We change the shape of the world

June 2014

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 needs to be considered when updating a system:

For running systems or newly purchased systems using FW 00.07.00.55 (or higher) which are configured with NMP 6.5 (or higher):

Your system already has a valid licence file for the appropriate Firmware and NMP Version 6.5 or higher software allows the transmission of configuration data without loading a licence file. The licence file will stay in the target system. It will only be deleted if you overwrite it with another licence file or if you delete the target system's flash. You only need a new licence file if you update to FW version 00.07.01.00 or higher.

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).

We change the shape of the world

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 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 seperately if required.

NovaTec Release Information Firmware 00.08.03.02

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

2. **New features**

3. **Other changes**

4. **Known issues**

5. **Dependencies**

6. **System requirements**

1. **Below is a list of bug fixes that have been resolved in this release**

   CCU4 related:

   - If fallback occurred on an outgoing SIP call (e.g. first SIP counter part e.g. CUCM is not available or out of order) then no ring back tone was heard by the calling user. The problem has been solved.

   CCU3 and S3 related:

   - None.

   Related to all systems:

   - It could happen that the target system performed a reset if a SIP trunk was closed. The problem has been solved.

   - It could happen that the target system performed a reset if the distinguished subject name of the received TLS server certificate was longer than 200 signs. The distinguished subject name has the following format: "`subject name: /serialNumber=.../C=.../ST=.../L=.../O=.../OU=.../CN=...`". The problem has been solved.

   - It could happen that the target system performed a system reset if a response for an NTP request was received. The problem has been solved.

   - The OpenSSL stack included in the firmware had a MITM security problem (see "OpenSSL Security Advisory [05 Jun 2014]: SSL/TLS MITM vulnerability". The problem has been solved. NovaTec recommends for all security operation to use this Firmware version only within the 00.08.03.xx Firmware range.

2. New features

None.

3. Other changes

None.

4. Known issues

None.

5. Dependencies

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

6. System requirements

This firmware supports Cisco Unified Call Manager version 8.6 to 9.1.

June 2014

NovaTec Kommunikationstechnik GmbH

NovaTec Release Information Firmware 00.08.03.01

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

2. **New features**

3. **Other changes**

4. **Known issues**

5. **Dependencies**

6. **System requirements**

1. **Below is a list of bug fixes that have been resolved in this release**

   CCU4 related:

   - After a call had been successfully pre-empted (cleared because of a call with higher priority coming in) the higher priority call was cleared as soon as the called user hung up to finish clearing of the pre-empted call. The problem only occurred if the called user was using an analogue phone, ISDN lines were not affected. The problem has been solved.

   - It could happen that the log statistic in the Trace Info Client on the "Diagnosis" page only showed the value 0 for all counters. The problem has been solved.

   - Calls were possible but no tones (e.g. ring back tone) were played out if the CCU4 was configured with VoIP disabled. After the callee answered the call the audio connection between both parties was fine. The problem has been solved.

   CCU3 and S3 related:

   - None.

   Related to all systems:

   - It could happen that the system crashed on making a call if the system was configured to generate charging information in the LCR (Least Cost Routing) module. The problem has been solved.

   - SIP calls were cleared by the system if the system time was set back during the call. The problem has been solved.

   - It could happen that a calling user heard a ring tone on not successful calls (destination phone not connected or busy). The problem occurred e.g. if the option "Early offer" was active in the Cisco UCM SIP trunk profile of the called NovaTec gateway. The problem has

been solved.
- The Trace Info Client showed that the license was valid under the "System Security" view if a firmware license in the old format was transmitted to the target system. In fact, the license was not valid and no calls were possible. The problem has been solved.

- A call using overlap dialling which is routed over the LCR module usually receives an external dial tone. The tone was present on ISDN lines but was missing on analogue lines. The problem has been solved.

- An out-going line group call over SIP was unnecessarily delayed by the "inter digit timer". That means the system was waiting for additional digits until a timer ran out. The problem has been solved.

2. New features

None.

3. Other changes

None.

4. Known issues

None.

5. Dependencies

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

6. System requirements

This firmware supports Cisco Unified Call Manager version 8.6 to 9.1.

January 2014

NovaTec Kommunikationstechnik GmbH

NovaTec Release Information Firmware 00.08.03.00

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

2. **New features**

3. **Other changes**

4. **Known issues**

5. **Dependencies**

6. **System requirements**

1. **Below is a list of bug fixes that have been resolved in this release**

   CCU4 related:

   - None.

   CCU3 and S3 related:

   - None.

   Related to all systems:

   - On calls from a DSS1 trunk to a GSM trunk it could happen that a busy tone from the GSM network was not passed through to the caller so that he still heard a ring tone. The problem only occurred if a GSM callee rejected the call after the NovaTec-GSM-Gateway had already sent a fake alerting. The problem has been solved.

   - Incoming calls in "ringing" state were misstated as "dialling" in the call server. The problem only occurred on calls going out over a GSM trunk if the NovaTec-GSM-Gateway had already sent a fake alerting. The problem has been solved.

2. **New features**

   - The new CAU board is now supported. The board replaces the old CAU and can carry the same amount of daughter boards. The connectors on the front panel are RJ45 connectors. The feature requires NMP version 7.3.0.

   - The new UK04 card is now supported. It replaces the old ULU board but is a daughter board like the BRI and PRI cards. Thus it is possible to have 12 U interfaces in one slot by using 3 UK04 boards instead of only 4 with the ULU board. The lines delivered by the UK04 board are powered. As an hardware option, the UK04 card can be delivered with line code 2B1Q (article no. 1F5010-5) or 4B3T (article no. 1F5010-6). The feature requires NMP version 7.3.0.

- The firmware now supports the automatic calculation of the daylight saving time for Europe. The feature requires NMP version 7.3.0.

- The firmware now supports the signalling of MSNs in international format via SIP using '+' instead of only '00'. '00' is used internally in the MSN and in the numbering plans because '+' is not a valid sign in ISDN/DSS1 party numbers. '00' is only replaced by '+' if the option "Do not insert '+' for international numbers" is switched off.

- The firmware now supports SMS notifications on rejected calls to a GSM party. The feature requires NMP version 7.2.0.3.

3. Other changes

Related to all systems:

- A new licence format has been introduced. The licence allows a certain number of total and VoIP channels. The system will only be operable if the licence is sufficient for all configured channels. All licences are now included into one file. A separate TLS licence file is no longer required. With this new licence format the RMCS server will only be operable if the service RMCS-Server is allowed by the licence. RMCS clients do not require a licence.

4. Known issues

- With a S3 connected to a CUCM as a line device it can happen that a calling IP phone receives a ring back tone even when the callee behind the S3 is busy or not plugged in.

- In case an ISDN phone behind a NovaTec gateway is busy it will take three seconds until the caller is informed that the callee is busy. This behaviour is mandatory for the ISDN bus and is specified in European and international ISDN standards. This is not a bug but because of this ISDN behaviour the user experience is different compared to SIP to SIP or SIP to analogue calls.

- Call forwarding busy on the S3 line is not working if it is activated from the ISDN or analogue phone. The locally forwarded call from the S3 is rejected from CUCM with "Busy here". But the destination of the call has no active call. The problem is caused by the "Busy trigger" in the CUCM configuration for the S3. As a workaround call forwarding busy can be activated in the CUCM configuration.

5. Dependencies

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

6. System requirements

This firmware supports Cisco Unified Call Manager version 8.6 to 9.1.

September 2013

NovaTec Kommunikationstechnik GmbH