PARAGON ACTIVE ASSURANCE DEPLOYMENT SERVICES

Services Overview

Setting up a resilient, manageable, and expandable network is a significant challenge. Predicting how it will behave when millions of users start using it is almost impossible.

Paragon Active Assurance is an intuitive and versatile software solution that automates active testing and monitoring for the most demanding network environments. The Juniper Professional Services team can deploy the software for you, tailoring the solution to meet your specific needs and helping you maintain the network in a continuously, high-quality state.

Services Description

Juniper Networks has four (4) deployment services for Juniper® Paragon™ Active Assurance:

- Basic Deployment Service
- Plus Deployment Service
- Premium Deployment Service
- Custom Deployment Service

All these deployment services are completed in five (5) phases.

- Discovery Workshop
- Low-Level Design
- Configuration Creation
- Acceptance Testing Protocol Execution
- Knowledge Transfer Workshop

In phase 1, the Juniper Professional Services team conducts a Discovery Workshop to identify the desired use cases and assess the current state of the network. This assessment also helps determine the available tools and platforms at the target production environment. At the end of phase 1, the services team presents a High-Level Design Document that describes the use case, solution components, firewall settings, system requirements, number of streams and scalability, and other design elements.

During phase 2, the services team presents a Low-Level Design document describing the production-ready configuration details, such as thresholds, inventory management, API calls, and third-party integrations. This document also presents a template for monitor and test, available plug-ins, and suggestions for optimal configuration of the Network Functions Virtualization Infrastructure (NFVI) environment for the test agents.

In the third phase, Configuration Creation, the team creates the required configuration for the use case agreed on in the High-Level Design Document and executes the fourth phase, Acceptance Testing Protocol Execution, to ensure that the desired solution is in place and works as expected.

The services team finalizes the project by running a consulting style Knowledge Transfer Workshop with Juniper Professional Services and the customer cross-functional teams. In this workshop, the participants learn about the solution and the reported metrics.

By the end of the workshop, the customer team has the required knowledge to solve any network degradation issues that may arise, before they can turn into a real problem. The different components of the service are listed below:

Table 1. Paragon Active Assurance Deployment Services Components

Components	Description	Features and Benefits
Discovery Workshop	Technical workshop to discuss customer requirements for the project. Juniper Professional Services team documents customer requirements into a High-Level Design document for review and approval.	Clearly identified business and technical requirements are delivered to customer by Juniper consultant.
Low-Level Design	Low-Level Design document expands what was presented in the High-Level Design document by providing information on actual templates and the inventory.	A point of reference document is created for both parties that can be used for internal knowledge transfer if needed.
Configuration Creation	The Juniper Professional Services team assesses the hosting environment and recommends installation best practices for the Test Agent based on the workshop outcome. This assessment is conducted with the customer infrastructure team. Later a Juniper consultant will create the base configuration for the selected use case and update the Control Center inventory as required.	The optimal configuration for the test agent is to prevent artificial packet loss and jitter seen in the test and monitor results. Use case template creation allows third-party systems to interact with the Control Center.
Acceptance Testing Protocol Execution	Juniper Professional Services team reviews test items with the customer and verifies the successful output.	Both parties can confirm that the desired capabilities are in place.
Knowledge Transfer	Juniper Professional Services team delivers detailed knowledge transfer on selected products and their usage in the network.	Detailed information about Juniper products and knowledge is shared to address any network degradation issues.

Paragon Active Assurance Basic Deployment Service is valuable for organizations interested in enabling network performance monitoring or testing for the first time. This service is most applicable for an environment where the engagement is limited to one (1) use case and up to five (5) test agents.

Plus Deployment Service extends the capabilities by increasing the number of use cases to 2 and test agents to 20. Deploying more than one test agent allows not only reflector-based test and monitoring use cases, but also network performance verification among the test agents by executing VoIP, TCP, UDP, and other tasks.

Premium Deployment Service is suitable for an environment where LDAP and SNMP integrations are required.

Custom Deployment Service offers a fully customized solution that provides more flexibility in choosing the deployment deliverables such as number of test agents, number of use cases, third-party system integrations, custom software components, and documentation. Unlike other offerings, this custom package does not limit the number of test agents or use cases, and allows customers to request new software components such as plug-ins.

Table 2. Feature Sets for Different Deployment Offerings

	Basic	Plus	Premium	Custom
Test and Monitor Template Creation	✓ (up to 1)	✓ (up to 2)	✓ (up to 3)	✓
Test Agent Deployment	✓ (up to 5)	✓ (up to 20)	✓ (up to 50)	✓
SNMP Integration	–	–	✓	✓
LDAP Integration	–	–	✓	✓
NETCONF/YANG API Workshop	–	–	–	✓
REST API Workshop	–	–	–	✓
Database Access Integration Workshop	–	–	–	✓
Custom Plug-In Development and Installation	–	–	–	✓
L2 and L3 Network Use Cases	*	*	*	*
Rich Media Use Cases	*	*	*	*
Service Activation Testing Use Cases	*	*	*	*
Wi-Fi Use Cases	*	*	*	*
Speed Test Use Case	*	*	*	*

*Subject to licensing

Juniper Networks Services and Support

Juniper ensures operational excellence by optimizing the network to maintain required levels of performance, reliability, and availability. For more details, please visit www.juniper.net/us/en/products-services/.

Ordering Information

To order Paragon Active Assurance Deployment Services, or for additional information, please contact your Juniper Account Manager.

Exclusion

The scope of these services is for deploying Juniper Paragon Active Assurance features only and does not include separately sold assessment, design, or migration services. If you require additional services from your Juniper Professional Services consultant, please contact your Juniper Account Manager.

About Juniper Networks

Juniper Networks brings simplicity to networking with products, solutions, and services that connect the world. Through engineering innovation, we remove the constraints and complexities of networking in the cloud era to solve the toughest challenges our customers and partners face daily. At Juniper Networks, we believe that the network is a resource for sharing knowledge and human advancement that changes the world. We are committed to imagining groundbreaking ways to deliver automated, scalable, and secure networks to move at the speed of business.

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