

IUWVN

Implementing Cisco Unified Wireless Voice Networks



In this course, students learn to integrate VoWLAN services into the WLAN with a focus on Quality of service. In hands-on labs, QoS will be configured on a controller, and end-to-end QoS on a router. Participants will capture and analyze QoS parameters as well as manage the WLAN from the WCS and verify the network infrastructure. Wireless security, the creation of a video WLAN and multicasting are also topics of this course. This course prepares for the exam 642-741, which is part of the CCNP Wireless Certification.

Course Contents

- General considerations for wired and wireless QoS
- Configure the WLC and WCS for QoS
- Configure the wired infrastructure for QoS
- Voice over Wireless LAN Architecture
- Evolution of voice architecture
- VoWLAN call flow
- WLAN design for voice
- Verification of voice readiness
- Hardware and software requirements for VoIP
- WLAN configuration for voice
- Infrastructure and WLAN phone configuration
- Troubleshoot VoWLANs
- Implications of multicast for wireless networks
- Configuration and troubleshooting of multicast in wireless networks
- Prepare the Wireless Network for Video and High Bandwidth Applications
- Implement QoS for latency-sensitive applications
- Calculate bandwidth requirements and configure the wireless network for video applications

Knowledge Prerequisites

Students need a working knowledge of Cisco IOS and WLAN. Those wishing to achieve the CCNP Wireless certification need a valid CCNA Wireless certification.



Reservation and Registration

We will be glad to make a free and non-binding course reservation for you for the duration of two weeks. On www.experteach-benelux.com under *Registration*, you can conveniently make course reservations, registrations, and hotel reservations. Alternatively, call us under +31 (0)76 52 32 950.

For closed groups of participants, we can modify the course contents according to your requirements. Do not hesitate to contact us!



IUWVN

5 days €2,695 exclusive of V.A.T.

Course date (dd.mm.yy)/Location

27.02.-01.03.12 Breda

Up-to-date information: www.experteach-benelux.com IUWV



EXPERTeach



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- 1. Implementation of QoS for Wireless Applications**
 - 1.1. Identifying General Considerations for Wired and Wireless QoS
 - 1.2. Describing Wireless QoS Deployment Schemes
 - 1.3. Configuring the Controller and Cisco WCS for QoS
 - 1.4. Configuring the Controller and Cisco WCS for QoS
 - 1.5. Understanding Current Best Practice Guidelines
- 2. Voice over Wireless Architecture**
 - 2.1. Describing the evolution of Voice Architecture
 - 2.2. Describing VoWLAN Call Flow
 - 2.3. Designing Wireless for Voice
 - 2.4. Verifying Voice Readiness
- 3. Implementation of VoWLAN**
 - 3.1. Describing Hardware and Software Requirements for VoIP
 - 3.2. Configuring a WLAN for Voice
 - 3.3. Configuring Infrastructure Devices for End-to-End Voice over Wireless
 - 3.4. Configuring Wireless Client Devices
 - 3.5. Troubleshooting VoWLAN
- 4. Implementation of Multicast over Wireless**
 - 4.1. Understanding General Multicast Concepts
 - 4.2. Describing Implications for Multicast in 802.11
 - 4.3. Configuring Multicast in a Wireless Network
 - 4.4. Troubleshooting Multicast in a Wireless Network
- 5. Preparation of the Wireless Network for Video and High-Bandwidth Applications**
 - 5.1. Implementing QoS for Latency-Sensitive Applications
 - 5.2. Determining Bandwidth Requirements and Preparing the Controller for Video
 - 5.3. Describing the Benefits of 802.11n for Video



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