

Network OS Features and Standards Support Matrix

Supporting Network OS v5.0.0

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About This Document

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Document history

The document history indicates changes made with each revision.

Document title	Release	Summary of changes	Publication date	Document number
Network OS Feature and RFC Support Matrix	4.1.1	Initial release	14 March 2014	53-1003229-01
Network OS Feature and RFC Support Matrix	5.0.0	New features added	28 August 2014	53-1003330-01

Objective

The Network OS Feature and RFC Support Matrix provides a consolidated view of features and RFCs supported on Brocade VDX platform. Use the tables to determine if a feature is supported on your product.

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Management

TABLE 1 Management features supported by product

Feature	Brocade VDX 6710	Brocade VDX 6720	Brocade VDX 6730	Brocade VDX 6740 6740T, and 6740T-1G	Brocade VDX 8770
Access gateway	No	No	4.1.0	5.0.0 (6740 only)	No
Authentication, authorization, and accounting (AAA)	3.0.0	3.0.0	3.0.0	4.0.0	3.0.0
DHCP	3.0.0	3.0.0	3.0.0	4.0.0	3.0.0
Firmware upgrade and downgrade	3.0.0	3.0.0	3.0.0	4.0.0	3.0.0
ICMP (IPv4)	3.0.0	3.0.0	3.0.0	4.0.0	3.0.0
Licensing	3.0.0	3.0.0	3.0.0	4.0.0	3.0.0
LLDP & LLDP-Med	3.0.0	3.0.0	3.0.0	4.0.0	3.0.0
Management VRF	No	No	No	5.0.0	5.0.0
Managing user accounts	3.0.0	3.0.0	3.0.0	4.0.0	3.0.0
NetCONF	3.0.0	3.0.0	3.0.0	4.0.0	3.0.0
Network time protocol (NTP)	3.0.0	3.0.0	3.0.0	4.0.0	3.0.0
Secure Copy (SCP)	3.0.0	3.0.0	3.0.0	4.0.0	3.0.0
sFlow	3.0.0	3.0.0	3.0.0	4.0.0	3.0.0
SNMPv2, SNMPv3 and MIBs	3.0.0	3.0.0	3.0.0	4.0.0	3.0.0
Secure shell (SSH)	3.0.0	3.0.0	3.0.0	4.0.0	3.0.0
SSH2 and SCP	3.0.0	3.0.0	3.0.0	4.0.0	3.0.0
Switch management	3.0.0	3.0.0	3.0.0	4.0.0	3.0.0
Telnet	3.0.0	3.0.0	3.0.0	3.0.0	3.0.0
VMware	3.0.0	3.0.0	3.0.0	4.0.0	3.0.0

Monitoring/RAS

TABLE 2 Monitoring and RAS features supported by product

Feature	Brocade VDX 6710	Brocade VDX 6720	Brocade VDX 6730	Brocade VDX 6740, 6740T, and 6740T-1G	Brocade VDX 8770
Copy support	3.0.0	3.0.0	3.0.0	4.0.0	3.0.0
High Availability	3.0.0	3.0.0	3.0.0	4.0.0	3.0.0
Packet Capture (PCAP)	4.1.0	4.0.0	4.0.0	4.0.0	4.0.0
Port Mirroring and Monitoring	3.0.0	3.0.0	3.0.0	4.0.0	3.0.0
Remote Network Monitoring (RMON)	3.0.0	3.0.0	3.0.0	4.0.0	3.0.0
Syslog	3.0.0	3.0.0	3.0.0	4.0.0	3.0.0
Ssystem monitoring (SYSMON)	3.0.0	3.0.0	3.0.0	4.0.0	3.0.0

IP Multicast

TABLE 3 IP Multicast features supported by product

Feature	Brocade VDX 6710	Brocade VDX 6720	Brocade VDX 6730	Brocade VDX 6740T, 6740T, and 6740T-1G	Brocade VDX 8770
Internet Group Management Protocol (IGMP)	3.0.0	3.0.0	3.0.0	4.0.0	3.0.0
IPv4 Multicast Routing	3.0.0	3.0.0	3.0.0	4.0.0	3.0.0
IPv4 Multicast Switching	No	No	No	4.0.0	4.0.0
IPv6 Multicast Routing	No	No	No	5.0.0	5.0.0
IPv6 Multicast Switching	No	No	No	5.0.0	5.0.0
Protocol Independent Multicast (PIM)	No	No	No	4.0.0	4.0.0

Layer 2

TABLE 4 Layer 2 features supported by product

Feature	Brocade VDX 6710	Brocade VDX 6720	Brocade VDX 6730	Brocade VDX 6740T, 6740T, and 6740T-1G	Brocade VDX 8770
ARP	3.0.0	3.0.0	3.0.0	4.0.0	3.0.0
Edge Loop Detection	3.0.0	3.0.0	3.0.0	4.0.0	3.0.0
FCoE	3.0.0	3.0.0	3.0.0	4.0.0	3.0.0
Fibre Channel Ports	No	No	3.0.0	No	No
Flexport	No	No	No	5.0.0 (6740 only)	No
IEEE 801.2w RSTP	3.0.0	3.0.0	3.0.0	4.0.0	3.0.0
IEEE 802.1d STP	3.0.0	3.0.0	3.0.0	4.0.0	4.0.0
IEEE 802.1s MSTP	3.0.0	3.0.0	3.0.0	4.0.0	3.0.0
Link Aggregation	3.0.0	3.0.0	3.0.0	4.0.0	3.0.0

TABLE 4 Layer 2 features supported by product (continued)

Feature	Brocade VDX 6710	Brocade VDX 6720	Brocade VDX 6730	Brocade VDX 6740T, 6740T, and 6740T-1G	Brocade VDX 8770
MAC ACLs	3.0.0	3.0.0	3.0.0	4.0.0	3.0.0
Overlay Gateway	No	No	No	4.1.0	No
Uni-Directional Link Detection (UDLD)	4.0.0	4.0.0	4.0.0	4.0.0	4.0.0
Virtual Fabrics	No	No	No	4.1.0	4.1.0
Virtual Fabrics Extension	No	No	No	5.0.0	No
VLAG	3.0.0	3.0.0	3.0.0	4.0.0	3.0.0
VLAN	3.0.0	3.0.0	3.0.0	4.0.0	3.0.0

Layer 3

TABLE 5 Layer 3 features supported by product

Feature	Brocade VDX 6710	Brocade VDX 6720	Brocade VDX 6730	Brocade VDX 6740, 6740T, and 6740T-1G	Brocade VDX 8770
ACLs (IPv4)	3.0.0	3.0.0	3.0.0	4.0.0	3.0.0
ACLs (IPv6)	3.0.0	3.0.0	3.0.0	4.0.0	3.0.0
BGP4 (IPv4)	4.0.0	4.0.0	4.0.0	4.0.0	4.0.0
BGP4+ (IPv6)	No	No	No	5.0.0	5.0.0
In-Band Management	3.0.0	3.0.0	3.0.0	4.0.0	3.0.0
IP Route Management	3.0.0	3.0.0	3.0.0	4.0.0	3.0.0
IP Route Policy	3.0.0	3.0.0	3.0.0	4.0.0	3.0.0
OSPF (IPv4)	3.0.0	3.0.0	3.0.0	4.0.0	3.0.0
OSPFv3 (IPv6)	No	No	No	5.0.0 (6740 only)	5.0.0
Prefix Lists (IPv4)	3.0.0	3.0.0	3.0.0	4.0.0	3.0.0
SFP Breakout Mode	No	No	No	4.0.0	4.0.0
Static Routing (IPv4)	3.0.0	3.0.0	3.0.0	4.0.0	3.0.0
VRF Lite (IPv4)	No	No	No	4.0.0	4.0.0
VRRP & VRRP-E (IPv4)	3.0.0	3.0.0	3.0.0	4.0.0	3.0.0
VRRPv3 & VRRP-Ev3 (IPv4)	No	No	No	5.0.0	5.0.0
VRRPv3 & VRRP-Ev3 (IPv6)	No	No	No	5.0.0	5.0.0

Virtual Cluster Switching (VCS)

TABLE 6 VCS features supported by product

Feature	Brocade VDX 6710	Brocade VDX 6720	Brocade VDX 6730	Brocade VDX 6740, 6740T, and 6740T-1G	Brocade VDX 8770
Automatic Migration of Port Profiles (AMPP)	3.0.0	3.0.0	3.0.0	4.0.0	3.0.0

TABLE 6 VCS features supported by product (continued)

Feature	Brocade VDX 6710	Brocade VDX 6720	Brocade VDX 6730	Brocade VDX 6740, 6740T, and 6740T-1G	Brocade VDX 8770
Fabric Build	3.0.0	3.0.0	3.0.0	4.0.0	3.0.0
Logical Chassis	3.0.0	3.0.0	3.0.0	4.0.0	3.0.0
Metro VCS	No	4.0.0	4.0.0	4.0.0	4.0.0
TRILL	3.0.0	3.0.0	3.0.0	4.0.0	3.0.0

Security

TABLE 7 Security features supported by product

Feature	Brocade VDX 6710	Brocade VDX 6720	Brocade VDX 6730	Brocade VDX 6740, 6740T, and 6740T-1G	Brocade VDX 8770
802.1x Port Security	3.0.0	3.0.0	3.0.0	4.0.0	3.0.0
Fabric Authentication	3.0.0	3.0.0	3.0.0	4.0.0	3.0.0
FIPS	3.0.0	3.0.0	3.0.0	4.0.0	3.0.0
IP Source Guard	No	No	No	No	No
Port Security	No	No	No	No	No
RA Guard (IPv6)	No	No	No	No	No
Receive ACLs	3.0.0	3.0.0	3.0.0	4.0.0	3.0.0
Zoning	3.0.0	3.0.0	3.0.0	4.0.0	3.0.0

Traffic Management

TABLE 8 Traffic Management features supported by product

Feature	Brocade VDX 6710	Brocade VDX 6720	Brocade VDX 6730	Brocade VDX 6740, 6740T, and 6740T-1G	Brocade VDX 8770
Buffer Queue Management	No	No	No	No	No
BUM Storm Control	No	No	No	4.0.0	3.0.0
Policy-Based Routing (PBR) (IPv4)	No	No	No	4.1.0	4.1.0
Policy-Based Routing (PBR) (IPv6)	No	No	No	5.0.0	5.0.0
Quality of Service (QoS)	3.0.0	3.0.0	3.0.0	4.0.0	3.0.0
Rate Limiting/Shaping	3.0.0	3.0.0	3.0.0	No	No
Routing	3.0.0	3.0.0	3.0.0	4.0.0	3.0.0
Traffic Policies	3.0.0	3.0.0	3.0.0	4.0.0 (supported on the VDX 6740 but not supported on the VDX 6740T or VDX 6740T-1G)	3.0.0
Trunking	3.0.0	3.0.0	3.0.0	4.0.0	3.0.0

RFC Compliance

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RFCs supported in Network OS

TABLE 9 RFCs supported by product

RFC number	RFC Name	Brocade VDX 6710	Brocade VDX 6720	Brocade VDX 6730	Brocade VDX 6740, 6740T, and 6740T-1G	Brocade VDX 8770
RFC768	User Datagram Protocol (UDP)	3.0.0	3.0.0	3.0.0	4.0.0	3.0.0
RFC783	TFTP Protocol (revision 2)	3.0.0	3.0.0	3.0.0	4.0.0	3.0.0
RFC791	Internet Protocol (IP)	3.0.0	3.0.0	3.0.0	4.0.0	3.0.0
RFC792	Internet Control Message Protocol (ICMP)	3.0.0	3.0.0	3.0.0	4.0.0	3.0.0
RFC793	Transmission Control Protocol (TCP)	3.0.0	3.0.0	3.0.0	4.0.0	3.0.0
RFC826	ARP	3.0.0	3.0.0	3.0.0	4.0.0	3.0.0
RFC854	Telnet Protocol Specification	3.0.0	3.0.0	3.0.0	4.0.0	3.0.0
RFC894	A Standard for the Transmission of IP Datagram over Ethernet Networks	3.0.0	3.0.0	3.0.0	4.0.0	3.0.0
RFC959	FTP	3.0.0	3.0.0	3.0.0	4.0.0	3.0.0
RFC1027	Using ARP to Implement Transparent Subnet Gateways (Proxy ARP)	3.0.0	3.0.0	3.0.0	4.0.0	3.0.0
RFC1112	IGMP v1	3.0.0	3.0.0	3.0.0	4.0.0	3.0.0
RFC1157	SNMPv1/v2c	3.0.0	3.0.0	3.0.0	4.0.0	3.0.0
RFC1213	MIB II	3.0.0	3.0.0	3.0.0	4.0.0	3.0.0
RFC1492	TACACS+	3.0.0	3.0.0	3.0.0	4.0.0	3.0.0
RFC1519	Classless Interdomain Routing (CIDR)	3.0.0	3.0.0	3.0.0	4.0.0	3.0.0
RFC1584	Multicast Extensions to OSPF	3.0.0	3.0.0	3.0.0	4.0.0	3.0.0
RFC1587	OSPF NSSA Option	3.0.0	3.0.0	3.0.0	4.0.0	3.0.0
RFC1700	Assigned Numbers					
RFC1765	OSPF Database Overflow	3.0.0	3.0.0	3.0.0	4.0.0	3.0.0
RFC1772	Application of the Border Port Protocol in the Internet					
RFC1812	Requirements for IP Version 4 Routers	3.0.0	3.0.0	3.0.0	4.0.0	3.0.0
RFC1997	BGP Communities Attribute	No	No	No	4.0.0	4.0.0
RFC2068	HTTP Server	3.0.0	3.0.0	3.0.0	4.0.0	3.0.0
RFC2131	DHCP	3.0.0	3.0.0	3.0.0	4.0.0	3.0.0
RFC2154	OSPF with Digital Signatures (MD-5 Support)	3.0.0	3.0.0	3.0.0	4.0.0	3.0.0

TABLE 9 RFCs supported by product (continued)

RFC number	RFC Name	Brocade VDX 6710	Brocade VDX 6720	Brocade VDX 6730	Brocade VDX 6740, 6740T, and 6740T-1G	Brocade VDX 8770
RFC2236	IGMPv2	3.0.0	3.0.0	3.0.0	4.0.0	3.0.0
RFC2267	Network Ingress Filtering	3.0.0	3.0.0	3.0.0	4.0.0	3.0.0
RFC2328	OSPF Version 2	3.0.0	3.0.0	3.0.0	4.0.0	3.0.0
RFC2370	OSPF Opaque Link-State Advertisement (LSA) Option-Partial Support	3.0.0	3.0.0	3.0.0	4.0.0	3.0.0
RFC2385	Protection of BGP Sessions with the TCP MD5 Signature Option	No	No	No	No	4.0.0
RFC2439	BGP Route Flap Damping	No	No	No	No	4.0.0
RFC2460	Internet Protocol, Version 6 (v6) Specification (on management interface)	3.0.0	3.0.0	3.0.0	4.0.0	3.0.0
RFC2464	Transmission of IPv6 Packets over Ethernet Networks (on management interface)	3.0.0	3.0.0	3.0.0	4.0.0	3.0.0
RFC2474	Definition of the Differentiated Services Field in the IPv4 and IPv6 Headers (only for IPv4)	3.0.0	3.0.0	3.0.0	4.0.0	3.0.0
RFC2571	Architecture for Describing SNMP Framework	3.0.0	3.0.0	3.0.0	4.0.0	3.0.0
RFC2858	Multiprotocol Extensions for BGP-4					
RFC2865	Remote Authentication Dial In User Service (RADIUS)	3.0.0	3.0.0	3.0.0	4.0.0	3.0.0
RFC2918	Route Refresh Capability for BGP-4					
RFC3101	OSPF Not-So-Stubby-Area (NSSA) Option	3.0.0	3.0.0	3.0.0	4.0.0	3.0.0
RFC3107	Carrying Label Information in BGP-4					
RFC3137	OSPF Stub Router Advertisement	3.0.0	3.0.0	3.0.0	4.0.0	3.0.0
RFC3176	sFlow	3.0.0	3.0.0	3.0.0	4.0.0	3.0.0
RFC3392	Capabilities Advertisement with BGPv4	No	No	No	4.0.0	4.0.0
RFC3411	An Architecture for Describing SNMP Frameworks	3.0.0	3.0.0	3.0.0	4.0.0	3.0.0
RFC3412	Message Processing and Dispatching for the SNMP	3.0.0	3.0.0	3.0.0	4.0.0	3.0.0
RFC3413	Simple Network Management Protocol (SNMP) Applications	3.0.0	3.0.0	3.0.0	4.0.0	3.0.0
RFC3768	Virtual Router Redundancy Protocol (VRRP)	3.0.0	3.0.0	3.0.0	4.0.0	3.0.0
RFC4115	Port-based Policer	No	No	No	4.0.0	3.0.0
RFC4271	BGP	4.0.1	4.0.1	4.0.1	4.0.1	4.0.1
RFC4292	IP Forwarding MIB	3.0.0	3.0.0	3.0.0	4.0.0	3.0.0

TABLE 9 RFCs supported by product (continued)

RFC number	RFC Name	Brocade VDX 6710	Brocade VDX 6720	Brocade VDX 6730	Brocade VDX 6740, 6740T, and 6740T-1G	Brocade VDX 8770
RFC4293	Management Information Base for the Internet Protocol (IP)	3.0.0	3.0.0	3.0.0	4.0.0	3.0.0
RFC4360	BGP Extended Communities Attribute					
RFC4456	BGP Route Reflection	No	No	No	4.0.0	4.0.0
RFC4510	Lightweight Directory Access Protocol (LDAP)	3.0.0	3.0.0	3.0.0	4.0.0	3.0.0
RFC4552	Authentication / Confidentiality for OSPF v3					
RFC4601	PIM/SM Protocol Specification	No	No	No	4.0.1	4.0.1
RFC4893	BGP Support for Four-Octet AS Number Space	No	No	No	4.0.0	4.0.0
RFC5065	Autonomous System Confederations for BGP					
RFC5492	Capabilities Advertisement with BGP-4					