



Hewlett Packard
Enterprise

Brochure

Developing made easy

Your guide to developing SDN apps.



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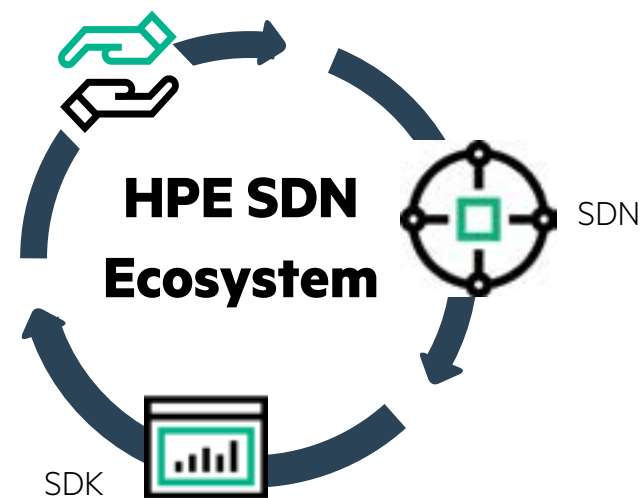
The HPE SDN App Store

Get started

Network development has not seen a more exciting time

The emergence of SDN has changed the way network architects design their networks. As a network developer, you can develop enterprise-ready networking applications 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 HPE SDN Developer Kit (SDK). The SDN Developer Kit provides developers the essential tools to create, test, and validate SDN applications, leveraging the HPE SDN infrastructure and a full complement of support services. The HPE SDN App Store lets customers browse, search, purchase, and directly download SDN applications onto their HPE Virtual Application Networks (VAN) SDN Controller, establishing a new business model for how network services are purchased and implemented.



Introduction

Enroll

Limitless 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.

HPE has flattened the barriers to networking innovation. It's an exciting time for network developers, who have the opportunity to develop for devices that can be programmed and automated in a unified way. You can take advantage of a ready-made market that's made up of every HPE OpenFlow-enabled device, including over 25 million SDN-ready HPE 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.hpe.com
- Enroll with AllianceOne. Register as an SDN Application Developer at hpe.com/go/hpn_specialization
- Learn more about SDN, OpenFlow, and HPE's role in the SDN market at hpe.com/networking/sdnforum

Development

Tools

The SDN application development journey

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

Create

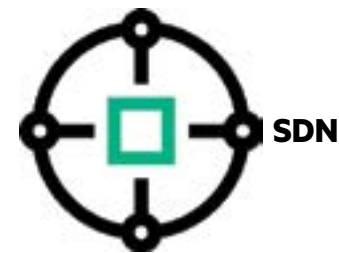
Downloading the development suite enables developers to build a development environment complete with the VAN SDN Controller and the tools needed to build enterprise-grade SDN applications.

Test

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

Validate

Finally, the HPE SDN Virtual Lab and validation suite enable developers to validate their applications on HPE equipment.



Develop

- RESTful APIs
- Developer guide
- Sample code

Simulate and validate

- HPE SDN Simulator
- HPE SDN Virtual Lab
- HPE SDN Validation Test

Collaborate

- Community portal
- Knowledge base
- Training, services

Development

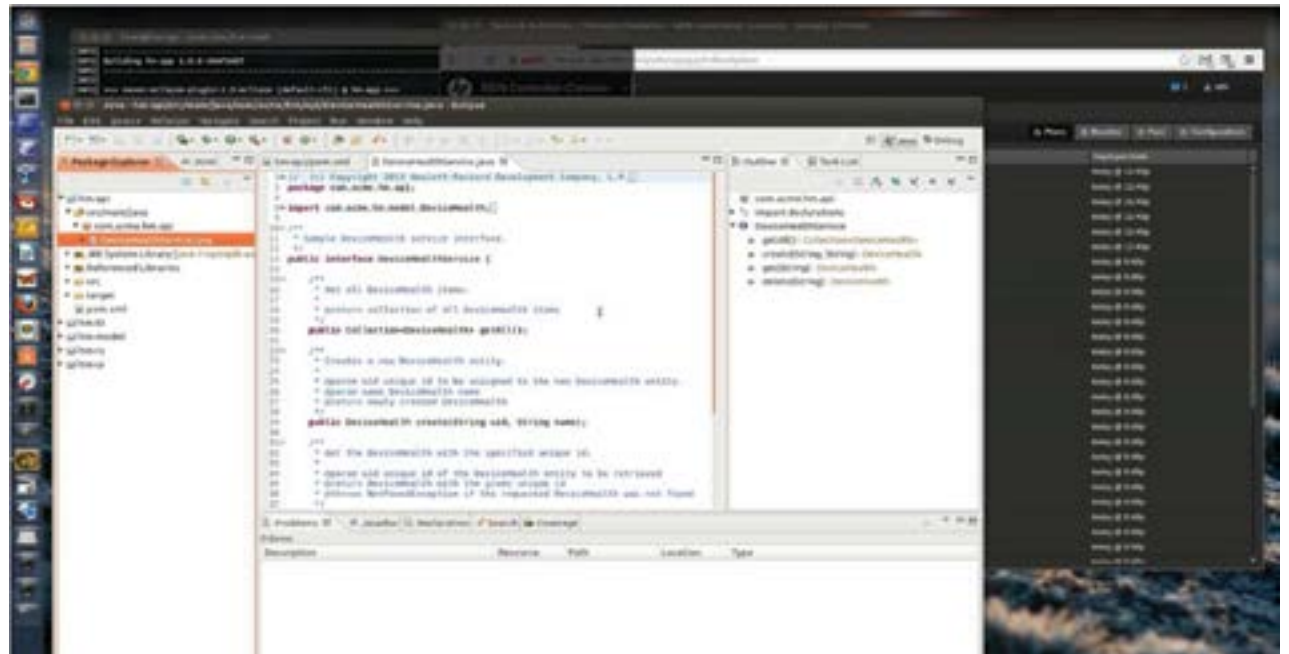
Develop

The development suite

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

- APIs and documentation
- Programmers guide
- GUI framework
- VAN SDN Controller
- Sample code with development framework to quickly create apps directly on the VAN SDN Controller

Go to sdndevcenter.hp.com to get started.



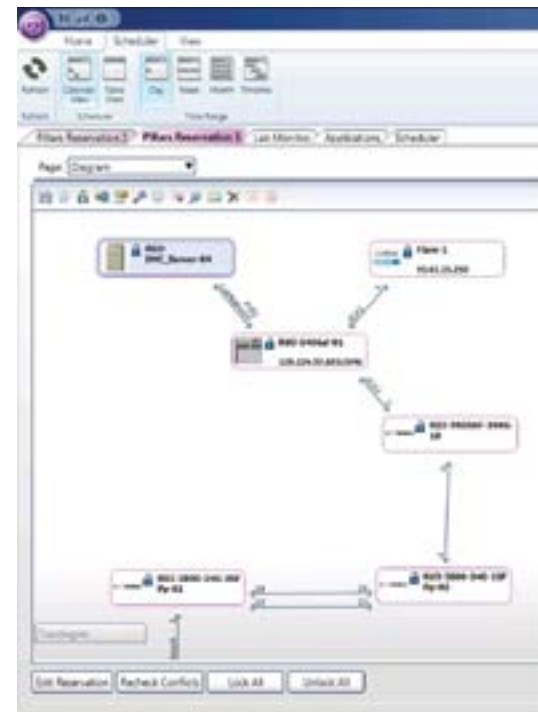
Development

Testing

Simulation and validation suites

HPE SDN tools let you test and validate your apps in a simulated network environment, so you can help 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.
- **Validation suite**—HPE Validation Test along with the HPE SDN Virtual Lab for testing SDN application functionality and interoperability across HPE and third-party applications, in a ready-made environment that simulates user conditions.



Support

Community

Open forum

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

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

Go to the forum and knowledge base now at hpe.com/networking/sdnforum.



Support

Services

SDN services—focused on people, process, and technology

HPE 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 HPE SDN strategy services, delivers a holistic, pragmatic approach to customers' software-defined networking transformation. New services include:

HPE SDN Developer Support—offers 24x7 technical phone support and priority knowledge forum response for best practices and troubleshooting for SDN developers

HPE 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 HPE 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, HPE is introducing an HPE SDN Learning Journey Curriculum and HPE SDN Certification.

- The SDN Learning Journey Curriculum has three defined steps to prepare, engage, and deliver SDN solutions. It combines traditional networks with SDN architectures.
- Through the SDN Certification, IT architects, managers, and application developers can meet HPE's strict performance standards for enterprise-grade SDN deployments.

Store

Distribute your App



The HPE SDN App Store

The HPE 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 includes HPE and jointly-developed applications, as well as partner-certified and community applications.

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

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

- Portal to sell SDN applications
- Different levels of applications
 - Community applications
 - Partner developed and HPE tested and supported
 - HPE developed and supported
 - Partner developed and supported and HPE validated

Get started

Summary and links

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](#)
- [AllianceOne](#)
- [SDN knowledge forum](#)
- [About SDN](#)



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4AA4-9419ENW, April 2016, Rev. 1