Cisco DNA Software for SD-WAN and Routing Matrices

Cisco DNA Software for SD-WAN Feature Matrix

<table>
<thead>
<tr>
<th>License type</th>
<th>Cisco DNA Essentials</th>
<th>Cisco DNA Advantage</th>
<th>Cisco DNA Premier</th>
</tr>
</thead>
<tbody>
<tr>
<td>Management options</td>
<td>CLW, Web 13</td>
<td>CLW, Web 13</td>
<td>CLW, Web 13</td>
</tr>
</tbody>
</table>

Cisco DNA for SD-WAN subscription features

- **Cisco DNA Essentials**
  - Includes Cisco DNA Essentials

- **Cisco DNA Advantage**
  - Includes Cisco DNA Essentials and Cisco DNA Advantage

- **Cisco DNA Premier**
  - Includes Cisco DNA Essentials and Cisco DNA Advantage

#### Cisco Catalyst SD-WANLayer 2 and Layer 3 routing (general)
- IP-VPN (IP over MPLS), MPLS over IP owners routing policy support for IPv4.
- Enhanced Catalyst SD-WAN feature incorporation.
- DNS (including local bypass), basic path optimization with FEC and packet duplication, AppQoE: TCP optimization,
- Micro and Micro Segmentation (ICE/SGT), Cisco Secure Malware Analytics support.
- SSH login with key, syslog over TLS, enterprise firewall with Talos® powered IPS and application controls, RADIUS,
- Cisco AMP, geo location-based filtering, interface zone support, high speed logging, URL filtering, TLS/SSL proxy.
- NetApp, SIP SRST, DIA Tracker: Interface tracker for DIA, ability to track static route on service VPN, per-class/DSCP
- communities during BGP to OMP redistribution (localized and centralized policy), secondary IP address support
- OMP redistribution, service VPN redistribution, mapping BGP communities to OMP tags, match and set
- services, virtual WAN services (adaptively), SD-WAN visibility.

- **Cisco DNA for SD-WAN subscription provides the right option for SD-WAN solution only, with no cloud overlay.** The Cisco DNA for SD-WAN subscription provides the right option for SD-WAN solution only, with no cloud overlay. The Cisco DNA for SD-WAN subscription provides the right option for SD-WAN solution only, with no cloud overlay.

- **Cisco DNA software licenses, customers receive extended EoS, which means, Cisco DNA Technical Assistance Center (TAC) support and software release enhancements.** This is only for the Cisco DNA software subscription: Cisco DNA Essentials, Cisco DNA Advantage, Cisco DNA Premier. The Cisco DNA software subscription: Cisco DNA Essentials, Cisco DNA Advantage, Cisco DNA Premier. The Cisco DNA software subscription: Cisco DNA Essentials, Cisco DNA Advantage, Cisco DNA Premier.
**Cisco DNA for Routing subscription features**

<table>
<thead>
<tr>
<th>Essential Cisco DNA Advantage – device management</th>
<th>Cisco DNA Essentials</th>
<th>Cisco DNA Advantage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inventory, discovery, topology, software image management, site management, network settings, credential-updates, imaging verification, template programmability, pre-deployed, PnP and Fast App deployment</td>
<td>![ ]</td>
<td>![ ]</td>
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</tbody>
</table>

**Cisco DNA for Routing feature matrix**

<table>
<thead>
<tr>
<th>Polyester software with base routing and security capabilities, included with Cisco DNA Advantage subscription license</th>
<th>Network Advantage</th>
<th>3- or 5-year term subscription</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advertising, Advantage, Premier, and Premier Plus for full software support, including the network stack (Network Advantage),</td>
<td>![ ]</td>
<td>![ ]</td>
</tr>
</tbody>
</table>

**Advanced Cisco DNA Advantage – device management**

- Network policy, software image management (SMU-patching), SD-Banner, custom reporting, Encrypted Traffic Analytics (ETA), reporting (Tableau)
- Advanced Cisco DNA Advantage – routing and VMM management
- Application visibility (name, throughput), 360 pages, health score, time travel, targeted insights, neighbor topology, path trace, KPIs, baselining, trends, custom reports (AppX, SD-Access, Wi-Fi)
- Cisco DNA Assurance – management and analytics
- Cisco DNA for Routing perpetual features
- Layer 3 and Layer 3 trunking
- VRF, VRF-IPv6, SD-WAN, GRE (routing protocols), On-Demand Routing (ODR), NSF awareness, Point-to-Point Protocols (PPP), Multi-Link PPP (MLPPP), EoMPLS, Segment Routing
- Essential router capabilities
- IPv6, Multi-Protocol-Label Switching (MPLS), Subnetwork-Based Forwarding (SBF), LSR, ALG, RSVP, Dual IS-IS, Cisco Discovery Protocol, Control Plane Networking (CPNP), NAT, DNS, Dynamic DNS, NTR, TR-181, TR-069, TR-069-CMIP TCP/DC, WiSM, IM, etc., dynamic IP address assignment, Traffic Engineering (TE), BGP, RSVP, IEEE 802.1ag (SSM, SSM-Mapping, Multicast Source Discovery Protocol (MSDP), IPv6, IPv4, RSVP, RSVP-TE Forwarding (LSPF), RSVP-TE Port Analyzer (SRPA), Encapsulated Remote IPv6 (SRVP), Connectivity Fault Management (CFM), L2VPN, carrier-grade NAT
- Advanced programmability and device management
- SMU (router, switch, NAM based), app 360, app performance in client/device 360s (jitter, loss, latency).
- Essential security capabilities
- Zone-based (safety), IPSec/SSH, Private Key Infrastructure (PKI), ACL, multi-system, Checkpoint-Brilliant (HDRAP) and Password Enforcement (RAMP), Certificate Authority (CA)
- NextGen switch

**Cisco DNA Software for Routing Feature Matrix**

| DNA Advantage, and Premier. For full hardware support, including the network stack (Network Advantage), customers will receive Smart Net Total Care for 24x7x365 Cisco TAC support, proactive security and product alerts, and product disposition management. An additional option for software support is Smartnet Support for your multivendor Cisco solution environment. | ![ ] | ![ ] |

**Advanced Cisco DNA Advantage – routing and VMM management**

- Mobile routing
- Advanced networking features
- Layer 2 and Layer 3 trunking
- GRE tunnel, IPv6 over v4 and IPv4 over v6 tunnels, per-tunnel QoS
- Advanced MPLS and VRF support
- Ethernet OAM (op, admin, maint), E-CFM (connectivity fault management), Ethernet Local Management Interface (ELMI), Ethernet Virtual Circuit (EVC), IS-IS, RPR, E-CES, E-MPLS, E-LDP, Ethernet Segment Routing
- MPLS Layer 2 and Layer 3 VPN, Layer 2 VPN Pseudowire (PW), Ethernet over MPLS (EoMPLS), Any Transport over MPLS (AToM), MPLS Traffic Engineering (M-LTE)
- Essential Broadband CPE Support
- MPLS transport (MPLS-TP, LDP, RSVP-TE, GMPLS), GMPLS, GMPLS, GMPLS, GMPLS, GMPLS, GMPLS, GMPLS, GMPLS, GMPLS
- IQX service feature support
- Application Visibility: Name, throughput
- Essential SmartVRF features (managed via Cisco Catalyst Center)
- Chain (IP, VLAN, L2, L3, L4)
- Optional1

**Smart Net Total Care® (STNC)**

- Advanced features for software support in SmartNet Support for your multivendor Cisco solution environment.
- No SSL, VPN support available on Catalyst 8000V Edge software.
- Requires purchase of additional licenses.

- 1 A SSL in wins deployment, these features require a separate and distinct Broadband Private License and SmartNet Cisco DNA subscription licenses.

- 2 With Cisco DNA software features, customers receive enhanced ISSWIC, which covers Cisco DNA Assurance (Cisco Technical Assistance Center (TAC) support and software release updates. This is valid only for the Cisco DNA software subscription stacks (Cisco DNA Essentials, Advantage, and Premier) for full software support, including the network stack (Network Advantage). Customers will receive Smart Net Total Care for 24x7x365 Cisco TAC support, proactive security and product alerts, and product disposition management. An additional option for software support is SmartNet Support for your multivendor Cisco solution environment.

- 3 Includes Cisco DNA Essentials, 3- or 5-year term subscription.