FUJITSU

High-Speed Net Connect (HNC)

Version 6.1A REV=01
*1 May 2016

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 V6.1A in Fujitsu Server BS2000 SE700 and Fujitsu Server BS2000 SE500.

*1 **The release level V6.1A0104 is that of May 2016.**

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

- M2000 V6.1A
- 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

*1 The HNC V6.1A0104 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

*1 The software files for HNC V6.1A0104 are supplied on DVD.

Designation:
*1 HNC V6.1A0104 Release: 12.11.2015

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 V6.1A is the further development of the existing HNC version V6.0A and offers the following extensions and enhancements over the previous version:

- Rebasing of the LINUX operating system basis to SLES 11 SP4
- Connection of the server unit /390 to a 10GB switch (Brocade ICX 7750) of the net unit (optional).
- In addition to the optical technology a copper 10Gbit/s Ethernet connection is also supported now for a connection to the customer network.

HNC V6.1A is exclusively used on the SE HNCs of the Fujitsu Server BS2000 SE700 and Fujitsu Server BS2000 SE500.

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

- BS2000:
  - OSD/XC V10.0
  - OSD/XC V9.5
  - OSD/XC V8.5 (only as a guest system under VM2000)

- VM2000 V11.0, V10.0 (the new functions are not available for the SE server in VM2000 V10.0)

- SE Manager
  - M2000 V6.1A

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

In order to administer the SE servers HNC operation takes place via the SE Manager, 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

- None

3.6 Incompatibilities

- None

3.7 Restrictions

*1

- None

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 to the management unit of the SE server is mandatory via AIS Connect for diagnostics purposes! If there is no AIS Connect, the service provider can charge for any additional outlay separately.

4 Hardware requirements

HNC V6.1A is an integral part of the net unit of a BS2000 Fujitsu Server BS2000 SE700 or SE500.

*1 The software version HNC V6.1A0104 is used on the following hardware models:

SE Server HNC M1, 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