

High-Speed Net Connect (HNC)

Version 6.0A REV=03  
June 2015

Release Notice

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# 1 General information

This Release Notice is a summary of the major extensions, requirements, and operating information for HNC V6.0A in Fujitsu Server BS2000 SE700 and Fujitsu Server BS2000 SE500.

The release level V6.0A0302 is that of June 2015.

The information in the Release Notices for the following delivery units should also be noted:

- M2000 V6.0A
- OSD/XC V10.0, OSD/XC V9.5, OSD/XC V8.5

This and other current release notices are available on the SoftBooks DVD and online under: <http://manuals.ts.fujitsu.com/> .

If one or more of the previous upgrades are skipped when this version is used, then the information in the release notices (or README files) for these previous versions must also be taken into account.

## 1.1 Ordering

The HNC V6.0A0302 software is supplied preinstalled on the HNC (as part of the server unit /390 or ordered individually) and cannot be ordered separately.

## 1.2 Delivery

The software files for HNC V6.0A0302 are supplied on one DVD.

Designation:  
HNC V6.0A0302 Release: 22.06.2015

The MAC addresses required for the HNC are supplied on the license CD.

## 1.3 Documentation

The following manuals are part of the SE server documentation:

- Operating Manual SE700 / SE500 / SE300 (comprising of several modules)
  - FUJITSU Server BS2000 SE700 / SE500 / SE300 Basic Operating Manual
  - FUJITSU Server BS2000 SE700 / SE500 / SE300 Server Unit x86
  - FUJITSU Server BS2000 SE700 / SE500 Server Unit /390
  - FUJITSU Server BS2000 SE700 / SE500 / SE300 Additive Components
- FUJITSU Server BS2000 SE700 / SE500 / SE300 Operation and Administration

- FUJITSU Server BS2000 SE700 / SE500 / SE300 Quick Start Guide
- FUJITSU Server BS2000 SE700 / SE500 / SE300 Security Manual

The documentation is also available in the Internet under:  
<http://manuals.ts.fujitsu.com>. Manuals displayed with an order number can be ordered as printed versions.

The current versions of this and other Release Notices are available under  
<http://manuals.ts.fujitsu.com>.

The BS2000 documentation is available on DVD, in German and English, under the title BS2000 SoftBooks.

## 2 Software extensions

HNC V6.0A is the further development of the HNC software V2.1A, which is used on the HNC-V 91854 and HNC-VI 91855. HNC V6.0 is used solely on the SE HNCs of the Fujitsu Server BS2000 SE700 and the Fujitsu Server BS2000 SE500.

Only the extensions and enhancements over the previous version V2.1A are described below.

- Rebasing to SLES 11 SP3
- Support of the /390 server units in the BS2000 servers of the SE series
- Redesign of the internal IP network (net unit)
- Introduction of the Web API for all administration and operating functions via SE Manager to the management unit
- Net-Storage support enhancements
- Performance improvements

## 3 Technical information

### 3.1 Resource requirements

Two 600 GB disks, which occupy slots 0 and 1, are required for the installation of the system. These are switched together to form a hardware mirror, on which five virtual disks are configured. The SW mirror function enables a system status to be frozen and then to be activated by Service after software errors.

VD	MU	Use
VD0	50 GB	ROOT, VAR, SWAP
VD1	50 GB	ROOT (Installation), CRASH
VD2	50 GB	ROOT standby, VAR standby, ARCHIVE
VD3	100 GB	DATA
VD4	16 GB	Configuration Raw Device (CRD)

An SE HNC is equipped in its basic configuration with a 32 GB memory (2\* 16GB DDR3 modules).

### 3.2 SW configuration

#### **Linux is not released for use on HNC**

The Linux appliance HNC is a scaled-down Linux system. This is why the use of Linux on HNC is not released for customer applications.

### 3.3 Product installation

A HNC is supplied preinstalled as part of the net unit with the delivery of the /390 server unit. Any required new correction levels for the HNC are supplied as part of the hardware service contract and are installed by the service technician responsible for you.

### 3.4 Product use

HNC operation takes place via a web-based graphical user interface. Local access is possible via a web browser that is started in the M2000 and which is on the rack console integrated in the SE rack.

Remote operation and administration takes place via PC workplaces that can access the SE Manager via a web browser.

To ensure that all SE Manager functions can be used an up-to-date Internet browser is required.

- Supported browsers
  - Microsoft Internet Explorer from version 10
  - Mozilla Firefox from version 17.0 ESR
- Tolerated browsers:
  - Internet Explorer 8 & 9 (with the restriction that uploads are not supported).

- Browser settings:
  - JavaScript is permitted.
  - Cookies are permitted.

### 3.5 Obsolete (and discontinued) functions

The following functions are no longer supported as of this version:

- Only FC (FibreChannel) direct connections are supported for the connection to the /390 server units. Operation via s switch is no longer permitted. The setting of FC speed or a virtual WWPN is therefore also no longer required.
- The HNC is no longer connected to the administration LAN. It is administered via the SEM (SE Manager) on the related MU.
- LDAP IDs can no longer be used.
- Network access via onboard LAN interfaces is not permitted.

### 3.6 Incompatibilities

Operation and administration of the SE HNC is solely performed via the management unit with the SE Manager as a web-based GUI. The SE Manager is an integral part of M2000 V6.0A. M2000 is supplied preinstalled on the management unit (MU) of the SE server.

### 3.7 Restrictions

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### 3.8 Procedure in the event of errors

In order to successfully diagnose and eliminate software problems, sufficient error documentation must be created and saved as early as possible.

If possible, error report documents should be supplied in the form of files so that they can be processed with diagnostics tools. Reproducible errors are to be described accurately so that the error can be generated.

If an error situation occurs, the generation of diagnostics data can be initiated via the SE manager on the management unit by way of the "Diagnostics" tab.  
Hardware -> Server (SE<model>) -> <Name> (HNC) -> Service -> Diagnostics

The diagnostics data file is a compressed tar archive and contains important logging, trace and configuration files of the unit.

If errors occur in the SE Manager, hard copies should be made of the screen.

Access via AIS Connect is mandatory for diagnostics purposes! If there is no AIS Connect access, the service provider can charge for any additional outlay separately.

## 4 Hardwarerequirements

HNC V6.0A is an integral part of the net unit of a BS2000 /390 server.

The software version HNC V6.0A302 is used on the following hardware models:

SE HNC, based on Primergy RX200-S8

## 5 Firmware versions

The following minimum firmware versions should be used:

HNC	FW Version
BIOS	4.6.5.4 Release 1.9.0
iRMC	7.82F
RAID Controller SAS 6G 5/6 512MB (D2616)	2.130.353-2727
FC Controller LPe12002	2.01A12