

SE Net Unit eXtension (NUX)

Version 1.0
December 2019

Release Notice

All rights reserved, including intellectual property rights.
Technical data subject to modifications and delivery subject to availability. Any liability that the data and illustrations are complete, actual or correct is excluded. Designations may be trademarks and/or copyrights of the respective manufacturer, the use of which by third parties for their own purposes may infringe the rights of such owner.

© 2019 Fujitsu Technology Solutions GmbH

Fujitsu and the Fujitsu logo are trademarks or registered trademarks of Fujitsu Limited in Japan and other countries. BS2000 is a trademark of Fujitsu Technology Solutions GmbH in Germany.

| | |
|---|----------|
| 1 General | 3 |
| 1.1 Ordering | 3 |
| 1.2 Delivery | 3 |
| 1.3 Documentation | 3 |
| 2 Software extensions | 4 |
| 3 Technical information | 5 |
| 3.1 Resource requirements | 5 |
| 3.2 Software configuration | 5 |
| 3.3 Product installation | 5 |
| 3.4 Product use | 5 |
| 3.5 Obsolete (and discontinued) functions | 5 |
| 3.6 Incompatibilities | 5 |
| 3.7 Restrictions | 6 |
| 3.8 Procedure in the event of errors | 6 |
| 4 Hardware requirements | 7 |
| 5 Firmware levels | 7 |

1 General

This Release Notice contains in concise form the most essential dependencies and operation information for the M2000 add-on SE Net Unit eXtension (NUX) V1.0 for supporting CISCO Switches with NX-OS operating system in Fujitsu Server BS2000 SE700/SE700B/SE710 and Fujitsu Server BS2000 SE300/SE300B/SE310.

The contents correspond to the release date December 2019.

The current release corresponds to the following delivery release:
M2000 add-on NUX V1.0.0-5.0

The following Release Notice must also be taken into consideration:

- M2000 V6.3A

1.1 Ordering

The NUX V1.0 software is part of the SE NUX Premium Service (NUXC), which can be commissioned project specific. An explicit order of the add-on is not required.

1.2 Delivery

The software NUX V1.0 is provided and installed as part of the SE NUX Premium Service by a Fujitsu service employee on the MU of the SE server.

1.3 Documentation

The concept and operation of the SE Manager is described in the manual

- Fujitsu Server BS2000 SE Series
Administration and Operation

Information on the additional navigation levels of the SE Manager provided by the M2000 add-on NUX software can be found in the online help pages for the respective SEM work areas in German and English.

The documentation for the SE servers as well as the current versions of these and other release notes are available on the Internet at <https://bs2manuals.ts.fujitsu.com>.

The documentation for the Cisco switches used by NUXC can be obtained from the following links on the Internet in English:

<https://www.cisco.com/c/en/us/support/switches/nexus-93180yc-fx-switch/model.html>

<https://www.cisco.com/c/en/us/support/switches/nexus-9348gc-fxp-switch/model.html>

2 Software extensions

An SE server can be extended with several NUX Partitions, in addition to the existing Net Unit. Each NUX partition consists of two similar switches (redundancy) of the company Cisco with NX-OS operating system and is assigned to a NUX zone.

With the M2000 add-on for NUX, SE servers as of Version V6.3A will support Cisco Nexus 9000 series switches in the NUX partitions.

The M2000 add-on NUX V1.0 offers the following functionality:

- Display functions in SE Manager (SEM) analogous to the Net Unit for
 - Hardware (status of switches and networks)
 - Performance (data throughput at the ports of the switches)
 - Network topology
- Configuration
 - SEM provides an ssh terminal for access to the CLI of the switches
 - (Configuration via NX-OS CLI)
- Service support
 - HW Monitoring & Tele Service calls
 - Daily configuration data backup of the switches
 - Tools to facilitate the Cisco FW upgrade of the switches
 - Export and import of NX-OS configuration data

3 Technical information

3.1 Resource requirements

The use of the M2000 add-on NUX does not create any special requirements for the resources of the Management Unit.

3.2 Software configuration

- SE Manager
 - M2000 V6.3A

3.3 Product installation

The M2000 add-on NUX is installed as part of the SE NUXC service on all management unit (s) of the SE server by an FTS service technician.

Any required new correction releases for the NUX software will be provided as part of the NUXC service contract and installed by your responsible service technician.

3.4 Product use

The M2000 add-on NUX enables BS2000 server units and / or larger application unit configurations to be client-specific, physically and logically separated, monitored and redundantly connected to the customer network.

For this, the Net Unit of a SE server is extended by NUX zones with partitions

- Each NUX partition consists of exactly two similar Cisco switches (redundancy) and is assigned to exactly one NUX zone.
- Up to 12 partitions are released per SE server.

3.5 Obsolete (and discontinued) functions

- none

3.6 Incompatibilities

- none

3.7 Restrictions

- none

3.8 Procedure in the event of errors

For successful diagnostics and elimination of software problems, sufficient error documentation has to be created or saved as soon as possible.

The Release Notice for M2000 V6.3A describes the procedure for creating diagnostic data at the Management Unit.

In addition to this data, in case of a problem in the area of the configuration of the Cisco switches, the version of the used NX-OS firmware, as well as the used running configuration of the Cisco switches is needed.

This information is displayed in the SE Manager in the Details View (Eye icon) on the page Hardware -> IP Networks -> <zone> (NUX) -> Switches for example.

4 Hardware requirements

The M2000 add-on NUX V1.0.0-5.0 supports the following Nexus 9000 switches:

- 9348GC-FXP for 1 GBit partitions with RJ45 connectors (e.g. for administration)
- 93180YC-FX for 10 Gbit partitions with SFP modules (e.g. for data traffic)

5 Firmware levels

The Cisco switches run the firmware NX-OS.

The release for the M2000 add-on NUX V1.0.0-5.0 is based on the switch firmware NXOS version 9.2 (3). Newer FW releases are installed at the customer's by a Fujitsu technician as part of NUXC service.