TECHNICAL NOTE
STORMSHIELD NETWORK SECURITY

SN-S-SERIES - UPDATING THE BIOS TO VERSION R1.03

Product concerned: SN-S-Series-220 and SN-S-Series-320

Document last updated: April 23, 2026

Reference: sns-en-SN-S-Series_updating_BIOS_technical_note

Table of contents

Change log 3
Getting started 4
BIOS versions on SN-S-Series firewalls 4
Updating BIOS from the web administration interface 5
Required equipment 5
Important information regarding certain SNS firewall features 5
Downloading the BIOS update file 5
Updating BIOS and the Intel Management Engine firmware 5
Checking the current BIOS version 5
Updating BIOS and the Intel Management Engine firmware 6
Required operation following an update 6
Further reading 8

Change log

Date	Description
April 23, 2026	New document

Getting started

This document describes the procedure of updating BIOS on an SN-S-Series firewall from version R1.02 to version R1.03.

BIOS can only be updated from the SNS firewall's web administration interface.

BIOS versions on SN-S-Series firewalls

Version	Can be installed on version	Version release notes
R1.03	R1.02	- An issue that occurred while changing the PCR was fixed.

Updating BIOS from the web administration interface

This section describes the procedure of updating BIOS on an SN-S-Series (SN-S-Series-220 and SN-S-Series-320) model firewall from version R1.02 to version R1.03. This particular update can only be performed from the SNS firewall's web administration interface.

Required equipment

- A computer with access to the SN-S-Series firewall's web administration interface from a compatible web browser.

Important information regarding certain SNS firewall features

- **TPM**: if you had initialized the TPM, the features that use certificates with TPM-protected private keys (VPN, SNS firewall managed by an SMC server, etc.) will no longer function. Reseal the TPM to restore the features in question.

This procedure is described in the section Required operation following an update.

Downloading the BIOS update file

1. In your Mystormshield area, go to **Downloads** > **STORMSHIELD NETWORK SECURITY** > **TOOLS** > **STORMSHIELD NETWORK SECURITY - TOOLS.**
2. Download the *.maj* file **SN-S-Series_BIOS_R103_remote_update** by clicking on its name.
3. Verify the integrity of the downloaded file using its SHA256 hash:

```
d3224163e34c32a67b7ebe523ce632cdb34ab75a8f26f21beb52c029cfddf919
```

The downloaded .maj file contains the BIOS update and Intel Management Engine firmware.

Updating BIOS and the Intel Management Engine firmware

Checking the current BIOS version

As of SNS versions 4.8.13 LTSB and 4.3.41 LTSB, the BIOS version can be checked in the CLI console:

1. In the SNS firewall's web administration interface, go to **Configuration > System > CLI console.**
2. Enter the command:

```
SYSTEM PROPERTY
```

The **BIOSVersion** configuration token should show version R1.02.

In earlier SNS versions, the version has to be checked in the console or SSH:

1. Log in to the SNS firewall system in console or SSH mode.
2. Authenticate by using the *admin* account on the SNS firewall system.

3. Enter the command:

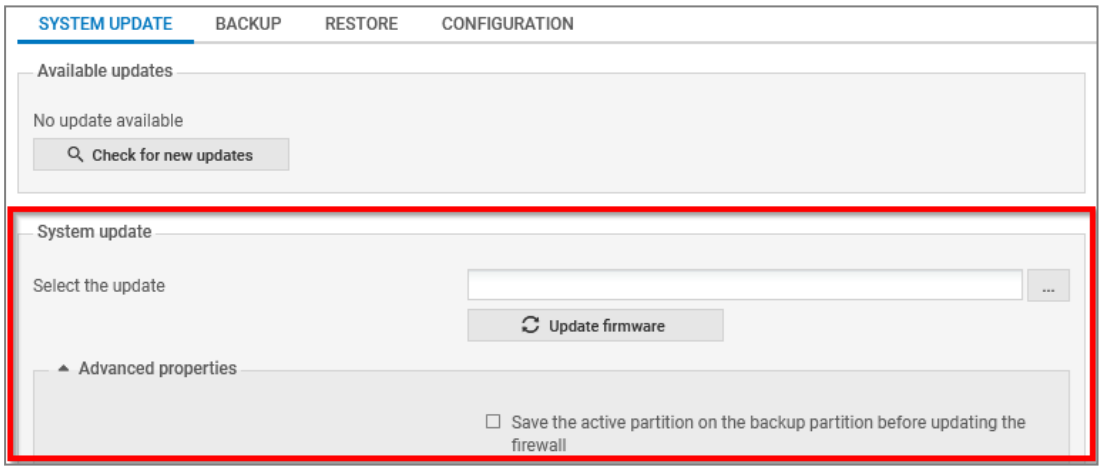
```
dmidecode -s bios-version
```

The SNS firewall should show version R1.02.

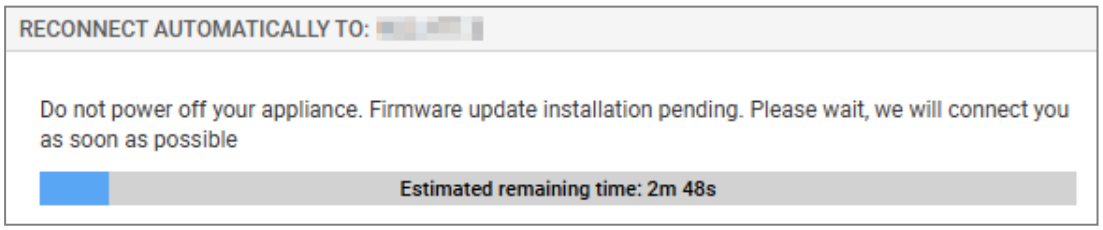
Updating BIOS and the Intel Management Engine firmware

IMPORTANT
The update process is automatic and lasts around five minutes. Once the process is run, it **must never** be interrupted, and the SNS firewall **must not** be disconnected from the power supply. If this occurs, the SNS firewall will be completely unable to run.

1. In the SNS firewall's web administration interface, go to **Configuration > System > Maintenance**, **System update** tab.
2. Select the update file *(.maj)* that was downloaded earlier.
3. Expand the **Advanced properties** section, and unselect **Save the active partition on the backup partition before updating the firewall**.
4. Click on **Update firmware**.



5. Wait while the update proceeds. A pop-up window indicates the progress of the update. During the update, the SNS firewall will restart several times, which is normal.



By going back to the page to connect to the firewall's web administration interface, the SNS firewall will indicate that the update is complete.

Required operation following an update

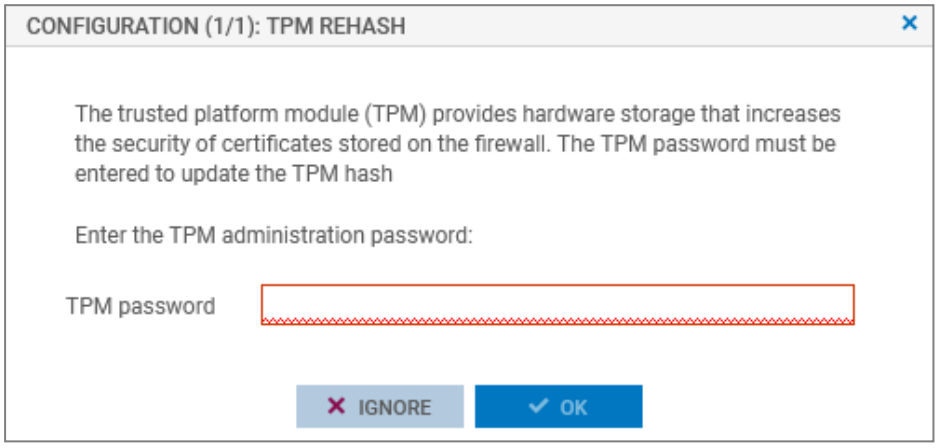
Resealing the TPM

If you had initialized the TPM, the features that use certificates with TPM-protected private keys (VPN, SNS firewall managed by an SMC server, etc.) will no longer function. To restore the features in question, follow one of the procedures below to reseal the TPM.

From the web administration interface

This use case is exclusive to SNS 4.8.7 and higher versions. For earlier SNS versions, you must perform this operation from the CLI console.

1. Log in to the SNS firewall web administration interface. A window prompts you to seal the TPM module of the SNS firewall.



2. Enter the TPM module administration password in the relevant field.
3. Click on **OK**.
4. If the SNS firewall is part of a high availability cluster, a second window prompts you to seal the TPM module of the passive firewall. Enter the TPM module administration password and click on **OK**.

From the CLI console

1. Seal the TPM on the SNS firewall with the command:

```
SYSTEM TPM PCRSEAL tpmpassword=<password>
```

   Replace `<password>` with the TPM module administration password.

2. If the SNS firewall is part of a high availability cluster, seal the TPM on the passive firewall with the command:

```
SYSTEM TPM PCRSEAL tpmpassword=<password> serial=passive
```

Further reading

Additional information and answers to some of your questions may be found in the Stormshield knowledge base (authentication required).

documentation@stormshield.eu

All images in this document are for representational purposes only, actual products may differ.

Copyright © Stormshield 2026. All rights reserved. All other company and product names contained in this document are trademarks or registered trademarks of their respective companies.