May 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:
Your system already has a valid licence file and NMP 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 a 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.

NovaTec Release Information Firmware 00.07.04.01

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

- On analogue lines it could happen that the transferring user still heard a ringback tone after performing a blind transfer. The problem did only occur on analogue lines when the REFER method was used to perform the call transfer. The problem is solved, now the transferring user hears the hang up tone after the transfer.
- A specific call take over could lead to a system reset if the user who activates the feature used an analogue phone. The problem is solved.
- On analogue lines it was possible to perform a blind transfer before the called user was ringing. This lead to strange situations e.g. the callers' phone and the called phone were ringing at the same time. The problem is solved. Now the blind transfer can only by performed when the called phone is ringing.
- It could happen that a call take over was not successful if the call came in from the SIP side. The problem was solved.
- The direction of the call in the CDRs was wrong for outbound RMCS calls. The problem is solved.
- It could happen that calls to an IP phone only had one way voice. The problem is solved. The problem occured for example if an unsecure NovaTec-GW (RTP) called a secured IP phone (SRTP) and in the NovaTec-GW the priority of the G.711 a-law codec was higher than the priority of the G.711 µ-law codec.
- It could happen that the NovaTec-GW sent RTP data with a different codec than negotiated. This lead to one way voice connections. It could happen that the problem occurred without being recognized because the counterpart which receives the RTP stream was able to automatically decode the stream with the right codec. The problem is solved.
- If an analogue user suppressed his number (CLIR) the name of the calling user was still presented to the called user. The problem is solved. Now the callers name is only presented to the called user if presentation of the calling number is allowed (CLIP).

- The following call flow caused a one way voice connection:
  1. SIP phone A calls user B behind a NovaTec-GW.
  2. User B answers the call.
  3. User B calls SIP phone C.
  4. B transfers A to C.
  5. A and C have a two way audio connection.
  6. A puts C on hold
  7. C hears the hold music.
  8. A resumes the call to C.
  9. Only a one way voice connection exists.

  The problem only occured if the call transfer was executed locally in the NovaTec-GW (without the REFER method being used)

- It could happen that the connected number and name were not properly displayed at the destination IP phone if a call was forwarded by a user behind a NovaTec-GW. The problem is solved.

2. New features

None.

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.

In case an ISDN phone behind a NovaTec gateway is busy it will take 3 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 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 got 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 outbound or if at least the second call is outbound.

The System PLL setup is not sufficient enough and it can happen that under specific circumstances it gets out of synchronization for a short time. This problem has been identified and is presently on reconstruction.

The following error can happen sporadically: Subscriber A holds subscriber B and dials the number of subscriber C. If subscriber A executes the blind transfer before ringing takes place at subscriber C it

can happen that subscriber B continues to hear the hold music. The time slot for this error is very short and randomly.

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.

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 is required if client/server authentication is used.

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 the 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, software and firmware versions supporting the CLI.

The firmware has no dependencies to NMS.

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NovaTec Kommunikationstechnik GmbH

NovaTec Release Information Firmware 00.07.04.00

6. **Bug fixes included in this release**
7. **New features**
8. **Other Changes**
9. **Known Issues**
10. **Dependencies**

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

- In some situations it could happen that the value in the CSeq header in a SIP CANCEL request was not correct. This lead to the problem that calls did not stop ringing when the caller hung up during the ringing phase of the call. The problem is solved.

- It could happen that going analogue calls were not displayed in the Call Server. The problem is solved.

- The following problem regarding call forwarding has been solved:
  1. Subscriber A activated call forwarding to Subscriber B
  2. The Diverted-To number included a prefix which should be cut off by the dialling plan
  3. Analogue Subscriber C called Subscriber A
  4. The NovaTec-GW tried to reroute the call but the prefix was not cut off from the Diverted-To number
  5. The diverted call did go out to a wrong number. Depending on the configuration this lead to failure of the call, to a call to a wrong destination or to a call taking the wrong route (trunk).

- If an incoming SIP call was forwarded the Connected Party Number (COLP) was not updated to the diverted-to number. This means, after the forwarded call had been answered the caller still saw the originally dialled number in his display and not the diverted-to number. The problem is solved. Now, the correct COLP is sent in the SIP OK message in the Remote-Party-ID header.

- The following problem has been solved:
  1. An IP phone connected to CUCM A called an ISDN phone on NovaTec-GW A.
  2. The call was transferred to an ISDN phone on a NovaTec-GW B in a different CUCM cluster.
  3. After the transfer the call between the ISDN phones had no audio connection or only noise was heard.

- The target system performed a reset after a CAU with 3 analogue cards (ANA4) was plugged out and back in (hot plug). The problem did not occur on the first or second hot plug but after 3 or 4 hot plugs. The problem is solved.

- If the REFER method is used to perform a transfer in the CUCM and a blind transfer is executed it can happen that the NovaTec-GW receives an Internal Server Error message from the CUCM.

The call transfer is successful anyway but the analogue or ISDN phone on the NovaTec-GW received an indication that the transfer has failed. Now the phone receives the positive indication that the transfer was successful.

7. New features

The firmware now supports the CLI within the Trace Info Client. Also four new CLI commands have been implemented for the control of Call Forwarding. These commands can be used over TELNET, the COM port or the Trace Info Client. For details about the CLI commands and the required software and firmware version please check the documentation on our website.

8. Other changes

None.

9. Known issues

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