



Enterprise Operating System

Version 09.00.00

Release Notes

P/N 958-000190-900 Rev A

05/05/06

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These release notes describe features, code fixes, and other information for enterprise operating system (E/OS) version 09.00.00.

NOTE: To improve readability, the remainder of this document refers to E/OS 09.00.00 as E/OS 9.0

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Applicable Products

McDATA E/OS firmware version 9.0, part number 515-000010-900, is supported on the following products:

- Intrepid™ 6140 (ED-6140)
- Intrepid 6064 (ED-6064)
- Sphereon™ 3016 (Model 001 and 002)
- Sphereon 3032 (Model 001 and 002)
- Sphereon 3216
- Sphereon 3232
- Sphereon 4300 (first and second-generation)
- Sphereon 4400
- Sphereon 4500 (first and second-generation)
- Sphereon 4700

What's New in this Release

QPM Card for 6140 Director

E/OS 9.0 supports 4G via the QPM (Quad Port Module) card in the McDATA Intrepid 6140 only.

With this feature, McDATA now supports 4G Fibre Channel speeds for directors with storage network management software and hardware.

PFE Feature Bundling and Trial PFE Key Support

E/OS 9.0 has PFE key support for PFE feature bundling as well as trial PFE key support. Trial PFE keys allow a customer to try features for a pre-determined amount of time after which the features are disabled.

Code Fixes and Enhancements

E/OS 9.0 provides code fixes for problem reports (PRs) listed under [*Minor Code Enhancements & Fixes in E/OS 9.0*](#), page 6.

Upgrade and Downgrade Considerations

- Because of the extremely large combinations of fabrics, switches and firmware releases, interoperability of all possible firmware combinations are not tested. Running different versions of firmware within the fabric is allowed during the upgrade process.
- You cannot downgrade Sphereon 4700 or 4400 switches below E/OS 8.x.
- All products must be running E/OS 8.x or higher before upgrading to 9.0. If a product is operating with a firmware level below 7.1, you must upgrade to version 8.x or later version before installing version 9.0.

Upgrades and downgrades are only supported within a functional release, such as 08.xx.xx to/from 08.xx.xx, or from a maximum of one functional release to the next, such as 07.x1.xx to/from 08.xx.xx.

- To downgrade to a release previous to 8.0, you must first downgrade to 08.xx.xx. Downgrading directly from release 9.0 to a release previous to 8.0 is not allowed.
- If you are managing Sphereon 4500 switches with EFCM versions previous to 8.7.1, the firmware upgrade may fail. In such cases, upgrade to EFCM 8.7.1 and then carry out the E/OS 9.0 upgrade.
- For procedures to download firmware to a switch or director using the EFCM Element Manager interface, refer to the following:
 - The switch or director's *Installation and Service Manual*. Refer to Chapter 4 under "Managing Firmware Versions." See [Related Documentation](#), page 11 for a list of manuals and part numbers.
 - The switch or director's *Element Manager Online Help and User Manual*. See [Related Documentation](#), page 11, for a list of manuals and part numbers.
- For procedures to download firmware to a switch or director using the EFCM Basic interface, refer to the following:
 - EFCM Basic User Manual. See [Related Documentation](#), page 11, for a list of manuals and part numbers.
 - EFCM Basic online help.
- Upgrading to E/OS 9.0 is non-disruptive for attached devices. Limitations to upgrades or downgrades are clearly identified to the user if there are any limitations in performing the operation.
- The switch or director is not required to be offline before performing an upgrade or downgrade operation.
- Some customer environments use application or host software that is affected by the restart of the director CTP during a HotCAT download operation. Applications that rely on inband management servers are especially prone to problems caused by processor restart.

As a solution, shut down those applications driving inband requests before a firmware upgrade, and then restart the applications after the upgrade is complete.

For example, an environment that uses Resource Measurement Facility (RMF) for Fibre connection (FICON) may be configured to poll the director or switch at regular intervals. The polling

process could occur during a restart period, causing the application software (for example, RMF) to react adversely. If a restart occurs while an inband request is pending, host programming may change the status of the director or switch control unit port (CUP) to inaccessible or boxed.

- **Before upgrading or downgrading firmware, it is highly recommended that you back up the switch or director configuration in case of a failure.**

EFCM provides an automated backup and restore process. Refer to Chapter 1 in your switch or director Element Manager User Manual under *Backing Up and Restoring Product Manager Data* for more details.

For configuration backup and restore procedures using EFCM Basic, refer to Chapter 7, *Maintenance Tasks*. Note that a standalone Configuration Backup and Restore (CBR) utility is also available for these operations.

- If an Intrepid 10000 Director is in a fabric, all Sphereon switches, Intrepid 6064 directors, and Intrepid 6140 directors in the fabric must be upgraded to E/OS 7.1 or later.

NOTE: Refer to caution under [Using EFCM Basic](#), page 10, about upgrading firmware using the EFCM Basic interface.

Prerequisites for Installing and Using E/OS 9.0

Other McDATA products in the same fabric as E/OS version 9.0. must be at a minimum revision level for proper fabric operation. The minimum firmware levels are listed below, but it is recommended that you upgrade to the latest shipping versions of each release (check with McDATA Customer Support for latest version).

- All E/OS-based products: Minimum version should be 8.x.
- Intrepid 10000 Director: Minimum version should be E/OSn 6.1

Although products may co-exist in a fabric running different levels of E/OS firmware, all products *must* be at the same major functional release level for optimum fabric stability and robustness.

E/OS 9.0 is compatible with EFCM 8.9. For additional E/OS compatibility information, refer to the EFCM 8.9 Software Release Notes.

Minor Code Enhancements & Fixes in E/OS 9.0

E/OS 9.0, based on the previous version 8.2. and contains all fixes included in that version and prior releases. In addition, the problem reports (PRs) in [Table 1](#) have been fixed in 9.0.

Enhancements and fixes are organized by their Problem Category, then their problem report number (PR Number).

Each is assigned a Problem Category, based on whether it relates to Simple network management protocol (SNMP), Telnet command line interface (CLI), FICON management server, Embedded Management etc.

Table 1 **Minor Code Fixes and Enhancements in E/OS 9.0**

| PR Number | Description | Problem Category | Affected Model |
|-----------|--|-----------------------|--------------------|
| 69454 | After upgrading a Sphereon 3232, yellow triangles are shown on EFCM for all ports that are inactive but have optics in them. | | ES-3232 |
| 67461 | Trace route port IDs have incorrect fill byte. Zeros fill byte should be LSB not MSB according to GS-5 and SW-4 | Advanced Fabric Diags | E/OS Family |
| 46183 | Event 507 after hot insert of multiple UPM cards. This has only been encountered when cards are inserted on one-minute intervals. | FPM | Intrepid 6064 |
| 57178 | Firmware fault 5720 causing servers to go offline. | FPM | ED 6140 |
| 59027 | ES-4500 and ES-4300 do not send R_RDY for frames with invalid D_DID of 0 during IPL. This caused ports to log out and log back in during IPL after upgrading code from 7.1 to 8.1. | FPM | ES 4500 |
| 64905 | Loss-of-Signal or Loss-of-Synchronization counters always show "0". | FPM | ES 4500 ES-4700 |
| 66752 | 516 events logged after upgrading to 8.0.1. | FPM | |
| 67631 | Equipment check when threshold exceeded on the unused ports. | FPM | ES-4400 |
| 70293 | Logging anomalies resulted in a failure on port 2F. | FPM | E/OS Family |
| 70467 | Frames not routed to ISL when ITWs are being detected on another F-port, causing ABTS. | FPM | ES-4700 |

| PR Number | Description | Problem Category | Affected Model |
|-----------|---|--------------------|---|
| 55274 | Hard Zoning and re-route programming delay due to large number of devices and DID's in fabric. The delay is seen when taking the core director offline/online. | Hard Zoning | E/OS Family |
| 64414 | Trace route will not work with a standard compliant switch (Qlogic) when using port IDs, though WWN's will work. Trace route port IDs have incorrect fill byte. Zeros fill byte should be LSB not MSB according to GS-5 and SW-4 standards. | Fabric Services | E/OS Family |
| 59089 | In a VTC/VTs environment, multiple directors become inoperable - requires power on reset. | FICON Mgmt Server | ES-3232 |
| 64128 | With FCZ disabled and a CHPID WWN already in the exempt host list when a user enables FCZ, only the first logical path for that CHPID is set as a control host path. All other logical paths for that CHPID remain set as partitioned host paths. These paths will not be set correctly unless the host CHPID is forced to login into the switch again. | FICON Mgmt Server | E/OS Family |
| 65661 | SDC interface physical identifier for neighbor node (mainframe channel) is being returned incorrectly to MVS host in-band request. | FICON Mgmt Server | ED-6064 ES-3016 ES-3032 ES-3216 ES-3232 |
| 68947 | Boxed CUP after firmware upgrade | FICON Mgmt Server | E/OS Family |
| 63116 | Intermittent 17020 fault when migrating from 7x firmware. | Firmware Migration | ED 6140 |
| 56936 | CTP Fails with 411 01 53 22 continuously until unit was IML'ed. | OS Mgmt Server | ED 6064 |
| 63624 | Fault 01A029 | OS Mgmt Server | ED 6064 |
| 70391 | Flow assigned internally to a backend port on a QPM is rerouted to newly configured preferred exit port without waiting for re-routing delay. This has potential to cause out of order frames and the impact/recovery is dependent on the end node. | QPM | ED-6140 |
| 57031 | Preferdomain ID is not updated automatically when EFM or fabric binding are enabled and switch is in online state. | SANtegrity | E/OS Family |

| PR Number | Description | Problem Category | Affected Model |
|-----------|--|------------------|---|
| 19972 | warmStart and coldStart traps are not always received across ethernet switches | SNMP | ED-6064 ES-3016 ES-3032 ES-3216 ES-3232 |
| 67773 | Audit log time sync shows incorrect date: (example 01/04/46) | System Services | E/OS Family |
| 55514 | Restore configuration is not completed successfully when the backup swconfig contains 2047 zones. | Web Server | Sphereon 4500 |
| 55887 | Not able to set RADIUS server properties in Security>RADIUS Server page using Netscape as browser. | Web Server | E/OS Family |
| 58966 | Port state information is not updated in EFCM Basic when an unresponsive node becomes active. Port still reports "Invalid Attachment" even though port is active and traffic is flowing across the link. | Web Server | EOS Family |

Outstanding Known Issues in E/OS 9.0.

Table 2, page 8 lists the problem reports (PRs) for issues that are known, but not fixed in E/OS 9.0. Workarounds for fixes, if any, are provided. Outstanding known issues are organized by their Problem Category and then, their PR number. Each is assigned a Problem Category, based on whether it relates to Simple Network Management Protocol (SNMP), the Telnet Command Line Interface (CLI), FICON management server, embedded management, Open Systems Management Server (OSMS), EFCM Basic, systems services, maintenance port, hard zoning, or other issues.

Table 2 Outstanding Known Issues

| PR Number | Description | Problem Category | Affected Model |
|-----------|---|------------------|----------------|
| 58354 | Zoneset activation did not complete and a "Could not complete, one or more nodes busy" message was displayed. | | ED-6064 |
| 71467 | RADIUS key is allowed to be blank (zero characters) | Embedded Mgmt | EOS Family |

Table 2 Outstanding Known Issues (*continued*)

| PR Number | Description | Problem Category | Affected Model |
|-----------|---|--------------------------|----------------|
| 57257 | Failure to activate large zone set via OSMS when CT authentication is enabled. | Open Systems Mgmt Server | EOS Family |
| 71232 | Link utilization is not displayed correctly in EWS/CLI when traffic is flowing. | Web Server | EOS Family |

Standards Compliance

- E/OS 9.0. is compliant with the following Fibre Channel protocols:
 - FC-GS-3
 - FC-GS-4
 - FC-PH Rev 4.3
 - FC-PH-2
 - FC-PH-3
 - FC-GS-2
 - FC-FLA
 - FC-FG
 - FC-SW-2
 - FC-SW-3
 - FC-MI
- E/OS 9.0. is compliant with the Fibre Channel Element MIB (FE-MIB).
- E/OS 9.0. is compliant with the following MIB-II groups:
 - System
 - Interface
 - Address Translation
 - IP

- ICMP
- TCP
- UDP
- SNMP
- E/OS 9.0. is compliant with the following FC classes of service:
 - Class 2
 - Class 3
 - Class F

Using EFCM Basic

EFCM Basic requires Internet Explorer 6 or Netscape 7 to run properly.

When you use Internet Explorer version 5.00.3315.1000x, the download operation may not complete and may eventually time-out leaving the switch with the previous version of E/OS.

Supported Configurations

The *Supported Fabrics Configuration* document provides information on supported fabric configurations containing McDATA directors and switches. This document is located on www.mcddata.com under Support-->Technical Documents-->Compatibility Matrix.

Information contained in this publication includes:

- Guidelines for configuring maximum end ports, unique zone members, ISLs per switch, members per zone, zones, devices supported, and switch types per fabric.
- Supported fabrics containing one to eight switches.
- Supported fabrics containing nine to twenty four switches.
- Fabric topology examples.

Related Documentation

The following documents provide additional support and information pertaining to E/OS release 9.0:

- Element Manager User Manual for your switch or director product:
 - Intrepid 6064 and 6140 Director (620-000172)
 - Sphereon 3032 and 3232 Switch (620-000173)
 - Sphereon 3016 and 3216 Switch (620-000174)
 - Sphereon 4500 Switch (620-000175)
 - Sphereon 4400 Switch (620-000241)
 - Sphereon 4700 Switch (620-000242)
- Installation and Service Manual for your switch or director product:
 - Sphereon 3016 and 3216 Switch (620-000154)
 - Sphereon 3032 and 3232 Switch (620-000155)
 - Sphereon 4300 Switch (620-000171)
 - Sphereon 4400 Switch (620-000238)
 - Sphereon 4700 Switch (620-000239)
 - Sphereon 4500 Switch (620-000159)
 - Intrepid 6064 Director (620-000108)
 - Intrepid 6140 Director (620-000157)
- McDATA EFC Manager Software User Manual (620-000170)
- McDATA Enterprise Operating System Command Line Interface User Manual (620-000134)
- McDATA EFCM Basic User Manual (620-000240)
- McDATA Configuration Backup and Restore Utility CBR Installation and User Guide (958-000370)

Previous E/OS Releases

This section provides a summary of new features, fixes, and enhancements from previous releases. For details, refer to the E/OS software release notes (SRN) for the specific release.

E/OS 8.2

E/OS 8.2 provides code fixes for problems included in E/OS 8.0, E/OS 8.0.1, E/OS 8.0.2, E/OS 8.1 and E/OS 8.1.1. The problem reports (PRs) that were resolved specifically for the E/OS 8.2 release are listed in [Table 4](#).

Table 3 Minor Code Fixes and Enhancements in E/OS 8.2

| PR Number | Description | Problem Category | Affected Model |
|-----------|---|--------------------|----------------|
| 68869 | Rerouting delay feature needs to be turned off by default. | Embedded Mgmt | E/OS Family |
| 68629 | SDC interface physical identifier for neighbor node (mainframe channel) is being returned incorrectly to MVS host in-band request. | FICON Mgmt Server | E/OS Family |
| 70408 | Label file downloads to SPs for FICON Director | FICON Mgmt Server | E/OS Family |
| 68449 | Boxed CUP after firmware upgrade | FICON Mgmt Server. | E/OS Family |
| 69846 | Reporting optic digital diagnostic 516 events after upgrading to 8.0.1. | FPM | E/OS Family |
| 70833 | Invalid Transmission Words (ITW) erroneously incrementing on unused ports. | FPM | E/OS Family |
| 67604 | 516 events every 24 hours. | FPM | E/OS Family |
| 68554 | Divide by 0 fault while calculating Tx buffer credit during initialization. | FPM | E/OS Family |
| 71182 | Frames not routed to ISL when ITWs are being detected on another F-port, causing ABTS. When a single Sphereon 4700 is installed in a fabric with 2 or more switches, it must be configured with the highest Domain ID. Two Sphereon 4700s installed in the same fabric require E/OS release 08.02.00 or above. | FPM | E/OS Family |
| 71202 | Incorrect response to GPN_ID command. | FPM | E/OS Family |

| PR Number | Description | Problem Category | Affected Model |
|-----------|---|------------------|----------------|
| 70216 | Memory leak in OSMS buffer string pool when fabric build occurs during DRLIR distribution. This could cause OSMS to run out of resources. | OS Mgmt Server | E/OS Family |
| 70349 | Intermittent power UP failures on XPM cards. | Other | E/OS Family |
| 67983 | Audit log time sync shows incorrect date: (example 01/04/46) | System Service | E/OS Family |
| 64753 | Intermittent 17020 fault when migrating from 7x firmware. | System Services | E/OS Family |
| 72328 | Unable to activate zoneset with default zone enabled. | Zoning | E/OS Family |

E/OS 8.1.1

E/OS 8.1.1 provides code fixes for problems included in E/OS 8.0, E/OS 8.0.1 and E/OS 8.1. The problem reports (PRs) that were resolved specifically for the E/OS 8.1.1 release are listed in [Table 4](#).

Table 4 Minor Code Fixes and Enhancements

| PR Number | Description | Problem Category | Affected Model |
|-----------|---|------------------|--|
| 63163 | EFCM 8.6.1 lost connection to some switches in the fabric for up to five minutes during an upgrade from 7.1.2 to 8.0. | System Services | Intrepid 6140 |
| 63630 | Clariion non-disruptive upgrade intermittently ends in invalid attach due to an ELP timeout. | FPM | ES-4700 ES-4500 ES-4400 |
| 64397 | Sphereon 4700 switch incorrectly negotiating FL-port - Not attempting F-port after being in loop by itself after reboot of Linux host with Emulex HBA. | FPM | E/OS Family |
| 64818 | Ports go offline during firmware upgrade. | | ES-4700 ES-4500 ES-4400 ES-4300 |
| 64819 | Linux fabric - Constant topology view updates, continuous ESS complete messages in fabric log in a fabric containing McDATA (Qlogic) and Brocade Blade Server switches. | | ES-4700 |

E/OS 8.1

E/OS 8.1 provides code fixes for problems included in E/OS 8.0 and E/OS 8.0.1. The problem reports (PRs) that were resolved specifically for the E/OS 8.1. release are listed in [Table 5](#).

Table 5 Minor Code Fixes and Enhancements in E/OS 8.1

| PR Number | Description | Problem Category | Affected Model |
|-----------|---|-------------------|----------------|
| 58695 | SNMP improvements in polling and query processing. SNMP response is sluggish when being queried by 10 to 30 different SNMP servers. | SNMP | Sphereon 4500 |
| 61315 | SCSI transport errors after upgrade to E/OS 7.1.0 - FLOGI rejects seen in engineering log. | Fabric Services | Sphereon 4500 |
| 59872 | Incorrect reading of port technology data returned causes optics speed mismatch with Stratos optics. This causes the port to become unusable. | Fabric Services | E/OS Family |
| 61035 | CUP reporting IFCCs to MixPlex hosts. | FICON Mgmt Server | Intrepid 6140 |
| 62545 | Online external loopback test fails on ports 24-31 of Sphereon 4700. | FPM | Sphereon 4500 |
| 62639 | Ethernet traffic hangs access to Ethernet management on Sphereon 4500 Switch and Intrepid 6140 Director. Problem requires an IML to recover. | System Services | Sphereon 4500 |
| 57396 | Taking a core 4700 offline/online causes CRC errors on the edge ISLs to this core. | None | Sphereon 4700 |

E/OS 8.0.2

E/OS 8.0.1 provides code fixes for problems reported in the earlier releases. The problem reports (PRs) that were resolved for this release are listed in [Table 7](#).

Table 6 Minor Code Fixes and Enhancements in E/OS 8.0.2

| PR Number | Description | Problem Category | Affected Model |
|-----------|--|------------------------|---------------------------------------|
| 70913 | Intermittent Power Up Failures on XPM cards. | Online/PUP Diagnostics | Intrepid 6064 / 6140 with XPM support |

E/OS 8.0.1

E/OS 8.0.1 provides code fixes for problems reported in the earlier releases. The problem reports (PRs) that were resolved for this release are listed in [Table 7](#).

Table 7 Minor Code Fixes and Enhancements in E/OS 8.0.1

| PR Number | Description | Problem Category | Affected Model |
|-----------|---|------------------|------------------------|
| 61550 | The compact flash memory access drivers require an update to support new compact flash parts cutting into manufacturing. This change is required to source new compact flash vendors due to the unavailability of parts from our current vendor. The driver changes are needed to improve the stability of the compact flash read and write accesses to work with multiple vendors. | NA | Sphereon 4400 and 4700 |
| 61923 | Due to a revision of the ASIC on the XPM card, a firmware change was required to recognize the new XPM card. The firmware will still recognize all XPMs with the lower revision ASIC. The ASIC revision was a very minor change to the ASIC core to address a miniscule window where a power cycle could potentially put the ASIC in a degraded state. | XPM Support | Intrepid 6140 |

E/OS 8.0

E/OS 8.0 was a major release that added the following features, additions and enhancements:

- CLI, SNMP, and EFCM Basic support for Sphereon 4400 and 4700 Switches.
- Advanced fabric diagnostics enhancements.
- Enhancements to EFCM Basic (formerly called SANpilot).

- Predictive optics monitoring features in EFCM Basic and CLI.
- General enhancements to EFCM Basic and CLI.
- Interswitch Link (ISL) cost configuration.
- Open Trunking load balancing capability qualified in FICON environments where FICON flows.
- New safe zoning mode feature support in CLI and EFCM Basic.
- Standards-based support for second revision of query security attributes (QSA) and new remote fabric change notifications (RFCN).
- N_Port ID Virtualization (NPIV) feature.
- Nameserver response in large fabric configurations.

E/OS 8.0 provides code fixes for problems reported in this version and the earlier releases. The problem reports (PRs) that were resolved for this release are listed under [Table 5](#).

Table 8 Minor Code Fixes and Enhancements

| PR Number | Description | Problem Category | Affected Model |
|-----------|---|------------------|---|
| 56874 | One-hundred twenty (120) events call home when they are informational. They should not call home | Console Server | E/OS Family |
| 56497 | Management server can occasionally hang in high traffic environments. | Console Server | E/OS Family |
| 55730 | Fixes a problem where ITW statistics post on unused ports, causing third-party management applications to report false errors | FPM Server | Sphereon 3016, 3032, 3216, 3232, and 4500, Intrepid 6064 and 6140 |
| 53986 | Ethernet communications intermittently hang on 6140 and 4500 | Ethernet Driver | Eclipse 6140, Sphereon 4500, and 4300 |
| 19972 | warmStart and coldStart traps aren't always received across Ethernet switches. | SNMP | Sphereon 3016, 3032, 3216, 3232, Intrepid 6064 |
| 45850 | Ethernet port speed not reported by NWSHOW command. Also, SNMP MIB ifspeed is not updated when the speed changes. | SNMP | Sphereon 4500 |
| 18371 | Repeated loss of signal (LOS) should auto-block a port. | Port Fencing | Intrepid 6064 |

Table 8 Minor Code Fixes and Enhancements (*continued*)

| PR Number | Description | Problem Category | Affected Model |
|------------------|---|-------------------------|-----------------------|
| 17852 | Port binding offenders degrade switch performance. | Port Fencing | Sphereon 4500 |
| 54855 | Urgent change to segment fabric when Default Zone enabled states do not agree - in all cases. | Zoning | Intrepid 6140 |
| 16013 | Sphereon 3216 Switch doesn't respond to ping requests of packet size less than 20 bytes. | System Services | Sphereon 3216 |
| 50511 | Intrepid 6064 running EOS 6.1. Discrepancy between Port List and Node List for port 43. | Fabric Services | Intrepid 6064 |
| 21513 | Merging two fabrics that each contain more than 300 zones causes constant fabric rebuilds. | Fabric Services | E/OS Family |
| 49398 | EWS (EFCM Basic): Enhancement to add the ability to detect browser/version and provide warning if not supported. | Embedded Mgmt | E/OS Family |
| 52366 | Update the CLI show.switch command to identify the EFCM server managing the switch. | CLI | E/OS Family |
| 54801 | Four interswitch links (ISLs) segmented after installing universal port modules (UPMs). | None | E/OS Family |
| 17953 | During power supply testing, cooling fan propeller errors were logged. | None | E/OS Family |
| 57294 | Fault 40005269 may occur due to a backup CTP problem under certain conditions. In this situation, the code will fail over to the backup CTP at which time a 4000510E fault may occur since the backup (now primary) CTP has problems. | None | E/OS Family |

