

MCAST

Implementing Cisco Multicast v2.0

In this course, participants acquire detailed knowledge of the building blocks of IP multicast that are required for practical use of this service. While the distribution of data to many recipients simultaneously using unicast routing methods wastes network capacity, the use of multicasts enables optimal resource utilization. In order to enjoy this added value, both multicast routing protocols and registration protocols are required. Participants will learn about the possible scenarios and configurations with multicasts in a mixture of theory and practice on the test network and will be able to use multicasts independently after the course.

Course Contents

- Multicast Service Model Distribution Trees and Forwarding
- MAC Layer Addressing
- Internet Group Management Protocol (IGMP) and Cisco Group Management Protocol (Cisco GMP)
- PIM Sparse Mode, Bidirectional PIM
- Source Specific Multicast
- Rendezvous Points (RPs) and Auto-RP
- Anycast RP
- Multicast Border Gateway Protocol (MBGP)
- Multicast Source Discovery Protocol (MSDP)
- Multicast VPNs
- Security
- Video Applications

E-Book You will receive the original course documentation from Cisco in English language as a Cisco E-Book.

Target Group

The course is aimed at anyone who needs to prepare and implement the use of multicasts.

Course Target

Upon completion of this course, you should be able to :

- Explain the benefits of multicasting
- List various types of multicast applications and their requirements
- Identify the addressing issues of IP multicasting
- Explain the way multicast applications work and identify the prerequisites that have to be fulfilled for an implementation
- Explain the principles and detailed operation of different Protocol Independent Multicast (PIM) modes
- Describe the variants of PIM sparse mode (bidirectional PIM environments and Source Specific Multicast)
- Select multicast protocols for different environments
- Describe the deployment of multicast in Border Gateway Protocol (BGP) environments
- Describe multicast deployment in Multiprotocol Label Switching (MPLS) VPN environments.

This Course in the Web



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

www.expertech-training.com/go/MCAS

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Date/course venue	Course language German		
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