a broad audience. This audience includes those in product management, planning, integration, operations, and end-to-end service deployment groups.

- Sketch the architecture of the eMBMS network
- Mention functions of network interfaces in an eMBMS network
- Identify signaling and traffic paths within the eMBMS network
- Explain the concept of MBSFN
- Specify example MBMS development features in various releases of 3GPP
- Describe possible eMBMS deployment scenarios

Prerequisites

- HOLU8AAE: LTE Overview (LTE_102)

Course objectives

After completing this course, the student will be able to:

- Describe what eMBMS technology is

*Realize Technology Value with Training, IDC Infographic 2037, Sponsored by HPE, January 2016

Detailed course outline

Module 1: Introduction	<ul style="list-style-type: none">• What is eMBMS?• eMBMS transmission modes• eMBMS usage
Module 2: eMBMS architecture	<ul style="list-style-type: none">• 3-layer functional model• Functional architecture and nodes• Network interfaces• Traffic and signaling paths
Module 3: eMBMS operation	<ul style="list-style-type: none">• Broadcast and multicast operations• Session control procedures• Traffic transmission and reception scenarios
Module 4: eMBMS air interface	<ul style="list-style-type: none">• MBSFN and service areas• Resource allocation options• Standards and development
Module 5: Deployment scenarios	<ul style="list-style-type: none">• Event driven deployment scenario• Content dependent deployment scenario
Module 6: Summary	

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