



# Cisco SD-Routing



**Q: What is Cisco® SD-Routing?**

A: Cisco SD-Routing (short for software-defined routing) is an enhanced solution that enables the following capabilities for routing devices:

- Secure and automated device onboarding workflow
- Device-level and network-wide monitoring
- Troubleshooting
- Automated device software image management workflow

SD-Routing will also introduce in future phases:

- Software-defined security policy workflows
- Software-defined cloud integration workflows

**Q: What is value proposition of SD-Routing?**

A: SD-Routing provides immense benefits for our customers by:

- Providing unified management for Catalyst SD-WAN and Catalyst Routing, thus reducing OpEX and also simplifying migration towards SD-WAN

- Simplifying and automating day to day operational tasks such as device software image upgrade
- Setting up future pathway to leverage innovative features such as cloud and security integration in routing deployment

**Q: Can SD-Routing coexist with SD-WAN?**

A: Yes, the same set of controllers can be used to manage both SD-WAN and SD-Routing environments.

**Q: Is SD-Routing another mode like Autonomous mode and Controller mode on Cisco IOS® XE routing devices?**

A: SD-Routing is an operating environment whereby a traditional router operating in Autonomous mode can be fully managed by Cisco Catalyst SD-WAN Manager. SD-Routing provides add-on capabilities on top of Autonomous mode.

**Q: Which routing platforms will be supported with SD-Routing?**

A: The Cisco Catalyst™ 8000 Edge Platforms Family, Cisco 4000 Series Integrated Services Routers (ISRs), Cisco 1000 Series ISRs, and Cisco ASR 1000 Series Aggregation Services Routers (ASR 1001-HX and ASR 1002-HX models only) are currently supported with SD-Routing.

**Q: Which controllers are required for SD-Routing?**

A: Cisco Catalyst SD-WAN Manager (formerly known as vManage) and Cisco Catalyst SD-WAN Validator (formerly known as vBond) are required for SD-Routing. Cisco Catalyst SD-WAN Controller (formerly known as vSmart) is not required for SD-Routing.

**Q: What are the software versions required for SD-Routing?**

A: SD-Routing requires IOS-XE 17.12 or higher and the controllers version 20.12 or higher.

**Q: I have a Catalyst SD-WAN fabric already deployed. What are the license requirements for adding SD-Routing device to my existing SD-WAN fabric?**

A: Cisco DNA is required for adding SD-Routing-capable devices into an existing SD-WAN environment with on-premises controllers.

**Q: I have a Catalyst 8200, 8300, or 8500 Series Edge Platform operating in autonomous mode with an active Cisco DNA subscription. Am I entitled to SD-Routing with on-premises controllers?**

A: Yes. An active Cisco DNA subscription provides entitlement for SD-Routing (for the remaining term) with on-premises controllers.

**Q: Is SD-Routing available with cloud-delivered controllers?**

A: SD-Routing is going to be made available with cloud-delivered controllers in near future.

**Q: Is SD-Routing supported with multi-tenant controllers?**

A: Yes, SD-Routing is supported with multi-tenant controllers.

**Q: Is SD-Routing capability available perpetually?**

A: SD-Routing will be available through term-based subscription, for example, Cisco DNA.

**Q: Where can I find configuration guide for SD-Routing?**

A: The configuration guide for SD-Routing is available at [https://www.cisco.com/c/en/us/td/docs/routers/cloud\\_edge/c8300/software\\_config/cat8300swcfg-xe-17-book/managing-the-device-using-vmanage.html](https://www.cisco.com/c/en/us/td/docs/routers/cloud_edge/c8300/software_config/cat8300swcfg-xe-17-book/managing-the-device-using-vmanage.html).

