

# E5-120/121 and E3-12c Hands-On Fundamentals *(1 day)*

Learn the essential skills and procedures you need to deploy services using the Calix E5-120/121 and E3-12c Ethernet xDSL access multiplexer. In this class you will learn how to provision voice, video, and data services for DSL subscribers including VDSL2 with ADSL2+ fallback.

## Who should attend

- Technicians who manage, maintain, troubleshoot, and configure the E5-120/121 and E3-12c
- Technicians who configure DSL subscriber services
- Engineers and planners who want an overview of E5-120/121 and E3-12c services

## Prerequisites

- Completion of E5-120/121 Overview and E3 Overview online courses
- Knowledge of telecommunications and engineering standards
- Understanding of Ethernet networks including Layer 2 switching and VLANs
- Understanding of DSL technologies

## Learning aids

During the class you will follow along with the lectures and demonstrations using a printed reference guide. After class you can use the reference guide to review class content and view procedures.

## Topics

### System Configuration

- Logging in
- Command line interface
- Graphical user interface
- System turn-up
- Switch modes

**Register online at:**

[http://portal.calix.com/portal/courses/classroom\\_training.jsp](http://portal.calix.com/portal/courses/classroom_training.jsp)

### Configure Data-Only Service

- Create a data VLAN
- Create an xDSL port profile
- Apply an xDSL profile
- Apply VC parameters to xDSL ports
- Test data service

### Configure Video and Data Service

- Enable IGMP snooping
- Define IGMP profiles and assign them to specific xDSL ports
- Create xDSL profiles for data and video service offerings
- Modify switch setup parameters
- Create video and data VLANs
- Create IPQoS profiles and add VC parameters
- Create ACL profiles and apply them to xDSL ports
- Test video and data service

### Configure SIP and CTG Voice Services

- Set the VoIP Mode
- Set the VoIP IP address and VLAN
- Build the SIP profiles
- Build call service profiles
- Provision VoIP ports
- CTG VoIP port setup
- Verify VoIP service

### Maintenance and Administration

- Configuration save
- Configuration backup and restore
- Security features
- CMS features and scheduled backups

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