



NetBrain® Integrated Edition 10.0

Multi-vendor Support List (SDN)

1. Multi-Vendor Support List

The table below describes the SDN (including SD-WAN) device types and vendors supported in the system:

Technology	Device Type	Supported Level			Discovered via
		Tier 1	Tier 2	Tier 3	
SDN-WAN	CloudGenix ION SD-WAN	√	√		CLI/API
	VeloCloud Edge	√	√		SNMP/CLI
	VeloCloud Gateway	√	√		SNMP/CLI
	VeloCloud Orchestrator	√			SNMP
	Versa Analytics	√	√		CLI
	Versa Controller	√	√		API
	Versa Director	√	√		CLI
	Versa FlexVNF	√	√		API
	Viptela vBond	√	√		API
	Viptela vEdge	√	√		SNMP/CLI
	Viptela vManage	√	√		API
	Viptela vSmart	√	√		API
	Cisco Meraki Z3		√		API
	Cisco MX		√		API
	Aryaka router	√	√		SNMP
Cisco ACI	Cisco ACI APIC	√	√		API
	Cisco ACI Leaf Switch	√	√		API
	Cisco ACI Spine Switch	√	√		API
EXSi	VM Host	√	√		API
	vSphere Distributed Switch	√	√		API
	vSphere Standard Switch	√	√		API
VM NSX-V (for vSphere)	NSX Manager	√	√		API
	NSX Controller	√	√		API

Technology	Device Type	Supported Level			Discovered via
		Tier 1	Tier 2	Tier 3	
	NSX Logical Switch	✓	✓		API
	NSX Edge Security Gateway	✓	✓		API
	NSX Distributed Logical Router	✓	✓		API
AVI	AVI Controller	✓			API
	AVI Service Engine	✓			API
Big Switch	Big Switch Controller	✓	✓		SNMP/CLI/API
	Big Switch Spine Switch		✓		API
	Big Switch Leaf Switch		✓		API

The limitations on SDN support include:

- **Cisco ACI**
 - Remote Leaf is not supported.
 - Cannot map out EoMPLS devices between Transit Leaf and Spine for Stretched Fabric deployment that uses EoMPLS to interconnect Transit Leaf and Spine.
 - Running Qapps on logic nodes (like Tenant, VRF, EPG, etc.) are not supported.
- **NSX-V**
 - Overlay L2 topology and underlay paths are not supported.
- **Big Switch**
 - Only can get spine/leaf switches' L2 link(NDP) table, other data is retrieved from controller as NCT tables.
- **Cisco Meraki Z3 and MX**
 - SD-WAN routing table is populated by NetBrain's algorithm, but not exported by API.
 - The netmask of some interfaces couldn't be accurately retrieved by API. However, the netmask of the VLAN interface could be retrieved by API.

2. Tier Support Levels

The detailed operations supported at each level are described as follows:

Level	Description
Tier-1 Support	<ul style="list-style-type: none">▪ Monitoring — send API request to devices for monitoring.
Tier-2 Support	<ul style="list-style-type: none">▪ Retrieve live data and live data analysis — automatically and remotely connect to devices by using Telnet/SSH or through controllers, and retrieve live data via show commands or APIs, including configuration file, route table, NDP/MAC/ARP table, and device/interface information. Note: Retrieving data via SNMP belongs to Tier-1 support, not Tier-2.▪ L3/L2 topology<ul style="list-style-type: none">○ L3 topology — build Layer 3 topology from IPv4 addresses in the device configuration files.○ L2 topology — build Layer 2 topology from NDP tables (such as CDP, LLDP, and FDP), ARP tables and MAC tables. NDP tables are used to calculate the connections between switches, and NDP/MAC/ARP tables are used to calculate the connections between switches and other types of network devices.▪ Traffic path discovery<ul style="list-style-type: none">○ Basic L3 traffic path — discover and map L3 traffic paths based on route tables.○ Basic L2 traffic path — discover and map L2 traffic paths based on L2 topology.
Tier-3 Support	<ul style="list-style-type: none">▪ Design reader — parse configuration files and display them in the tip window and the Design Reader pane.▪ Special vendor features, such as ACL, PBR, Port-Channel, IPsec VPN, MPLS VPN, Failover, IP SLA, Netflow, and virtualization. <p>Note: A device type in a specific support level is not supposed to support all the operations at that level, and it may only support one or some of the operations. For example, Juniper Router belongs to the Tier-3 level, but it does not support Netflow or IP SLA. For any questions or doubts about multi-vendor support, contact NetBrain Support Team for help.</p>