Get started developing SDN apps now.
Welcome to a major paradigm shift in networking. The ability to develop enterprise-ready networking applications is now yours on a simple, open system, with access to all the tools and support you need.

Shape the future of networking and change how applications leverage resources. Build Software Defined Networking (SDN) applications using the open, HP SDN Developer Kit (SDK). The HP SDN Developer Kit provides developers the essential tools to create, test, and validate SDN applications, leveraging HP's SDN infrastructure and full complement of support services. The HP SDN App Store lets customers browse, search, purchase, and directly download SDN applications onto their Virtual Application Networks (VAN) SDN controller, establishing a new business model for how network services are purchased and implemented.
A new opportunity

In the past, network rollouts typically required months of work and customization which delayed deployment and limited agility. Proprietary technology limited innovation and compatibility.

HP has flattened the barriers to networking innovation. Act now and be at the forefront of this huge opportunity for developers. Take advantage of a ready-made market that’s made up of every OpenFlow-enabled device, including over 25 million SDN-ready HP ports (the market’s largest OpenFlow infrastructure).

What you need to enroll

To access the developer’s suite, you’re just a few steps away.

• **Join in at SDN DevCentral.** Download the SDK, example code, and documentation at [sdndevcenter.hp.com](http://sdndevcenter.hp.com)

• **Enroll with AllianceOne.** Register as an SDN Application Developer at [hp.com/go/hpn_specialization](http://hp.com/go/hpn_specialization)

• **Learn more** about SDN, OpenFlow, and HP’s role in the SDN market at [hp.com/networking/sdnforum](http://hp.com/networking/sdnforum)
The SDN application development journey

The HP SDN Developer Kit provides developers the essential tools to create, test, and validate SDN applications, leveraging HP’s SDN infrastructure and full complement of support services.

Create
Downloading the development suite enables developers to build a development environment complete with the SDN VAN Controller and the tools needed to build enterprise-grade SDN applications.

Test
Once developed, the Simulation Suite then enables the developer to simulate the SDN environment to test the applications during development.

Validate
Finally, the Virtual Lab and validation suite enables developers to validate their applications on HP equipment.

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The development suite

The SDK gives you a suite of development assets to quickly set up a developer environment and create applications on the HP VAN SDN Controller.

- APIs and documentation
- Programmers guide
- GUI Framework
- HP Virtual Application Networks (VAN) SDN Controller
- Sample code with development framework to quickly create apps directly on the HP VAN SDN Controller

Go to sdndevcenter.hp.com to get started.
Simulation and validation suites

HP SDN tools let you test and validate your apps in a simulated network environment, so you can ensure they are enterprise-ready.

- **Simulation Suite** – Download the controller software directly into your development environment and simulate networks with network simulation tools, such as [mininet.org](http://mininet.org).

- **Validation Suite** – An HP Validation Test along with the HP SDN Virtual Lab for testing SDN application functionality and interoperability across HP and third-party applications, in a ready-made environment that simulates user conditions.
Open forum

As you are developing, leverage the entire developer community with an online forum and knowledge base, backed by HP support and expertise.

- Gain insights through the open forum
- Participate in engaging developer events, such as code-a-thons
- Examine HP SDN Use Cases
- Leverage resources available through AllianceOne

Go to the forum and knowledge base now at hp.com/networking/sdnforum
**SDN services—focused on people, process and technology**

**HP Technology Services** offers new design, implementation, and support services to help build and deploy enterprise SDN solutions that address customer needs for agile, flexible network services that are aligned with their organization. The new offering, combined with HP SDN strategy services, delivers a holistic, pragmatic approach to customers’ software-defined networking transformation. New services include:

- **HP SDN Developer Support**—Offers 24x7 technical phone support and priority knowledge forum response for best practices and troubleshooting for SDN developers;

- **HP SDN Apps Services and Support**—Helps customers improve their experience and achieve desired outcomes with applications such as Sentinel and unified communications and collaboration;

- **Services and Support for HP OpenFlow products**—Offers a comprehensive portfolio of services to incorporate OpenFlow enabled products as part of a pragmatic approach to realize the benefits of SDN.

**Preparing IT staff to manage SDN environments**

To prepare IT professionals to navigate the changes in skill sets needed to handle the way SDN solutions are changing how networks are built, programmed, and managed, HP is introducing an SDN Learning Journey curriculum and SDN Certification.

- The HP SDN Learning Journey curriculum has three defined steps to prepare, engage and deliver SDN solutions. It combines traditional networks with SDN architectures.

- Through the HP SDN Certification IT architects, managers, and application developers are assured they meet HP’s strict performance standards for enterprise-grade SDN deployments.
The HP SDN App Store

The HP SDN App Store creates an open marketplace for ecosystem partners to sell SDN applications which customers can deploy on their network with a few simple mouse clicks. The SDN App Store will include HP developed, jointly-developed applications, partner-certified and community applications.

The HP SDN App Store delivers the front- and back-end infrastructure necessary for an online store, avoiding additional investment for ecosystem partners. Every application sold through the HP SDN App Store is approved by HP, ensuring they are enterprise-grade SDN applications.

Enterprise customers can create a secure, private portal accessible only by employees to download and run the HP VAN SDN Controller via their private server environment for customers.

a. Portal to sell SDN applications
b. Different levels of applications
i. Community applications
ii. Partner developed and HP tested and supported
iii. HP developed and supported
iv. Partner developed and supported and HP validated
Get started

Don’t wait to be part of this exciting opportunity. Become an SDN developer and take advantage of unprecedented tools and resources.

- SDN developer site
- Alliance One
- SDN Knowledge forum
- About SDN