

UNCLASSIFIED

**IDENTIFICATION OF VOLATILE
AND NON-VOLATILE STORAGE
AND
SANITIZATION OF SYSTEM
COMPONENTS**

**JUNIPER NETWORKS
QFX3500 Switches**

**REVISION 1.0
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1 INTRODUCTION

1.1 Purpose

The purpose of this document is to provide direction to identify and remove all non-volatile (NV) storage from the Juniper Networks QFX3500 switching platforms.

1.2 Scope

This document only addresses the QFX3500 switching platforms. While other platforms offered by Juniper Networks may contain similar hardware components, this document only applies to these devices. Furthermore, this document only provides direction for the identification and removal of NV storage components. It does not address destruction procedures for those components. As all of the NV storage components used in the QFX3500 are commercial off-the-shelf (COTS) components, directions for destruction of those components are left to the governing Department, Agency, or Office.

2 EQUIPMENT OVERVIEW

2.1 Identification of Chassis

The QFX3500 Switch delivers a high-performance, ultra low latency, feature rich L2 and L3 solution for supporting a wide range of deployment scenarios including traditional and virtualized data centers, high-performance computing, network-attached storage, converged server I/O, and cloud computing. A versatile, compact, high-density 10GbE platform that runs the same Junos OS as other Juniper switches, routers and security platforms, the QFX3500 also delivers a fabric-ready edge solution for the Juniper Networks QFabric architecture.

The QFX3500 offers 63 dual-mode small form-factor pluggable transceiver (SFP+/SFP) ports and four quad small form-factor pluggable plus (QSFP+) ports in a 1 U form factor, delivering feature-rich L2 and L3 connectivity to networked devices such as rack servers, blade servers, storage systems and other switches in highly demanding, high-performance data center environments. For converged server edge access environments, the QFX3500 is also a standards-based Fibre Channel over Ethernet (FCoE) transit switch and FCoE to Fibre Channel (FCoE-FC) gateway, protecting customer investments in existing data center aggregation and Fibre Channel storage area network (SAN) infrastructures.

When deployed with other components of the Juniper Networks QFabric architecture, including the QFX3008-I or QFX3600-I Interconnects and the QFX3100 Director, the QFX3500, which is manageable by Junos Space, delivers a fabric-ready QFabric Node edge solution that contributes to a high-performance, low latency fabric.

To provide carrier-class reliability, QFX3500 switches include:

- Dual redundant field-replaceable and hot-swappable power supplies. An optional connection to an external power source is also available.
- Dual hot-swappable fan trays.

Figure 2-1: QFX3500



2.2 Description of Field Replaceable Units (FRU)

Field-replaceable units (FRUs) are components that you can replace on site. The FRUs in QFX3500 switches are:

- Power supplies
- Fan tray

The power supplies and fan trays can be removed and replaced without powering off the switch or disrupting switch functions.

3 POWER DOWN AND REMOVAL OF NON-VOLATILE STORAGE

To ensure that no user data or system configurations remain resident on a QFX3500 platform, the following steps must be performed:

1. Power must be removed from the system to clear all volatile storage
2. The Flash chip must be removed from the system board

A detailed process is included in the following sections.

3.1 System Power Down

Power down the system by removing any connected power cords.

3.2 Disassembly of the QFX3500 Platform and Identification of NV storage

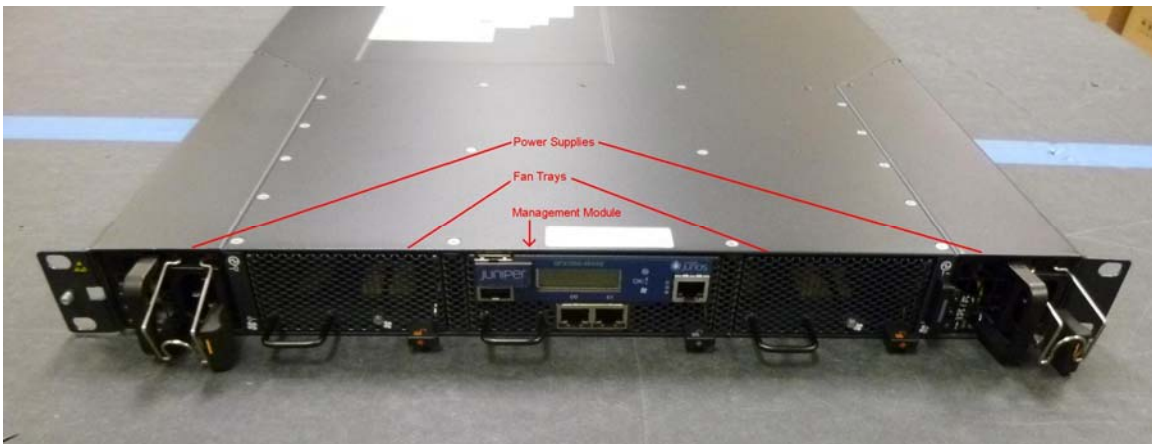
All configuration data is on the pluggable module you can see. The module that is soldered to the board ONLY has the low level boot code.

Figures 3-1 and 3-2 show the rear and front of the QFX3500, respectively.

Figure 3-1: Rear of system

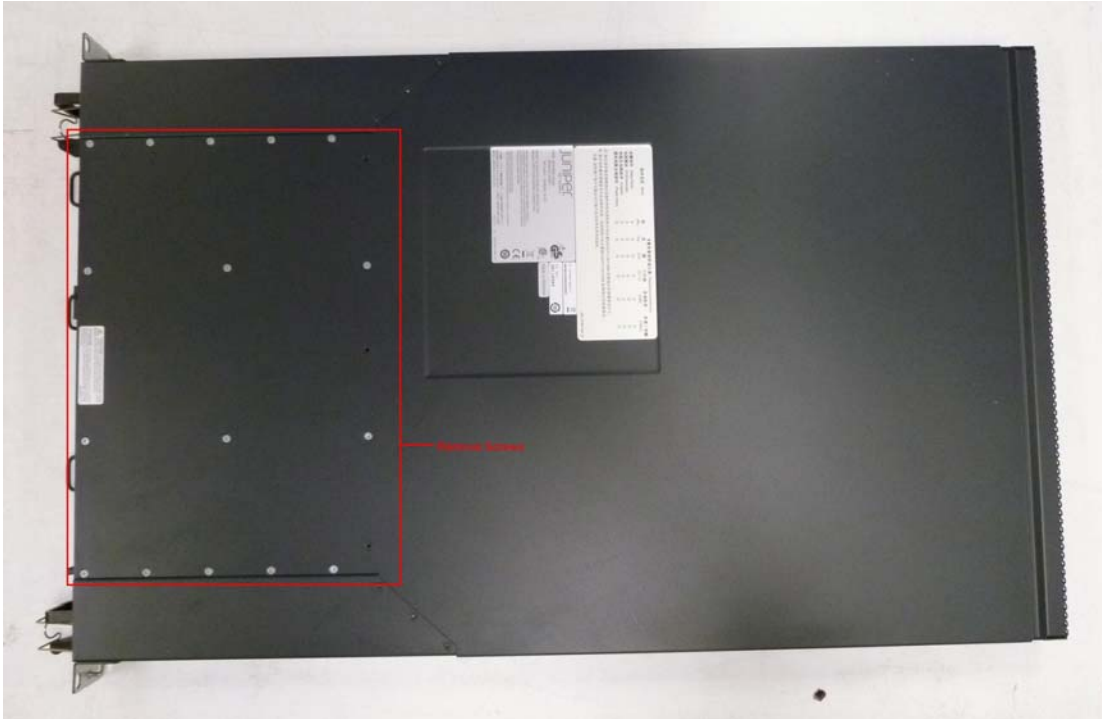


Figure 3-2: Front of system.



1. Remove the screws from the top of the system (Figure 3-3).

Figure 3-3: Top of system with screws.



2. Remove screws from both sides of the chassis. Start with the right side (Figure 3-4).

Figure 3-4: Right side of system with screws



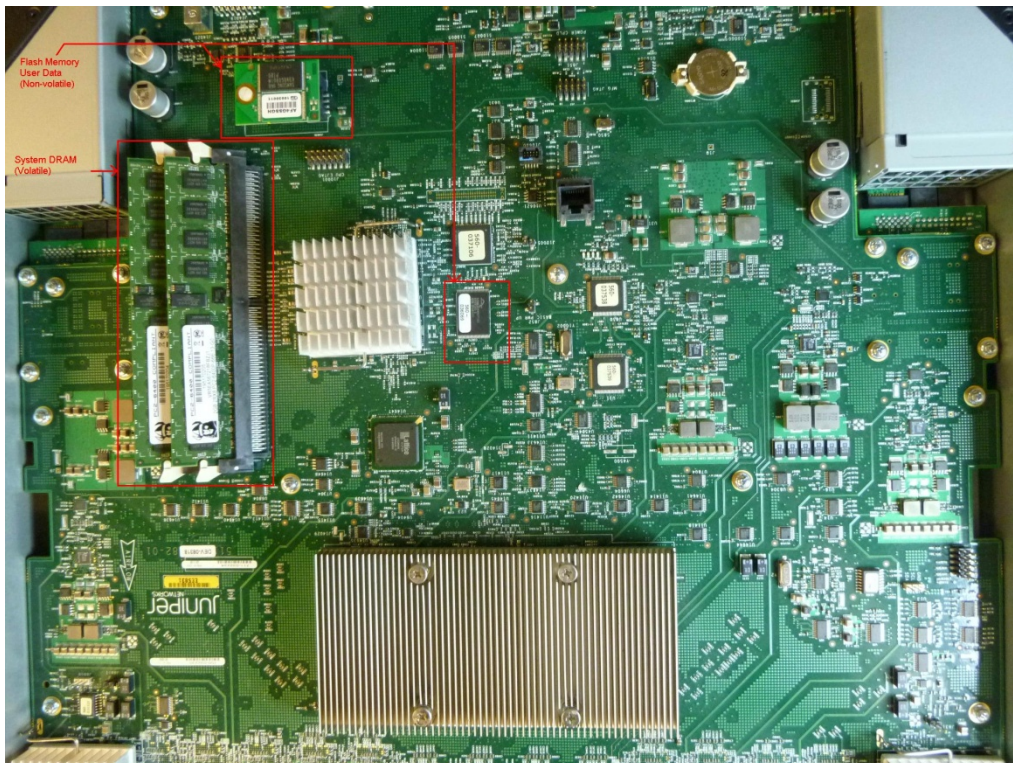
3. Remove screws from the left side of chassis (Figure 3-5).

Figure 3-5: Left side of system with screws



4. Slide cover forward and then remove cover upward.
5. Locate NV storage (Figure 3-6).

Figure 3-6: Locate NV storage (Flash)



3.3 Removal of the Pluggable Flash

Remove the pluggable flash. It is not required to remove flash on the motherboard, which only has boot code.

NOTE: Before removal, ensure that J-TAC and the appropriate account team have been notified of your intentions.