
CTR8780 ADVANCED IP/LAYER 3 FEATURES

TRN-CTR8780-CML3- A/B/C/D

Course Specifics

Duration:	2 days
Class capacity:	10 students
Materials provided:	Student Handbook (e-Book)

Course Description

The Aviat Networks CONFIGURING CTR8780 IP/LAYER 3 features course is recommended for design, field, and operations personnel, who design, deploy, configure, and operate IP networking equipment involving advanced routing protocols in Layer 3. This two (2) day instructor-led course is focused on the configuration of IP/Layer 3 features on the CTR 8780 platform. Topics include configuration and use of OSPF, ISIS, and BGP.

The course content is enriched with hands-on labs (nearly 50% of the course duration) and case studies that offer students scenarios they will face in real deployments in their networks.

Courses are conducted by AVIAT expert trainers in a mentoring environment, backed by their deep technology expertise and experience in the implementation of microwave wireless and IP/Layer 3 networks. The course is conducted at Aviat Training locations or can be arranged at customer sites.

Target Audience

This course is intended for engineers requiring knowledge of how to configure IP routing and Layer 3 features on the CTR 8780 platform.

Prerequisites

- Participants **must have** completed
 - **Aviat CTR8780 Installation, Operation, and Maintenance** course that provides knowledge of the setup, troubleshooting, and operation of CTR platforms including the configuration of Carrier Ethernet (Layer 2), QoS, and Microwave features.
 - **Aviat Basic Networking and IP Routing course** or have completed equivalent study on other vendor platforms, sufficient enough to demonstrate knowledge of Basic Networking including VLANs, Switching, and IP Routing Protocols.
 - Each student must bring a laptop PC and have administrator rights on the PC with the following parameters.
 - Pentium 4 or later w/ 1GB of RAM and 250 Mb of free hard drive space.
 - Microsoft Windows 7, 8, or 10 and Google Chrome as the web browser.
 - USB Port / LAN Port

Objectives

- Upon completing this course, participants will be able to:
 - Understand core routing concepts involving advanced protocols such as OSPF, ISIS, and BGP configuration on the CTR 8780 platform

Course Outline

Routing protocols

- Understand routing protocols
- Autonomous System (AS)
- Intra AS
 - OSPF / IS-IS
- Inter-AS
 - BGP

CTR 8780 IP Setup

- System Overview
- CLI and Web Browser GUI
- Management Port Configuration
- IP Interface Configuration
- Static Routes
- Basic Setup Lab

OSPF configuration (Optional according to customer need)

- Understand the OSPF routing protocol:
- Single-area OSPF
- Multi-area OSPF

- Multi-area OSPF with stub network
- OSPF configuration Labs

Intermediate System to Intermediate System (IS-IS) (Optional according to customer need)

- IS-IS routing protocol
- IS-IS concept – levels, transport, areas
- NSAP addressing
- IS-IS packet exchange
- LSP contents
- IS-IS metrics
- IS-IS configuration

BGP concept and configuration

- Understand BGP routing protocols
- Internal and External BGP
- BGP peers
- BGP attributes
- BGP route selection
- BGP states
- BGP configuration Labs

Required Equipment for Training Sessions at Customer Sites

RADIO

Not Applicable

OTHER EQUIPMENT

Each student must bring a laptop PC and have administrator rights on the PC.

CLASSROOM SET UP

Sufficient size to handle all participants, desks, chairs, and classroom equipment. The room must have 110 AC (220) AC power and air conditioning to operate all necessary equipment, including students' laptops.

Classroom Equipment

Multimedia projector and screen / Whiteboard and markers

Desk and Chairs

Desks or workstations with enough room for each student's laptop and training materials

Internet Access

Strong Wi-Fi connection

Pricing & Scheduling

Please contact your Aviat local sales team for a quote or email aviatcareeducate@aviatnet.com and request pricing for the following items:

TRN-CTR8780-CML3-A	CTR 8780: Configuration and Maintenance, Layer 3- ILT, 2 Days, Aviat Training Center- Open Enrollment -per Student
TRN-CTR8780-CML3-B	CTR 8780: Configuration and Maintenance, Layer 3- ILT, 2 Days, Aviat Training Center- 10 Students Max
TRN-CTR8780-CML3-C	CTR 8780: Configuration and Maintenance, Layer 3- ILT, 2 Days, Customer Location- 10 Students Max
TRN-CTR8780-CML3-D	CTR 8780: Configuration and Maintenance, Layer 3- ILT, 2 Days, Customer Location-with Equipment- only for US- 10 Students Max