DATACOM

DmOS

DATACOM OPERATING SYSTEM

Version 5.12.0

RELEASE NOTES

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.
Object	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	5.12.0

⚠️ **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 5.12.0 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
DM4610 OLT 8GPON+8GX+4GT+2XS	800.5081.03	1.4.0	9.7
DM4610 OLT 4GPON+4GX+2XS (HW2)	800.5193.01	2.4.0	10.0
DM4610 OLT 8GPON+8GX+4GT+2XS (HW2)	800.5165.01	2.2.0	10.0

Product	Hardware Version	Software Version	DmView Version
DM4615 OLT 16GPON+4GT+4XS	800.5198.01	4.2.0	10.1
DM4170 24GX+4XS+2QX	800.5184.01	3.0.0	10.0
DM4170 24GX+12XS	800.5186.01	2.2.0	10.0
DM4360 4GT+4GX	800.5259.50	4.10.0	10.0
DM4370 4GT+4GX+4XS	800.5191.00	3.0.0	10.0
DM4380 12XS+3CX	800.5258.00	5.0.0	10.3
DM4050 24GT+6XS	800.5189.00	2.2.0	10.0
DM4050 24GX+6XS	800.5190.00	2.2.0	10.0
DM4250 24XS+2QX	800.5197.02	4.0.0	10.1
DM4270 24XS+2CX	800.5231.53	4.7.0	10.3
DM4270 48XS+6CX	800.5213.53	4.9.0	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 itens - 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 **DM461x** platforms, the DmOS has the following compatibility matrix:

Platform	Initial Version	Mandatory Intermediate Versions				Final Version
DM461X	1.8.0 or lower	1.8.2	2.2.2	3.0.4	4.0.2	5.12.0
DM461X	1.8.2 to 2.0.4		2.2.2	3.0.4	4.0.2	5.12.0
DM461X	2.2.2 to 3.0.2	-	-	3.0.4	4.0.2	5.12.0
DM461X	3.0.4 to 4.0.0	-	-	-	4.0.2	5.12.0

Platform	Initial Version	Mandatory Intermediate Versions				Final Version
DM461X	4.0.2 or higher	-	-	-	-	5.12.0

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	5.12.0
DM4050	2.2.2	-	3.0.4	4.6.2	5.12.0
DM4050	3.0.4 or higher	-	-	4.6.2	5.12.0
DM4050	4.6.2 or higher	-	-	-	5.12.0

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	5.12.0
DM4170	2.2.2	-	3.0.4	4.6.2	5.12.0
DM4170	3.0.4 or higher	-	-	4.6.2	5.12.0
DM4170	4.6.2 or higher	-	-	-	5.12.0

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

Platform	Initial Version	Mandatory Intermediate Versions	Final Version
DM4360	4.10.0	-	5.12.0

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	5.12.0
DM4370	3.0.4 or higher	-	4.6.2	5.12.0
DM4370	4.6.2 or higher	-	-	5.12.0

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

Platform	Initial Version	Mandatory Intermediate Versions	Final Version
DM4380	5.0.0	-	5.12.0

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	5.12.0
DM4250	4.6.2 or higher	-	5.12.0

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	-	5.12.0

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	-	5.12.0

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

Platform	Initial Version	Mandatory Intermediate Versions	Final Version
DM4770	5.8.0 or higher	-	5.12.0

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 **377.7000.01** DATACOM code. DATACOM does not guarantee compatibility with other modules. Contact us for more information.

Product Line	Software Version
DM4610	2.2.0
DM4170	2.2.0
DM4050	2.2.0
DM4360	4.10.0
DM4370	3.0.0
DM4380	5.0.0
DM4250	4.8.0
DM4270 24XS+2CX	4.8.0
DM4270 48XS+6CX	5.0.0 (forced only[1])
DM4770	5.8.0
DM4775	4.9.0

⚠️ [1] **DM4270 48XS+6CX** doesn't support negotiation on ten-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.

Sofware 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
GPON	Support to interoperability with the ONU Ubiquiti UFiber loco in DM461X platforms.
L2VPN	Support to selective encapsulation in VPWS.
L2VPN	Support to untagged flows in selective encapsulation in VPLS.
L2VPN	Support to EXP classification using PCP from packets.
Platform	Support to DM4270 24XS operation mode up to three 100 Gbps ports.
RSVP	Support to Juniper bandwidth LSPs interoperability including auto bandwidth LSPs.
RSVP	Support to interoperability with Mikrotik.
SNMP	Support to configure Traps: config-commit, cpu-core, cpu-load, login-fail, and login-success.
System	Support to CPU DoS protect configuration and counters per protocol on all platforms except DM4050 and DM4250.

3.2 Enhancements

Feature	Description	ID
GPON	Support to GEM port counters in CLI.	EP-442
OSPF	Suppor to increase OSPF adjacency scalability in DM4770 platform.	EP-454
Syslog	Support to change default port for Syslog service.	EP-447
Telnet	Support to change default port for Telnet service.	EP-456

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
ACL	ACL for CPU protection discards DLF, Broadcast and Multicast packets even the packets are not sent to CPU affecting L2 services incorrectly.	139171
CLI	Users from config group can do *reboot* command.	138990
Interfaces	Flow control is enabled after change speed configuration in DM4270, DM4380 and DM4770 platforms.	136110
L2VPN	PPPoE packets are not forwarded through VPLS in DM461X platforms.	126937
MPLS	When enabling the sending of TE LSAs using the command *mpls-te router-id <loopback-id>* in OSPF, the OSPF session with Mikrotik is flapping. This problem occurs due to a failure in the treatment of type 9 LSAs sent by DmOS. These LSAs are not used at the moment for MPLS TE, but they were enabled for sending in DmOS.	139173
RSVP	It does not support LSPs with Mikrotik when is in LSR.	140499
System	High CPU usage by GZIP process.	139692

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
Banner	On banner configuration, the \ character (backslash) operates as an escape character. To display this character, you must insert two backslash (\\).	-

Feature	Description	ID
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	Communitication 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
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 Autoprovisioning	Alarm of autoprovisioning may get stuck under some configuration conditions of GPON interface.	99261
GPON Autoprovisioning	Automatic deprovisioning of ONUs is not supported.	-
GPON Counters	There is no support to VEIP and GEM counters.	-
GPON Ethernet UNI	ONU profiles do not automatically create the Ethernet interfaces.	-

Feature	Description	ID
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.	121034
GPON PON Interfaces	PONLINK LOS alarm generation eventually fails, whithout 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.	-

Feature	Description	ID
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
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
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.	-

Feature	Description	ID
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.	-
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
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
OSPF	It's not possbile 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 ajacencies in the same physical port cannot have different passwords.	-
OSPF	In a equipmet 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.	-

Feature	Description	ID
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
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	*Fast Reroute* and bandwidth reservation are not supported.	-
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
SNTP	Packet from SNTP SNTP server version 4 or earlier are discarded.	124339
SSH	It's possible ocurrs **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 l3 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
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

Feature	Description	ID
TACACS+	Commands may not be registered in the accounting server when the command is executed and the user immediatelly 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 tranceivers 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
TWAMP	Coherence messages of TWAMP configuration do not display full information.	116188
VRF	SNTP and Syslog services are not supported in VRFs.	M1264
VRF	The address specified by the source parameter in the ping command is not respected when in VRFs.	120791
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.	F497 F898 F897 F1619
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

Feature	Description	ID	Affected Platforms
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
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 mode is not supported.	-	DM4360, DM4370
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
PBR	It does not support Policy Based Routing (PBR).	-	DM4360, DM4370
QoS - Policer	The ingress Policer matching filters do not consider possible packet modifications due to ACLs rules.	-	DM4050, DM4250
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

Feature	Description	ID	Affected Platforms
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
System	It does not support CPU DoS Protect rate limit configuration.	-	DM4050, DM4250
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 XS interfaces do not support autonegotiation.	-	DM4270-48XS
TWAMP	It does not support TWAMP.	-	DM461x
VRF	It does not support VRF.	-	DM4050, DM4250, 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	204.4293.15
DmOS - Quick Configuration Guide	204.4292.23
DmOS - Command Reference	204.4284.31
DmOS - Datasheet	134.4918.12

5.2 Hardware Platform

Document	Version
DM4050 - Installation Guide	204.4281.03
DM4170 - Installation Guide	204.4308.03
DM4250 - Installation Guide	204.4312.01
DM4270 - Installation Guide	204.4331.04
DM4360 - Installation Guide	204.4337.01
DM4370 - Installation Guide	204.4314.02
DM4380 - Installation Guide	204.4336.00
DM4610 - Installation Guide	204.4291.04
DM4615 - Installation Guide	204.4323.03
DM4770 - Installation Guide	204.4339.04
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.

Warranty

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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