



Course Objectives

Have the ability to onboard devices and configure WLANS using the powerful cloud based solution that is ExtremeCloud IQ.

Gain basic wireless skills and be able to utilize the knowledge gained to deploy real world solutions.

Prepare students to take the Extreme Wireless Cloud ECS exam.



Delivery Method

Instructor led classroom, Virtual classroom, Self-paced video learning



Course Duration

2 Days

ECS ExtremeWireless™ Cloud

Course Overview

ExtremeWireless Cloud Training ECS course provides Extreme Networks customers and partners theoretical and practical hands-on training to give students a better understanding of Extreme Networks Cloud Wi-Fi technologies. Students will also learn how to manage and orchestrate ExtremeWireless Cloud from within the ExtremeCloud IQ management platform.

Prerequisite

Students should have a working knowledge of networking concepts and a basic understanding of WiFi technologies although prior experience of WLAN design and deployment is helpful.

Agenda

Solution Overview

- Global Data Centers
- Regional Data Centers
- ISO 27001
- GDPR and Privacy
- Private Cloud
- Local Cloud
- Wireless Hardware
- Distributed Architecture
- Understanding the evolution of distributed architecture
- Distributed Control
- Cooperative Control Protocols

ExtremeCloud IQ

- Taking a first look at ExtremeCloud IQ
- Logging in for the first time

WLAN Design Concepts

- Coverage Design
- Roaming
- Layer 2 Retransmissions
- Capacity Design
- Airtime Consumption
- Co-Channel Interference
- Antennas

Device Discovery and Provisioning

- Device Redirection Services and Auto-Discovery
- Auto-discovery for on-premises
- Management Protocols and Device Updates
- Adding Devices into ExtremeCloud IQ

Guided Configuration and Object Management

- Guided Configuration of Objects
- Clone Tool
- Monitoring Clients, Users and Client 360

Monitoring Clients

- Monitoring Devices

User Profiles

- Defining VLANs
- Firewalls
- Tunnelling
- Rate Limiting
- URL Filtering
- Availability Schedule
- Assignment Rules

Troubleshooting 802.1x

- IEEE 802.1X with EAP
- 802.1X Troubleshooting

Network 360

- Monitor View
- Device Health
- Client Health
- WiFi Health
- Network Health
- Services Health
- Application Health
- Security Health

Private Pre-Shared Key (PPSK)

- Understanding PPSK
- 802.1X/EAP
- Mapping User Profiles to User Groups
- User Groups
- PPSK Credential storage
- RadSec Proxies
- Secure Access with Cloud PPSK
- RadSec Troubleshooting

Radio Profiles

- Showing Radio Profiles through a Lab

Device Templates

- AP Device Templates
- Radio Settings
- Radio Usage
- Mesh
- Exclude Channels
- Transmit Power Control

Software Defined Radio (SDR)

- Dual Band APs
- Dual 5GHz WLAN design
- SDR Radio Profile

Cloud Config Groups and Classification Rules

- Cloud Config Groups What are they?
- Classification Rules
- Joining CCGs and Classification Rules

Classification Rules

- VLAN Objects
- Captive Web Portals
- Time Zone Objects
- Use Cases
- Server Objects
- AP Device Templates
- SSIDs

Deployment Optimization

- Management and Native VLANs
- Using Trunked Ports and VLANs
- AP and VLAN guidelines
- Configuring rollback timer

ExtremeCloud IQ Diagnostic Tools

- Device Diagnostic Tools
- Ping
- Points of Failure
- VLAN Probe
- Common CLI Commands

Dashboards

- Network
- Reports
- Diagnostics
- Inventory
- Insights Comparative Analysis
- Insights Proximity
- Insights Presence

ExtremeCloud IQ Administration

- Communications
- Account Management
- Administrator Accounts
- Internal Admin Accounts
- External Admin Accounts
- Role Based Access Control
- Global Settings Logs
- Global Settings Audit Logs

Firmware Updates

- How to do firmware updates using ExtremeCloud IQ

ExtremeWireless Cloud Exam

- What you need to know about the ExtremeWireless Cloud Exam



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Course Objectives



Designed for networking professionals responsible for supporting and troubleshooting wireless LAN networks. This course is an advanced level class building upon the student's real life working experiences with using ExtremeWireless Cloud and ExtremeCloud™ IQ.

The class is a fast paced, fault-based lab scenario which provides students with the information and skills necessary to troubleshoot common WLAN issues using ExtremeCloud IQ tools and other networking solutions.



Course Duration
2 Days



Delivery Method
Instructor led classroom,
Virtual classroom

ECS ExtremeWireless™ Cloud Troubleshooting

Course Overview

Designed for networking professionals responsible for supporting and troubleshooting wireless LAN networks. This course is an advanced level class building upon the student's real working experiences with ExtremeWireless Cloud and ExtremeCloud IQ. Please read the pre-requisites before enrolling on the class as prior experience with ExtremeCloud IQ and ExtremeWireless Cloud is expected. The class is a fast paced, fault-based scenario lab which immerses the student in real life situations requiring fault diagnosis and remedial actions. It provides students with the information and skills necessary to troubleshoot common WLAN issues using ExtremeCloud IQ tools and networking solutions.

Prerequisite

To gain the maximum learning experience from this class, it is extremely important that attendees adhere to the following requirements prior to attending this course:

- Have attend the ExtremeWireless Cloud training and hold the relevant ECS ExtremeWireless Cloud certification, or, to have been grandfathered from the Aerohive ACMA qualification onto ExtremeWireless Cloud ECS.

- Possess significant working experience with Extreme/Aerohive products as well as wireless networking. Attendees need to be able to navigate and configure the current version of XIQ confidently with minimal or no instruction.
- Have access to the internet to connect to XIQ for the virtual instructor- led classes or bring their own laptop to classroom based instructor-led classes.

Agenda

- Troubleshooting Theory and Best practices
- Opening a support case
- Techdata File
- Co-Operative Control Protocols
- CAPWAP and Provisioning
- RF Troubleshooting
- Network Performance Troubleshooting
- ExtremeWireless Cloud troubleshooting tools
- Authentication and Roaming
- Private Pre-shared Key