SD-WAN DEPLOYMENT SERVICES DATASHEET

Service Description
Session Smart™ SD-WAN is an advanced, service-centric solution that takes software-defined routing to a new level. Ideal for today’s digital businesses, it delivers a flexible, application-aware network fabric that meets stringent enterprise performance, security, and availability requirements.

Juniper® SD-WAN Deployment Service is a set of capabilities designed specifically to support enterprises and service providers that are deploying Session Smart SD-WAN networks. The goal of these services is to help organizations realize the benefits of our service-centric SD-WAN architecture in the fastest time frame possible with a smooth and predictable deployment.

These services provide access to SD-WAN deployment experts with extensive knowledge of Juniper products and technologies. The services employ proven best-practice implementation methodologies and tools that provide a high degree of assurance, faster completion speed, and reduced deployment risks.

To ensure a smooth transition to Session Smart SD-WAN, Juniper offers three types of packages: Basic package, Advance package, and Custom package. The Basic and Advance packages are primarily for greenfield SD-WAN deployments, while the versatile Custom package addresses multiple needs.

Reference Implementation Design
Juniper streamlines deployment of the Session Smart SD-WAN solution by following best practices and reference implementation models. The reference implementation design consists of commonly used key features and can serve multiple environments. The reference implementation is based on a hub-and-spoke topology where the Session Smart Routers in the headquarters or data center serve as the central point for all traffic from the Session Smart Routers in branch sites. The design also assumes up to two varieties of spoke sites or branch sites, such as a retail branch site and a factory or a warehouse branch site. Figure 1 summarizes this topology and connectivity.

The reference design also includes installation of the Session Smart Conductor in a public cloud environment, a virtual machine, or on a bare-metal server in the customer premises. The Session Smart Conductor and the Session Smart Router can be installed with dual-node redundancy to provide high availability (HA) on critical sites. Additionally, the Session Smart Router in the data center location can be configured with dynamic routing protocol along with other layer 3 routers in the data center. A local Internet breakout configuration is supported for data center and branch sites.

The reference design implementation also provides application policy configurations for a given set of application traffic running across the WAN.
SD-WAN Deployment Service: Basic Package

The Basic package provides an easy initial deployment based on the reference implementation design. It includes a simple deployment with two components:

- Creation of an SD-WAN design document that provides details of the design, such as topology and connectivity, Secure Vector Routing design, services design for customer applications, and HA design
- Implementation of the Session Smart Conductor and the Session Smart Router in pilot sites for two data centers (non-redundant) and up to two branch sites

SD-WAN Deployment Service: Advance Package

The Advance package addresses additional common design requirements, which are extensions built on the same reference implementation design included in the Basic package. The Advance package includes deployment with four components:

- Creation of SD-WAN design document that provides design details such as topology and connectivity, Secure Vector Routing design, services design for applications, and HA design
- Verification of the unique design elements by conducting a Design Validation Testing exercise in customer’s lab setup
- Implementation of Session Smart Conductor and the Session Smart Router in pilot sites for two data centers (non-redundant) and up to two branch sites
- Knowledge Transfer Workshop

Common Additional Design Requirements

- Design for up to four data centers and four branch site types
- Unified communications design for VoIP
- Ethernet over Secure Vector Routing
- Nonstandard transports, such as satellite links
- Full or partial mesh connectivity for direct branch-to-branch communication
- Traffic engineering for mission-critical applications
- Pod design for high-scale networks
- Dual router HA design in the data center
- Single plug-in installation and configuration

Some common additional design requirements are listed above and the Advance package can address up to two of these additional design requirements.
**Service Features and Benefits**

<table>
<thead>
<tr>
<th>Deliverable</th>
<th>Description</th>
<th>Features and Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SD-WAN Design Document</td>
<td>Collaborative workshop to discuss requirements for the project. Juniper Professional Services team documents customer requirements and provides a detailed technical SD-WAN Design document for review and approval.</td>
<td>• Aligns elements and features of design details and project scope, and sets expectations.</td>
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