

# Juniper Mist AI Networks (MIST)

# ID MIST Price US \$ 4,000.—(excl. VAT) Duration 4 days

### Who should attend

This course benefits individuals responsible for working with enterprise wireless networks and applying artificial intelligence to their activities.

### This course is part of the following Certifications

Juniper Networks Certified Internet Specialist Mist AI (JNCIS-MISTAI)

### **Prerequisites**

The following are the prerequisites for this course:

- Basic TCP/IP skills
- Basic knowledge of wireless (Wi-Fi) technologies is recommended.

### **Course Objectives**

After successfully completing this course, you should be able to:

- Describe WLAN association and roaming.
- Explain the wireless LAN life cycle.
- Explain and configure Mist architecture.
- Describe a wireless enterprise network.
- Explain the purpose of Mist and key differentiators.
- Describe wireless fundamentals.
- Describe the basic features Mist.
- Describe how to add new organizations and sites.
- Navigate the Mist portal.
- Describe the Mist AP deployment model.
- Provide an overview of the Mist onboarding workflow.
- Implement RF and configuration templates.
- Configure wireless access policies.
- Describe the EX Series switch deployment model.
- Describe the workflow for onboarding an EX Series switch to a Wired Assurance deployment.
- Describe labels and their use with Mist.
- Use Mist intelligent analytics and Marvis.
- Describe Real Time Location Sensor (RTLS) concepts and methods.
- Describe Mist automation and scripting.

- Instantiate a standalone NGFW site using CSO and SRX Series devices.
- Describe Service Level Experience and its place in wireless networks.
- Describe the client location service and use cases.
- Describe the components of an enterprise WLAN.
- Configure an enterprise grade WLAN.
- Describe a sitemap, site survey, and their critical components.
- Describe the subscriptions available for Mist.
- Describe the monitoring features.
- Generate reports.

## **Course Content**

### Day 1

### **Chapter 1: Course Introduction**

#### **Chapter 2: Introduction to Wi-Fi Basics**

- What Is Wi-Fi?
- 802.11 PHYs
- Frequency Bands
- RF Basics
- Modulation and Coding
- Network Arbitration and Contention
- WLAN Architectures
- WLAN Association and Roaming
- Network Contention
- Wireless LAN Life Cycle
- LAB 1: WLAN Testing

### Day 2

### **Chapter 3: Mist Architecture and Initial Setup**

- Mist Architecture
- Mist Account Organizations and Subscriptions
- Configuration Objects
- Organization Objects Versus Site Objects
- Access Points Overview, Configuration, and Troubleshooting
- LAB 2: Initial Setup
- LAB 3: Remote Site

# **Chapter 4: WLANs**

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- WLAN Concepts
- Security Concepts
- Mist WLANs
- Policy (WxLAN)
- Wireless Intrusion Detection and Prevention
- LAB 4: WLANs

# Day 3

## **Chapter 5: Network Operations**

- Wireless Assurance
- Events and Insights
- Radio Resources Management (RRM)
- Wired Assurance
- LAB 5: SLE Troubleshooting

### Module 6: Wired Assurance

- Solution and Supported Devices
- Provisioning and Deployment
- Operation
- Design and Architecture
- LAB 6: Wired Assurance

# Module 7: Al and Marvis

- Artificial Intelligence (AI) Reactive and Proactive Troubleshooting
- Reactive and Proactive Troubleshooting
- Marvis Language and Actions
- LAB 7: Marvis

# Day 4

# **Chapter 7: Location-Based Services**

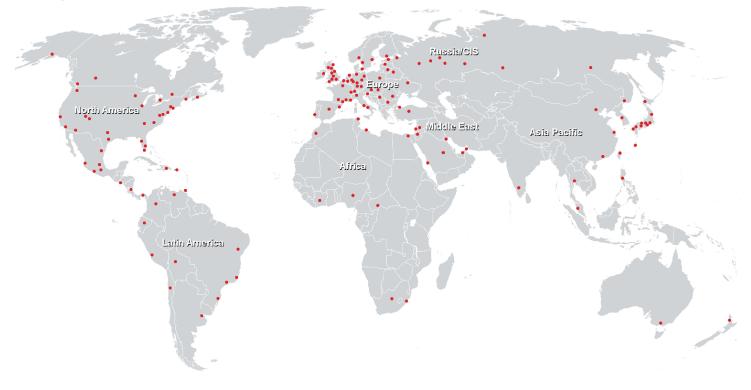
- Concepts and Methods
- Wi-Fi Location
- Virtual BLE
- User Engagement
- Asset Visibility

# **Chapter 8: Automation and Scripting**

- Mist API Overview
- Automation and Scripting Overview
- LAB 8: RESTful API
- LAB 9: WebSocket API

# Juniper Mist AI Networks (MIST)

# Training Centres worldwide





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