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Remarks about the FW license and FW update

Starting with FW-Version 00.06.07.00, every FW needs a license file to enable the functionality of the target system. If the license file is missing no calls can be made, only remote access is possible. The license 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 has already got a valid license file in it and NMP 6.5 software allows the transmission of configuration data without loading a license file. The license file will stay in the target system. It will only be deleted if you overwrite it with another license file or if you delete the target system's flash. You only need a new license file if you update to a future, not yet existing FW version 00.07.01.00 or higher.

General remarks on FW updates:
In general a new license is required every time you update to a non bugfix FW version. A non bugfix version differs in more than just the last two digits 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 license is required.

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

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February 2010

NovaTec release information firmware 00.06.07.02

1   Bug fixes included in this release
1.1   New features

2   Known Issues

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

On the S3 it could happen that layer 2 on ISDN ports was unstable. This lead to the problem that existing calls were cancelled or that it was not possible to establish new calls. With older firmware versions than 00.06.07.02 the problem can occur occasionally or permanently. Therefore we strongly recommend to update to this version even if a target system runs without any problems. Only S3 systems are affected by this problem.

2. New features

None.

3. Known issues

None.

February 2010
NovaTec Kommunikationstechnik GmbH

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NovaTec release information firmware 00.06.07.01

1 **Bug fixes included in this release**
1.1 **New features**

3 **Known Issues**

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

A possible reset of the target system has been fixed. The problem did only occur if a forwarded call was routed using the LCR function. If no LCR was configured then no problem occurred with forwarded calls.

2. New features

None.

3. Known issues

None.

November 2009
NovaTec Kommunikationstechnik GmbH

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NovaTec release information firmware 00.06.07.00

1   Bug fixes included in this release
1.1   New features

4   Known Issues

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

None.

2. New features

The firmware now needs a valid firmware license to activate telephony functions.

Without a valid license a system running firmware version 00.06.07.00 or newer will be accessible for remote maintenance but no calls can be established. NLP connections will also not be possible.

This firmware requires software version 6.3.2 to upload the firmware license to the system. A reset of the system is required after uploading the firmware license.

3. Known issues

None.

September 2009
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NovaTec release information firmware 00.06.06.16

1   **Bug fixes included in this release**
1.1   **New features**

5   **Known Issues**

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

Since firmware version 00.06.06.16 it was not possible to get remote access to the system via ISDN. This problem has been resolved.

2. New features

None.

3. Known issues

None.

September 2009
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NovaTec release information firmware 00.06.06.15

1   **Bug fixes included in this release**
1.1   **New features**

6   **Known Issues**

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

If the RTP address or port changed during call establishment of a SIP call then there was no audio path established and the connection was cleared after 10 seconds. This problem has been solved (tracking number 778).

With calls from an analog interface going out to SIP it could happen that the analog interface was out of service for 1 minute if the called site rejected the call (tracking number 765).

It is impossible by intention that analog phones can not make any calls if there is no subscriber configured for the interface to which the phone is attached. But instead of hearing a network busy tone the user heard an internal dial tone after picking up the handset. The problem has been solved. If no subscriber is configured the user will now hear a network busy tone which indicates that he is not able/allowed to make a call (tracking number 770).

On analog phones it was not possible to control supplementary services after a wrong activation code was dialled. E.g. if a user having an active and one held call accidentally dials an invalid code like "R3" switching to the other calls with "R2" was not possible anymore. The problem has been solved (tracking number 771).

2. New features

The diversion header is now included in INVITE messages for forwarded calls to indicate the redirecting number (tracking number 764).

This firmware supports Network Management System version 7.0. This means that the following new Call-Home-Events have been implemented:

- Layer 1 active/inactive
- Layer 2 active/inactive
- CPU-Threshold
- RAM-Threshold

3. Known issues

August 2009
NovaTec Kommunikationstechnik GmbH

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NovaTec release information firmware 00.06.06.14

1　　　　**Bug fixes included in this release**
1.1　　　**New features**

7　　　　**Known Issues**

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

Problems with DTMF on the S5+, S6 and S20 have been solved.

Problems with fast modem and fax calls have been solved. Before the change modem and fax calls only worked with a maximum speed of 14400 kbaud. This problem existed since FW release 99.06.06.10.

2. New features

None.

　3. Known issues

June 2009
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NovaTec release information firmware 00.06.06.13

This release information describes all changes between firmware release 99.06.06.11 and 00.06.06.13.

1	**Bug fixes included in this release**
1.1	**New features**
8	**Known Issues**

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

Internal connections on a S5+/S6/S20 connected to a CUCM over a SIP trunk failed because the audio path could not be established. This problem has been solved.

On ISDN to SIP calls DTMF tones where sometimes not played out to the ISDN phone if a key was pressed on the IP phone. It could also happen that the tone was played out with a very low volume. This problem has been solved.

2. New features

If an ISDN or analog phone dials out over SIP then the # sign is now recognized as the termination sign for the dialled number and the call will be send out immediately as soon as the # is dialled.

3. Known issues

DTMF does not work for calls from analog interfaces to SIP. In direction from analog to SIP the DTMF tones are not transmitted cleanly so that mailboxes etc. can not recognize the tone as a valid DTMF tone. In direction from SIP to DTMF the DTMF tone is not played out to the analog line at all.

June 2009
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NovaTec release information firmware 00.06.06.11

1   **Bug fixes included in this release**
1.1   **New features**

9   **Known Issues**

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

A problem with not working GPS on the S3 has been fixed.

Problems with Call Transfer and Hold over SIP have been fixed (see Known Issues in 99.06.06.10).

Problems with Call Waiting on analog lines have been resolved (see Known Issues in 99.06.06.10).

On the S5+, S6 and S20 negative and positive tones for the control of supplementary services are now available on analog lines.

2. New features

There are no new features.

3. Known issues

None.

June 2009
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NovaTec release information firmware 99.06.06.10

1   **Bug fixes included in this release**
1.1   **New features**

10   **Known Issues**

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

The DSS1 Display information element was sent in direction from TE to NT for the presentation of the name. This has been fixed. The Q.931/ETSI standard says that the Display information element may only be sent form NT to TE.

Using a firmware which supports name presentation together with PC configuration tools which do not support name presentation (e.g. version 6.2) caused undefined signs to be sent in the name in the SIP-INVITE message. This problem is fixed.

If two NovaTec systems were connected together over SIP and the caller had the option "Selective 18x processing" enabled then this could lead to failing calls if early media was sent to the caller. The problem is solved.

Problems with call forwarding to SIP are fixed. Previously calls which should have been forwarded to SIP were disconnected instead. The system could also crash if it received a call forwarding deactivation request or an invalid call forwarding activation request (e.g. wrong MSN set in CF activation request).

Problems with Hold are fixed. The problem was that the CSeq value was not incremented properly in the Re-INVITE for hold and resume. The problem only occurs if PRACK is enabled in the S3 or S6 and the CUCM.

Parking an ISDN call is now rejected with a STATUS message. So the call stays active and is not cleared. Before the attempt to park an ISDN call lead to clearing of the call.

A problem with possible one way connections is fixed. A RTP port change during call establishment lead to one way conversation.

A patch was made to make local call forwarding possible on the S3. Right now call forwarding is done locally in the S3 or S6 so that call forwarding just looks like a second call for CUCM. This caused problems for the S3 because it did sent out a call with the CLIP of the original caller. So the CUCM did reject the forwarded call because it was initiated from an unknown DN/MSN (if the original call came in

from a number which is not connected to the S3). Now the S3 is sending the DN/MSN from the forwarding ISDN phone. The S6 is sending the correct number because it is connected over a SIP trunk.

2. New features

There a no new features.

3. Known issues

Call Transfer does not work with Hold over SIP.

After a waiting call is answered from an analog line, the two parties can not hear each other. After disconnecting both calls the analog line is not functional for some seconds.

May 2009
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NovaTec release information firmware 99.06.06.03

1   **Bug fixes included in this release**
1.1   **New features**

11   **Known Issues**

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

Problems with a malformed Contact field are resolved. Malformed contact fields had caused the following two problems:

- Data calls from the S3 to S6 (connected to CUCM over a SIP trunk) failed
- S3 calls Cisco IP phone connected to CUCM, Cisco IP phone puts S3 in hold, CUCM receives malformed contact field in OK from S3 sent as a answer for the Re-INVITE

In some situations the connected name has not been forwarded by the S3. The problem is fixed.

When the S3 was put in hold it did continue with sending RTP packets. This lead to the problem that MoH was not heard on the Cisco IP phone if MTP was switched off. The problem is fixed.

2. New features

There a no new features.

3. Known issues

MoH over a SIP trunk is still work in progress.

April 2009
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NovaTec release information firmware 99.06.06.01

1   **Bug fixes included in this release**
1.1   **New features**

12   **Known Issues**

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

The problem with S3 internal calls has been fixed. In previous releases the call dropped if delayed offer was activated and a phone called another phone on the same S3 (RTP loop).

In previous releases there was no Music On Hold if the S3 put a Cisco IP phone in hold. The problem is solved.

The name of the caller is not forwarded by CUCM to the called party.
This problem is being deleted from known issues because this behaviour is intended and is therefore not a bug.

2. New features

There a no new features.

3. Known issues

Data calls from the S3 to S6 (connected to CUCM over a SIP trunk) did fail because of a malformed Contact field sent by the S6.

If an analog phone connected to an S3 or S6 puts an IP phone on hold, then this hold is still processed locally and the IP phone receives Music On Hold from the S3/S6.

April 2009
NovaTec Kommunikationstechnik GmbH

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NovaTec release information firmware 99.06.06.00

1   Bug fixes included in this release
1.1   New features

13   Known Issues

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

A possible crash of the S3 was fixed. The crash did occur sometimes if someone tried to log in to the S3 over the local USB interface.

A one sided voice connection (only one party could hear the other side) with SRTP has been fixed. The problem existed since delayed offer was implemented.

2. New features

Hold request from internal phones are now forwarded to the CUCM.

The name of the internal subscriber/user is forwarded to the CUCM (name presentation services).

A new configuration flag has been implemented to choose if the S3 shall register as a Cisco endpoint or as a third party device. By default the S3 will register as a third party end device so configuration needs to be changed accordingly.

3. Known issues

Currently the call drops if delayed offer is used and an internal call is being made (S3 to S3). The call drops as soon as the call is answered. The problem can only be solved right now if delayed offer is switched off by activating the option "Media termination point required" in the CUCM configuration.

There is no Music On Hold if the S3 is putting a Cisco IP phone in hold.

The name of the caller is not forwarded by CUCM to the called party.

March 2009
NovaTec Kommunikationstechnik GmbH