

DATACOM



DmOS

DATACOM OPERATING SYSTEM

Version 6.6.0

RELEASE NOTES

204.4295.48 - October 7, 2021

Contacts

Technical Support

Datacom has available a support portal - DmSupport, to help the customers in use and config of our equipment.

Access to the DmSupport can be made through link: <https://supportcenter.datacom.com.br>

In this site the following are available: firmwares, technical datasheets, config guide, MIBs and manuals for download. In addition, it allows opening of calls for assistance with our technical team.

Telephone Number: **+55 51 3933-3122**

We would like to highlight that our assistance through telephone support is available from Monday through Friday from 08:00 AM through 05:30 PM.

Important: For support assistance 24x7, please request a quotation to our sales department.

General Information

For any other additional information, please visit the <https://www.datacom.com.br/en> or call:

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Product Documentation

This document is part of a set of documents prepared to provide all necessary information about DATACOM products.

Software Platform

- **Quick Configuration Guide** - Provides instructions on how to set functionalities in a quick manner in the equipment
- **Troubleshooting Guide** - Provides instructions on how to analyze, identify and solve problems with the product
- **Command Reference** - Provides all the commands related to the product
- **Release Notes** - Provides instructions on the new functionalities, identified defects and compatibilities between Software and Hardware

Hardware Platform

- **Datasheet** - Provides the Hardware and Software technical characteristics of product
- **Installation Guide** - Provides instructions on the procedures covering product installation

The availability of some documents can vary depending on the type of product.

Access <https://supportcenter.datacom.com.br> to locate the related documents or contact the Technical Support for additional information.



Introduction to the document

About this Document

This report provides information regarding a new software release version for DmOS product. The Release Notes also intends to inform relevant changes that have occurred in software, hardware and documentation.

It is assumed the reader is familiar with network protocols concepts and has previous knowledge about DmOS products.

Audience

This document is intended for Network Administrators, Engineers and any other qualified service personnel who are responsible for configuring and maintaining networks deployed with DmOS.

Text Convention

This report uses these text conventions to convey instructions and information:

Convention	Description
Hyperlink	Internet site or an e-mail address. It is also applied to indicate a local link inside the document itself (e.g. a chapter).
Terminal	System commands and screen outputs.
<i>Object</i>	Indicates a reference to something. Used to emphasize this referenced object.
Menu > Path	GUI (Graphic User Interface) menu paths.
[Key]	Keyboard buttons.

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1 Important Notes

The table below provides important notes that should be observed when using the product.

Note	Product
Increasing the number of objects or decreasing the interval between SNMP requests might lead to management latency or SNMP errors.	All
DmOS devices support autocorrection for occurrences of data corruption in memory. There may be cases after power outages or swings where the system cannot perform data autocorrection and may cause loss of logs or configurations.	All
The memory can be allocated by internal processes due to successive link-flaps. After flap stop, the memory will return to initial state. It is recommended to use the Link-Flap-Detection feature in ethernet interfaces.	All
VPN configurations that use the default MTU size configuration before DmOS 3.0.0 must observe the change in the default value from 1500 to 9198, which may cause a configuration mismatch.	All
It is possible to update all ONUs in a PONLink simultaneously provided that all ONUs are model equivalent. If there are ONUs of different models in a PONLink, it is not recommended to use the “all” parameter in command request firmware onu install <image> interface gpon <id> .	DM461X
It is not recommended to configure the snmp real-time option for more than 128 ONUs. Large scale monitoring can cause performance impacts, such as an increase in ONU status update time. When using the DM461X products (OLT GPON) and operating near the maximum supported ONUs by the platform, it is recommended that the SNMP requests interval is no lower than 15 minutes.	DM461X

2 Hardware and Software Compatibility

This chapter lists hardware and software compatibility for this software release.

2.1 Released Software

This session presents the software release details:

Product	Release Version
DmOS	6.6.0



DmOS 5.0 is the LTS release (Long-Term Support) for platform **DM4610 OLT 8GPON+8GX+4GT+2XS** (P/N 800.5081.xx). The platform will still receive maintenance releases based on DmOS 5.0, if necessary, with bug fixes. However, there will be no updates with new features. Other OLTs (DM4610-HW2 8-GPON and 4-GPON, DM4615), will still receive new features and bug fixes.



DmOS 5.2 is the LTS release (Long-Term Support) for platform **DM4775 32CX** (P/N 820.0014.00). The platform will still receive maintenance releases based on DmOS 5.2, if necessary, with bug fixes. However, there will be no updates with new features.



For scalability values per platform, check document DmOS – DmOS Datasheet.

2.2 Product Compatibility



To use management via DmView with the DmOS version 6.6.0 it is necessary to update DmView to version 10.4.1 or greater.

The table below shows the product compatibility matrix stating the minimum hardware version, minimum software version and the minimum version of DmView (management software).

Product	Hardware Version	Software Version	DmView Version
DM4050 24GT+6XS	800.5189.00	2.2.0	10.3
DM4050 24GX+6XS	800.5190.00	2.2.0	10.3
DM4170 24GX+4XS+2QX	800.5184.01	3.0.0	10.3

Product	Hardware Version	Software Version	DmView Version
DM4170 24GX+12XS	800.5186.01	2.2.0	10.3
DM4250 24XS+2QX	800.5197.02	4.0.0	10.3
DM4270 24XS+2CX	800.5231.53	4.7.0	10.3
DM4270 48XS+6CX	800.5213.53	4.9.0	10.3
DM4360 4GT+4GX	800.5259.50	4.10.0	10.3
DM4370 4GT+4GX+4XS	800.5191.00	3.0.0	10.3
DM4380 12XS+3CX	800.5258.00	5.0.0	10.3
DM4610 OLT 8GPON+8GX+4GT+2XS	800.5081.03	1.4.0	10.3
DM4610 OLT 4GPON+4GX+2XS (HW2)	800.5193.01	2.4.0	10.3
DM4610 OLT 8GPON+8GX+4GT+2XS (HW2)	800.5165.01	2.2.0	10.3
DM4611 OLT 4GPON+2GT+2XS	800.5283.51	6.2.0	10.3
DM4612 OLT 8GPON+2GT+2XS	800.5285.51	6.2.0	10.3
DM4615 OLT 16GPON+4GT+4XS	800.5198.01	4.2.0	10.3
DM4770 16CX	800.5280.51	6.0.0	10.3
DM4770 32CX	800.5255.52	5.8.0	10.3
DM4775 32CX	820.0015.00 820.0016.00	4.9.0	10.3



Bold items - new hardware platform available in the current version of DmOS.

2.3 Compatibility Between Software Versions

The tables below shows the compatibility matrix between firmware versions, including the notes for the firmware update process.

Software Upgrade

For **DM4050** platform, DmOS has the following compatibility matrix:

Platform	Initial Version	Mandatory Intermediate Versions			Final Version
DM4050	2.2.0	2.2.2	3.0.4	4.6.2	6.6.0

Platform	Initial Version	Mandatory Intermediate Versions			Final Version
DM4050	2.2.2	-	3.0.4	4.6.2	6.6.0
DM4050	3.0.4 or higher	-	-	4.6.2	6.6.0
DM4050	4.6.2 or higher	-	-	-	6.6.0

For **DM4170** platform, DmOS has the following compatibility matrix:

Platform	Initial Version	Mandatory Intermediate Versions			Final Version
DM4170	2.2.0	2.2.2	3.0.4	4.6.2	6.6.0
DM4170	2.2.2	-	3.0.4	4.6.2	6.6.0
DM4170	3.0.4 or higher	-	-	4.6.2	6.6.0
DM4170	4.6.2 or higher	-	-	-	6.6.0

For **DM4250** platform, DmOS has the following compatibility matrix:

Platform	Initial Version	Mandatory Intermediate Versions			Final Version
DM4250	4.0.0 or higher	4.6.2			6.6.0
DM4250	4.6.2 or higher	-			6.6.0

For **DM4270 24XS+2CX** platform, DmOS has the following compatibility matrix:

Platform	Initial Version	Mandatory Intermediate Versions			Final Version
DM4270 24XS+2CX	4.7.0 or higher	-			6.6.0

For **DM4270 48XS+6CX** platform, DmOS has the following compatibility matrix:

Platform	Initial Version	Mandatory Intermediate Versions			Final Version
DM4270 48XS+6CX	4.9.0 or higher	-			6.6.0

For **DM4360** platform, DmOS has the following compatibility matrix:

Platform	Initial Version	Mandatory Intermediate Versions			Final Version
DM4360	4.10.0 or higher	-			6.6.0

For **DM4370** platform, DmOS has the following compatibility matrix:

Platform	Initial Version	Mandatory Intermediate Versions				Final Version
DM4370	3.0.0	3.0.4	4.6.2			6.6.0
DM4370	3.0.4 or higher	-	4.6.2			6.6.0
DM4370	4.6.2 or higher	-	-			6.6.0

For **DM4380** platform, DmOS has the following compatibility matrix:

Platform	Initial Version	Mandatory Intermediate Versions				Final Version
DM4380	5.0.0 or higher	-				6.6.0

For **DM4610 HW1** platform, the DmOS has the following compatibility matrix:

Platform	Initial Version	Mandatory Intermediate Versions					Final Version
DM4610 HW1	1.8.0 or lower	1.8.2	2.2.2	3.0.4	4.0.2		5.0.2
DM4610 HW1	1.8.2 to 2.0.4	-	2.2.2	3.0.4	4.0.2		5.0.2
DM4610 HW1	2.2.2 to 3.0.2	-	-	3.0.4	4.0.2		5.0.2
DM4610 HW1	3.0.4 to 4.0.0	-	-	-	4.0.2		5.0.2
DM4610 HW1	4.0.2 or higher	-	-	-	-		5.0.2

For **DM4610 HW2** platform, the DmOS has the following compatibility matrix:

Platform	Initial Version	Mandatory Intermediate Versions					Final Version
DM4610 HW2	1.8.0 or lower	1.8.2	2.2.2	3.0.4	4.0.2		6.6.0
DM4610 HW2	1.8.2 to 2.0.4	-	2.2.2	3.0.4	4.0.2		6.6.0
DM4610 HW2	2.2.2 to 3.0.2	-	-	3.0.4	4.0.2		6.6.0
DM4610 HW2	3.0.4 to 4.0.0	-	-	-	4.0.2		6.6.0
DM4610 HW2	4.0.2 or higher	-	-	-	-		6.6.0

For **DM4611 and DM4612** platforms, the DmOS has the following compatibility matrix:

Platform	Initial Version	Mandatory Intermediate Versions				Final Version
DM4611 and DM4612	6.0.0 or higher	-				6.6.0

For **DM4615** platform, the DmOS has the following compatibility matrix:

Platform	Initial Version	Mandatory Intermediate Versions	Final Version
DM4615	4.0.0 or higher	-	6.6.0

For **DM4770 16CX** platform, DmOS has the following compatibility matrix:

Platform	Initial Version	Mandatory Intermediate Versions	Final Version
DM4770 16CX	6.0.0 or higher	-	6.6.0

For **DM4770 32CX** platform, DmOS has the following compatibility matrix:

Platform	Initial Version	Mandatory Intermediate Versions	Final Version
DM4770 32CX	5.8.0 or higher	-	6.6.0

For **DM4775** platform, DmOS has the following compatibility matrix:

Platform	Initial Version	Mandatory Intermediate Versions	Final Version
DM4775	4.9.0 or higher	-	5.2.0

Notes

It is always recommend save the configuration before firmware update process. To save the configuration use the **save <arquivo>** command.

In case of doubt, please call to DATACOM Technical Support.

Software Downgrade

Notes

The database of the older version, if available, will be restored. Any configuration changes made after upgrade to version 4.x or higher will be lost in the downgrade process. If the equipment has never received firmware other than 4.x, when downgrading the equipment will start with the factory setting.

From version 2.4.0 it is only possible to perform firmware downgrade to version 2.0.0 or 2.2.2. Firmware downgrade to older versions is not allowed by the system.

2.4 Compatibility of Electrical Modules

The table below shows the matrix about electrical modules support (SFP Copper) by each product line and which version initiated its support. It's advised the use of **negotiation** on interfaces with copper SFPs.



The SFP Copper supported has **377.7000.00** DATACOM code. DATACOM does not guarantee compatibility with other modules. Contact us for more information.

Product Line	Software Version
DM4050	2.2.0
DM4170	2.2.0
DM4250	4.8.0
DM4270 24XS+2CX	4.8.0
DM4270 48XS+6CX	5.0.0 (forced only ¹)
DM4360	4.10.0
DM4370	3.0.0
DM4380	5.0.0
DM4610	2.2.0
DM4611	6.2.0
DM4612	6.2.0
DM4615	4.2.0
DM4770 16CX	6.0.0 (forced only ¹)
DM4770 32CX	5.8.0
DM4775	4.9.0



¹ **DM4270 48XS+6CX** and **DM4770 16CX** don't support negotiation on ten-gigabit interfaces and twenty-five-gigabit interfaces, but it's possible to make use of copper modules setting the interface to forced mode (no negotiation). The presence of a copper module makes the interface negotiate with the link partner advertising 1 Gbps speed only, with no support for pause frames or lower speeds, regardless of its current configuration. When operating in this mode, a link down status may take up to 10 seconds to be reported.

2.5 Compatibility of Electrical Cables

The table below shows the electrical cables support matrix recommended by Datacom.



The use of non recommended cables can cause performance problems.

Code	Description
710.0384.00	DAC Passive Cable 40GbE QSFP+ to QSFP+ (1m)
710.0391.00	DAC Passive Cable 40GbE QSFP+ to QSFP+ (3m)
710.0395.00	DAC Passive Cable 100GbE QSFP28 to QSFP28 (1m)
710.0396.00	DAC Passive Cable 100GbE QSFP28 to QSFP28 (3m)

2.6 SSL Encryption Compatibility

The table below lists the OpenSSL versions for each software version and which version initiated its support.

Software Version	OpenSSL Version
1.4.2	1.0.1f
1.10.x	1.0.2j
1.12.0 to 2.2.0	1.0.2k
2.4.0 to 3.0.4	1.0.2l
4.0.0 to 4.10.2	1.0.2o
5.0.0 or higher	1.0.2t

3 New Features and Enhancements

This chapter lists new features, enhancements and changes in commands introduced in this release.

3.1 New Features

Feature	Description
-	-

3.2 Enhancements

Feature	Description	ID
SNMP	Hint in VACM access to mention that the global VRF or without VRF is referenced by double quotes “ ”.	150905

3.3 Changes in protocols management

Feature	Description	ID
-	-	-

4 Solved Issues and Restrictions

This section lists solved issues and known restrictions for this software release.

- **Solved Issues:** Fixed bugs in this version.
- **DmOS Software Restrictions:** Feature restrictions which are valid for all hardware platforms.
- **Hardware Platforms Restrictions:** DmOS Software restrictions on specific hardware platforms.

4.1 Solved Issues

Feature	Description	ID
GPON	Slow provisioning and discovery of ONUs using Taclink GPON SFPs.	150604
GPON	Memory leak in GPON processes causing processes to being terminated over time due low memory.	146674
GPON	In some cases, the DM4615 FAN could have a high rotation even in a controlled environment.	150603
GPON NETCONF	Does not respond polling via NETCONF and does not provision ONUs when reinserting SFPs with the Product Number (PN) are not filled. This issue affects DmView and other NETCONF softwares that manage the equipment.	142907
IP Routing	High CPU usage when number of prefixes is above supported by chipset.	150961
L2VPN	Remove L2VPNs with same vlan range and access interface generate a failure in L3 interface communication and L2 traffic which share same access interfaces.	150607
L2VPN	Configuring L2VPNs with RSVP can cause an internal failure in the database, affecting other L2VPNs which use LDP. These L2VPNs are not UP, and in some cases even UP forwarding traffic to the wrong destination.	150606
SNMP	It was not possible run <i>load factory-config</i> command when VACM access was filled incorrectly with simple quotes ' '.	150903

4.2 DmOS Software Restrictions

Feature	Description	ID
ACL	There is not no support to filters in service-ports, only in PON links.	-
ACL	Broadcast and DLF traffic will be forwarded to CPU even when there is an ACL blocking it.	122376
Aging Time	There is no support to aging time configuration per interface, VLAN ID , Routed-MACs or specific MAC addresses.	-
Assistant-task	If there is a show command in the script, the next commands are not executed.	121680

Feature	Description	ID
Banner	On banner configuration, the \ character (backslash) operates as an escape character. To display this character, you must insert two backslash (\\).	-
BFD	BFD sessions are not shown in DmView.	127350
BGP	In BGP neighbors BGP with same IP address, in distinct VRF, it is not possible configure different passwords to the same neighbors.	-
BGP	Autocomplete does not work for show ip bgp vrf neighbor command.	114292
BGP	Possibility of coredump if user to run commands immediately after booting the system.	113454
Booting Process	During the initialization of equipment, if a commit is executed, it might show the "Database is Locked" message until all modules are applied	-
CFM	When adding a interface that blocked by CFM to a LAG that is also blocked by CFM, it can be unblocked.	124046
CFM	Communication between MEPs may not work, being necessary to remove the CFM configuration and reapply it.	119632
CLI	"show" and "commit" commands may fail if executed shortly after booting the system due of software modules initialization.	116417
CLI	show configuration diff command can crash requiring the user execute a CTRL+C to return to the CLI.	-
CLI	The compare file command returns error when device has active license.	113068
CLI	The select option of CLI filter does not work for some commands.	95478
DHCP Relay L3	It does not supported in VRF.	-
DmView	Status of some protocols are not shown in DmView (Info/Config).	90961
EAPS	When several EAPS instances are operating, new instance activation might take several minutes to be applied after commit. In this time interval the CLI is blocked for the operator until the creation process and apply is finished.	88879
EAPS	It is not recommended using more than 8 EAPS instances in the same ring.	-
EAPS/ERPS	To have commuting times of about 50ms with protocols ERPS and EAPS, it should be used at most 4 instances in the same ring.	-
GPON	Unstable provisioning and inconsistent GPON alarms in ONUs Intelbras/Zhone. If the OLT presents this issue, it is recommended to use DmOS 5.12 version.	147338
GPON Autoprovisioning	Alarm of autoprovisioning may get stuck under some configuration conditions of GPON interface.	99261

Feature	Description	ID
GPON Autoprovisioning	Automatic deprovisioning of ONUs is not supported.	-
GPON Counters	There is no support to VEIP counters.	-
GPON Ethernet UNI	ONU profiles do not automatically create the Ethernet interfaces.	-
GPON Firmware Update	After version 4.0.2 it may occur configuration loss of GPON interfaces when upgrading from a firmware version before 4.0.2. To prevent this situation, check Compatibility between software versions section must be followed. It is also possible that third-party tools reveals incompatibility issues when using NetConf protocol to access the equipment and, in these cases, the GPON interface keys must be adjusted.	-
GPON Flood Blocking	Support to flood blocking only in Service-VLAN type N:1.	-
GPON IP Spoofing	There is no support to disabling the IP Spoofing mechanism in GPON interfaces.	-
GPON IP Spoofing	Double tag traffic will only work with allowed ip all rule applied to the service-port.	-
GPON IP Spoofing	DHCP client negotiates and receives IP address, however, the rule is not created in allowed IP list because all filters are used in equipment.	-
GPON Multicast	IGMP is only possible in N:1 VLAN type.	-
GPON ONU	Possibility of error like Restarting CLI when executing "shutdown" followed by "commit" in a UNI interface of ONU.	87508
GPON ONU	After several ONU firmware update executions using the parameter all, new firmware update commands are not processed until shut/no shut is performed in the PON links where the firmware update processes took place.	126539
GPON ONU	Dying Gasp is not supported for ONU SFP TEO-GNUK-S20B.	
GPON ONU SNMP	Monitoring of Ethernet ports ONU traffic by SNMP with flow greater than 38 Mbps does not work properly.	-
GPON PON Interfaces	It is not possible to execute some commands of GPON when using a range of GPON interfaces.	102236

Feature	Description	ID
GPON PON Interfaces	PONLINK LOS alarm generation eventually fails, without any further impact to the PONLINK, when the fiber is reconnected or other PONLINKs in the equipment. ONU LOSi alarms are generated normally during this error. The issue happens when there is an intermittent connection between the fiber and the ONT and after reconnecting the fiber to the PONLINK the system operates normally.	-
GPON POTS	There is no support to shutdown POTS UNI interface.	-
GPON Service-Port	Partial and not functional configuration of service port created using netconf in versions lower 5.6 can cause impossibility to update firmware to version 5.6 or above.	-
GPON SIP Profile	There is no support to Call ID and Call forwarding configuration.	-
GPON SIP Profile	SIP server port is fixed as 5060.	-
GPON SIP Profile	It is allowed to configure the field display-name in a SIP agent profile with a string greater than 25 character, but the only first 25 characters are used.	108932
GPON SNMP	Poor performance in GEM counters by SNMP.	144319
Interfaces	Commit warnings are not generated if changes are made to a range of interfaces rather than a specific interface.	99138
Interfaces	During the initialisation of DM4610 or DM4615 equipment, its interfaces may go to UP for 30 seconds even if the interfaces are in "shutdown" administratively.	-
IP Routing	Unable to execute "show ip ..." commands on two CLI sessions simultaneously. It is necessary to wait for the execution of the command before executing another.	M1253 M1254
LAG	If a equipment does not have MPLS settings and MPLS packets pass through a LAG of this equipment, the traffic will not be balanced properly.	US86449
LAG	A LAG stays up even it has less active interface than defined in minimum-active links if this setting is made only one side of the link. To operate correctly, the minimum-active links must be configured on both sides.	105313
LDP	There are no support to LDP Allocation mode Independent, LDP Encapsulation mode explicit-null, LDP Distribution mode On Demand, LDP Retention mode Conservative.	-
LDP	It is not possible the change the loopback IP address and enable the LDP protocol in a single commit.	US89105

Feature	Description	ID
LDP	When the ARP packets forwarded to the CPU is over than rate limit configured for the interface, the LDP sessions might not be established.	M43 M778
LLDP	When a packet with an invalid TLV is received, the valid content of the packet may be discarded and no neighbor information is displayed.	121683
License	In equipment with MPLS license enabled, it could occur a failure when loading a configuration file with load override.	106007
License	When disabled the MPLS license with an invalid key, it will be displayed a error messaged as if the user was trying to enable the license.	-
L2VPN	The show mpls l2vpn counters commands does not support autocomplete of the parameters.	M841
L2VPN	The show mpls l2vpn hardware command works only for VPWS.	US78815
L2VPN	During traffic convergence in network with interoperability with non Datacom equipment, the pseudowire may fail (L2VPN).	M1360
L2VPN	When there is a lag interface with LACP as a VPWS or VPLS access, the VPN counters are incremented by LACP control packets.	99727
L2VPN	Broadcast, multicast and unknown unicast packets are duplicate and counted twice in the VPN VPLS ingress counters. The duplicate packet is discard and the interface discarding counter is incremented.	-
L2VPN	VPN access interface counters can be incremented even when TX traffic is discarded.	121403
L2VPN	GMRP protocol BPDUs do not pass through VPLS, even with TLS enabled.	133639
L2VPN	Multicast packets encapsulated in L2VPNs are not registered in ingress counters of VPN uplink interfaces.	127464
L2VPN	L2VPN vlan-based and L2 circuit with QinQ enabled in the same interface access does not work.	-
L2VPN	The Backup PW uses the PW Status TLV to signal the main and backup PW information, for this reason it is necessary that neighbors have support for PW Status TLV and this TLV is enabled in L2VPN.	144471
L3VPN	When a VRF interface is specified as a ping source, the IP address used as the source of the packet it not necessarily the address of the interface. The source interface will only specify in which VRF the ping will be executed.	-
L3VPN	It is not possible to change VRF name of an existing BGP instance.	113503
L3VPN	It is not possible to PING L3VPN PEs using 6VPE.	145924

Feature	Description	ID
L3VPN	Remove VPNv6 address family from BGP affects the functioning of VPNv4 address family. To workaround it is necessary remove BGP <i>no bgp</i> and configure BGP again.	146416
L3VPN	Remove IPv6 VRF IPv6 from router BGP affects the functioning of all IPv6 L3VPNs (6VPE). To workaround it is necessary remove BGP <i>no bgp</i> and configure BGP again.	149775
MAC Addresses	The show mac-address-table command presents invalid parameters in autocomplete of CLI.	91495
MAC Addresses	The show mac-address-table type static command shows all entries of MAC table.	91496
MAC Addresses	The repeat option was removed from show mac-address-table command due high CPU utilization.	140053
OSPF	It's not possible show details of a specific OSPF neighbor. Through of show ip ospf neighbor detail command, it is possible to check all neighbors simultaneously.	91647
OSPF	If OSPF configuration was removed and reinserted with area index changed in a single commit, it is need to reinserted the L3 interface in OSPF configuration.	96565
OSPF	OSPF adjacencies in the same physical port cannot have different passwords.	-
OSPF	In a equipment with VRF leaking and redistribute BGP in OSPF, it is not possible ping directly connected addresses.	123157
QoS - Policer	Policer egress counters do not work when there is an user-defined counter in the same VLAN.	-
PBR	It does not support PBR with ECMP.	138443
Ping	Ping does not for work for local address destination when it is specified a source address.	105307
Ping	The address specified by the source parameter in the ping command is not respected when in VRFs.	120791
Radius	RADIUS authentication for IPv6 management is not supported.	F1618
RDM	After removing the RDM configuration from a slave equipment that had already established connection with a master RDM, show commands will keep displaying RDM informations that are not in the configuration anymore.	126618
RSVP	Tunnel establishment is supported only in the same OSPF area (intra-area).	-
RSVP	<i>Fast Reroute</i> and bandwidth reservation are not supported.	-

Feature	Description	ID
SCP - Passwords	When the password has special characters, you must enter the password in single quotation marks (') or use the wizard mode (enter the command without entering the password parameter so it will be prompted and then no quotation marks are needed).	-
Sensors	Possibility of error log from sensors of equipment.	117219
SNMP	When configuring a L3 interface in VRF with <i>snmp agent listen</i> , it is possible which is allowed SNMP get using the loopback IP address if is configured in the same VRF of L3 interface.	-
SNMP	When configuring SNMP agent listen with loopback interface, the reply will be done with the loopback IP address and does not with the L3 interface IP address on which packet was sent.	-
SNMP	To get SNMP objects using IP address in VRFs it is necessary configure the <i>snmp agent listen interface</i> . If is not configured, the equipment will be reply using the global routing table if exists route in this table.	-
SNMP	If SNMP agent listen was configured in a L3/loopback interface and the IP/VRF configuration of this interface was changed, the SNMP get would not work. To workaround this issue it is necessary configure the interface before adding interface in SNMP agent listen.	125267
SNTP	Packet from SNTP SNTP server version 4 or earlier are discarded.	124339
SSH	It's possible occurs Error: application timeout message when to try generate SSH key. On retry the problem will not occur.	-
Switching	There is no support to TPID configuration.	-
Switching	The user cannot configure tagged or untagged members in VLAN ranges in a one-line CLI command.	-
Switching	Many time necessary for manipulation, show and commit of large amount of VLAN.	91367 99040 116112 116179 116724
Syslog	Possibility of coredumps when performing load override command for load some specific configuration.	117306
Syslog	Modification in I3 interfaces used for reaching the syslog server may cause the syslog server not to work. As a workaround, it is needed to remove the syslog configuration, commit it and configured it again.	127781

Feature	Description	ID
TACACS+	TACACS+ authentication for IPv6 management is not supported.	F1620
TACACS+	Command with more than 243 characters are not sent to the accounting server.	111614
TACACS+	Commands may not be registered in the accounting server when the command is executed and the user immediately logs out.	-
TACACS+	ERROR message generated in log when applying configuration of Banner using the multiline mode.	111616
TACACS+	Commanded reject by TACACS+ server are being registered in the accounting log.	122945
Transceivers	Order of transceivers is not displayed in ascending order on command show interface transceivers .	99257
Transceivers	Only are supported 100 Mbps optical transceivers in forced mode and only in GX interfaces.	-
Transceivers	Log of link UP is generated whenever an SFP Copper is inserted even without physical cable.	94344
Transceivers	Transceiver inventory informations are shown duplicated in DmView.	126537
Transceivers	Electrical transceiver negotiated in half-duplex shows full-duplex in DmOS.	US93493
xSTP	RSTP does not work if dot1q is not configured.	88154
xSTP	There is no support to BPDU options like: BPDU Guard and BPDU Filter.	F1131
xSTP	STP does not work with EAPS configured in the same interface.	-

4.3 Hardware Platforms Restrictions

DmOS has the following restrictions for affected platform:

Feature	Description	ID	Affected Platforms
ACL	ACL action of PCP set is not being performed when QinQ is configure an interface.	112774	DM4270
BFD	It does not support BFD.	-	DM4050, DM4250, DM461x
Interfaces	The MDIX works in reverse in interfaces gigabit-ethernet 1/1/1, 1/1/5, 1/1/9, 1/1/14, 1/1/17 e 1/1/21 if it is configured as forced. MDIX works as expected when in automatic mode.	93744	DM4050, DM4250

Feature	Description	ID	Affected Platforms
Interfaces	The MTU value in GT and GX interfaces is actually 4 bytes smaller than the configured value when the interface is untagged.	-	DM4050, DM4250
L2CP	L2 PDUs transparency in TLS services (service vlan type TLS) is enabled without the possibility of changing this behavior. For 1:1 and N:1 services (service vlan type 1:1 or n:1), L2 PDUs transparency is intrinsically disabled.	-	DM461x
L2VPN	MAC address limit is not supported in VPLS.	-	DM4270, DM4380, DM4775
LAG	Dynamic load-balancing (DLB) mode is not supported.	-	DM4360, DM4370, DM4611, DM4612
LAG	Equipment that do not support MPLS on the chipset do not consider MPLS labels on the traffic balancing.	-	DM4050, DM4250
Management Out-Band	It does not support 10Mbps in MGMT interface. For correct operation, 100 Mbps speed or higher must be used.	-	DM4050, DM4250
MPLS	It does not support MPLS.	-	DM4610- HW1, DM4611, DM4612
MPLS	To work the PDUs encapsulation in L2VPNs it is necessary to remove the remote-devices feature that is enabled in the default configuration. <i>configure; no remote-devices; commit.</i>	-	DM4360, DM4370
PBR	It does not support Policy Based Routing (PBR).	-	DM4360, DM4370, DM4611, DM4612
HQoS	It does not support Hierarchical Quality of Service (HQoS).	-	DM4170, DM4270, DM4380, DM4770
QoS - Policer	The ingress Policer matching filters do not consider possible packet modifications due to ACLs rules.	-	DM4050, DM4250

Feature	Description	ID	Affected Platforms
QoS - Policer	ARP Request packets can be dropped by the Ingress Policers.	-	DM4050, DM4250
QoS - Policer	Drop counters in egress stage policers are not supported in DM461x platforms.	-	DM461x
QoS - Policer	Packets discarded by egress policers are not incremented in user-defined egress counters in DM461x platform.	-	DM461x
QoS - Policer	Egress Policer does not limit the packets by VLAN on an untagged interfaces.	-	DM4270, DM4380, DM4775
QoS - Scheduler	The weights configured in a QoS Scheduler are not respected with average flow lower than 129 Bytes.	-	DM4050, DM4250
QoS	Due to the size of the equipment buffers, the policer/shaper limits traffic below the configured value with high rates and TCP flow.	-	ALL
RSVP	It does not support RSVP.	-	DM461x
SNMP	Dying Gasp SNMP traps are not sent for SNMP targets associated to mgmt VRF or user VRFs.	US90189 US90190	DM4360, DM4370
Switching	It does not support in-Band management with a VLAN used in vlan-translate without having QinQ enabled in the interface.	-	DM4270
Switching	Double tagged packets do not add VLAN tag using VLAN mapping if QinQ is not enabled in interface.	-	DM4270, DM4380, DM4770
Switching	It does not support VLAN mapping.	-	DM4611, DM4612
System	It does not support CPU DoS Protect rate limit configuration.	-	DM4050, DM4250
System	In scenarios with a high number of ONUs the CPU can get high usage generating alarm.	148808	DM4610 HW2, DM4611, DM4612
System	The hostname size will be limited in less than 63 characters when the equipment has DHCP Relay L2 enabled and use hostname in circuit-id format.	-	DM461x

Feature	Description	ID	Affected Platforms
Transceivers	When enabling negotiation in 10G interface the link will transition from UP to DOWN and then returning to UP, remaining stable.	116953	DM4050, DM4250
Transceivers	Removal of a SFP and insertion of another one in an interface may not be identified if it is performed in less than 3 seconds.	109496	DM4170
Transceivers	The GX interfaces of DM4610 platform do not support Copper SFPs at speeds of 10 and 100 Mbps. Some models of Copper SFPs can operate at speeds of 1 Gbps, but are not homologated by DATACOM.	-	DM461x
Transceivers	The 10 Gbps interfaces do not support autonegotiation.	-	DM4270 48XS
Transceivers	The 25 Gbps interfaces do not support autonegotiation.	-	DM4770 16CX
Transceivers	Changing the DWDM configuration parameters causes the interface to go down and back to up after a few seconds.	149861	DM4770 16CX
TWAMP	It does not support TWAMP.	-	DM461x
VRF	It does not support VRF.	-	DM4050, DM461x

5 Document Versions

The following table lists all documents for DmOS products. DATACOM do not recommend the usage of previous versions.

5.1 Software Platform

Document	Version
DmOS - Troubleshooting Guide	204.4293.19
DmOS - Quick Configuration Guide	204.4292.27
DmOS - Command Reference	204.4284.35
DmOS - Datasheet	134.4918.16

5.2 Hardware Platform

Document	Version
DM4050 - Installation Guide	204.4317.03
DM4170 - Installation Guide	204.4308.05
DM4250 - Installation Guide	204.4312.01
DM4270 - Installation Guide	204.4331.07
DM4360 - Installation Guide	204.4337.01
DM4370 - Installation Guide	204.4314.02
DM4380 - Installation Guide	204.4336.00
DM4610 - Installation Guide	204.4291.04
DM4611 - Installation Guide	204.4349.01
DM4612 - Installation Guide	204.4350.01
DM4615 - Installation Guide	204.4323.03
DM4770 - Installation Guide	204.4339.10
DM4775 - Installation Guide (Portuguese only)	204.0337.00

Legal Note

In spite the fact that all the precautions were taken in development of the present document, DATACOM shall not be held responsible for eventual errors or omissions as well as no obligation is assumed due to damages resulting from the use of the information included in this guide. The specifications provided in this manual shall be subject to changes with no prior notification and are not acknowledged as any type of contract.

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DATACOM's products are covered by a warranty against manufacturing defects during a minimum period of 12 (twelve) months including the legal term of 90 days, as from the date of issue of the supply Nota Fiscal (Invoice).

Our warranty is standard counter warranty, this means, for exercise of the warranty, the customer should send the product to DATACOM Authorized Technical Assistance with paid freight. The return freight of the equipment will be DATACOM responsibility.

To obtain additional information, see our warranty policy in <https://www.datacom.com.br/en>.

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