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**June 2016**

## Remarks about the FW licence and FW update

Starting with FW-Version 00.06.07.00 every FW needs a licence file to enable the functionality of the target system. If the licence file is missing no calls can be made, only remote access is possible. The licence file is transmitted to the target system using the NovaTec configuration software or is already present in the target system if a new system is purchased. The following steps need to be considered when updating a system:

**General remarks on FW updates:**

In general a new licence is required whenever you update to a non bugfix FW version. A non bugfix version differs in more than just the last two numbers from the previous installed version.

Your release number consists of 8 digits in the following form: XX.XX.XX.YY

A new license is **not** required if only the last two digits of your current FW release differ from the release updated to. Meaning only the Y-variables in the release number change (e.g. update from 00.08.02.00 to 00.08.02.05).

All FW releases with changes to the X-variables require a new license (e.g. update from 00.08.01.00 to 00.08.02.00).

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**Remarks about the new licence policy introduced with firmware release 00.08.03.00:**
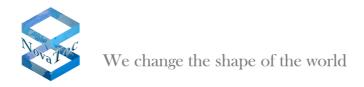
The firmware now checks the number of licenced total and VoIP channels. If the configured number of total or VoIP channels exceeds the corresponding licenced number of channels the system will block all calls and only remote maintenance will be possible.

As in previous firmware versions the MAC address and the installed firmware version need to match the installed licence, otherwise the system will block all calls and only remote maintenance will be possible.

A separate TLS licence file is no longer required. The firmware licence file now includes the licence information for the basic licence and all additional features. Additional features at this time are: TLS and RMCS server. If an additional feature is not allowed by a licence file that feature will be not serviceable. Other features will work without problems as long as the basic licence is valid.

Please note:

- A firmware downgrade of a CCU4 to a version below 00.08.03.00 is not possible once version 00.08.03.00 or higher has been installed on the CCU4. A downgrade within the firmware family 00.08.03.xx or higher is possible.

- The basic factory licence includes 16 channels total on purchase of hardware. If further channels are required these have to be purchased additionally from NovaTec (please contact NovaTec sales in case). Any combination of TDM and VoIP channels can be configured as long as the maximum of the total channel number and the maximum of the licenced VoIP channels are not exceeded.

- The features TLS and RMCS server are not active in the factory licence and must be purchased separately if required.

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## NovaTec Release Information Firmware 00.08.04.00

**1.** **Bug fixes included in this release**

**2.** **New features**

**3.** **Other changes**

**4.** **Known issues**

**5.** **Dependencies**

**6.** **System requirements**

**1.** **Bug fixes included in this release**

**CCU3 and S3 related:**

- Call-Home connections often failed using TLS with SHA-256 due to the lower CPU speed of the S3/CCU3. The problem has been solved. A call home TLS connection now has got 20 seconds to be established.

**Related to all systems:**

- SIP SDP offers including multiple SRTP encryption methods were not handled correctly. The system always chose the last option even it supported better ones. The problem has been solved.

- The hardware status display in the Trace Info Client showed a S04 board on a CAU as a SU04 board. The problem has been solved.

- It could happen that b-channel 30 of a PRI interface was never selected by an ISDN trunk group. The problem has been solved.

- An MLPP call failed if the called (preempted) party was an analogue subscriber. The problem has been solved.

## 2. New features

- Running systems populated with an analogues card on a CAU1/CAU2 did not support hot plug feature. This feature has been created now.

- TLS1.2 with SHA256 is being supported now.

- Longer SRTP keys (AES with 256 bit key length) is being supported now.

- A system setup as an RMCS server can also route normal calls (the combination of Gateway, RMCS Server and SBC is possible now). This feature requires an extra licence. This feature is not available for S3 units running in SIP line mode and is only applicable for S3 in SIP trunk mode.

- NLP (NovaTec Link Protocol for transparent transfer of D and B Channel information via IP) on UP0 interfaces on the S3 is now supported. This feature requires NMP 7.4.

- A new filter of VoIP codec on all CCUx boards (x>= 4) restricts a codec change after per SIP/SDP signalling negotiated one. This feature prevents SRTP DOS attacks for connections which try to use a different codec than negotiated. This feature is set as a default configuration in the factory and can be switched off in the configuration file by user.

## 3. Other changes

- Data calls were disconnected if the RMCS connection was lost and no new RMCS connection could be established. This behaviour has now been changed. The call will be kept to give it a chance to finish successfully before bit errors occur.

## 4. Known issues

### CCU3 related:

- No remote support under heavy stress test.
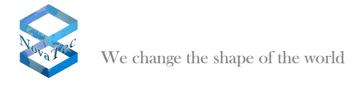
### Related to all systems:

- No calling tone, if a loop is programmed in the alternative route of the callee.

## 5. Dependencies

A list of dependencies for the different features can be found on our website http://www.novatec.de/handbooks/Kompatibilitaetsmatrix_15042016.pdf.

## 6. System requirements

This firmware supports Cisco Unified Call Manager version 9.1 to 11.x.

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**NovaTec Kommunikationstechnik GmbH**