We change the shape of the world

June 2012

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 higher Version 6.5 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. e. g.:

Update from 00.06.07.00 to 00.06.07.02:
Update to a bugfix firmware version. No new licence is required.

Update from 00.06.07.00 to 00.07.00.55:
Update to a FW version including new features. A new licence is required.

Update from 00.07.xx.xx to 00.08.01.00:
Update to a FW version including new features. A new licence is required.

NovaTec Release Information Firmware 00.08.01.00

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

2.   **New features**

3.   **Other Changes**
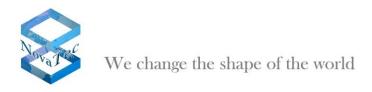
4.   **Known Issues**

5.   **Dependencies**

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

- One way audio in all cases, in which the NovaTec-GW received a Re-INVITE with a new sRTP key. The problem has been solved.

- Forwarded calls were delayed for a few seconds before the diverted call was routed to its destination. The exact delay depended on the setting of the SIP-Interdigit-Timer (see field "Wait time between each digit (overlapped)" in the NovaTec-Configuration under "NIP (Novatec Internet Pathfinder)/SIP (VoIP)/SIP <-> ISDN options)"). The problem has been solved.

- Incoming Calls on a RMCS server were shown in a wrong call state for active calls in the CDRs. The call state shown was "dialling". The problem has been solved. Now the call state will show "connected" for active calls.

- After a system restart the first call on an ISDN interface failed due to layer 2 activity delay. The problem has been solved.

- The target system performed a restart in case of activated call home in the configuration without editing an appropriate correct IP Address for the NMS or NAMES server. The reset occurred in the moment in which a call home to the faulty configured server was established. The problem has been solved. The target system will not perform a reset if the IP address is not valid now. Of course the call home itself will not be successful.

- If the B-channel number changed during channel negotiation on ISDN interfaces the new B-channel was used correctly but not displayed in the CDRs. The CDRs still showed the old, offered B-channel number of the TE side. The problem has been solved.

2.   **New features**

Firmware extensions for the support of NAMES:
- Increased message buffer length for remote access to speed up firmware and configuration upload.

- Support for querying information about the installed music on hold. NAMES receives information about the installed music on hold file and can therefore determine if any music on hold file is present on the target system and which file exactly is installed. This enables

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NAMES to transmit music on hold files only when required to optimize the transfer speed and the required bandwidth.

- Support of a new system reset command which allows NAMES to let the target system perform a reset only when no calls are active.

- On sending a time event the target system now includes information about the next time event. With this information NAMES can monitor more precisely when the next time event is to be expected and when a system is overdue and might have problems.

- The following new call home events are supported:
  1. Call Setup Time Threshold-Event for the analysis of the Performance Management Tool.
  2. TLS CA certificate invalid in one week.
  3. TLS certificate invalid in one week.
  4. TLS has default time.
  5. TLS own chain invalid.
  The feature requires NMP version 7.1.0.0 or higher.

- The firmware now supports the new CCU4 board. The CCU4 board replaces the CCU3 and BCU boards and can handle up to 128 TDM to VoIP calls simultaneously. The feature requires NMP version 7.1.0.0 or higher.

- The firmware now supports the UP0 board. The UP0 board is a sub module like the S04 or ANA4 and can be placed on the CCU3, CCU4 or CAU boards. The UP0 board supports four UP0 interfaces. The feature requires NMP version 7.1.0.0 or higher.

- The firmware supports the operation of RTP on a separate Ethernet interface. With the CCU4 it is possible to run RTP/sRTP on one Ethernet interface and SIP signalling together with remote maintenance on the other. The feature requires NMP 7.1.0.0 or higher. Of course, this feature is not possible on the S3 or CCU3.

3. Other changes

None.

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 will be 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.

- If the REFER method is used to perform a transfer in the CUCM the transfer will fail when the second call is an incoming call. The transfer will be successful if both calls are outgoing or if at least the second call is outgoing.

5. Dependencies

S3 registration as a line device in CUCM:
The feature requires NMP version 6.3.2 or higher and CUCM version 7.1.2 or higher.

Feature Data-Calls with clear channel codec (X-CCD):
The feature requires NMP version 6.3.2 or higher and CUCM version 7.1.2 or higher.

Feature TLS:
The feature requires NMP version 6.7.0.4 or higher and CUCM version 7.1.3 or higher. TI-CA 1.6.0.2 is required if client/server authentication is used. Please use only TI-CA 1.6.0.2.

Feature MLPP:
The feature requires NMP version 6.6 or higher. If the NovaTec-GW is connected to a CUCM MLPP works only on SIP trunks. The feature cannot be used on a S3 which is configured as a line device.

Feature RMCS:
The feature requires NMP 6.7.0.4 or higher. To use RMCS on a S3 a special S3 hardware is required (article no. 1F8xxx-R). To use RMCS on a CCU3 based system, the CCU3 must have at least R-State R8E.

Feature 3PTY:
The feature requires a CCU3 based system and cannot be used on a S3.

Feature SCEP:
The feature requires NMP 6.7.0.4 or higher.

Feature CLI over Trace Info Client:
At least Trace Info Client version 6.8.0.5 is required. Please visit our website for detailed information about CLI commands and software and firmware versions supporting the CLI.

Feature CCU4 support:
The feature requires NMP version 7.1.0.0 or higher.
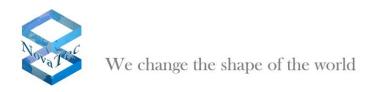
Feature UP0 support:
The feature requires NMP version 7.1.0.0 or higher.

Support for the features call home events "Call Setup Time Threshold-Event", "TLS CA certificate invalid in one week", "TLS certificate invalid in one week", "TLS has default time" and "TLS own chain invalid":
The features require NMP version 7.1.0.0 or higher.

Feature Separate RTP/SRTP:
The feature requires NMP version 7.1.0.0 or higher. The feature can only be used on the CCU4 hardware.

NMS support:
NMS is not supported with this Firmware and all future Firmware Releases.

NAMES support:
This firmware supports NAMES. There is no direct dependency to NAMES itself but to support NAMES properly, the target system needs to be configured with NMP 7.1.0.0 or newer.

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