# Paragon Active Assurance for Automated WAN (PAAW)

## COURSE OVERVIEW

This two-day course provides the opportunity for students to develop the knowledge and skills required to configure, operate, monitor, and maintain Paragon Active Assurance deployments. The goal of the Paragon Active Assurance course is to give students hands-on experience with the tools they require to effectively use and manage Paragon Active Assurance Control Center and the Test Agents.

## COURSE LEVEL

Intermediate

## AUDIENCE

Networking architects and operators, system engineers, DevOps, and IT professionals, anyone individual responsible for identifying, understanding, troubleshooting, and resolving issues in service provider networks.

## PREREQUISITES

- Basic TCP/IP skills
- Attendance of the *Introduction to Paragon Active Assurance* (IPAA) course prior to attending this class
- Basic knowledge of network routing is recommended

## RELEVANT JUNIPER PRODUCT

- Paragon Active Assurance

## CONTACT INFORMATION

- **Americas:** training-amer@juniper.net
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- **APAC:** training-apac@juniper.net

## OBJECTIVES

- Deploy and administer Paragon Active Assurance.
- Monitor and test network performance using Paragon Active Assurance.
- Integrate Paragon Active Assurance into OSS.
- Test site activation using Paragon Active Assurance.

## COURSE CONTENTS

### DAY 1

| 1 | **Course Introduction** |
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| 2 | **PAA Solution Components** |
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|   | - PAA Overview |
|   | - Passive and Active Monitoring |
|   | - Use Cases |
|   | - |

| 3 | **Test Agent Architecture** |
|---|---|
|   | - Test Agents Overview |
|   | - Appliance |
|   | - Application |
|   | **Lab 1:  Test Agent Registration** |

| 4 | **Tests** |
|---|---|
|   | - Overview |
|   | - Types of Tests |
|   | - Test Status |
|   | **Lab 2:  Site Activation Testing** |

Course content subject to change. See www.juniper.net/courses for the latest details.

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## COURSE CONTENT (contd.)

### DAY 2

| 5 | **Monitors** |
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- Overview
- Types of Monitors
- Monitor Status

**Lab 3:  Continuous Network Performance Monitoring**

| 6 | **Testing and Monitoring Templates** |
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- Overview
- Types of Templates

**Lab 4:  Working with Templates**

| 7 | **Getting Ready with REST APIs** |
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- Overview
- Main Concepts
- SWAGGER tool
- Use Cases

**Lab 5:  Automation via REST APIs**
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| 8 | **Management and Integration with OSS** |
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- Inventory
- Alarms
- SNMP
- Applications
- OSS Integration

| A | **Appendix: NETCONF and YANG APIs** |
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- NETCONF
- YANG

| B | **Appendix: Lifecycle Management** |
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- Overview
- Fundamentals for the PAA Installation
- Service Configuration
- Monitoring System Health
- System Troubleshooting

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