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Handbook

Reconfiguration of NovaTec gateways

Version 1.0 from Mai 27th, 2011

This document is subject to changes.



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1 Overview

1.1 Prequel, changes compared to earlier versions

Not applicable

1.2 List of literature

Not applicable

1.3 Foreseeable changes

The document will be updated if new configuration options in the software or firmware are realized.

1.4 Abbreviations

| | |
|--------------|--|
| CLIP | Calling Line Identification Presentation |
| CSD | Circuit Switched Data |
| DDI | Direct Dialling In |
| DNS | Domain Name System |
| DSS1 | Digital Subscriber Signalling System No. 1 |
| ESC | Enddevice selection cipher |
| ENUM | E.164 NUmber Mapping |
| GSM | Global System for Mobile Communications |
| IP | Internet Protocol |
| ISDN | Integrated Services Digital Network |
| MLPP | Multi Level Precedence and Preemption |
| MSN | Multiple Subscriber Number |
| NAT | Network Address Translation |
| NIP | NovaTec Internet Pathfinder |
| NLP | NovaTec Link Protocol |
| NT | Network Termination |
| PTMP | Point To Multipoint |
| PTP | Point To Point |
| RMCS | Remote Master Clock Source |
| RSA | Rivest, Shamir und Adleman |
| RTP | Real-Time Transport Protocol |
| SCEP | Simple Certificate Enrollment Protocol |
| SIM | Subscriber Identity Module |
| SIP | Session Initiation Protocol |
| SMS | Short Message Service |
| SRTP | Secure RTP |
| TE | Terminal Equipment |
| TLS | Transport Layer Security |
| UDP | User Datagram Protocol |
| VoIP | Voice over Internet Protocol |
| VSMSC | Virtual Short Message Service Center |



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1.5 Introduction

This document describes the behaviour of NovaTec gateways during a reconfiguration whilst in operation. It is specified which adjustments can be made in operational mode and which need a system reset. If relevant, details of the method in which a reconfiguration of a feature can be made, are given. In the following document a configuration setting is stated as reconfigurable if changes of the setting can be made whilst in operation and no system reset of the target system is necessary to adopt the changes. If the adjustment of a configuration setting requires a system reset it is stated as not reconfigurable.

1.6 Compendium

This document describes the behaviour of NovaTec gateways during a reconfiguration whilst in operation.

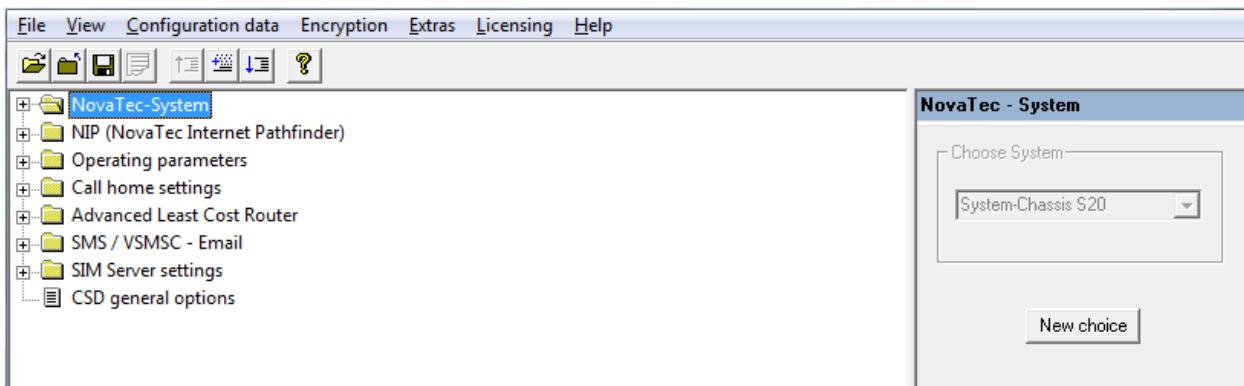


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2 Reconfiguration

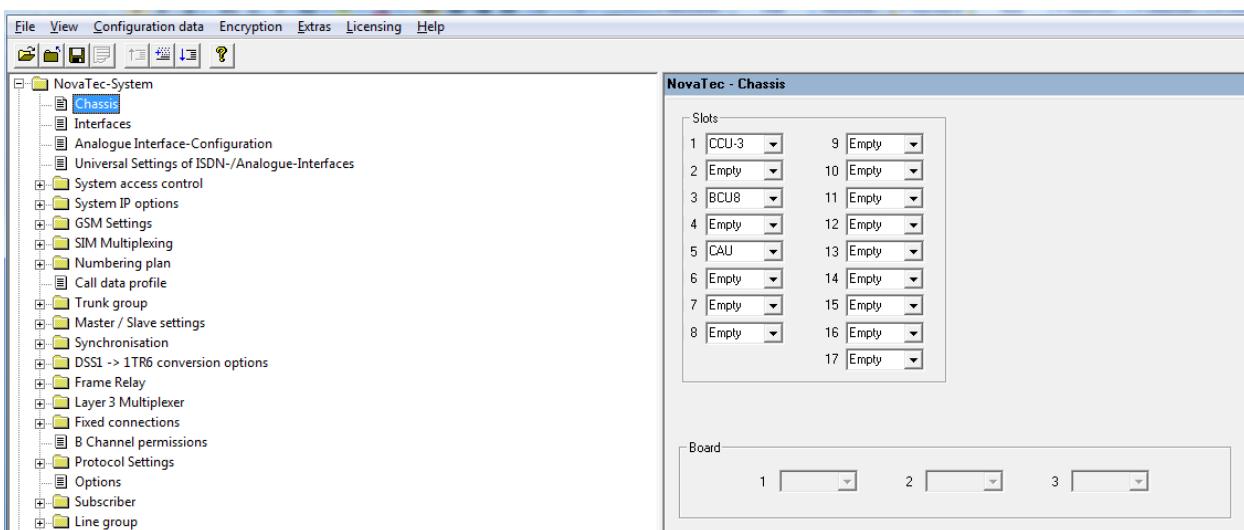
In the following subsections one node of the navigation menu on the left hand side of the main window of the NovaTec configuration software at a time is described. In most cases either all of the settings are reconfigurable or none at all. In the exceptions the reconfigurable and not reconfigurable settings of one page are described in detail.

2.1 NovaTec-System



On this page no settings are reconfigurable. Changes require a system reset.

2.1.1 NovaTec-System/Chassis



On this page no settings are reconfigurable. Changes require a system reset.



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2.1.2 NovaTec-System/Interfaces

| Interface | Mode |
|------------------------------|----------------------------------|
| Slot 01: CCU3 : Interface 01 | Subscriber line |
| Slot 01: CCU3 : Interface 02 | Subscriber line |
| Slot 01: CCU3 : Interface 03 | Subscriber line |
| Slot 01: CCU3 : Interface 04 | Cross connection subscriber line |
| Slot 01: CCU3 : Interface 05 | Analog Subscriber-Line |
| Slot 01: CCU3 : Interface 06 | Analog Subscriber-Line |
| Slot 01: CCU3 : Interface 07 | Analog Subscriber-Line |
| Slot 01: BCU8 : Interface 08 | Analog Subscriber-Line |
| Slot 03: BCU8 : Interface 01 | SIP |
| Slot 03: BCU8 : Interface 02 | SIP |
| Slot 03: BCU8 : Interface 03 | SIP |
| Slot 03: BCU8 : Interface 04 | SIP |
| Slot 05: CAU : Interface 01 | Subscriber line |
| Slot 05: CAU : Interface 02 | Subscriber line |
| Slot 05: CAU : Interface 03 | Subscriber line |
| Slot 05: CAU : Interface 04 | Subscriber line |

On this page no settings are reconfigurable. Changes require a system reset.

2.1.3 NovaTec-System/Analogue Interface-Configuration

| Interface |
|--|
| Slot 01: CCU3 : Submodule 02 (ANA04): Interface 05 |
| Slot 01: CCU3 : Submodule 02 (ANA04): Interface 06 |
| Slot 01: CCU3 : Submodule 02 (ANA04): Interface 07 |
| Slot 01: CCU3 : Submodule 02 (ANA04): Interface 08 |

On this page no settings are reconfigurable. Changes require a system reset.



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2.1.4 NovaTec-System/Universal Settings of ISDN-/Analogue-Interfaces

| NovaTec - Universal Settings: ISDN- / Analogue-Interfaces | | | |
|---|------|----------------------------|------|
| Supplementary Services | | | |
| Clear Held Call | R0 | Activate Fwd. Busy Prefix | *67* |
| Clear Active Call | R1 | Activate Fwd. Busy Postfix | # |
| Hold | R | Deactivate Fixed Fwd. | #21# |
| Alternation between Lines | R2 | Deactivate Fwd. No Reply | #61# |
| Activate Fixed Call Fwd. Prefix | *21* | Deactivate Fwd. Busy | #67# |
| Activate Fixed Call Fwd. Postfix | # | Call Pick Up | *14* |
| Activate Fwd. No Reply Prefix | *61* | Abb. Dial | #* |
| Activate Fwd. No Reply Postfix | # | Station Guarding | *08* |
| Activate MLPP Prefix | *35* | Three Party - START | R3 |
| Activate MLPP Postfix | * | Three Party - STOP | R3 |

The settings on this page are adjustable and immediately operative.

A subscriber using a supplementary service feature code that is no longer valid after the reconfiguration will receive a corresponding fault report when dialling the first digit after the reconfiguration.

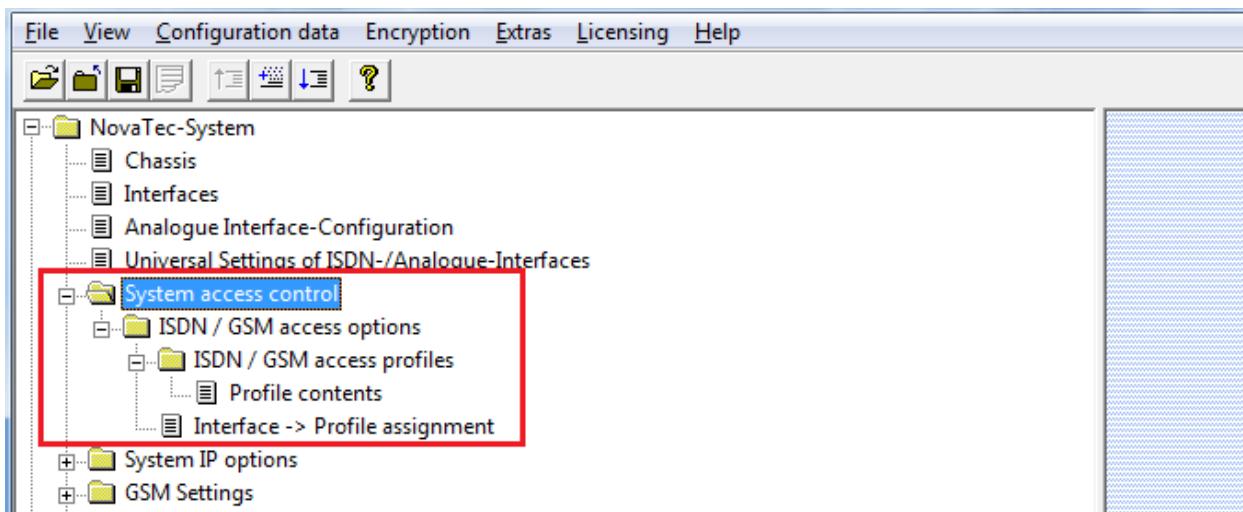
Example:

1. A subscriber wants to program a fixed call diversion and begins to dial „*21“.
2. During the dialing process the administrator transfers a new configuration to the target system. In this configuration the dialling code for a fixed call diversion has been changed from “*21*” to “*31*”.
3. The target system adopts the adjustments promptly.
4. The subscriber has not yet continued dialling. The call state remains unchanged.
5. Now the subscriber dials the next digit „*“. The call is rejected as the current dialled number „*21*“ is no longer a valid dialling code.



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2.1.5 NovaTec-System/System access control



All settings and sub items of „System access control“ are reconfigurable and immediately operative.

Existing calls or calls in the establishment phase are not influenced by changes. Only calls that are established after the reconfiguration are influenced by changes.

Example:

1. Subscriber „123“ is making a call.
2. During the dialing process the administrator transfers a new configuration to the target system. In this configuration subscriber „123“ is not allowed to make any calls.
3. The target system adopts the adjustments promptly.
4. The call of the subscriber persists.
5. Subscriber „123“ ends his call.
6. Subscriber „123“ tries to make a new call.
7. The call is rejected.



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2.1.6 NovaTec-System/System IP options

The screenshot shows the NovaTec configuration interface. The left sidebar contains a tree view of system settings, with the 'System IP options' node highlighted by a red box. The main panel displays the 'NovaTec - System IP options' configuration window. This window includes sections for IP-Options (DHCP-Options set to 'DHCP off', DHCP starts optional app set to 'Off'), Local Name ('gw.example.sip'), Local Domain ('example.sip'), Local IP-Address ('192.168.0.2'), Subnet mask ('255.255.0.0'), Gateway ('192.168.0.1'), DSCP ('0'), MTU ('1400'), External Gateway IP-Address ('0.0.0.0'), Public name ('gw.example.de'), and Non masqueraded IP addresses mask (VPN) ('255.255.0.0'). Below this is a 'VLAN-Tagging' section with 'VLAN-Tagging On/ Off' checked, VLAN-ID ('0'), and Priority (VLAN) ('0'). At the bottom is a 'Transport Layer Security (TLS)' section with 'License is loaded' checked, 'Enable Security ...', and 'Disable Security ...' buttons.

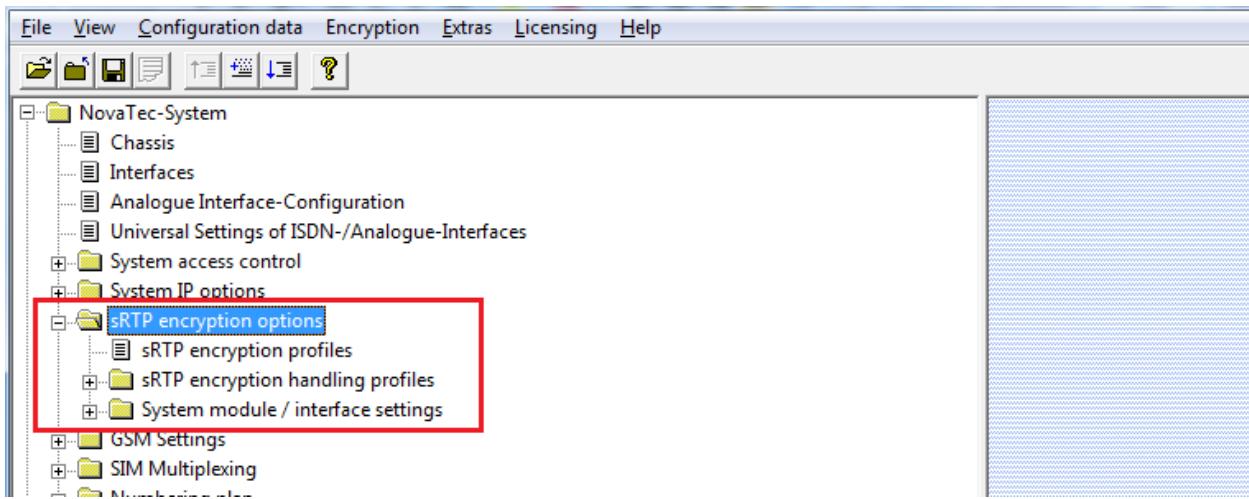
None of the settings and sub items of „System IP options“ are reconfigurable.

All changes in „System IP options“, „DNS servers“, „Available IP services“, „System NAT mapping“, „ENUM servers“ and „TLS Security“ require a system reset to come into effect.



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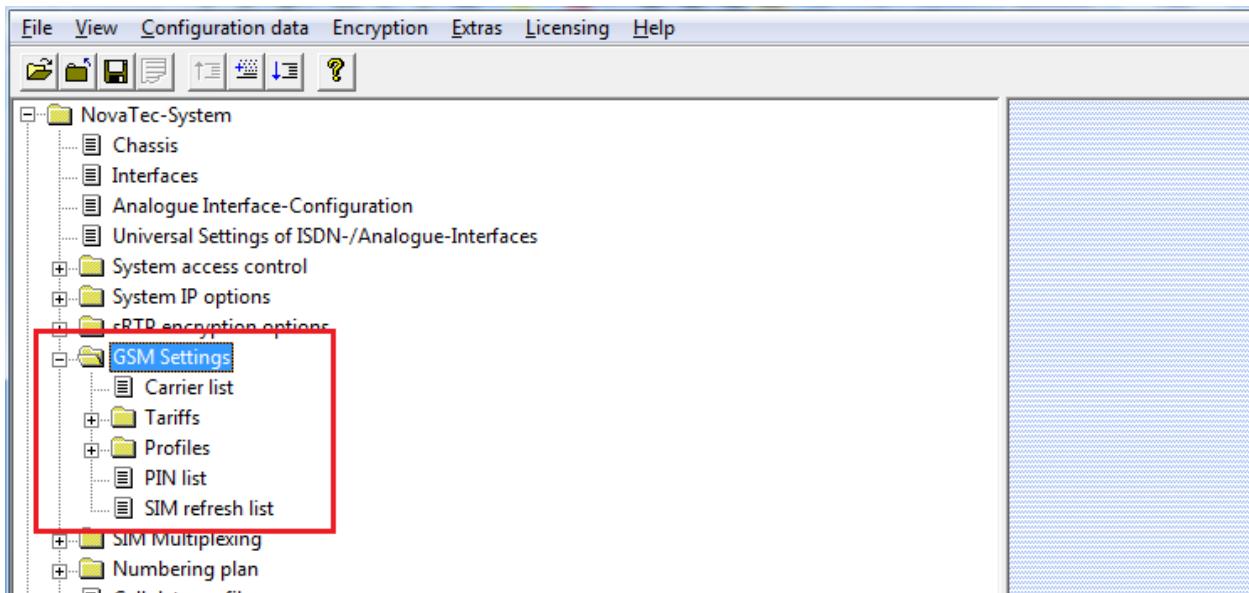
2.1.7 NovaTec-System/sRTP encryption options



None of the settings and sub items of „sRTP encryption options“ are reconfigurable.

All changes in „sRTP encryption options“, „sRTP encryption profiles“, „sRTP encryption handling profiles“ and „System module / interface settings“ require a restart to come into effect.

2.1.8 NovaTec-System/GSM Settings

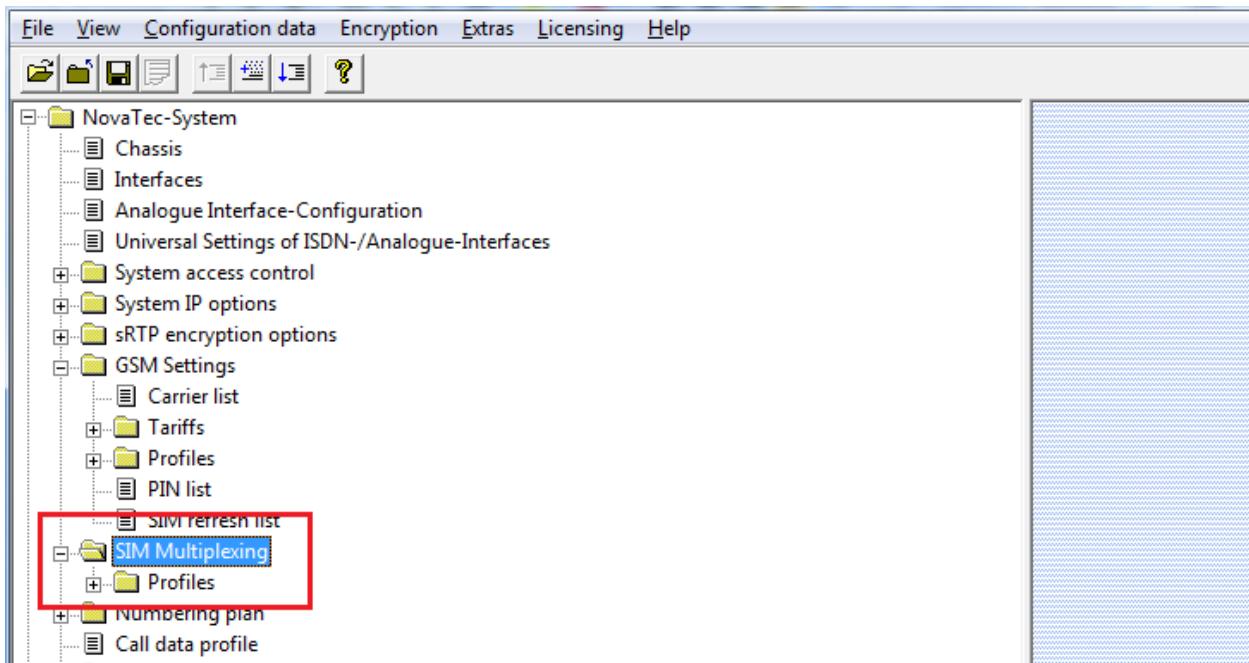


All settings and sub items of „GSM settings“ are reconfigurable and immediately operative.



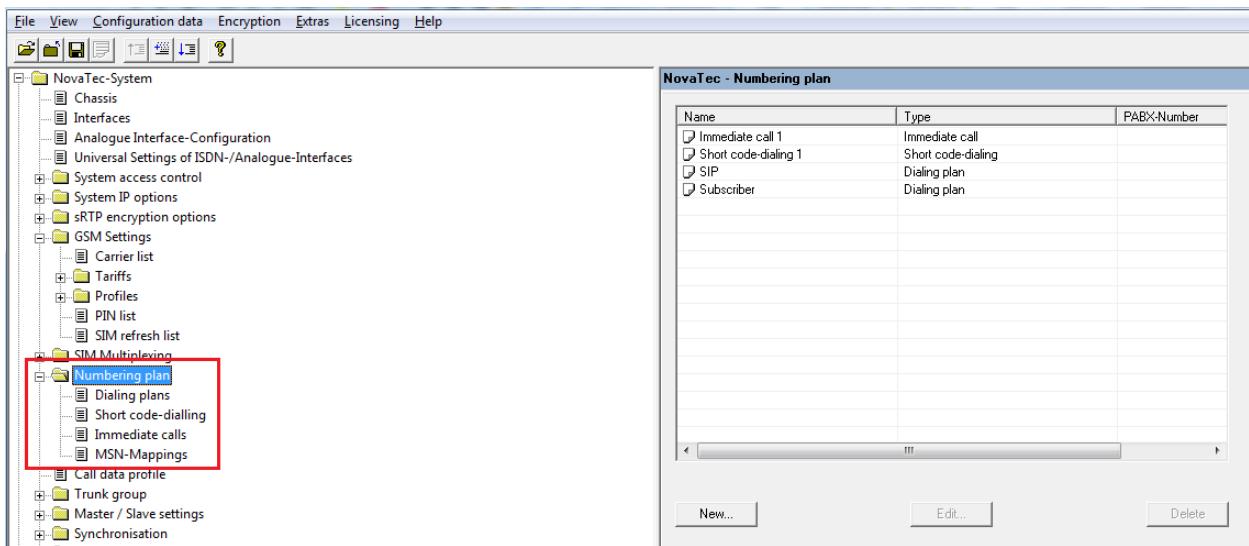
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2.1.9 NovaTec-System/SIM Multiplexing



All settings and sub items of „SIM Multiplexing“ are reconfigurable and immediately operative.

2.1.10 NovaTec-System/Numbering plan



All settings and sub items of „Numbering plan“ are reconfigurable and immediately operative.

A subscriber dials a destination number which is no longer valid after the reconfiguration and receives an appropriate failure report after the reconfiguration when dialling the first digit.

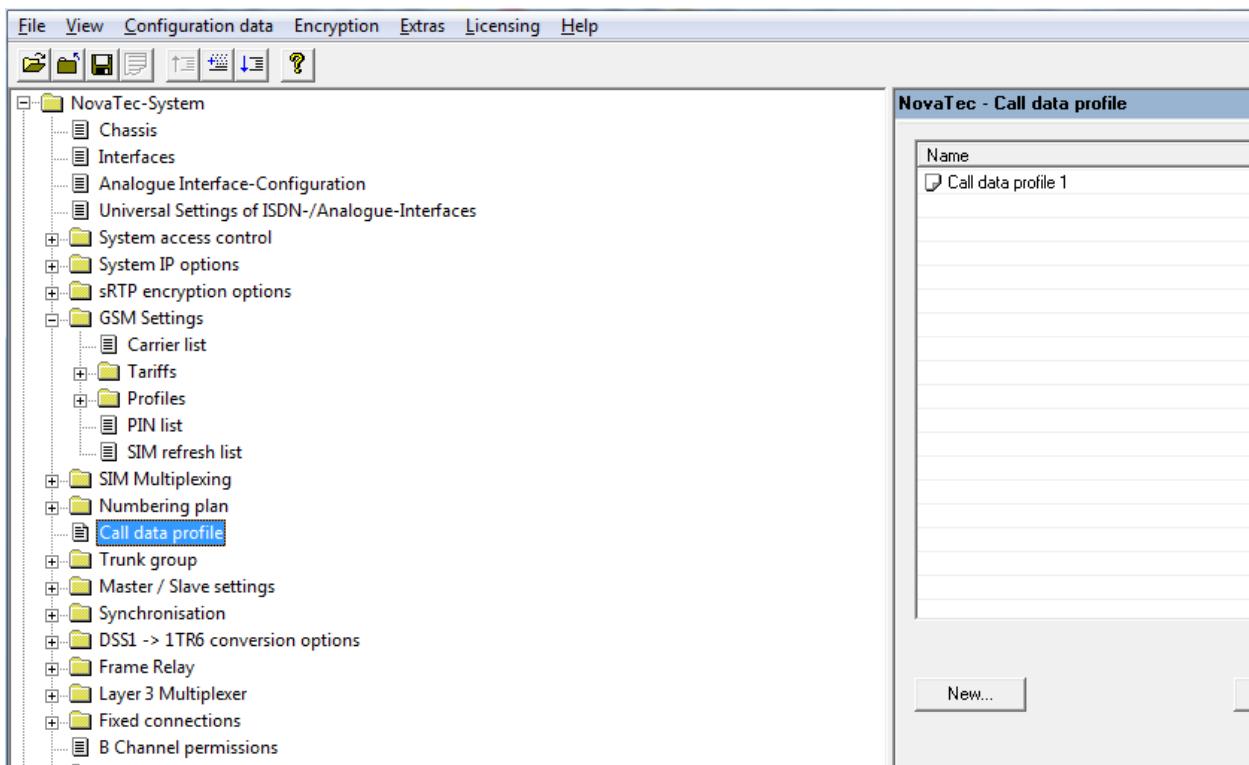


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Example:

1. A subscriber wants to call subscriber number „123456“ and begins to dial „123“.
2. During the dialing process the administrator transfers a new configuration to the target system. In this configuration the number „123456“ has been deleted from the numbering plan.
3. The target system adopts the new settings immediately.
4. The subscriber has not yet continued to dial. The call state remains unchanged.
5. The subscriber continues to dial with digit „4“. The call is now rejected as the current dialled number “1234” is no longer included in the numbering plan.

2.1.11 NovaTec-System/Call data profile



The settings on this side are reconfigurable and changes are immediately operative.



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2.1.12 NovaTec-System/Trunk group

| No. | Name | Numbering plan | Price per unit | Profile |
|-----|------|----------------|----------------|-----------|
| 0 | SIP | SIP | 0,06 | Call data |
| 1 | ISDN | Subscriber | 0,06 | Call data |

All settings and sub items of „Trunk group“ are reconfigurable and immediately operative.

Calls as occupy a set of circuits in the moment of the reconfiguration and for which the telephone of the called subscriber does not yet ring keep on working with the data sets as were valid for the occupied trunk group before the reconfiguration.

Calls that are build up after the reconfiguration work instantly with the new data sets.

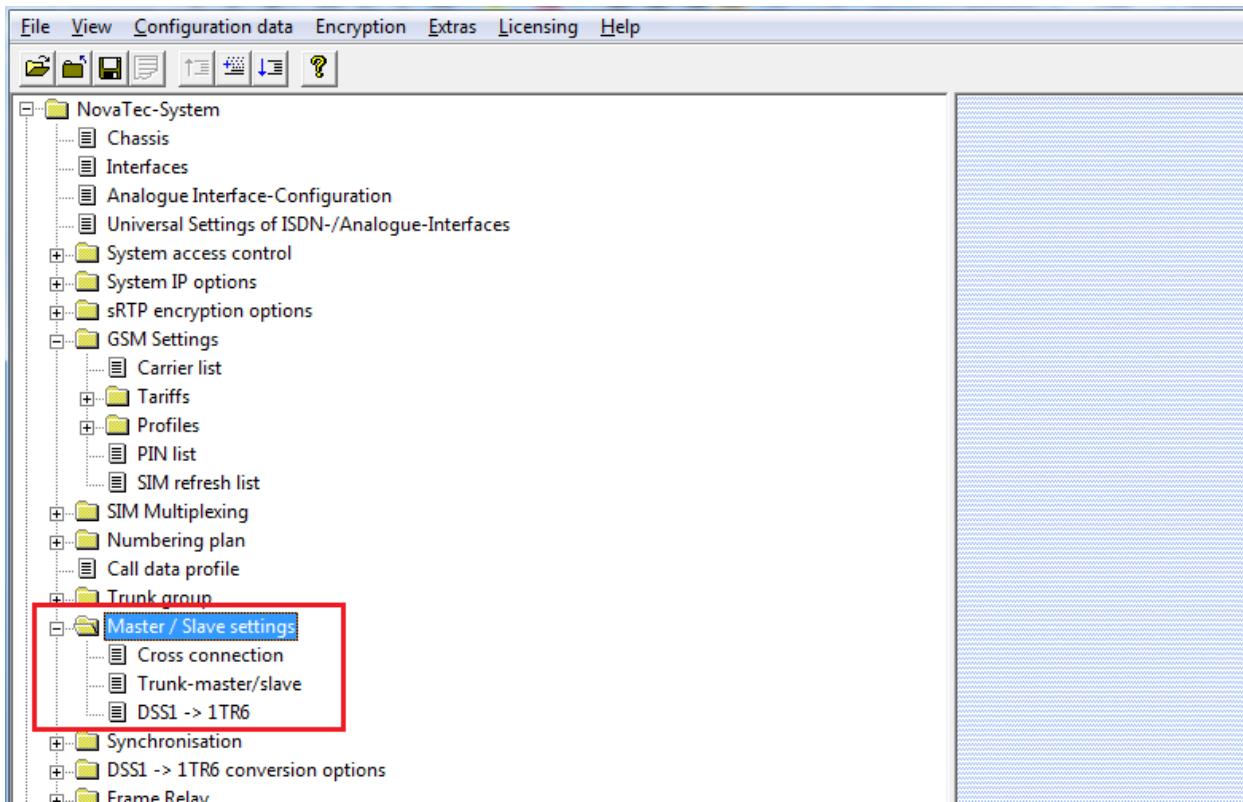
Example:

1. A subscriber begins to build up a call via the trunk group „Test“. The interfaces A and B are dedicated to the trunk group „Test“.
2. In this moment the administrator transfers a new configuration to the target system in which only interface a is dedicated to the trunk group „Test“.
3. A rerouting of the existing call via the trunk group „Test“ is operated. During the rerouting a B channel is chosen. As the call build up started before the reconfiguration the next free B channel of interfaces A and B is chosen.
4. A new call is build up via trunk group „Test“. The new call chooses a free B channel of interface A as the call build up began after the reconfiguration was effected.



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2.1.13 NovaTec-System/Master / Slave settings



None of the settings and sub items of „Master / Slave settings“ are reconfigurable.

All changes on „Master / Slave settings“, „Cross connection“, „Trunk-master/slave“ and „DSS1 -> 1TR6“ require a system reset to be adopted.

2.1.14 NovaTec-System/Synchronisation

No settings can be made in „NovaTec-System/Synchronisation“.



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2.1.14.1 NovaTec-System/Synchronisation/Interface Sync Priority

The screenshot shows the NovaTec configuration interface. On the left is a tree view of system settings. In the center-right is a table titled "NovaTec - Set Sync-Priority for Interfaces". The table has columns for "Interface", "Priority", and "Is this Interface activated?". There are four entries:

| Interface | Priority | Is this Interface activated? |
|--|----------|------------------------------|
| JL Slot 03, BCU8, GPS module | 98 | Activated |
| Priority of Sync On caller with external clock | 90 | Deactivated |
| Priority of Sync On caller with internal clock | 90 | Deactivated |
| Priority of RMCS RTP Stream | 90 | Deactivated |

At the bottom right of the table is an "Edit..." button.

The settings on this page are not reconfigurable. Changes require a system reset.

2.1.14.2 NovaTec-System/Synchronization/RTP Sync Settings

The screenshot shows the NovaTec configuration interface. On the left is a tree view of system settings. In the center-right is a panel titled "NovaTec - RTP Synchronization Settings". It contains two main sections: "RTP Stream" and "RMCS Parameters".

RTP Stream:

- Enable synchronization with RTP-Stream of SIP Caller:
- Priority of synchronization with device using internal clock:
- Priority of synchronization with device using external clock:

RMCS Parameters:

- Act as a Client or a Server:
- RMCS Mode:
- Priority of this synchronization:
- number@IP-address of RMCS servers:
- Buttons:

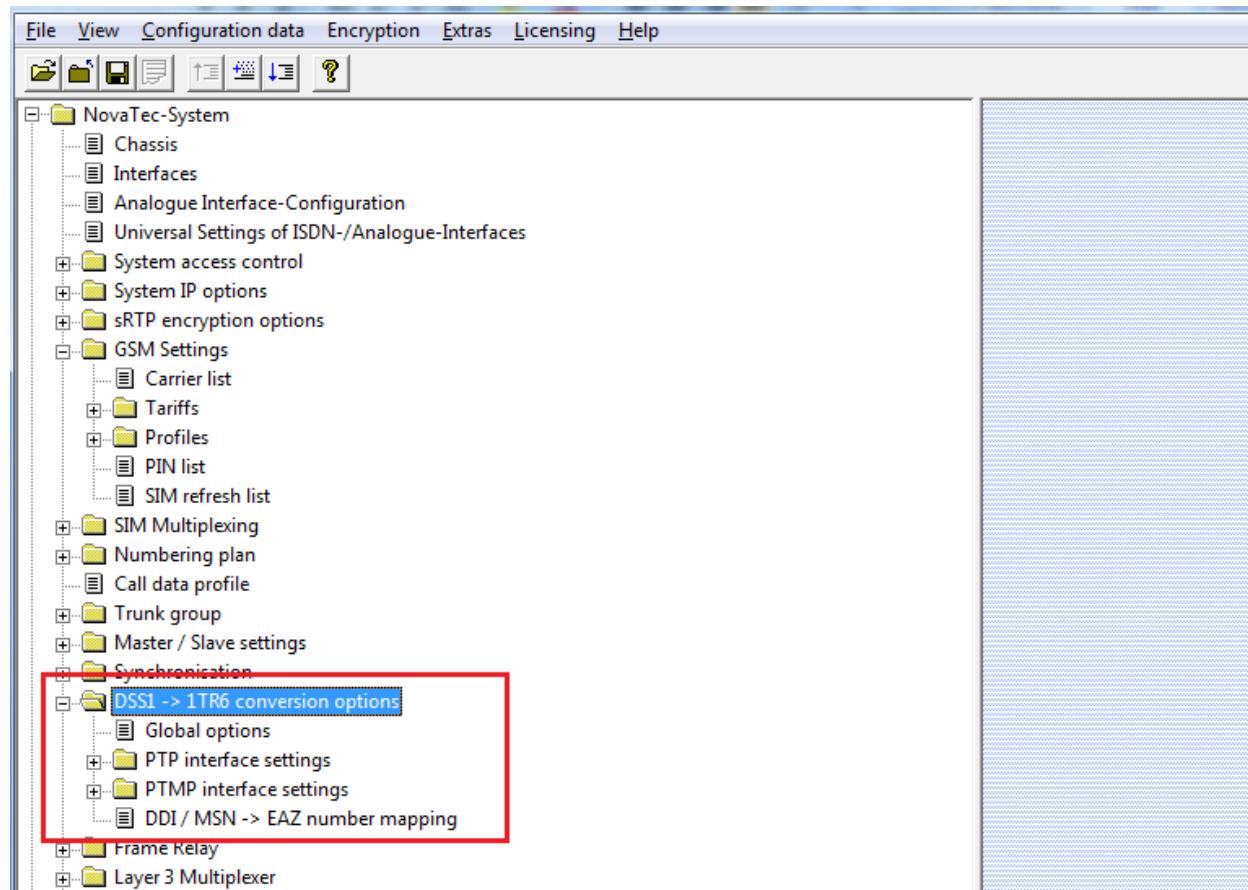
The settings on this page are reconfigurable and immediately operative.

Should a RMCS server be deleted existing calls to this server remain active but no new calls are build up to the deleted server.



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2.1.15 NovaTec-System/DSS1 -> 1TR6 conversion options



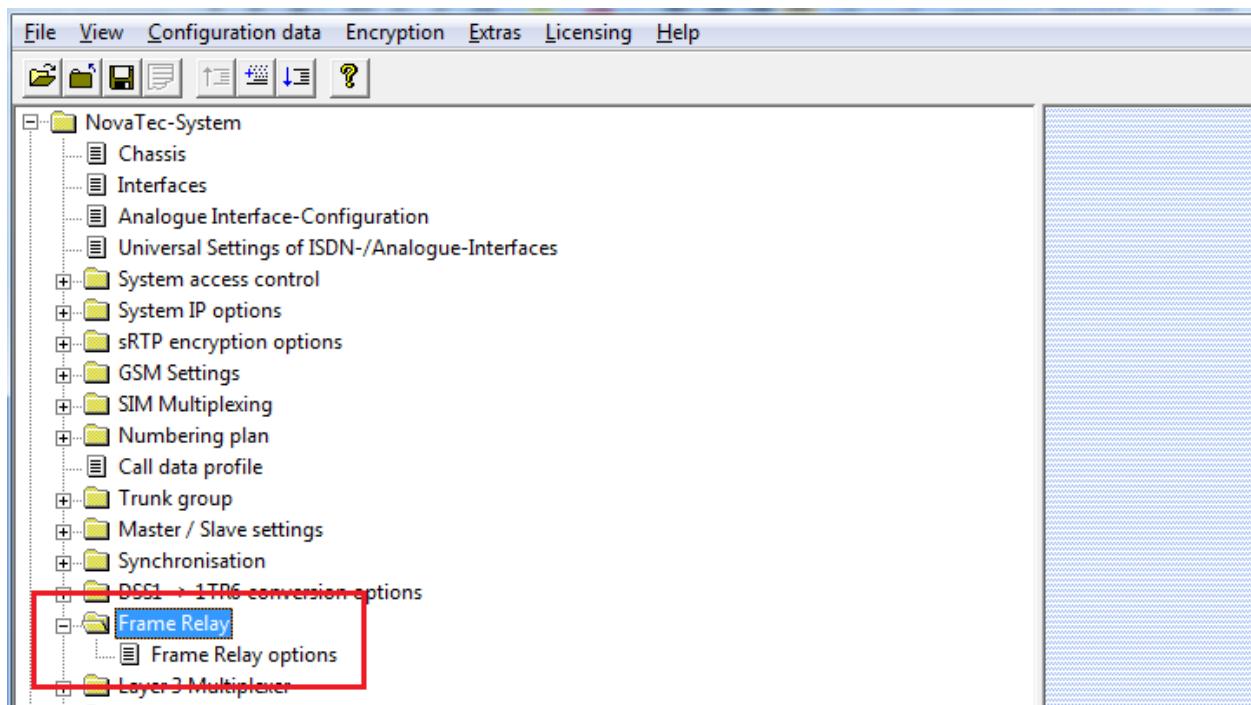
None of the settings and sub items of „DSS1-> 1TR6 conversion options“ are reconfigurable.

All changes on the pages „DSS1 -> 1TR6 conversion options“, „Global options“, „PTP interface settings“, „PTMP interface settings“ and „DDI / EAZ number mapping“ require a system reset to be adopted.



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2.1.16 NovaTec-System/Frame Relay



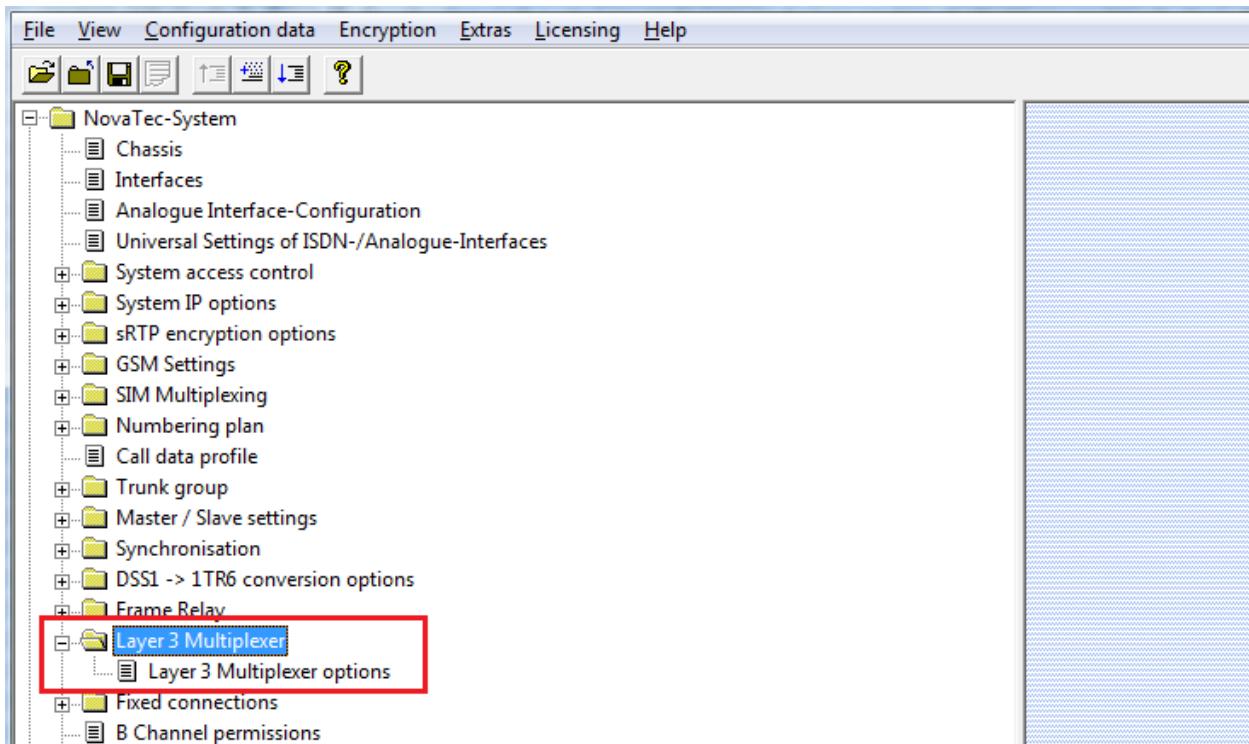
None of the settings and sub items of "Frame relay" are reconfigurable.

All changes on the pages „Frame Relay“ and „Frame Relay options“ require a system restart to be adopted.



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2.1.17 NovaTec-System/Layer 3 Multiplexer



None of the settings and sub items of „Layer 3 Multiplexer“ are reconfigurable.

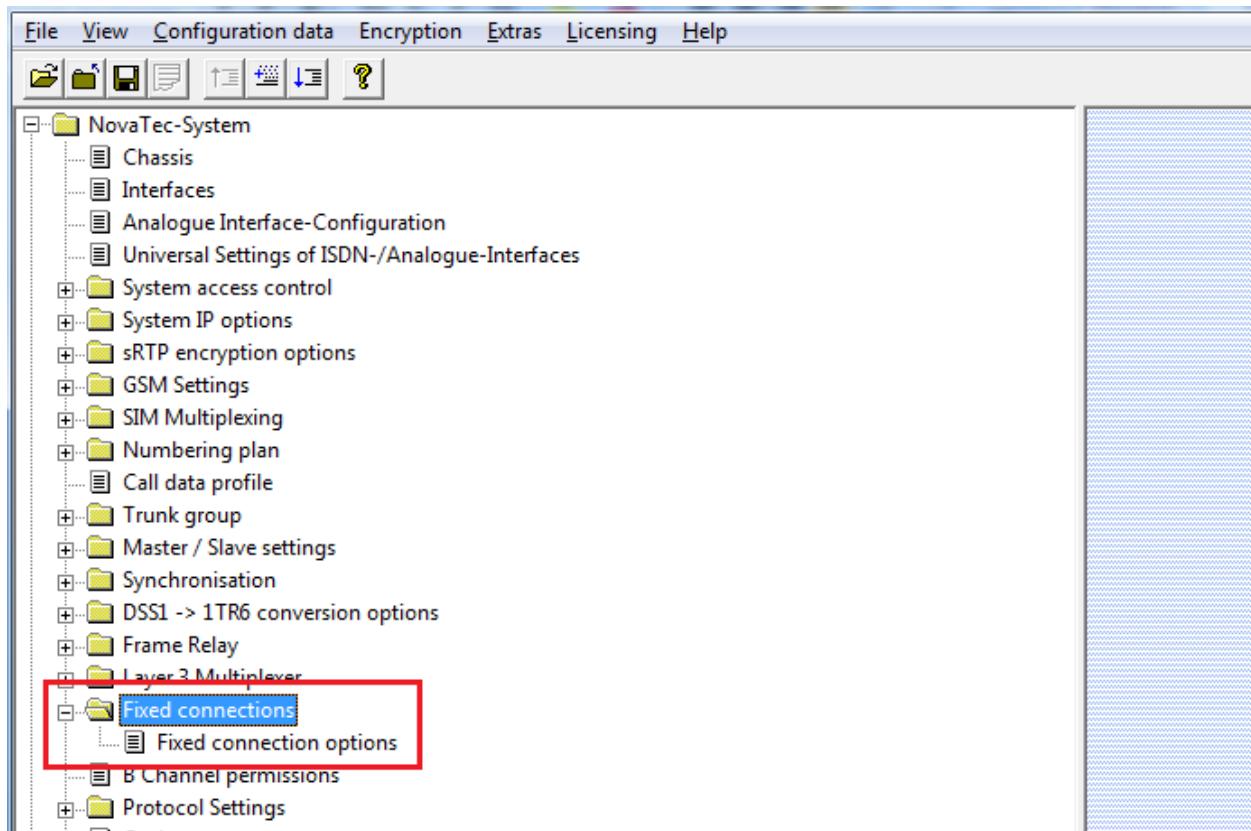
All changes on the pages „Layer 3 Multiplexer“ and „Layer 3 Multiplexer options“ require a system restart to be adopted.

The feature is no longer supported by current firmware versions.



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2.1.18 NovaTec-System/Fixed connections



None of the settings and sub items of „Fixed connections“ are reconfigurable.

All changes on the pages „Fixed connections“ and „Fixed connections options“ require a system reset to be adopted.



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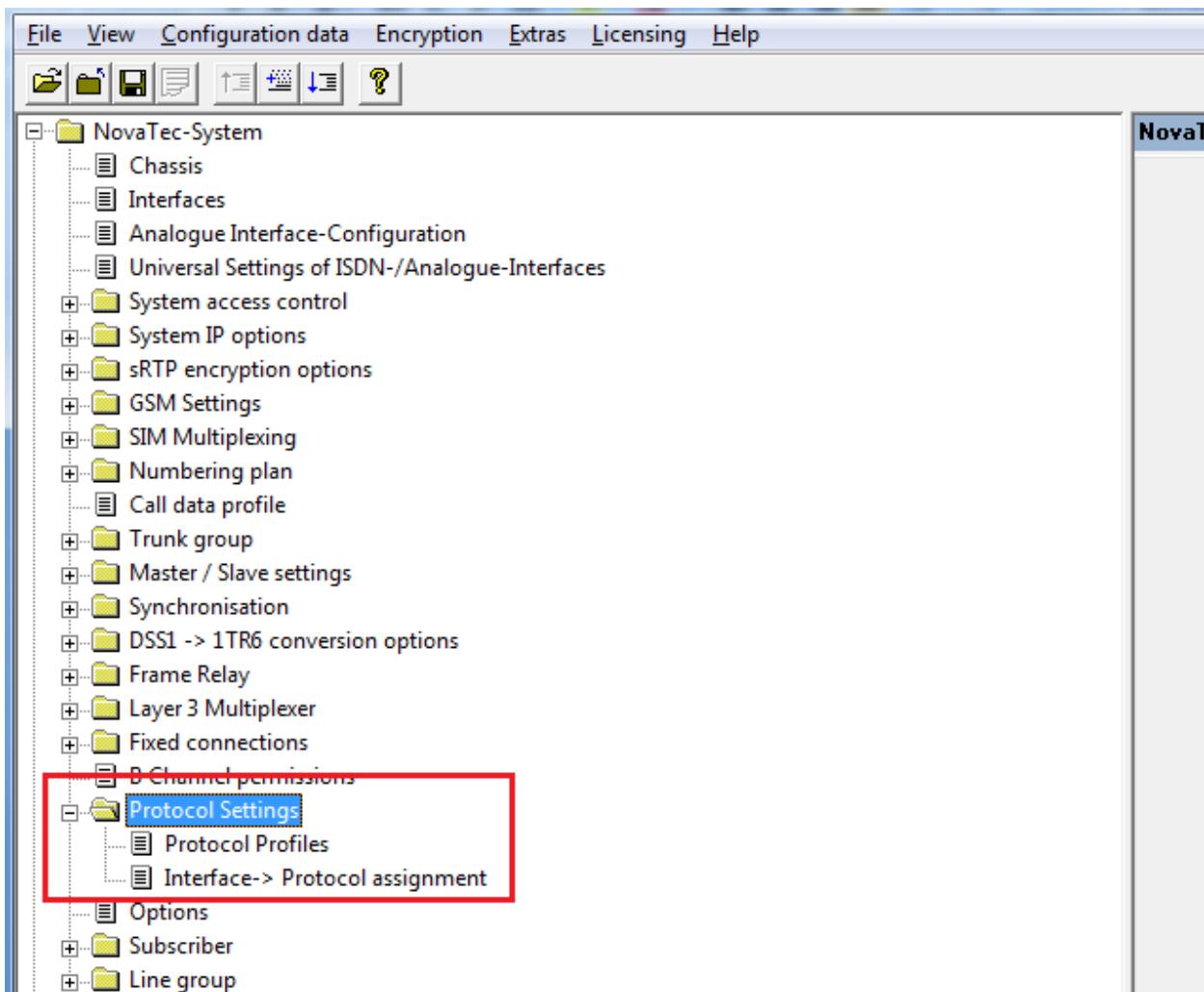
2.1.19 NovaTec-System/B Channel permissions

The settings on this page are not reconfigurable. Changes require a system reset.



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2.1.20 NovaTec-System/Protocol Settings



All settings and sub items of „Protocol Settings“ are reconfigurable and immediately operative.



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2.1.21 NovaTec-System/Options

The screenshot shows the NovaTec configuration interface. The left pane is a navigation tree with categories like NovaTec-System, Chassis, Interfaces, etc. The right pane is titled 'NovaTec - Options' and contains several configuration groups:

- System ASR:** Minimal call duration [0] sec, Trigger Call home ASR < [0] %, Minimal number of calls for Call Home [1000]
- GSM ASR:** Minimal call duration [30] sec, Trigger Call home ASR < [85] %, Minimal number of calls for Call Home [1000]
- ISDN ASR:** Minimal call duration [30] sec, Trigger Call home ASR < [85] %, Minimal number of calls for Call Home [1000]
- SIP ASR:** Minimal call duration [30] sec, Trigger Call home ASR < [85] %, Minimal number of calls for Call Home [1000]
- PABX relative settings:** Explicit call transfer, Call pick up, Call forwarding, Call pick up [*14*], Station guarding [*08*], Abb. dial [*#]
- Tone generation options:** Generation active [German], Always send progress indicator "INBAND INFO AVAILABLE" on disconnect, even when this indicator is not present.
- Pool buffer options:** Size of pool buffer [270]
- Music On Hold:** Import Audio (PCM) ..., Remove Audio..., Audio: PCM, 8-Bit, 8 kHz, Mono. A note says: "This Audio file will be deleted in database after transmission. The a-mgw keeps the audio file until the Remove-Audio button is activated and transmitted."

The settings bordered in red on this page are not reconfigurable. Changes require a system reset.

All other settings on this page are reconfigurable. Changes to these settings are immediately operative.

I.e. changes to the following settings require a system reset to be adopted:

- Tone generation options
- Pool buffer options
- Music On Hold



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2.1.22 NovaTec-System/Subscriber

| Number | Description | Interface | Permission class |
|--------|-------------|------------------------------|------------------|
| 991 | | Slot 01: CCU3 : Interface 01 | Permission cla: |
| 992 | | Slot 01: CCU3 : Interface 02 | Permission cla: |
| 993 | | Slot 01: CCU3 : Interface 03 | Permission cla: |
| 994 | | Slot 01: CCU3 : Interface 04 | Permission cla: |
| 995 | | Slot 01: CCU3 : Interface 05 | Permission cla: |
| 996 | | Slot 01: CCU3 : Interface 06 | Permission cla: |

All settings and sub items of „Subscriber“ are reconfigurable and immediately operative.

If a subscriber is deleted calls build up before the reconfiguration remain active. After the reconfiguration the deleted subscriber cannot build up new calls.

2.1.23 NovaTec-System/Line group

| Name | Alert time | Numbering plan | Type |
|----------|------------|----------------|----------|
| sip_333 | 120 | Subscriber | Parallel |
| test_999 | 120 | Subscriber | Parallel |

All settings and sub items of „Line group“ are reconfigurable and immediately operative.



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2.1.24 NovaTec-System/Call take over

The screenshot shows the NovaTec configuration software interface. The left side features a navigation tree with various system settings like Chassis, Interfaces, and Call take over. The 'Call take over' node is highlighted with a red box. The right side displays a table titled 'NovaTec - Call take over' with three entries:

| Name | Numbering plan |
|---|----------------|
| <input type="checkbox"/> Crash | Subscriber |
| <input checked="" type="checkbox"/> Empty | Subscriber |
| <input checked="" type="checkbox"/> test | SIP |

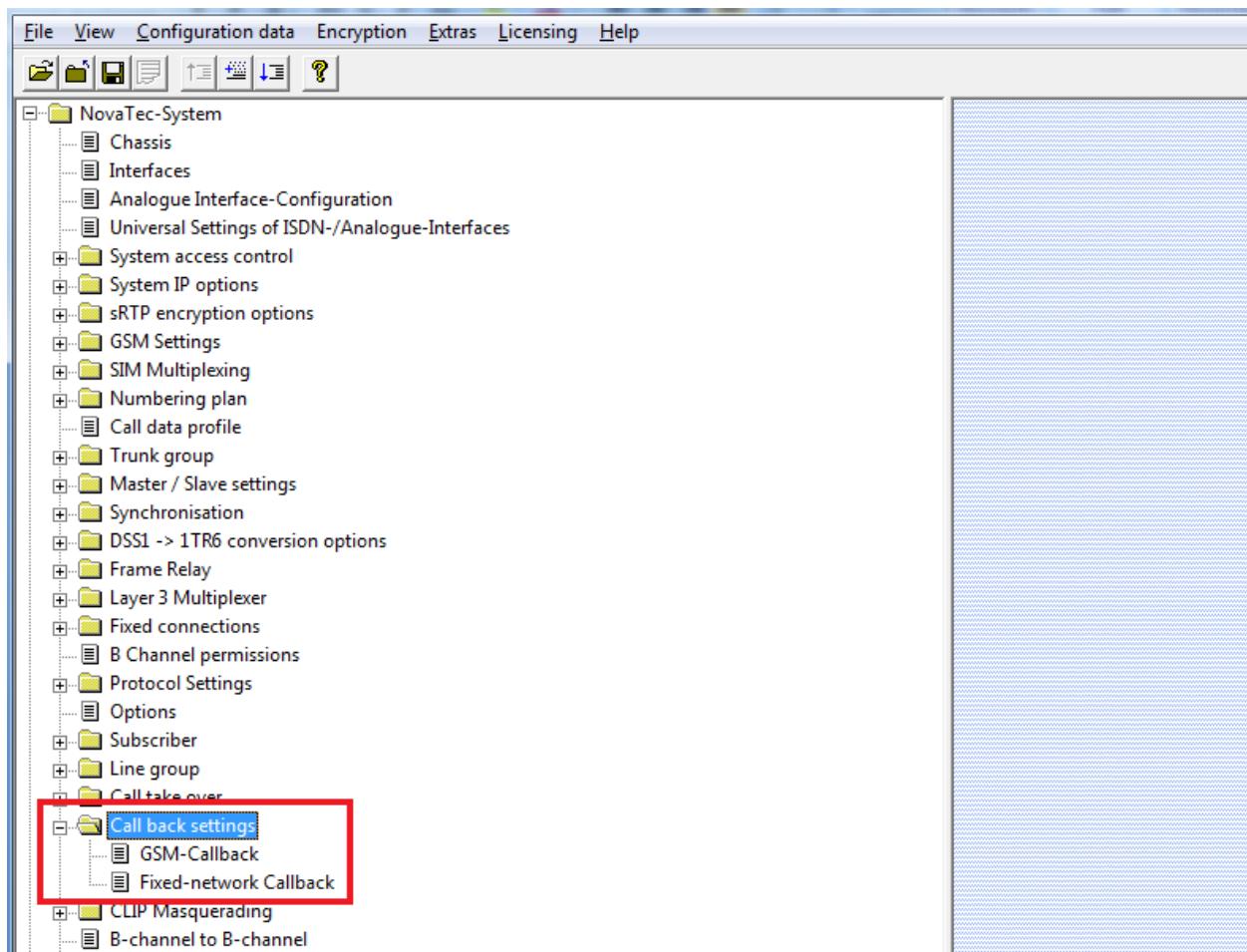
Below the table are two buttons: 'New...' and 'Edit...'. The entire window has a light gray background.

All settings and sub items of „Call take over“ are reconfigurable and immediately operative.



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2.1.25 NovaTec-System/Call back settings



All settings and sub items of „Call back settings“ are reconfigurable and immediately operative.



We change the shape of the world

2.1.26 NovaTec-System/CLIP Masquerading

The screenshot shows the NovaTec software interface with a navigation bar at the top and a configuration tree on the left. The tree includes sections like NovaTec-System, Chassis, Interfaces, Analogue Interface-Configuration, Universal Settings of ISDN-/Analogue-Interfaces, System access control, System IP options, sRTP encryption options, GSM Settings, SIM Multiplexing, Numbering plan, Call data profile, Trunk group, Master / Slave settings, Synchronisation, DSS1 -> ITU conversion options, Frame Relay, Layer 3 Multiplexer, Fixed connections, B Channel permissions, Protocol Settings, Options, Subscriber, Line group, Call take over, and Call back settings. A red box highlights the 'CLIP Masquerading' node under 'Protocol Settings'. To the right, a table titled 'NovaTec - CLIP Masquerading pool' displays columns for 'Masquerading Number' and 'Status', with several empty rows. A 'New...' button is located at the bottom of the table area.

None of the settings and sub items of „CLIP Masquerading“ are reconfigurable.

All changes to „CLIP Masquerading“ and „Assignment“ require a system reset to be adopted.

2.1.27 NovaTec-System/B-channel to B-channel

The screenshot shows the NovaTec software interface. The left pane is a tree view of configuration sections:

- NovaTec-System
 - Chassis
 - Interfaces
 - Analogue Interface-Configuration
 - Universal Settings of ISDN-/Analogue-Interfaces
- System access control
- System IP options
- sRTP encryption options
- GSM Settings
- SIM Multiplexing
- Numbering plan
- Call data profile
- Trunk group
- Master / Slave settings
- Synchronisation
- DSS1 - ITU-T conversion options
- Frame Relay
- Layer 3 Multiplexer
- Fixed connections
 - B Channel permissions
- Protocol Settings
- Options
- Subscriber
- Line group
- Call take over
- Call back settings
- CLIP Masquerading
- B-channel to B-channel** (highlighted in blue)
- MLPP

- NIP (NovaTec Internet Pathfinder)

The right pane is titled "NovaTec - B Channel to B Channel assignment". It contains a table with three columns: "Source-Interface", "Source...", and "Destination-Interface". Below the table is a note about B-channel usage:
B-channel to B-channel usage:
 Ignore Use if possible In any case

Buttons at the bottom include "New...", "Edit...", and "Delete".

The settings on this page are reconfigurable and immediately operative.



We change the shape of the world

2.1.28 NovaTec-System/MLPP

The screenshot shows the NovaTec configuration software interface. The left sidebar contains a tree view of configuration categories, including 'NovaTec-System' (selected), 'Chassis', 'Interfaces', 'Analogue Interface-Configuration', 'Universal Settings of ISDN-/Analogue-Interfaces', 'System access control', 'System IP options', 'sRTP encryption options', 'GSM Settings', 'SIM Multiplexing', 'Numbering plan', 'Call data profile', 'Trunk group', 'Master / Slave settings', 'Synchronisation', 'DSS1 -> 1TR6 conversion options', 'Frame Relay', 'Layer 3 Multiplexer', 'Fixed connections', 'B Channel permissions', 'Protocol Settings', 'Options', 'Subscriber', 'Line group', 'Call take over', 'Call back settings', 'CLIP Masquerading', 'B-channel to B-channel', and 'MLPP'. The main panel is titled 'NovaTec - MLPP' and contains two sections: 'Mapping Digits - Priority' and 'Resource-Priority-Namespace'. The 'Mapping Digits - Priority' section has a table with columns 'Priority' and 'Digit'. The 'Priority' column contains dropdown menus with values 5, 4, 3, 2, and 1. The 'Digit' column contains dropdown menus with values 5, 4, 3, 2, and 1. The 'Resource-Priority-Namespace' section contains a table with columns 'Resource-Priority-Nam...', 'Priority-Text for Flash-Override...', 'Priority-Text for Flash', 'Priority-Text for Immediate...', 'Priority-Text for Routine...', and 'Priority-Text for Rout...'. There is one row in the table with the value 'Test' in the first column and '5' in the second column.

| Resource-Priority-Nam... | Priority-Text for Flash-Override... | Priority-Text for Flash | Priority-Text for Immediate... | Priority-Text for Routine... | Priority-Text for Rout... |
|--------------------------|-------------------------------------|-------------------------|--------------------------------|------------------------------|---------------------------|
| Test | 5 | 4 | 3 | 2 | 1 |

The settings on this page are reconfigurable and immediately operative.

2.2 NIP (NovaTec Internet Pathfinder)

No settings can be adjusted on this page.



We change the shape of the world

2.2.1 NIP (NovaTec Internet Pathfinder)/Codec options

The screenshot shows the NovaTec configuration interface. The left pane is a tree view of system settings, with the 'Codec options' node under 'NIP (NovaTec Internet Pathfinder)' selected. The right pane is titled 'NovaTec - Codec options' and contains two sections: 'General codec options' and 'DTMF options'. In 'General codec options', there is a dropdown menu 'Codec set to use' set to 'Codec set 1'. In 'DTMF options', fields include 'Payload' (0), 'Name' (telephone-event), 'Optional extensions' (empty), 'fmrp' (0-15), and 'Packet time (in milliseconds)' (30).

The settings on this page are not reconfigurable. Changes require a system reset.



We change the shape of the world

2.2.2 NIP (NovaTec Internet Pathfinder)/Codec negotiation / properties

The screenshot shows the NovaTec configuration software interface. The left sidebar contains a tree view of system settings, including 'NovaTec-System' and 'NIP (NovaTec Internet Pathfinder)'. Under 'NIP', 'Codec options' and 'Codec negotiation / properties' are selected. The main window title is 'NovaTec - Codec negotiation / properties'. It displays a table with columns 'Name', 'Payload', and 'Description'. The table data is as follows:

| Name | Payload | Description |
|---------|---------|------------------------|
| pcm& | 8 | aLaw 64kbit/s |
| G729 | 18 | G.729A,B 8kb/s MOS 4,0 |
| G728 | 15 | G.728 16kb/s MOS 4,0 |
| G726-40 | 114 | G.726 40kb/s MOS 4,0 |
| G726-32 | 2 | G.726 32kb/s MOS 3,7 |
| G726-24 | 113 | G.726 32kb/s MOS 3,2 |
| G726-16 | 112 | G.726 16kb/s MOS 3,2 |
| pcmu | 0 | uLaw 56kbit/s |

Below the table are up and down arrows for sorting, and an 'Edit...' button.

The settings on this page are not reconfigurable. Changes require a system reset.

2.2.3 NIP (NovaTec Internet Pathfinder)/NLP (Network Link Protocol)

You cannot change anything on this page.



We change the shape of the world

2.2.3.1 NIP (NovaTec Internet Pathfinder)/NLP (Network Link Protocol)/NLP NT/TE settings

The screenshot shows the NovaTec configuration software interface. The left pane is a tree view of configuration categories, and the right pane is a table view for the selected category.

Left pane (Tree View):

- NovaTec-System
 - Chassis
 - Interfaces
 - Analogue Interface-Configuration
 - Universal Settings of ISDN-/Analogue-Interfaces
 - System access control
 - System IP options
 - sRTP encryption options
 - GSM Settings
 - SIM Multiplexing
 - Numbering plan
 - Call data profile
 - Trunk group
 - Master / Slave settings
 - Synchronisation
 - DSS1 -> 1TR6 conversion options
 - Frame Relay
 - Layer 3 Multiplexer
 - Fixed connections
 - B Channel permissions
 - Protocol Settings
 - Options
 - Subscriber
 - Line group
 - Call take over
 - Call back settings
 - CLIP Masquerading
 - B-channel to B-channel
 - MLPP
- NIP (NovaTec Internet Pathfinder)
 - Codec options
 - Codec negotiation / properties
 - NLP (Network Link Protocol)
 - NLP NT/TE settings**
 - Connection options
 - Codec options
 - VoIP UDP port options
 - Interface assignment
 - SIP (VoIP)

| Interface | Physical | Data link |
|------------------------------|----------|-----------|
| Slot 01: CCU3 : Interface 03 | Master | Master |

Edit...

The settings on this page are not reconfigurable. Changes require a system reset.

2.2.3.2 NIP (NovaTec Internet Pathfinder)/NLP (Network Link Protocol)/Connection options

You cannot change any settings on this page.



We change the shape of the world

2.2.3.2.1 NIP (NovaTec Internet Pathfinder)/NLP (Network Link Protocol)/Connection options/Connection profiles

The screenshot shows the NovaTec configuration software interface. The left pane is a tree view of configuration categories, including 'NovaTec-System' and 'NIP (NovaTec Internet Pathfinder)'. Under 'NIP', there is a 'Connection profiles' node which is highlighted with a blue selection bar. The right pane is titled 'NovaTec - Connection profiles' and contains a table with two rows:

| Profile name | Profile type | UDP port |
|--------------|--------------|----------|
| Local | Local | 1024 |
| Test | Remote | 2048 |

Below the table are three buttons: 'New...', 'Edit...', and 'Delete...'. The 'Edit...' button is currently highlighted.

In the „Connection profiles“ you have to distinguish between a „Local Profile“ and a „Remote profile“.

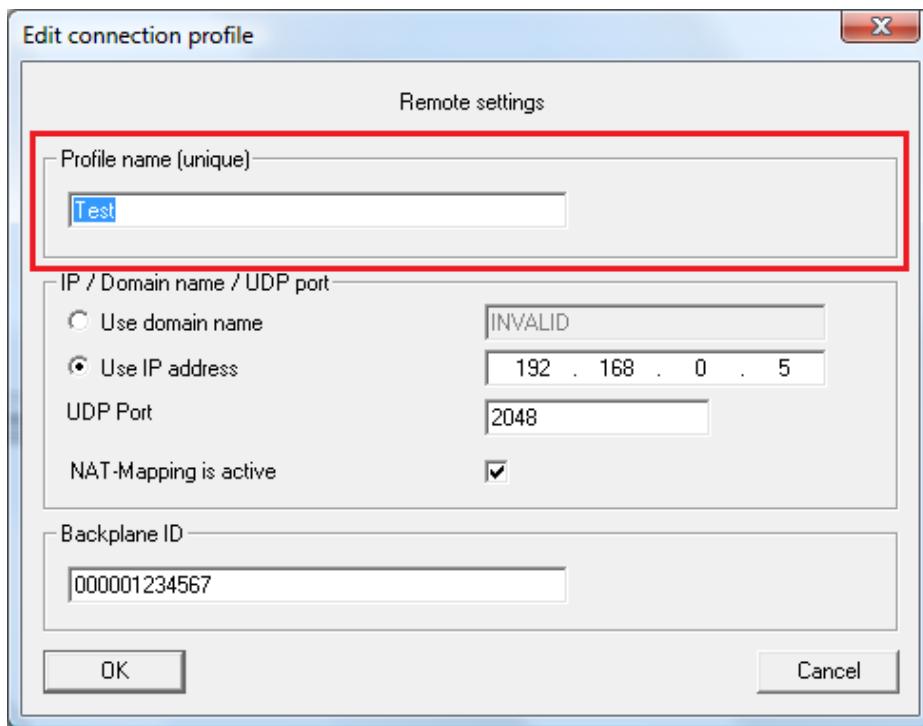
Changes to a „Local Profile“ are not reconfigurable and require a system reset.

Concerning changes to a „Remote Profile“ you need to mind which parameters have been changed. The following parameter can be installed for a „Remote Profile“:

(See dialogue „Edit connection profile“ on next page)



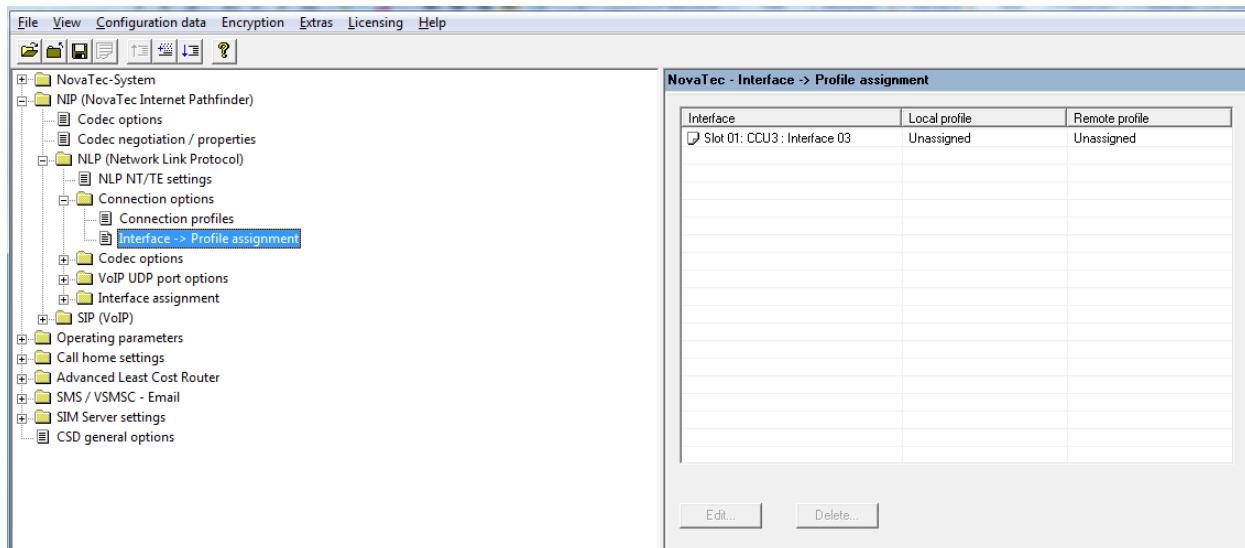
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The parameter „Profile name (unique)“ is not reconfigurable. A change of the profile name requires a system reset.

All other parameters of a „Remote Profile“ are reconfigurable.

2.2.3.2.2 NIP (NovaTec Internet Pathfinder)/NLP (Network Link Protocol)/Connection options/Interface -> Profile assignment

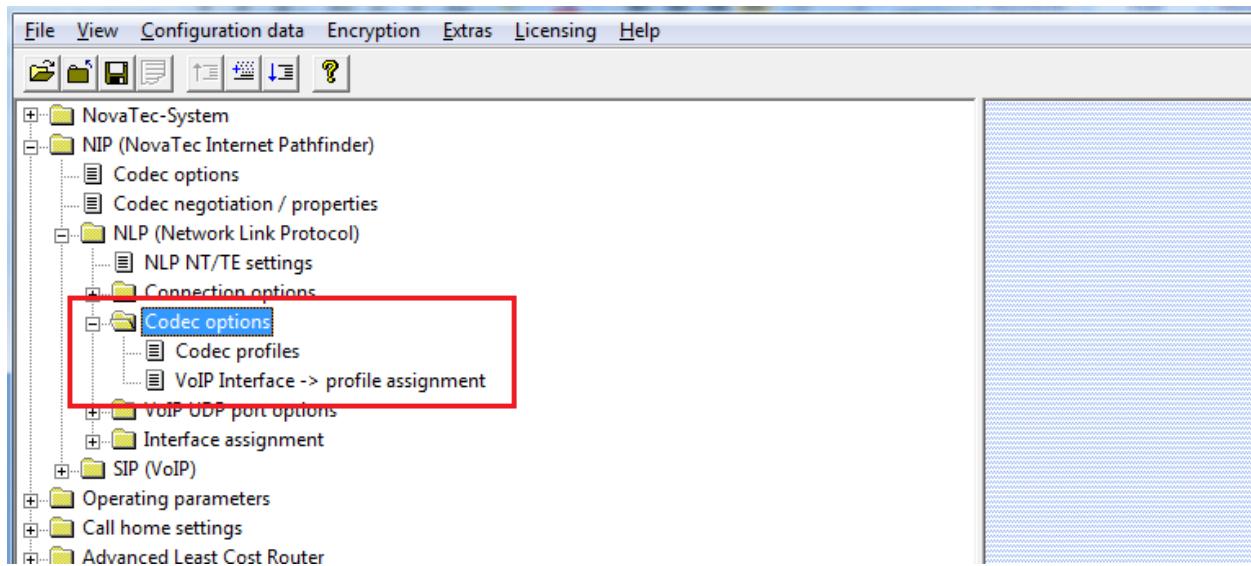


The settings on this page are not reconfigurable. Changes require a system reset.



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2.2.3.3 NIP (NovaTec Internet Pathfinder)/NLP (Network Link Protocol)/Codec options



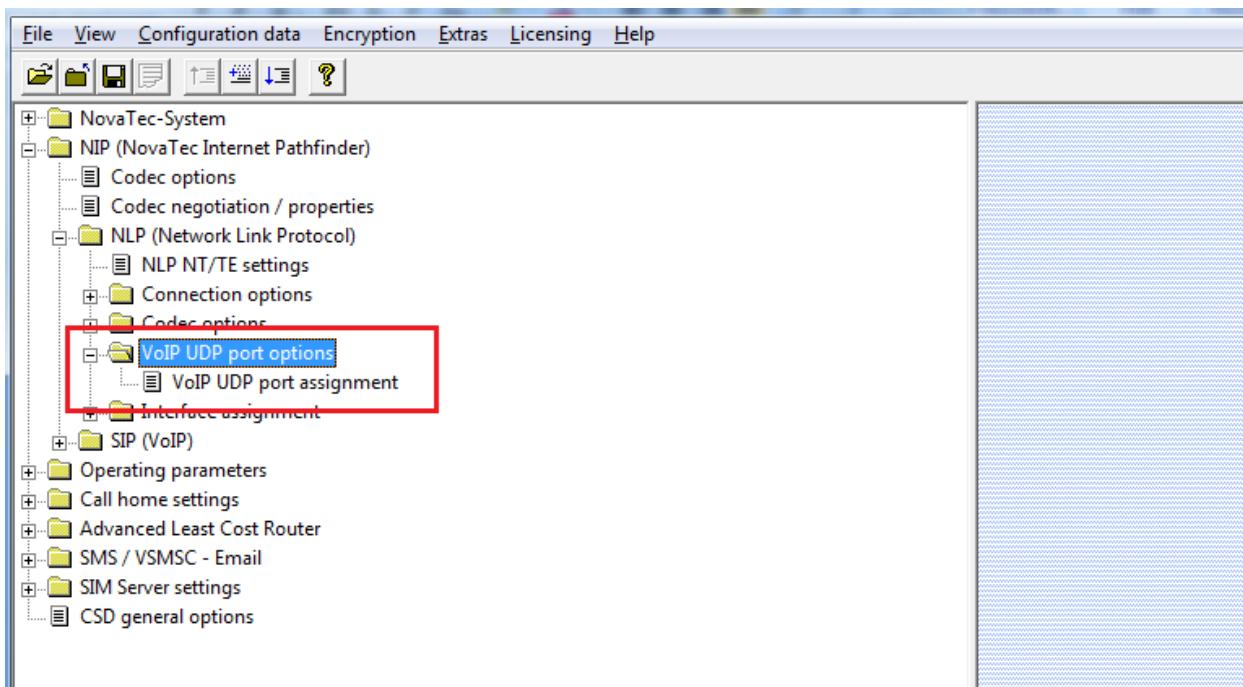
No settings and sub items of „Codec options“ are reconfigurable.

All changes on the pages „Codec options“, „Codec profiles“ and „VoIP Interface -> profile assignment“ require a system reset to be adopted.



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2.2.3.3.1 NIP (NovaTec Internet Pathfinder)/NLP (Network Link Protocol)/VoIP UDP port options



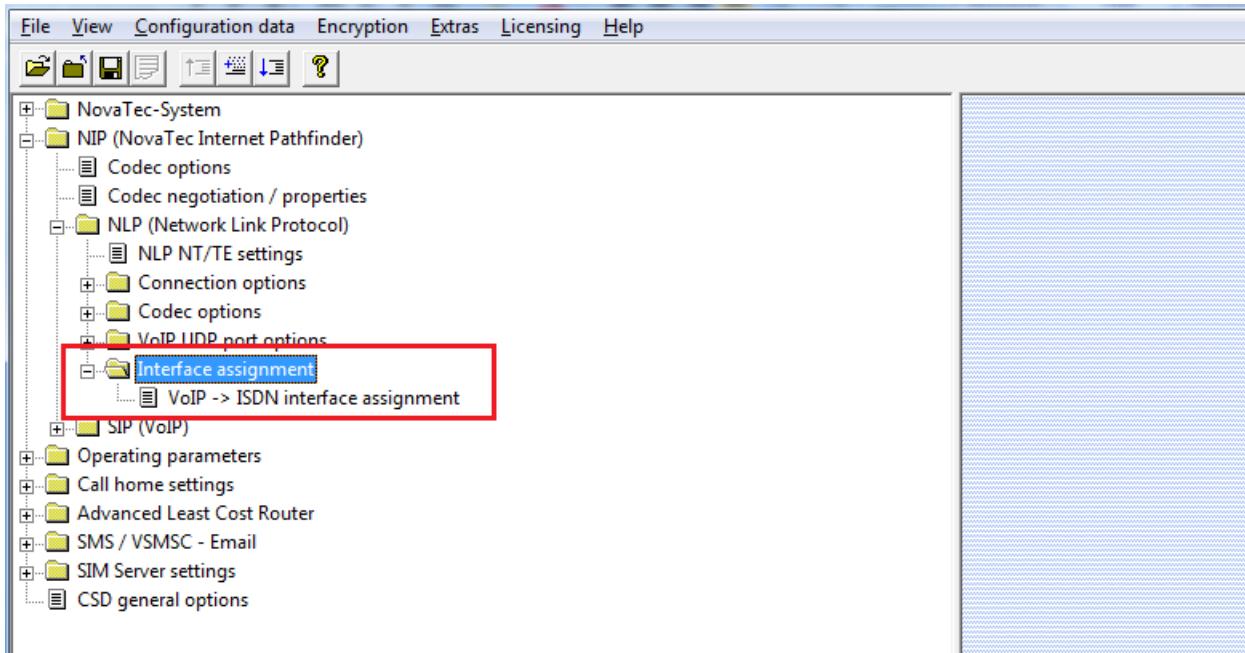
None of the settings and sub items of „VoIP UDP port options“ are reconfigurable.

All changes to „VoIP UDP port options“ and „VoIP UDP port assignment“ require a system reset to be adopted.



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2.2.3.4 NIP (NovaTec Internet Pathfinder)/NLP (Network Link Protocol)/Interface assignment



None of the settings and sub items of „Interface assignment“ are reconfigurable.

All changes to „Interface assignment“ and „VoIP -> ISDN interface assignment“ require a system reset to be adopted.



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2.2.4 NIP (NovaTec Internet Pathfinder)/SIP (VoIP)

The screenshot shows the NovaTec configuration interface. The left pane is a tree view of settings: NovaTec-System, NIP (NovaTec Internet Pathfinder) (selected), Codec options, Codec negotiation / properties, NLP (Network Link Protocol), SIP (VoIP) (selected), SIP codec mapping, SIP general settings, VoIP port settings, SIP <-> ISDN options, Timeout options, Session settings, Monitoring options, SIP server lists, Mapping lists, Operating parameters, Call home settings, Advanced Least Cost Router, SMS / VSMSC - Email, SIM Server settings, CSD general options. The right pane is titled "NovaTec - SIP (VoIP) activation" and contains a section "SIP activation" with a checked checkbox "Activate SIP (VoIP)".

The settings on this page are not reconfigurable. Changes require a system reset.

2.2.4.1 NIP (NovaTec Internet Pathfinder)/SIP (VoIP)/SIP codec mapping

The screenshot shows the NovaTec configuration interface. The left pane is a tree view of settings: NovaTec-System, NIP (NovaTec Internet Pathfinder) (selected), Codec options, Codec negotiation / properties, NLP (Network Link Protocol), SIP (VoIP) (selected), SIP codec mapping (selected), SIP general settings, VoIP port settings, SIP <-> ISDN options, Timeout options, Session settings, Monitoring options, SIP server lists, Mapping lists, Operating parameters, Call home settings, Advanced Least Cost Router, SMS / VSMSC - Email, SIM Server settings, CSD general options. The right pane is titled "NovaTec - Codec mapping" and displays a table of codec mappings:

| Description | Payload | Mapped to | Payload |
|------------------------|---------|------------------------|---------|
| aLaw 64kbit/s | 8 | aLaw 64kbit/s | 8 |
| uLaw 56kbit/s | 0 | uLaw 56kbit/s | 0 |
| G.726 16kb/s MOS 3,2 | 112 | G.726 16kb/s MOS 3,2 | 112 |
| G.726 32kb/s MOS 3,2 | 113 | G.726 32kb/s MOS 3,2 | 113 |
| G.726 32kb/s MOS 3,7 | 2 | G.726 32kb/s MOS 3,7 | 2 |
| G.726 40kb/s MOS 4,0 | 114 | G.726 40kb/s MOS 4,0 | 114 |
| G.728 16kb/s MOS 4,0 | 15 | G.728 16kb/s MOS 4,0 | 15 |
| G.729A,B 8kb/s MOS 4,0 | 18 | G.729A,B 8kb/s MOS 4,0 | 18 |

Buttons at the bottom are New..., Edit..., and Delete.

The settings on this page are not reconfigurable. Changes require a system reset.



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2.2.4.2 NIP (NovaTec Internet Pathfinder)/SIP (VoIP)/SIP general settings

The screenshot shows the NovaTec configuration interface. The left sidebar contains a tree view of system settings, with the 'SIP general settings' node selected. The main right pane displays the 'NovaTec - SIP general settings' configuration page. This page includes sections for General, UDP / RTCP options, and other SIP-related parameters. Key settings shown include:

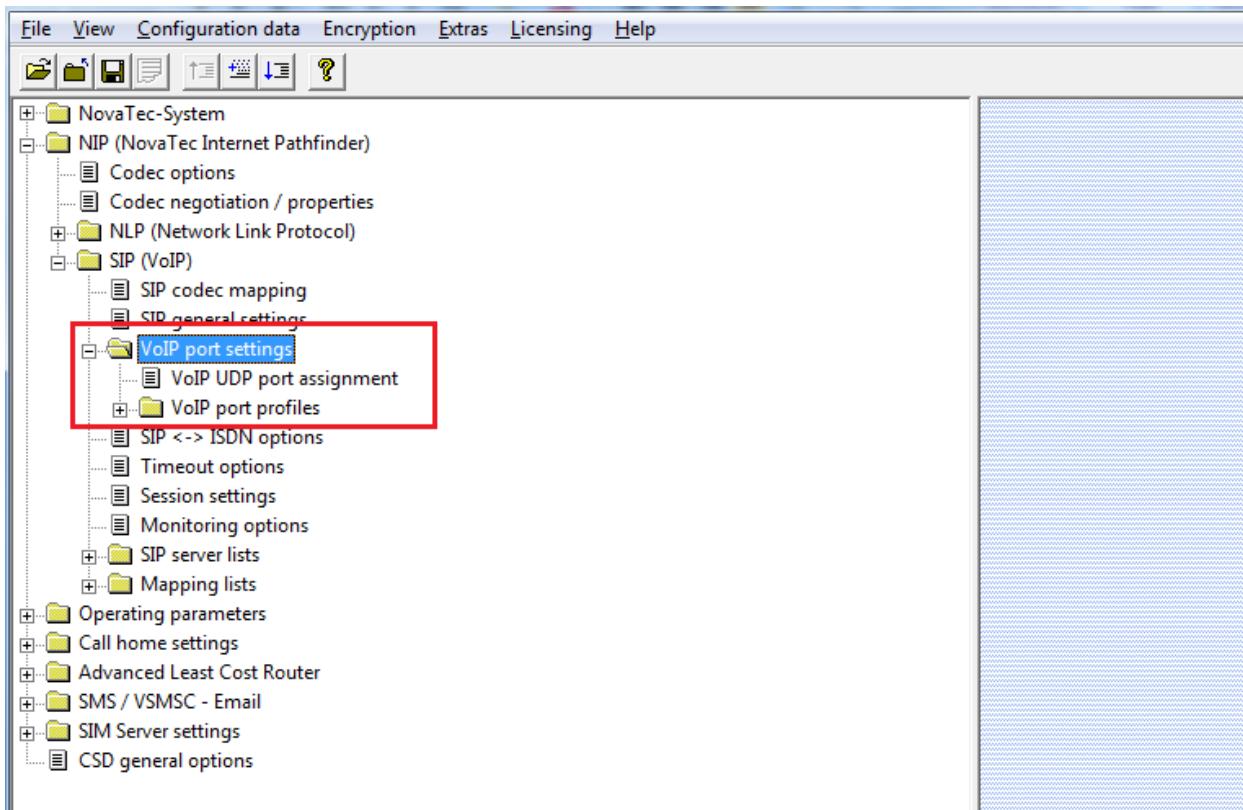
| Setting | Value |
|---|--------------------|
| Local IP address | 192 . 168 . 0 . 2 |
| Software name | NovaTec SIP 5.6.4 |
| Initial sequence | 0 |
| Allow internal (routing) loops | (unchecked) |
| Ignore unauthorized sites | (checked) |
| Always try to internally resolve names/IP addresses first | (checked) |
| Use local name (if unchecked, use IPv4) | (unchecked) |
| Reply on syntax errors to counterpart | (checked) |
| Read internal server lists at startup | (checked) |
| Save dynamic server information every... | 1 hours |
| Forward numerical addresses to ISDN | (unchecked) |
| Activate SIP-Bridging | (unchecked) |
| Q value | 1.0 |
| PSTN prefix | |
| PSTN prefix insert length | 0 |
| Min. session expire | 300 |
| Session expire | 3600 |
| Anonymous name | anon |
| Optional flags | 0x00000000171D3778 |
| Optional flags 2 | 0x0000000000000000 |
| UDP packet size | 1200 |
| Local RTP port | 30000 |
| Remote RTP port | 30000 |
| Local RCTP port | 30001 |
| Remote RCTP port | 30001 |
| RTP Packet time | 30 |

The settings on this page are not reconfigurable. Changes require a system reset.



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2.2.4.3 NIP (NovaTec Internet Pathfinder)/SIP (VoIP)/VoIP port settings



None of the settings and sub items of „VoIP port settings“ are reconfigurable.

All changes of the pages „VoIP port settings“, „VoIP UDP port assignment“ and „VoIP port profiles“ require a system reset to be adopted.



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2.2.4.4 NIP (NovaTec Internet Pathfinder)/SIP (VoIP)/SIP <-> ISDN options

The screenshot shows the NovaTec configuration interface. The left pane is a tree view of settings: NovaTec-System, NIP (NovaTec Internet Pathfinder), Codec options, Codec negotiation / properties, NLP (Network Link Protocol), SIP (VoIP), SIP codec mapping, SIP general settings, VoIP port settings, SIP <-> ISDN options (which is selected and highlighted in blue), Timeout options, Session settings, Monitoring options, SIP server lists, and Mapping lists. The right pane is titled "NovaTec - SIP <-> ISDN options". It contains the following configuration fields:

| | |
|--|--|
| Dialing plan to use for incoming SIP calls | SIP |
| Access list to use | None |
| Call data record profile to use | Call data profile 1 |
| Minimal number of digits required from ISDN | 4 |
| Wait time between each digit (overlapped) | 1 |
| <input type="checkbox"/> Activate progress indication | Indication type Destination is non ISDN |
| <input type="checkbox"/> Activate "Fake" alerting after | 7 seconds |
| Wait for ALERT (in seconds) | 60 |
| Wait for CONNECT (in seconds) | 180 |
| Wait for RELEASE (in seconds) | 30 |
| Wait for RELEASE COMPLETE (in seconds) | 5 |
| Maximal disconnect TONE duration (in seconds) | 30 |
| <input checked="" type="checkbox"/> Activate early media for VOICE calls | |
| <input type="checkbox"/> Activate early media for DATA calls | |

The settings on this page are reconfigurable and immediately operative.

2.2.4.5 NIP (NovaTec Internet Pathfinder)/SIP (VoIP)/Timeout options

The screenshot shows the NovaTec configuration interface. The left pane is a tree view of settings: NovaTec-System, NIP (NovaTec Internet Pathfinder), Codec options, Codec negotiation / properties, NLP (Network Link Protocol), SIP (VoIP), SIP codec mapping, SIP general settings, VoIP port settings, SIP <-> ISDN options, Timeout options (which is selected and highlighted in blue), Session settings, Monitoring options, SIP server lists, and Mapping lists. The right pane is titled "NovaTec - Timeout options". It contains the following configuration fields:

| | |
|---|-------|
| Call setup timeout (in seconds) | 102 |
| Repeat interval (in milliseconds) | 5000 |
| Maximal number of repeats | 5 |
| Ping time (in seconds, 0 = disabled) | 0 |
| Disconnect wait (in seconds) | 10 |
| Expire time for active calls (in seconds) | 14400 |
| System session timeout (in seconds) MUST > Expire time | 86400 |
| Time limit to cache DNS resolutions (in seconds) | 86400 |
| Maximum number of retries to resolve an address | 3 |
| Backoff time for unresolved name (in seconds) | 3600 |
| DNS request timeout (in seconds) | 10 |
| URI (SIP) resolution timeout (in seconds) | 30 |
| Registration expire time (in seconds) | 600 |
| Public connection registration expire time (in seconds) | 300 |
| Proxy link expire time (in seconds) | 180 |

The settings on this page are not reconfigurable. Changes require a system reset.



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2.2.4.6 NIP (NovaTec Internet Pathfinder)/SIP (VoIP)/Session settings

The screenshot shows the NovaTec configuration interface. The left pane is a tree view of settings: NovaTec-System, NIP (NovaTec Internet Pathfinder), Codec options, Codec negotiation / properties, NLP (Network Link Protocol), SIP (VoIP) (selected), SIP code mapping, SIP general settings, VoIP port settings, SIP <-> ISDN options, Timeout options, Session settings (selected), Monitoring options, SIP server lists, Mapping lists, Operating parameters, Call home settings, Advanced Least Cost Router, SMS / VSMSC - Email, SIM Server settings, and CSD general options. The right pane is titled "NovaTec - Session settings". It contains three fields: "Maximal number of forwarders" with a value of 70, "Session owner (no spaces allowed)" with a value of TMG, and "Session name (informational)" with a value of TMG.

The settings on this page are not reconfigurable. Changes require a system reset.

2.2.4.7 NIP (NovaTec Internet Pathfinder)/SIP (VoIP)/Monitoring options

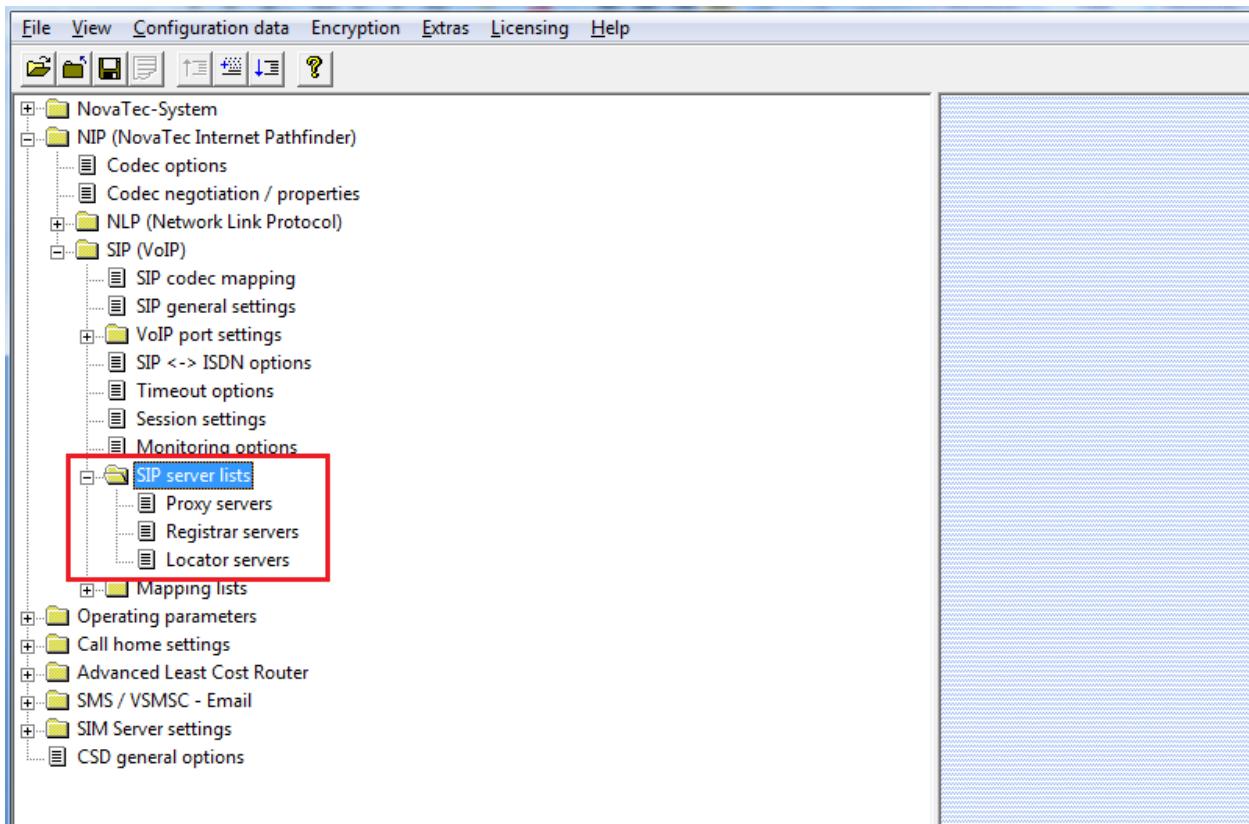
The screenshot shows the NovaTec configuration interface. The left pane is a tree view of settings: NovaTec-System, NIP (NovaTec Internet Pathfinder), Codec options, Codec negotiation / properties, NLP (Network Link Protocol), SIP (VoIP) (selected), SIP code mapping, SIP general settings, VoIP port settings, SIP <-> ISDN options, Timeout options, Session settings, Monitoring options (selected), SIP server lists, Mapping lists, Operating parameters, Call home settings, Advanced Least Cost Router, SMS / VSMSC - Email, SIM Server settings, and CSD general options. The right pane is titled "NovaTec - Monitoring options". It contains two fields: "Maximal number of entries in the call list statistics" with a value of 64, and a checked checkbox "Show detailed call statistics".

The settings on this page are not reconfigurable. Changes require a system reset.



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2.2.4.8 NIP (NovaTec Internet Pathfinder)/SIP (VoIP)/SIP server lists



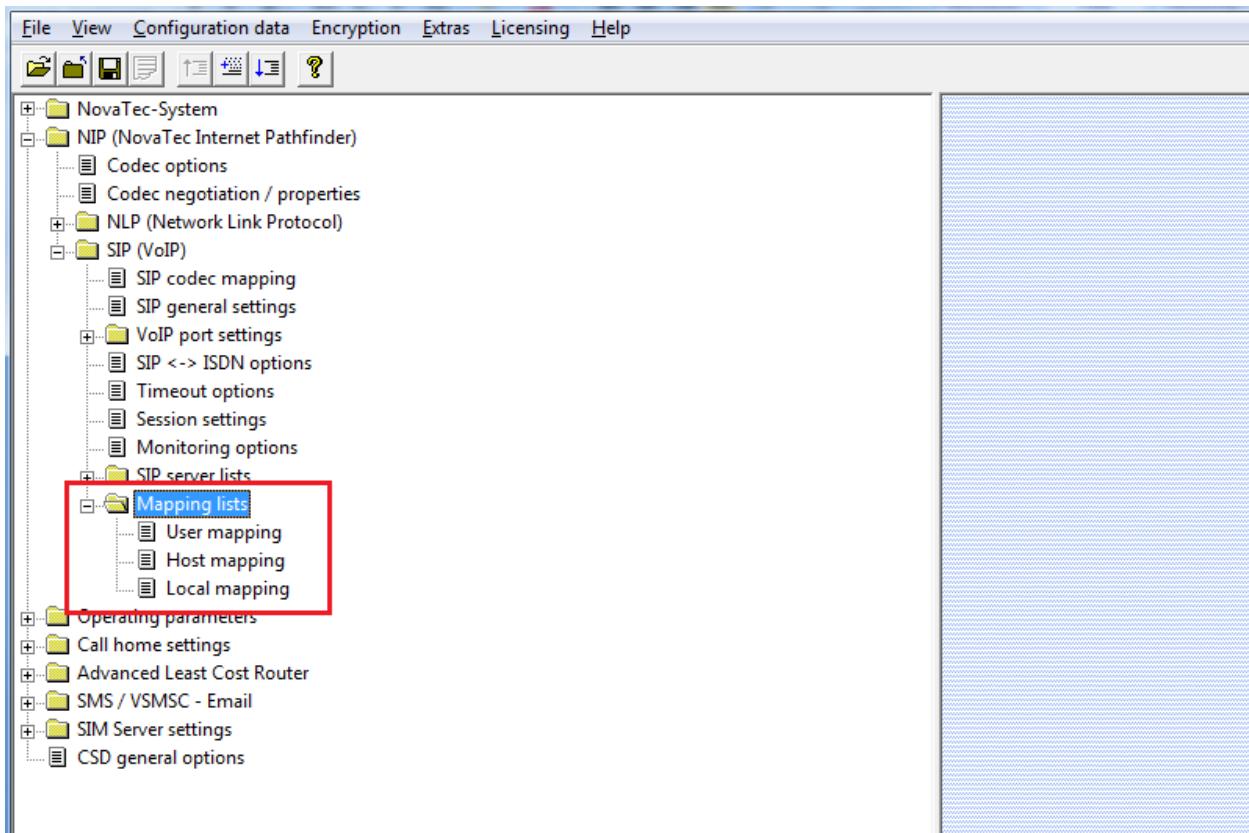
None of the settings and sub items of „SIP server lists“ are reconfigurable.

All changes to the pages „SIP server lists“, „Proxy servers“, „Registrar servers“ and „Locator servers“ require a system reset to be adopted.



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2.2.4.9 NIP (NovaTec Internet Pathfinder)/SIP (VoIP)/Mapping lists



None of the settings and sub items of „Mapping lists“ are reconfigurable.

All changes to „Mapping lists“, „User mapping“, „Host mapping“ and „Local mapping“ require a system reset to be adopted.

2.3 Operating Parameters

You cannot change anything on this page.



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2.3.1 Operating Parameters/Basic configuration

The screenshot shows the NovaTec configuration software interface. The menu bar includes File, View, Configuration data, Encryption, Extras, Licensing, and Help. The toolbar has icons for file operations like Open, Save, Print, and Help. The left sidebar navigation tree includes: NovaTec-System, NIP (NovaTec Internet Pathfinder), Operating parameters (with sub-options: Basic configuration, Remote maintenance, System time settings, Customer target data, Local area options, RSA-key Settings, SCEP Settings), Call home settings, Advanced Least Cost Router, SMS / VSMSC - Email, SIM Server settings, and CSD general options. The main content area is titled 'Operating parameters - Basic configuration'. It contains a note: 'The configuration database contains a range of parameters that can only be influenced by your equipment manufacturer.' Below this is a message: 'This page provides the opportunity to update the basic configuration data. With one action, you can replace all existing basic configuration data with new data from the manufacturer.' A warning follows: 'WARNING: If faults occur when loading the basic configuration it may no longer be possible to input other configuration parameters.' A 'Load basic configuration...' button is present. At the bottom, a section titled 'Actual basic configuration' displays the following details:

| | |
|-------------|--|
| Date | 06.11.03, 16:52 |
| Name | TransNova/Splitter Version 4.0 IP |
| Description | Basisconfiguration for Firmware-Release: 4.xx.xx WARNING - not compatible to Version 3.x |

Whether the upload of a new base configuration requires a system reset depends on the content of the new base configuration.

As there is no other base configuration for the time being it cannot be said whether or not a new base configuration will require a system reset.

As to be seen in the screen shot above NovaTec has not released a new base configuration since 2003.



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2.3.2 Operating Parameters/Remote maintenance

The screenshot shows the NovaTec configuration interface. The left sidebar contains a tree view of settings: NovaTec-System, NIP (NovaTec Internet Pathfinder), Operating parameters (which is expanded to show Basic configuration, Remote maintenance, System time settings, Customer target data, Local area options, RSA-key Settings, and SCEP Settings), Call home settings, Advanced Least Cost Router, SMS / VSMSC - Email, SIM Server settings, and CSD general options. The 'Remote maintenance' node under 'Operating parameters' is selected and highlighted in blue. The main right pane is titled 'Operating parameters - Remote maintenance'. It contains several configuration sections: 'Incoming connections' (checkbox for 'Allow remote access via ISDN'), 'ISDN telephone numbers that have access for maintenance' (list box with 'New' and 'Delete' buttons), 'Number of remote access' (text input '55', dropdown 'Dialing plan' set to 'Subscriber'), 'Sub-address' (text inputs for 'Out' and 'In'), 'Allow remote access via TCP/IP' (checkbox checked), 'IP' (text input with 'New' button), 'Group mask' (text input '255 . 255 . 255 . 255'), and 'Authorised IP addresses' (list box with 'Delete' button).

The settings on this page are reconfigurable and immediately operative.



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2.3.3 Operating parameters/System time settings

The screenshot shows the NovaTec configuration interface. The left sidebar lists various system components like NovaTec-System, NIP, and Operating parameters. The main panel is titled 'Operating parameters - System time settings'. It contains several configuration sections: 'Time configuration' (ISDN checked, Call Home events checked, NTP Server unchecked), 'Priority order' (ISDN at top), 'NTP Server settings' (Current selected NTP Server: pool.nlp.org, Delete selected NTP Server button), 'System Timezone' (Current Timezone: (GMT +01:00) Central Europe (CET)), and 'Daylight Saving Time settings' (Enable Daylight Saving Time checked, Start: So, 29.03.2009, 00:00, End: So, 25.10.2009, 00:00).

The settings on this page are reconfigurable and immediately operative.

2.3.4 Operating parameters/Customer target data

The screenshot shows the NovaTec configuration interface. The left sidebar lists various system components like NovaTec-System, NIP, and Operating parameters. The main panel is titled 'Operating parameters - Customer target data'. It contains two main sections: 'Customer' (Name: NovaTec, Config: S0_analog_631.mdb 15042009) and 'Target system' (Calling Nr.: -, Extension: -). An 'Edit...' button is located at the bottom right of the panel.

The settings on this page are reconfigurable and immediately operative.



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2.3.5 Operating parameters/Local area options

National prefix digit(s) (e.g. 0)

International prefix digit(s) (e.g. 00)

International country code (e.g. 49)

The settings on this page are not reconfigurable. Changes require a system reset.

2.3.6 Operating parameters/RSA-key Settings

RSA Key Setting

RSA Key value :

The settings on this page are not reconfigurable. Changes require a system reset.



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2.3.7 Operating parameters/SCEP Settings

The settings on this page are not reconfigurable. Changes require a system reset.

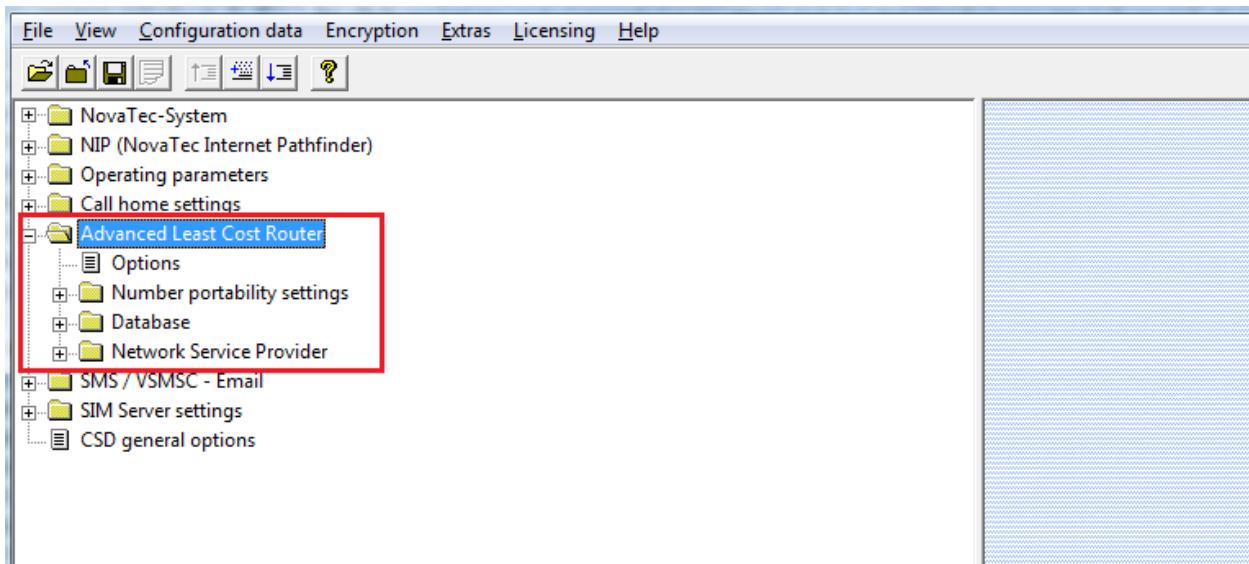
2.4 Call home settings

All settings and sub items of „Call home settings“ are reconfigurable and immediately operative.



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2.5 Advanced Least Cost Router



All settings and sub items of „Advanced Least Cost Router“ are reconfigurable and immediately operative.

2.6 SMS / VSMSC – Email

You cannot change anything on this page.



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2.6.1 SMS / VSMSC – Email/SMS <-> Email settings

The screenshot shows the NovaTec configuration interface. The left sidebar contains a tree view of system settings. The 'SMS / VSMSC - Email' section is expanded, and its 'SMS <-> Email settings' folder is highlighted with a red box. The right panel displays the 'SMS <-> Email / VSMSC - General settings' configuration page. It includes sections for Internal SMTP (Email > SMS), External SMTP (SMS > Email), Access, Outgoing Emails, and 'Catch all' options. All settings are reconfigurable.

All settings and sub items of „SMS <-> Email settings“ are reconfigurable and immediately operative.

2.6.2 SMS / VSMSC – Email/VSMSC settings

The screenshot shows the NovaTec configuration interface. The left sidebar contains a tree view of system settings. The 'SMS / VSMSC - Email' section is expanded, and its 'VSMSC settings' folder is highlighted with a red box. The right panel displays the 'SMS <-> Email / VSMSC - SMSC base options' configuration page. It includes a single checkbox for 'Activate virtual SMSC'. None of the settings in this section are reconfigurable.

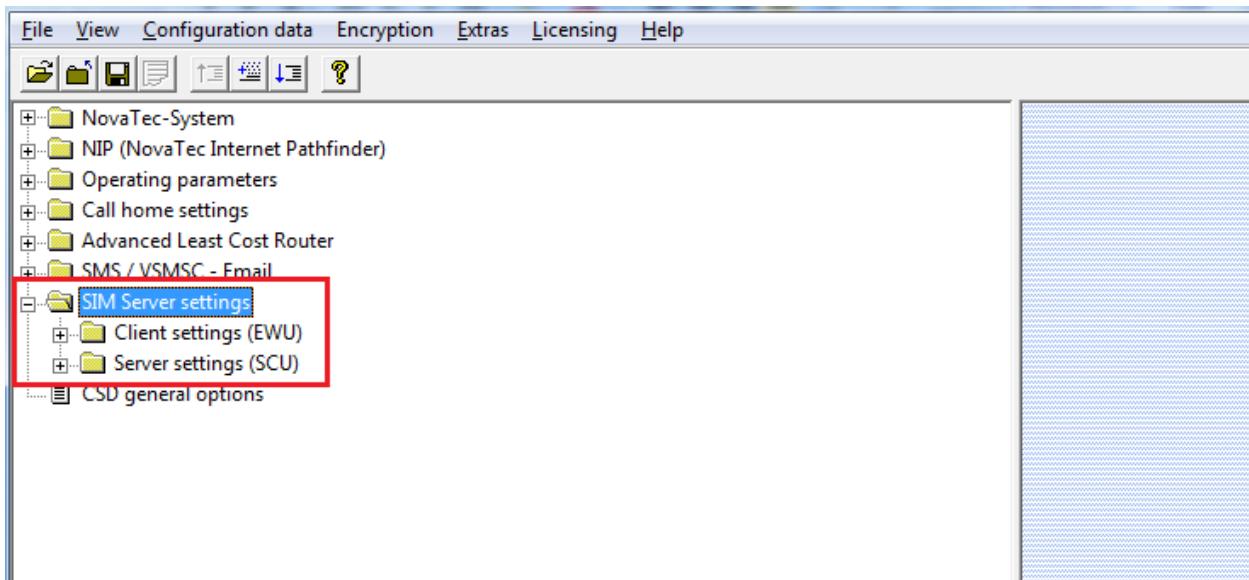
None of the settings and sub items of „VSMSC settings“ are reconfigurable.

All changes to „VSMSC settings“, „Operator profiles“, „Host profiles“ and „Routing“ require a system reset to be adopted.



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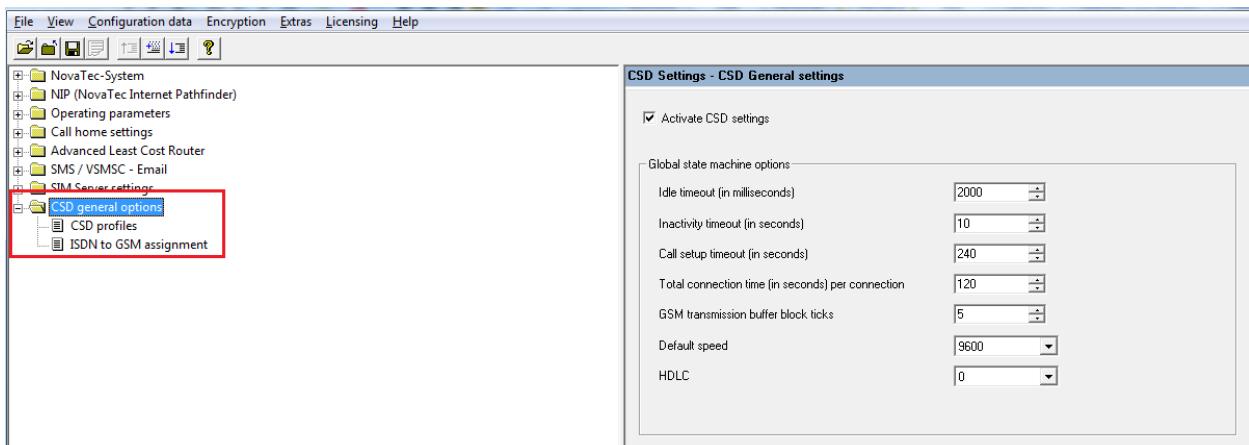
2.7 SIM Server settings



None of the settings and sub items of „SIM Server settings“ are reconfigurable.

All changes to „SIM Server settings“, „Client settings (EWU)“ and „Server settings (SCU)“ require a system reset to be adopted.

2.8 CSD general options



All settings and sub items of „CSD general options“ are reconfigurable and immediately operative.