

**Fujitsu Software BS2000**  
**SE Net Unit eXtension (NUX)**  
**Version 1.1**  
**March 2025**



## Release Notice

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# 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) V1.1 for supporting Cisco Switches with NX-OS operating system in Fujitsu Server BS2000 SE740, SE730/B, SE710, SE340, SE330/B, SE320 and SE310.

**The contents correspond to the release date March 2025.**

The current release corresponds to the following delivery release:  
M2000 add-on NUX V1.1.0-3.0

The following Release Notice must also be taken into consideration:

- M2000 V6.6A

## 1.1 Ordering

The NUX V1.1 software is part of the SE NUX Premium Services (NUXC), which can be commissioned project specific. An explicit order of the add-on is not required.

## 1.2 Delivery

The software NUX V1.1 is provided and installed as part of the SE NUX Premium Services 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 following 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>. There you will find both individual manuals and (under the "Softbooks" tab) the ISO image of a DVD with the entire inventory.

The documentation for the Cisco switches used by NUX 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

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

With the M2000 add-on for NUX, SE servers as of Version V6.6A will support Cisco Nexus 9000 series switches in the NUX partitions.

The M2000 add-on NUX V1.1 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 a 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

### 2.1 Software extensions of M2000 Add-on NUX V1.1

- The information from the Cisco Nexus switches is now obtained via SNMP. This makes it possible to display in the SEM data from switches operated in ACI mode.
- On switches in NX-OS mode, mirror ports can be set up using service commands.

## 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

M2000 as of V6.6A with MV6.6A0107U020 and MV6.6A0107U030, installed in ascending order. These updates will be integrated into M2000 V6.6A SP1 and will then no longer need to be installed.

### 3.3 Product installation

The M2000 add-on NUX is installed as part of the SE NUXC service on all management units of the SE server by a 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

- 10 NUX partitions are possible per NUX zone.
- Each NUX partition consists of two similar Cisco switches (redundancy) and is assigned to exactly one NUX zone.

### 3.5 Obsolete (and discontinued) functions

- none

### 3.6 Incompatibilities

- none

### 3.7 Restrictions

- The configuration and the logging of switches operated in ACI mode cannot be displayed.
- The configuration of switches operating in ACI mode cannot be saved on the MU.
- After rebooting a MU, the collectSwitchEncryption command must be executed in a service shell on this MU. This restriction will be removed with M2000 V6.6A SP1.

### 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 V6.6A 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 can be displayed for switches not operated in ACI mode e.g. in the SE Manager in the Details View (Eye icon) on the page Hardware -> IP Networks -> <zone> (NUX) -> Switches.

## 4 Hardware requirements

The M2000 add-on NUX V1.1 supports the following Nexus 9000 switches:

- 9348GC-FXP for 1 Gbit partitions with RJ45 connectors (e.g. for administration)
- 93180YC-FX and 93180YC-FX3 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 V1.1 is based on the switch firmware NXOS version 10.4(4). Newer FW releases for switches not operated in ACI mode are installed at the customers by a Fujitsu technician as part of NUXC services.