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## ProVision installation, configuration & Management

### TRN-PV-ICM

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#### Course Specifics

Duration:	2 days
Class capacity:	10 students
Materials provided:	Instruction Manual (USB) Student Handbook (USB) Datasheets

#### Course Description

Aviat ProVision™ is a powerful, standards-based Element Management System (EMS). Designed to simplify Carrier Ethernet and TDM network designs and services, it provides superior intelligence for mobile and private network operators. ProVision delivers network management across the full Aviat product portfolio, key partner products and many third-party SNMP-based platforms. It provides efficient, seamless end-to-end network management solutions for TDM, Carrier Ethernet, and hybrid microwave networks.

The ProVision™ Installation, Configuration and Management course provides full guidance on the installation, use and administration of ProVision EMS software. The course will cover in detail all aspects of using the EMS for fault management, configuration management, performance monitoring and reporting. By leveraging the extensive hands-on labs exercises (50% of the course duration) provided, students will be able to master the ProVision EMS features and significantly reduce complex configuration time for deployment.

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

#### Target Audience

This course is intended for Network Operations Center (NOC) operators and engineers involved in managing microwave networks using the ProVision EMS.

#### Prerequisites

- Participants must complete ProVision System Overview e-learning course
- Participants should have knowledge and experience in the areas of network operations fundamentals and telecommunications fundamentals.
- The student will need a Notebook computer with an Ethernet port and running on one of the following Operating Systems:
  - Windows XP Pro
  - Windows Vista
  - Windows 7
  - Windows 2003 Server
  - Windows 2008 Server

#### Objectives

Upon successfully completing this course, participants will be able to perform:

- Installation and configuration of ProVision software

## EDUCATION SERVICES



- Basic diagnostics, troubleshooting and preventive maintenance of microwave network elements using ProVision EMS
- Setup users and administer features for fault management, configuration management and reporting

## Course Outline

### ProVision Introduction

- Functions & features
- Minimum hardware specifications
- Understand ProVision Architecture
- Deployment Options

### Navigating ProVision

- Main User Interface
- Menu Bar
- Tree Viewer – Physical and Logical Viewer
- Map Viewer, adding a map background to map viewer
- View and change radio configuration
- View and change network IP addresses

### Fault Management

- Managing Events – event properties, acknowledge, clear
- Event Browser – filters, browser options, scoreboards
- Viewing Security logs – log on/off, configuration changes
- Configure Event Notifications
- Configure and Interpret Scoreboards

### Performance Monitoring

- Configure device data collection
- Interpret performance history & trends
- Set up Performance thresholds
- Interpret Ethernet Bandwidth Utilization
- Produce Inventory & fault reports

### Eclipse Features

- Create, trace, view and diagnose circuits
- Perform bulk software loads
- Produce capacity, inventory & fault reports

### ProVision Installation and User Administration

- Requirements for ProVision Installation
- ProVision Server and Client Installation
- Verifying ProVision Server is running
- Logging in to Client Software
- Navigating ProVision
- Basic User Account creation and access level

### Deploying and Managing Radios and Generic Devices

- Information required for deployment
- Deploying containers – regions, sites and racks
- Deploy, Manage, Rename, Delete and Unmanage Radios and Generic Devices such as switches, routers, third party microwave radios, multiplexers etc
- Deploying EMS/Proxy in ProVision
- Re-parenting an object
- Create, verify and delete a link

- Reposition Map viewer objects – lock/unlock object moving
- Verify ProVision is receiving events

### Configuration Management

- View and Change Network IP addresses
- Uploading Eclipse licenses
- Perform Bulk configuration for devices on the Network
- Network Auto-Discovery of Radios and Devices
- Circuit Provisioning and Collection
- Configure Logical Containers
- Creating Map Annotation

### Reports

- Generate Helpdesk reports
- Generate Capacity, Inventory and Fault Reports
- Generate Network Health Reports – RF and Ethernet Network Health Reports
- Generate Security Status Report of Radios and Devices
- Configure Schedule Reports
- Customize reports from report fields and objects

### ProVision Installation and Administration

- Understand ProVision server/Client relationship
- Creating Regional access for users
- Session Manager Administration
- Email Server Configuration
- Understand communication with Network elements
- Administer database manual and scheduled backup and security profiles
- Northbound Interface (NBI) description and configuration
- Configure ProVision Redundancy Controller
- Discuss remote access options
- Understand licensing requirements and procedures.

### Pro Vision VLAN Management

- Viewing Discovered VLANs for Eclipse and CTR 8540 and 8300
- Creating VLANs for Eclipse
- Creating VLANs for CTR 8540 and 8300
- Modifying a VLAN
- Validating VLAN Configuration
- Deleting a VLAN

### Ethernet OAM Management

- Viewing Discovered EOAM Maintenance Associations
- Viewing EOAM Configuration Details
- Configuring EOAM
- Configuring EOAM to provide Fault Monitoring of VLANs for Eclipse
- Validating EOAM Configuration

## ERP Ring Management

- Viewing Discovered Layer 1 and ERP Rings
- Viewing Ring Configuration Details
- Configuring ERP Rings
- Modifying an ERP Ring
- Deleting an ERP Ring
- Validating ERP Ring Configuration

## Required Equipment for Training Sessions at Customer Sites

RADIO	<p>One equipment rack with 48VDC power supply (if using 48VDC PoE units).                  At least 1 Traffic free hop – 2 radios talking to each other. (Path has been simulated with at least 60dB of attenuation, for troubleshooting training variable attenuators are preferred however not mandatory).                  One hub or switch                  One computer per 2 students                  One computer (when TNET Proxy Server and/or TNET equipment is required)                  240v power points                  Radio links can be hired for duration of training course if required.</p>
OTHER EQUIPMENT	<p>Computer requirements:                  2 GHz processor (w/512K cache)                  1GB memory or greater                  GB Hard disk space                  CD-ROM                  Video Card Capable of 1024x768 “True Color” or higher                  Windows 2000/ XP/ Vista                  LAN card                  USB port                  CAT 5 cables</p>
CLASSROOM SET UP	<p>Sufficient in size to handle all participants, instructor, desks, chairs, classroom equipment. The room must have enough 110 AC (220) AC power and air conditioning to operate equipment, all students clients PC’s and the server or radio as required.</p> <p><b>Classroom Equipment</b></p> <p style="padding-left: 40px;">Marker board, SVGA or Overhead projector and screen.</p> <p><b>Desk and Chairs</b></p> <p style="padding-left: 40px;">Desks or workstations with enough room for each student to write have open books, client PC and / or, keyboard and monitor.</p> <p><b>Internet Access</b></p> <p style="padding-left: 40px;">Internet access through the server or through client PC.</p>

## Pricing & Scheduling

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

TRN-PV-OVERVIEW-E	Provision Overview eLearning -price per Student
TRN-PV-ICM-A	ProVision: Installation, Configuration and Management - ILT, 2 DAYS, Aviat Training Center - Open Enrollment -per Student
TRN-PV-ICM-B	ProVision: Installation, Configuration and Management - ILT, 2 DAYS, Aviat Training Center- 10 Students Max
TRN-PV-ICM-C	ProVision: Installation, Configuration and Management - ILT, 2 DAYS, Customer Location- 10 Students Max
TRN-PV-ICM-D	ProVision: Installation, Configuration and Management - ILT, 2 DAYS, Customer Location- with Equipment- only for US- 10 Students Max