



Cornelis™ Omni-Path Express™ Fabric Q7 BIOS and Board Controller Firmware

Release Notes for V10.7

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1. Overview of the Release

This document provides a brief overview of the changes introduced into the Cornelis Omni-Path Express (OPX) Q7 BIOS and Board Controller Firmware (Q7 BIOS) by this release. CornelisOPX Q7 BIOS is used for the hardware listed in [Section 1.6 "Supported Hardware"](#).

The information contained in this document is intended as supplemental information only; it should be used in conjunction with the documentation provided for each component.

These Release Notes list the features supported in this release, open issues, and issues that were resolved during release development.

1.1. Audience

The information provided in this document is intended for installers, software support engineers, service personnel, and system administrators.

1.2. Software License Agreement

The software provided is under license agreements and may contain third-party software under separate third-party licensing. Please refer to the license files provided with the software for specific details.

1.3. If You Need Help

Technical support for OPX products is available 24 hours a day, 365 days a year.

For additional details:

- Visit the Cornelis Support page at <http://www.cornelisnetworks.com/support>
- Contact [Cornelis Networks Customer Support](mailto:support@cornelisnetworks.com) at support@cornelisnetworks.com

1.4. Supported Features

- The list of supported hardware is in [Section 1.6 "Supported Hardware"](#).
- Creates a standalone package of Q7 BIOS and Board Controller Firmware that is external to the OPX-OPXS package.

1.5. Firmware Files

This release contains the firmware files listed in the table below.

Table 1. Firmware Files

| Description | File Name | Version |
|-------------|------------------|----------|
| Q7 BIOS | QA3ER962.q7.spkg | QA3ER962 |

| Description | File Name | Version |
|------------------------------|------------------|----------|
| Q7 Board Controller Firmware | CGBCP429.q7.spkg | CGBCP429 |

1.6. Supported Hardware

All OPX-managed switches require (at a minimum) the Q7 BIOS and Board Controller Firmware shown in [Table 2](#). OPX

Table 2. Supported Hardware

| Product Code | Description |
|--------------|--|
| 100SWE24QF2 | OPX 100 1U 24 Port 2PS Std-Air Managed |
| 100SWE48QR2 | OPX 100 1U 48 Port 2PS Std-Air Managed |
| 100SWE48QF1 | OPX 100 1U 48 Port 1PS Std-Air Managed |
| 100SWD06B1N | OPX 100 6 Slot Chassis 1MM N Power |
| 100SWD24B1N | OPX 100 24 Slot Chassis 1MM N Power |
| 100SWEQ7CN1 | OPX 100 Edge Management Card |
| 100SWDMGTSH | OPX 100 Director Management Module |
| 100SWE48QF2 | OPX 100 1U 48 Port 2PS Std-Air Managed |
| 100SWE48QFH | OPX 100 1U 48 Port HS Std-Air Managed |
| 100SWE48QFC | OPX 100 1U 48 Port HS Std-Air Q7 Chassis |

1.7. Installation Requirements

This section provides installation requirements for this release.

1.7.1. Best Practices

Note the following Cornelis recommendations:

- Update to the latest versions of OPX firmware and software to obtain the most recent functional and security updates.
- To improve security:
 - administrators should log out users and disable multi-user logins prior to performing provisioning and similar tasks.
 - update the default HTTPS certificate (refer to the *Cornelis Omni-Path Express Fabric Switches GUI User Guide*, “Updating the Certificate” for details).

1.7.2. Installation Instructions

For installation details, refer to the *Cornelis Omni-Path Express Fabric Switches Hardware Installation Guide*.

Download the standalone BIOS and Board Controller Firmware from the Cornelis web page or other secured location using the following procedures.

1. Using a web browser, go to the [Cornelis Customer Center](#).
2. In the Description list, select the "Cornelis Omni-Path Express Q7 BIOS and Board Controller Firmware" for the version you want to install.

**NOTE**

The latest version of each type of each download type is showing in the list. To show previous versions, select "Show more" at the bottom of the list.

3. In the "Available Downloads" list, select the files you need.
4. Review the Cornelis Software License Agreement.
5. Click "I accept the terms in the license agreement."
6. Save the download to your hard drive.

Important Information for Q7 BIOS and Board Controller Firmware Update**Before Getting Started**

- Ensure that the Q7 unit being updated is a QA3E. This unit can be found in either a managed Edge switch or a Director Class switch management module.
- The Q7 update has two parts; board controller firmware (BCFW) and BIOS.
- Two separate files are used to perform the update.
- The update files are **bcfw: CGBCP429.q7.spkg** for the firmware update and **bios: QA3ER962.q7.spkg** for the BIOS update.
- The BCFW and BIOS update requires switch firmware version 10.7 (or newer).

Prior to Upgrading

Make sure that the subnet manager (SM) is not running on the switch:

- Execute the CLI command `smcontrol` to ensure that the embedded subnet manager (ESM) is not running on the switch. For example:

`Edge-> smControl`

`Subnet manager is not started.`
- Execute the CLI command to ensure that no other CLI sessions are running during the update.

1.8. Product Constraints

- None.

1.9. Product Limitations

This release has the following product limitations:

- None.

2. Issues

This section lists the resolved and open issues in the Firmware Tools.

2.1. Resolved Issues

2.1.1. Issues Resolved in this Release

The following table lists issues that are resolved in this release.

Table 3. Issues Resolved in this Release

| ID | Description | Resolved in Release |
|--------|---|---------------------|
| 140389 | The OPX Q7 BIOS and Board Controller Firmware update addresses the impact to OPX Managed Switches from the Intel Atom Processor E3800 Series Erratum VLI89. | 10.7 |

2.2. Open Issues