

# DATACOM



**DmOS**

DATACOM OPERATING SYSTEM

Version 8.0.2

RELEASE NOTES

204.4295.55 - July 11, 2022

## 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.  |
| <b>Menu &gt; Path</b> | 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 |
|---|---------|
| Unable to load configuration XML files with dot1q that were saved DmOS versions before 8.0.0. Text mode config files works perfectly. In case you need to load an xml file that contains vlan config, you will need edit the xml file changing from <i>urn:dmos:dmos-dot1q</i> to <i>http://tail-f.com/ns/dmvlan-manager</i> .  | All     |
| 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    | 8.0.2           |



**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 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 8.0.2 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           |
| DM4370 4GT+4GX+4XS+SAT             | 800.5273.53                | 7.4.0            | 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           |
| DM4618 OLT 32GPON                  | 800.5275.51                | 8.0.0            | 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<br>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 | 8.0.2         |
| DM4050   | 2.2.2           | -                               | 3.0.4 | 4.6.2 | 8.0.2         |
| DM4050   | 3.0.4 or higher | -                               | -     | 4.6.2 | 8.0.2         |
| DM4050   | 4.6.2 or higher | -                               | -     | -     | 8.0.2         |

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 | 8.0.2         |
| DM4170   | 2.2.2           | -                               | 3.0.4 | 4.6.2 | 8.0.2         |
| DM4170   | 3.0.4 or higher | -                               | -     | 4.6.2 | 8.0.2         |
| DM4170   | 4.6.2 or higher | -                               | -     | -     | 8.0.2         |

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                           |  |  | 8.0.2         |
| DM4250   | 4.6.2 or higher | -                               |  |  | 8.0.2         |

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 | -                               |  |  | 8.0.2         |

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 | -                               |  |  | 8.0.2         |

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

| Platform | Initial Version  | Mandatory Intermediate Versions |  |  | Final Version |
|----------|------------------|---------------------------------|--|--|---------------|
| DM4360   | 4.10.0 or higher | -                               |  |  | 8.0.2         |

For **DM4370 4GT+4GX+4XS** 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 |  | 8.0.2         |
| DM4370   | 3.0.4 or higher | -                               | 4.6.2 |  | 8.0.2         |
| DM4370   | 4.6.2 or higher | -                               | -     |  | 8.0.2         |

For **DM4370 4GT+4GX+4XS+SAT** platform, DmOS has the following compatibility matrix:

| Platform   | Initial Version | Mandatory Intermediate Versions |  |  | Final Version |
|------------|-----------------|---------------------------------|--|--|---------------|
| DM4370 SAT | 7.4.0 or higher | -                               |  |  | 8.0.2         |

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

| Platform | Initial Version | Mandatory Intermediate Versions |  |  | Final Version |
|----------|-----------------|---------------------------------|--|--|---------------|
| DM4380   | 5.0.0 or higher | -                               |  |  | 8.0.2         |

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 | 8.0.2         |
| DM4610 HW2 | 1.8.2 to 2.0.4  | -                               | 2.2.2 | 3.0.4 | 4.0.2 | 8.0.2         |
| DM4610 HW2 | 2.2.2 to 3.0.2  | -                               | -     | 3.0.4 | 4.0.2 | 8.0.2         |
| DM4610 HW2 | 3.0.4 to 4.0.0  | -                               | -     | -     | 4.0.2 | 8.0.2         |
| DM4610 HW2 | 4.0.2 or higher | -                               | -     | -     | -     | 8.0.2         |

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 | -                               | 8.0.2         |

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

| Platform | Initial Version | Mandatory Intermediate Versions | Final Version |
|----------|-----------------|---------------------------------|---------------|
| DM4615   | 4.0.0 or higher | -                               | 8.0.2         |

For **DM4618** platform, the DmOS has the following compatibility matrix:

| Platform | Initial Version | Mandatory Intermediate Versions | Final Version |
|----------|-----------------|---------------------------------|---------------|
| DM4618   | 8.0.0 or higher | -                               | 8.0.2         |

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 | -                               | 8.0.2         |

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 | -                               | 8.0.2         |

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 <sup>1</sup> ) |
| 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                             |
| DM4618 OLT 32GPON | 8.0.0                             |
| DM4770 16CX       | 6.0.0 (forced only <sup>1</sup> ) |
| DM4770 32CX       | 5.8.0                             |
| DM4775            | 4.9.0                             |



<sup>1</sup> **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          |
| 1.10.0           | 1.0.2j          |
| 1.12.0           | 1.0.2k          |
| 2.4.0            | 1.0.2l          |
| 4.0.0            | 1.0.2o          |
| 4.9.0            | 1.0.2r          |
| 5.0.0            | 1.0.2t          |
| 8.0.0            | 1.0.2u          |

## 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  |
|------------------------|--|
| <b>DHCPv6 Relay L2</b> | Support to DHCPv6 Relay L2 relay agent on GPON platforms.                              |
| <b>DHCPv4 Relay L3</b> | Support to DHCPv4 Relay L3 in VRF.   |
| <b>L2VPN</b>           | Support to more than 8 VLAN ranges in QinQ L2VPN.                                      |
| <b>PPPoE</b>           | Support to circuit-id configuration in PPPoE on GPON platforms.                        |
| <b>SNMP</b>            | Support to ifNumber object in SNMP. There is a restriction that LAG is not considered. |

### 3.2 Enhancements

| Feature          | Description   | ID   |
|------------------|---|--|
| <b>L2VPN</b>     | Increase number of VPLS neighbors from 16 to 32. <b>Feature is under development and for this reason we do not recommend use it in a production environment.</b>  | F1194  |
| <b>Switching</b> | Take a long time to do show, commit and save of large amount of VLAN. This enhancement is not valid for configuration with LAG. Was kept the restriction in this document because the times are not considered ideal. | 91367<br>99040<br>116112<br>116179<br>116724 |

### 3.3 Changes in protocols management

| Feature        | Description  | ID |
|----------------|--|----|
| <b>Netconf</b> | Was changed xmlns in dot1q used to set the configuration from <i>urn:dmos:dmos-dot1q</i> to <i>http://tail-f.com/ns/dmvlan-manager</i> . | -  |

## 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     |
|--------------------------|--|--------|
| <b>AAA</b>               | SNTP and hostname configuration was available in config user group.  | 135215 |
| <b>Backup-link</b>       | In some cases the command <i>show backup-link</i> in revertive mode shows incorrect value in revert time field called revert (sec).  | 153955 |
| <b>BGP</b>               | Establishment of BGP sessions may cause reboot of the equipment.   | 157517 |
| <b>CLI</b>               | The <b>compare file</b> command returns error when device has active license.  | 113068 |
| <b>DHCP Relay L2</b>     | DHCPv6 relay l2 does not process DHCPv6 IA_PD packets used in prefix delegation.   | 161378 |
| <b>GPON</b>              | On the DM4618 platform when a PPPoE session change to down all the clients that are on the same service port stop working.   | 162908 |
| <b>GPON</b>              | Improved commit time when provisioning ONUs in an OLT that already has ONUs provisioned.   | F1797  |
| <b>GPON</b>              | Removing a service port with TLS service vlan cause other TLS services port to stop working.   | 162119 |
| <b>GPON</b>              | ipv4-all anti spoofing configuration remove ipv6-all if configured causing anti spoofing only accepts DHCPv4 packets.  | 162581 |
| <b>GPON</b>              | IP assign with DHCP relay L2 and N:1 service vlan does not work when ONU does not have a name configured.  | 150116 |
| <b>GPON</b>              | DM4611 and DM4612 platforms allow more entries than supported by chipset.  | 154562 |
| <b>GPON</b>              | Gem-traffic-profile does not apply traffic limit in downstream for DM986-100 ONU with HGU firmware.  | 154872 |
| <b>GPON</b>              | In some cases when the OLT has multicast configured, a core-dump could occur on olt.out causing the GPON services to stop. To return to normal operation it is necessary reboot the OLT. | 157275 |
| <b>GPON Service-Port</b> | Traffic of TLS VLANs is sent to uplink. This traffic instead was sent only to ONUs, it will be sent to uplink in the same VLAN. This problem occurs only in DM4618 platform.             | 159467 |

| Feature             | Description   | ID     |
|---------------------|---|--------|
| <b>IP Routing</b>   | Problem to form OSPF adjacencies with I3 interfaces that use MTU greater than 9000 bytes.   | 163305 |
| <b>QoS</b>          | Depending on the value configured in the WFQ queue it was not applied on the chipset.   | 157242 |
| <b>SSH client</b>   | It was not possible to connect via SSH client on some devices using old SSL versions. Added a legacy parameter in the SSH client for these cases.   | 152589 |
| <b>System</b>       | In some cases there may be a core-dump in the login process causing crash in telnet. To get back to normal operation, it is necessary to reboot the affected equipment.   | 160841 |
| <b>System</b>       | The automatic firmware rollback mechanism implemented in DmOS firmware activate in case of a system boot failure did not return to the previous firmware. In this situation the equipment trying to boot the system and restarting forever. | 161171 |
| <b>System</b>       | Performance problem when receive many ARP and ICMPv6 packets could generate a core-dump in hal_cpu_pkt_rx or neigh-app process.   | 160142 |
| <b>Transceivers</b> | Memory leak in metaswitch-app process when run <i>show interface transceivers digital-diagnostics   display json</i> command.   | 161564 |
| <b>VRF</b>          | Core-dump in vrf-app process when configure VRF to maximum size. A commit validation was created when configuring RD to block VRF with 32 characters.   | 160955 |

## 4.2 DmOS Software Restrictions

| Feature               | Description   | ID     |
|-----------------------|---|--------|
| <b>ACL</b>            | There is no support to access list in service-ports, only in PON links.   | -      |
| <b>ACL</b>            | Broadcast and DLF traffic will be forwarded to CPU even when there is an ACL blocking it.   | 122376 |
| <b>Aging Time</b>     | There is no support to aging time configuration per interface, VLAN ID , Routed-MACs or specific MAC addresses.   | -      |
| <b>Assistant-task</b> | If there is a <b>show</b> command in the script, the next commands are not executed.  | 121680 |
| <b>Assistant-task</b> | If script was created in Windows which use CRLF format, even DmOS converts to Unix format when import the file, the last command can not run. As workaround it is possible adding ! character in the end of file. | -      |
| <b>Banner</b>         | On banner configuration, the \ character (backslash) operates as an escape character. To display this character, you must insert two backslash (\\).  | -      |
| <b>BFD</b>            | BFD sessions are not shown in DmView.   | 127350 |



| Feature                | Description   | ID     |
|------------------------|---|--------|
| <b>BGP</b>             | In BGP neighbors BGP with same IP address, in distinct VRF, it is not possible configure different passwords to the same neighbors.   | -      |
| <b>BGP</b>             | Autocomplete does not work for <b>show ip bgp vrf neighbor</b> command.   | 114292 |
| <b>BGP</b>             | Possibility of coredump if user to run commands immediately after booting the system.   | 113454 |
| <b>Booting Process</b> | During the initialization of equipment, if a commit is executed, it might show the "Database is Locked" message until all modules are applied   | -      |
| <b>CFM</b>             | When adding a interface that blocked by CFM to a LAG that is also blocked by CFM, it can be unblocked.  | 124046 |
| <b>CFM</b>             | Communication between MEPs may not work, being necessary to remove the CFM configuration and reapply it.  | 119632 |
| <b>CLI</b>             | "show" and "commit" commands may fail if executed shortly after booting the system due of software modules initialization.  | 116417 |
| <b>CLI</b>             | <b>show configuration diff</b> command can crash requiring the user execute a CTRL+C to return to the CLI.  | -      |
| <b>CLI</b>             | The <b>select</b> option of CLI filter does not work for some commands.   | 95478  |
| <b>Dot1q</b>           | Interfaces after dot1q refactoring are in alphabetical order and not in numerical order in the <i>show running-config</i> command.  | 159954 |
| <b>DHCPv4 Relay L3</b> | It does not support IP address assignment on networks belong of L3 interfaces secondary address.  | -      |
| <b>DHCPv4 Relay L3</b> | Despite being allowed in the CLI, DHCPv4 relay configuration is not supported in a VRF with interfaces associated with other VRFs.  | 159921 |
| <b>DHCPv6 Relay L3</b> | It does no support DHCPv6 Relay L3.   | -      |
| <b>DmView</b>          | Status of some protocols are not shown in DmView (Info/Config).   | 90961  |
| <b>DmView</b>          | Configuration displayed in view backup shows fields with single quotes instead of double quotes making it impossible copy and paste in DmOS CLI.  | 149366 |
| <b>EAPS</b>            | In some cases EAPS fails sporadically. This issue will not generate loop in traffic. To workaround it is necessary to change the failtime to a value greater than 3 seconds which is default value.                                   | 161438 |
| <b>EAPS</b>            | 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  |
| <b>EAPS</b>            | It is not recommended using more than 8 EAPS instances in the same ring.  | -      |

| Feature                      | Description   | ID    |
|------------------------------|---|-------|
| <b>EAPS/ERPS</b>             | To have commuting times of about 50 ms with protocols ERPS and EAPS, it should be used at most 4 instances in the same ring.  | -     |
| <b>ERPS</b>                  | ERPS shows do not show correctly information in case of nbase-stub process restarts. To solve this it is necessary reboot the equipment.  | -     |
| <b>GPON Autoprovisioning</b> | Alarm of autoprovisioning may get stuck under some configuration conditions of GPON interface.  | 99261 |
| <b>GPON Autoprovisioning</b> | Automatic deprovisioning of ONUs is not supported.  | -     |
| <b>GPON Counters</b>         | There is no support to VEIP counters.   | -     |
| <b>GPON Ethernet UNI</b>     | ONU profiles do not automatically create the Ethernet interfaces.   | -     |
| <b>GPON Firmware Update</b>  | 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. | -     |
| <b>GPON Flood Blocking</b>   | Support to flood blocking only in Service-VLAN type N:1.  | -     |
| <b>GPON IP Spoofing</b>      | There is no support to disabling the IP Spoofing mechanism in GPON interfaces.  | -     |
| <b>GPON IP Spoofing</b>      | Double tag traffic will only work with allowed ip all rule applied to the service-port.   | -     |
| <b>GPON IP Spoofing</b>      | DHCP client negotiates and receives IP address, however, the rule is not created in allowed IP list because all filters are used in equipment.  | -     |
| <b>GPON Multicast</b>        | IGMP is only possible in N:1 VLAN type.   | -     |
| <b>GPON MPLS</b>             | VPWS port-based with Ethernet loop as access interface does not pass traffic.   | -     |
| <b>GPON MPLS</b>             | PPPoE and DHCP circuit information is not sent over L2VPN with service-port access.   | F1789 |
| <b>GPON ONU</b>              | interoperability with D-LINK ONU in bridge mode (DPN-1452DG).   | F1841 |

| Feature                    | Description  | ID     |
|----------------------------|--|--------|
| <b>GPON ONU</b>            | Possibility of error like <b>Restarting CLI</b> when executing "shutdown" followed by "commit" in a UNI interface of ONU.  | 87508  |
| <b>GPON ONU</b>            | 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 |
| <b>GPON ONU</b>            | Dying Gasp is not supported for ONU SFP TEO-GNUK-S20B.   |        |
| <b>GPON ONU SNMP</b>       | Monitoring of Ethernet ports ONU traffic by SNMP with flow greater than 38 Mbps does not work properly.  | -      |
| <b>GPON ONU Status</b>     | ONU Uptime is only updated every 5 minutes.  | -      |
| <b>GPON ONU Status</b>     | Rx/TX power is only updated if the difference is upper than 0.2 dbm.   | -      |
| <b>GPON ONU Status</b>     | <i>onu-force-status-update</i> command can not be show any update if no status has been updated and you only have uptime to update. The uptime update will not be forced.  | -      |
| <b>GPON PON Interfaces</b> | It is not possible to execute some commands of GPON when using a range of GPON interfaces.   | 102236 |
| <b>GPON PON Interfaces</b> | 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. | -      |
| <b>GPON PON Interfaces</b> | In scenarios with a high number of ONUs to PON change to UP sometimes is necessary remove/insert the transceiver of fiber.   | 161442 |
| <b>GPON POTS</b>           | There is no support to shutdown POTS UNI interface.  | -      |
| <b>GPON POTS</b>           | It is not supported the ! character in sip-user-agent password command.  | -      |
| <b>GPON Service-Port</b>   | 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.   | -      |
| <b>GPON SIP Profile</b>    | There is no support to Call ID and Call forwarding configuration.  | -      |

| Feature                     | Description  | ID             |
|-----------------------------|--|----------------|
| <b>GPON<br/>SIP Profile</b> | SIP server port is fixed as 5060.  | -              |
| <b>GPON<br/>SIP Profile</b> | 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         |
| <b>GPON<br/>SNMP</b>        | Poor performance in GEM counters by SNMP.  | 144319         |
| <b>Interfaces</b>           | Commit warnings are not generated if changes are made to a range of interfaces rather than a specific interface.   | 99138          |
| <b>Interfaces</b>           | 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.   | -              |
| <b>IP Routing</b>           | Poor performance in convergence time when equipment have many prefixes.  | 158948         |
| <b>IP Routing</b>           | Hosts system can cause DoS in the equipment if a host is not available and has a lot of traffic destined for this host.  | 145800         |
| <b>IP Routing</b>           | Poor performance in <i>show ip route</i> , <i>show ipv6 route</i> , <i>show ip fib brief</i> , <i>show ipv6 fib brief</i> and <i>show ip bgp prefixes</i> commands when equipment have many prefixes.  | 158636         |
| <b>IP Routing</b>           | Commands that show prefixes can break prefixes in a way that make it difficult to understand, automating commands in the CLI and making it impossible to use of filters present in the CLI.  | 160959         |
| <b>IP Routing</b>           | 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<br>M1254 |
| <b>IP Routing</b>           | If the equipment receives an ARP on an L3 interface asking for another L3 network and this host is reachable by some interface of this equipment, the equipment insert an entry in the host-table with the interface that the ARP was originated if receives an GARP when host is in failed state. This behavior causes traffic to this host to not be forwarded to the correct interface. | 155887         |
| <b>LAG</b>                  | 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        |
| <b>LAG</b>                  | 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         |
| <b>LDP</b>                  | There are no support to LDP Allocation mode Independent, LDP Encapsulation mode explicit-null, LDP Distribution mode On Demand, LDP Retention mode Conservative.   | -              |

| Feature        | Description   | ID       |
|----------------|---|----------|
| <b>LDP</b>     | It is not possible the change the loopback IP address and enable the LDP protocol in a single commit.   | US89105  |
| <b>LDP</b>     | 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 |
| <b>LDP</b>     | Link session may not go up if neighbor is restarted. To LDP work again it is necessary remove LDP container <i>config; no mpls ldp; commit</i> and configure LDP again <i>config; rollback configuration; commit</i> or restart the affected equipment  | 154505   |
| <b>LLDP</b>    | 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   |
| <b>License</b> | In equipment with MPLS license enabled, it could occur a failure when loading a configuration file with load override.  | 106007   |
| <b>License</b> | 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.  | -        |
| <b>L2VPN</b>   | It is not supported L2VPN configuration in interface which is MPLS access and uplink. Despite the commit being accepted, a warning is generated in this condition <i>Some MPLS VPN's have access and uplink interfaces in common. In this way those access interfaces will not be able to encapsulate MPLS traffic.</i> | 135480   |
| <b>L2VPN</b>   | The <b>show mpls l2vpn counters</b> commands does not support autocomplete of the parameters.   | M841     |
| <b>L2VPN</b>   | The <b>show mpls l2vpn hardware</b> command works only for VPWS.  | US78815  |
| <b>L2VPN</b>   | During traffic convergence in network with interoperability with non Datacom equipment, the pseudowire may fail (L2VPN).  | M1360    |
| <b>L2VPN</b>   | When there is a lag interface with LACP as a VPWS or VPLS access, the VPN counters are incremented by LACP control packets.   | 99727    |
| <b>L2VPN</b>   | 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.   | -        |
| <b>L2VPN</b>   | VPN access interface counters can be incremented even when TX traffic is discarded.   | 121403   |
| <b>L2VPN</b>   | GMRP protocol BPDUs do not pass through VPLS, even with TLS enabled.  | 133639   |
| <b>L2VPN</b>   | Multicast packets encapsulated in L2VPNs are not registered in ingress counters of VPN uplink interfaces.   | 127464   |
| <b>L2VPN</b>   | L2VPN vlan-based and L2 circuit with QinQ enabled in the same interface access does not work.   | -        |

| Feature              | Description   | ID     |
|----------------------|---|--------|
| <b>L2VPN</b>         | 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 |
| <b>L2VPN</b>         | Poor performance in <i>show mpls l2vpn</i> command, configuration GET via netconf, configuration save and configuration commit when equipment have many L2VPNs.   | F1898  |
| <b>L3VPN</b>         | It is not possible to change VRF name of an existing BGP instance.  | 113503 |
| <b>MAC Addresses</b> | The <b>show mac-address-table</b> command presents invalid parameters in autocomplete of CLI.   | 91495  |
| <b>MAC Addresses</b> | The <b>show mac-address-table type static</b> command shows all entries of MAC table.   | 91496  |
| <b>MAC Addresses</b> | The repeat option was removed from <b>show mac-address-table</b> command due high CPU utilization.  | 140053 |
| <b>OSPF</b>          | It's not possible to show details of a specific OSPF neighbor. Through of <b>show ip ospf neighbor detail</b> command, it is possible to check all neighbors simultaneously.  | 91647  |
| <b>OSPF</b>          | 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  |
| <b>OSPF</b>          | OSPF agencies in the same physical port cannot have different passwords.  | -      |
| <b>OSPF</b>          | DmOS chooses inter area path instead of intra area when the equipment receives redistributed routes (external 2) in more than one area.   | 153689 |
| <b>OSPF</b>          | Redistribute static does not announce black-hole prefixes in OSPF.  | 159526 |
| <b>QoS - Policer</b> | Policer egress counters do not work when there is an user-defined counter in the same VLAN.   | -      |
| <b>QoS - Policer</b> | Policer by DSCP does not match if packet have the ECN bit with value different from 0.  | 146120 |
| <b>PBR</b>           | It does not support PBR with ECMP.  | 138443 |
| <b>Ping</b>          | Ping does not for work for local address destination when it is specified a source interface.   | 105307 |
| <b>Ping</b>          | The IP address specified by the source interface parameter in the ping command is not respected when in VRFs.   | 120791 |
| <b>Ping</b>          | Ping does not for work for IPv6 local address destination in VRF.   | 152836 |
| <b>Ping</b>          | 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. | -      |

| Feature                | Description   | ID     |
|------------------------|---|--------|
| <b>Ping</b>            | In an equipment with VRF leaking and redistribute BGP in OSPF, it is not possible ping directly connected addresses.  | 123157 |
| <b>Ping</b>            | Inactive L3 interface continues to respond to ICMP echo request (ping) packets.   | 161120 |
| <b>Radius</b>          | RADIUS authentication for IPv6 management is not supported.   | F1618  |
| <b>RDM</b>             | 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 |
| <b>RSVP</b>            | Tunnel establishment is supported only in the same OSPF area (intra-area).  | -      |
| <b>RSVP</b>            | Tunnels may not go up if the equipment has more than one area configured in the equipment. To solve it is necessary to remove the excess areas and restart the OSPF process using the command <i>clear ospf process &lt;process_id&gt;</i> .          | 160143 |
| <b>RSVP</b>            | Tunnel in headend may not work if OSPF router-id was changed in tailend. Workaround is run <i>clear ospf process</i> command in the tailend equipment.  | 154174 |
| <b>RSVP</b>            | <i>Fast Reroute</i> and bandwidth reservation are not supported.  | -      |
| <b>RSVP</b>            | L2VPN configured with a tunnel that is destined for the wrong equipment causes L2VPN stays UP, but the data will be forwarded to the wrong equipment.   | 149350 |
| <b>RSVP</b>            | LSPs in the LSR shows in the latest log LSP down when other vendors automatically recalculate LSPs when there is a better path to the LSP.  | 162084 |
| <b>RSVP</b>            | Poor performance in <i>show mpls traffic-eng tunnels brief</i> command when equipment have many RSVP LSPs.  | F1899  |
| <b>IP Routing</b>      | Poor performance in convergence time when LSR equipment have many LSPs.   | 153559 |
| <b>RSVP</b>            | MTU configuration in L3 interfaces <i>ip-mtu</i> does not reflect in the RSVP protocol.   | 163335 |
| <b>SCP - Passwords</b> | 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). | -      |
| <b>Sensors</b>         | Possibility of error log from sensors of equipment.   | 117219 |
| <b>SNMP</b>            | 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.   | -      |
| <b>SNMP</b>            | 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.   | -      |

| Feature             | Description  | ID     |
|---------------------|--|--------|
| <b>SNMP</b>         | 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.  | -      |
| <b>SNMP</b>         | 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 |
| <b>SNMP</b>         | The first index of the MIB object ENTITY-MIB::entPhysicalSerialNum does not return the equipment serial number.  | 137978 |
| <b>SNMP</b>         | It is not possible configure the <i>snmp vacm access</i> with global VRF via DmView.   | 151642 |
| <b>SNMP</b>         | sysUpTime object counter is reset if SNMP agent is restarted.  | 161873 |
| <b>SNMP</b>         | ifNumber object counter does not consider Link Aggregation (LAG) interfaces, if user has LAG configured the returned value is incorrect.   | 157931 |
| <b>SNTP</b>         | Packet from SNTP SNTP server version 4 or earlier are discarded.   | 124339 |
| <b>SSH</b>          | It's possible occurs <b>Error: application timeout</b> message when to try generate SSH key. On retry the problem will not occur.  | -      |
| <b>SSH</b>          | It is not possible connect by SSH from Cisco using old IOS version to DmOS even though DmOS has enabled legacy mode in SSH server.   | -      |
| <b>Static Route</b> | Static route next-hop is changed to default gateway if link has down or l3 interface is removed.   | 155978 |
| <b>Static Route</b> | Static routes use administrative distance (AD) instead metric.   | 161961 |
| <b>Static Route</b> | IPv6 static route does not work after recreating associated L3 interface.  | 151481 |
| <b>Switching</b>    | There is no support to TPID configuration.   | -      |
| <b>Switching</b>    | The user cannot configure tagged or untagged members in VLAN ranges in a one-line CLI command.   | -      |
| <b>Switching</b>    | Take a long time to do show, commit, save and netconf of large amount of VLAN.   | -      |
| <b>Syslog</b>       | Possibility of coredumps when performing <b>load override</b> command for load some specific configuration.  | 117306 |
| <b>Syslog</b>       | 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 |
| <b>System</b>       | Although the option appears in the CLI, is not supported utilities after the pipe   in debug commands.   | 134410 |



| Feature             | Description   | ID      |
|---------------------|---|---------|
| <b>TACACS+</b>      | The remote address field is not filled in the authentication and authorization packets with the IP address of the device connecting to the DmOS equipment.                                | 162791  |
| <b>TACACS+</b>      | TACACS+ authentication for IPv6 management is not supported.  | F1620   |
| <b>TACACS+</b>      | Command with more than 243 characters are not sent to the accounting server.  | 111614  |
| <b>TACACS+</b>      | Commands may not be registered in the accounting server when the command is executed and the user immediately logs out.   | -       |
| <b>TACACS+</b>      | ERROR message generated in log when applying configuration of Banner using the multiline mode.  | 111616  |
| <b>TACACS+</b>      | Commanded reject by TACACS+ server are being registered in the accounting log.  | 122945  |
| <b>Traceroute</b>   | Equipment does not show in the traceroute path if does not exist prefix installed in route table.   | 162090  |
| <b>Transceivers</b> | Order of transceivers is not displayed in ascending order on command <b>show interface transceivers</b> .   | 99257   |
| <b>Transceivers</b> | Only are supported 100 Mbps optical transceivers in forced mode and only in GX interfaces.  | -       |
| <b>Transceivers</b> | Log of link UP is generated whenever an SFP Copper is inserted even without physical cable.   | 94344   |
| <b>Transceivers</b> | Transceiver inventory informations are shown duplicated in DmView.  | 126537  |
| <b>Transceivers</b> | Electrical transceiver negotiated in half-duplex shows full-duplex in DmOS.   | US93493 |
| <b>xSTP</b>         | RSTP does not work if dot1q is not configured.  | 88154   |
| <b>xSTP</b>         | There is no support to BPDU options like: BPDU Guard and BPDU Filter.   | F1131   |
| <b>xSTP</b>         | STP does not work with EAPS configured in the same interface.   | -       |
| <b>xSTP</b>         | BPDU are processed and discarded in the CPU instead of being discarded in the chipset, this can generate an overload on the equipment's CPU if a significant amount of BPDUs is received. | 132238  |

### 4.3 Hardware Platforms Restrictions

DmOS has the following restrictions for affected platform:

| Feature    | Description   | ID     | Affected Platforms |
|------------|---|--------|--------------------|
| <b>ACL</b> | ACL action of PCP set is not being performed when QinQ is configure an interface. | 112774 | DM4270             |

| Feature                   | Description   | ID     | Affected Platforms           |
|---------------------------|---|--------|------------------------------|
| <b>Backup-link</b>        | It does not support Backup-link.  | -      | DM4618                       |
| <b>BFD</b>                | It does not support BFD.  | -      | DM4050,<br>DM4250,<br>DM461x |
| <b>GPON ONU Discovery</b> | In scenarios with a high number of ONUs can appear invalid <code>NS show interface gpon discovered-onus</code> command.   | 157545 | DM4615,<br>DM4618            |
| <b>GPON IP Spoofing</b>   | It does not support IP Spoofing in Ethernet interfaces.   | 158599 | DM4618                       |
| <b>GPON L2VPN</b>         | It is not supported QinQ L2VPN with service-port access.  | -      | DM4610-<br>HW2,<br>DM4615    |
| <b>GPON Service-Port</b>  | It does not support interface L3 configuration in the same service port VLAN.   | -      | DM4618                       |
| <b>GPON Service-Port</b>  | In scenarios using a service VLAN with more than one Ethernet interface, even if they are link down, the interfaces will increment their counters.  | 161519 | DM4618                       |
| <b>Interfaces</b>         | It does not support cl108 FEC mode in 25 Gbps interfaces and it is recommended the use of cl74 FEC mode.  | -      | DM4618                       |
| <b>Interfaces</b>         | 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,<br>DM4250            |
| <b>Interfaces</b>         | The MTU value in GT and GX interfaces is actually 4 bytes smaller than the configured value when the interface is untagged.   | -      | DM4050,<br>DM4250            |
| <b>L2CP</b>               | 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                       |
| <b>L2VPN</b>              | MAC address limit is not supported in VPLS.   | -      | DM4270,<br>DM4380,<br>DM4775 |
| <b>LAG</b>                | It is not supported load balancing mode configuration.  | -      | DM4618                       |

| Feature                    | Description   | ID | Affected Platforms                                 |
|----------------------------|---|----|--|
| <b>LAG</b>                 | Dynamic load-balancing (DLB) mode is not supported.   | -  | DM4360,<br>DM4370,<br>DM4611,<br>DM4612,<br>DM4618 |
| <b>LAG</b>                 | Equipment that do not support MPLS on the chipset do not consider MPLS labels on the traffic balancing.   | -  | DM4050,<br>DM4250,<br>DM4618                       |
| <b>Link Flap</b>           | It does not support Link Flap detection feature.  | -  | DM4618   |
| <b>LLDP</b>                | It does not support LLDP.   | -  | DM4618   |
| <b>Management Out-Band</b> | It does not support 10 Mbps in mgmt interface. For correct operation, 100 Mbps speed or higher must be used.  | -  | DM4050,<br>DM4250                                  |
| <b>Management Out-Band</b> | Mgmt interface negotiated in 1 Gbps cause problems in equipment services. As workaround use management via l3 interface.  | -  | DM4050,<br>DM4170,<br>DM4615                       |
| <b>MPLS</b>                | It does not support MPLS.   | -  | DM4610-<br>HW1,<br>DM4611,<br>DM4612,<br>DM4618    |
| <b>MPLS</b>                | To work the PDUs encapsulation in L2VPNs it is necessary to remove the remote-devices feature that is enabled in the default configuration.<br><i>configure; no remote-devices; commit.</i> | -  | DM4360,<br>DM4370                                  |
| <b>Multicast</b>           | It does not support IGMP.   | -  | DM4618   |
| <b>OAM</b>                 | It does not support CFM, Ethernet OAM (EFM) and sFlow.  | -  | DM4618   |
| <b>PBR</b>                 | It does not support Policy Based Routing (PBR).   | -  | DM4360,<br>DM4370,<br>DM4611,<br>DM4612,<br>DM4618 |
| <b>QoS</b>                 | It does not support Quality of Service (QoS).   | -  | DM4618   |

| Feature                | Description   | ID                 | Affected Platforms                                 |
|------------------------|---|--------------------|--|
| <b>HQoS</b>            | It does not support Hierarchical Quality of Service (HQoS).   | -                  | DM4170,<br>DM4270,<br>DM4380,<br>DM4618,<br>DM4770 |
| <b>QoS - Policer</b>   | The ingress Policer matching filters do not consider possible packet modifications due to ACLs rules.                   | -                  | DM4050,<br>DM4250                                  |
| <b>QoS - Policer</b>   | ARP Request packets can be dropped by the Ingress Policers.   | -                  | DM4050,<br>DM4250                                  |
| <b>QoS - Policer</b>   | Drop counters in egress stage policers are not supported in DM461x platforms.   | -                  | DM461x   |
| <b>QoS - Policer</b>   | Packets discarded by egress policers are not incremented in user-defined egress counters in DM461x platform.            | -                  | DM461x   |
| <b>QoS - Policer</b>   | Egress Policer does not limit the packets by VLAN on an untagged interfaces.  | -                  | DM4270,<br>DM4380,<br>DM4775                       |
| <b>QoS - Scheduler</b> | The weights configured in a QoS Scheduler are not respected with average flow lower than 129 Bytes.                     | -                  | DM4050,<br>DM4250                                  |
| <b>RSVP</b>            | It does not support RSVP.   | -                  | DM461x   |
| <b>SNMP</b>            | Dying Gasp SNMP traps are not sent for SNMP targets associated to mgmt VRF or user VRFs.                                | US90189<br>US90190 | DM4360,<br>DM4370                                  |
| <b>SNMP</b>            | ENTITY-MIB returns triplicate slot informations.  | 146733             |  |
|                        | DM4610-HW2, DM4615  |                    |  |
| <b>Switching</b>       | It does not support MAC learning in Ethernet interfaces.  | -                  | DM4618   |
| <b>Switching</b>       | It does not support in-Band management with a VLAN used in vlan-translate without having QinQ enabled in the interface. | -                  | DM4270   |
| <b>Switching</b>       | Double tagged packets do not add VLAN tag using VLAN mapping if QinQ is not enabled in interface.                       | -                  | DM4270,<br>DM4380,<br>DM4770                       |
| <b>Switching</b>       | It does not support VLAN mapping.   | -                  | DM4611,<br>DM4612,<br>DM4618                       |

| Feature             | Description   | ID     | Affected Platforms                             |
|---------------------|---|--------|--|
| <b>Switching</b>    | It does not support STP, EAPS and ERPS.   | -      | DM4618   |
| <b>System</b>       | It does not support CPU DoS Protect rate limit configuration.   | -      | DM4050,<br>DM4250,<br>DM4618                   |
| <b>System</b>       | In scenarios with a high number of ONUs the CPU can get high usage generating alarm.  | 148808 | DM4610<br>HW2,<br>DM4611,<br>DM4612,<br>DM4618 |
| <b>System</b>       | 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   |
| <b>Transceivers</b> | When enabling negotiation in 10 Gbps interface the link will transition from UP to DOWN and then returning to UP, remaining stable.   | 116953 | DM4050,<br>DM4250                              |
| <b>Transceivers</b> | 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   |
| <b>Transceivers</b> | 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   |
| <b>Transceivers</b> | The 10 Gbps interfaces do not support autonegotiation.  | -      | DM4270<br>48XS                                 |
| <b>Transceivers</b> | The 25 Gbps interfaces do not support autonegotiation.  | -      | DM4770<br>16CX,<br>DM4618                      |
| <b>Transceivers</b> | The 100 Gbps interfaces do not support autonegotiation.   | -      | DM4618   |
| <b>TWAMP</b>        | It does not support TWAMP.  | -      | DM461x   |
| <b>VRF</b>          | It does not support VRF.  | -      | DM4050,<br>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     | 204.4293.23 |
| DmOS - Quick Configuration Guide | 204.4292.31 |
| DmOS - Command Reference         | 204.4284.39 |
| DmOS - Datasheet                 | 134.4918.21 |

### 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 |
| DM4618 - Installation Guide                   | 204.4351.00 |
| 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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## 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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