



### 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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