



# **Release Notes**

9.1.3

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#### Aim and purpose

This document is part of the user manual for the installation and configuration of Teldat devices. For the latest information and notes on the current software release, please also read our release notes, particularly if you are updating your software to a higher release version. You will find the latest release notes under *www.teldat.de*.

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# **Chapter 1 Important Information**

### 1.1 Preparation and update with the GUI

Updating the system software with the Graphical User Interface is done using a BLUP (bintec Large Update) file so as to update all the necessary modules intelligently. All those elements that are newer in the BLUP than on your gateway are updated.

#### Note

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The result of an interrupted updating operation could be that your gateway no longer boots. Hence, do not turn your gateway off during the update.

To prepare and carry out any update to **System Software 9.1.3** using the Graphical User Interface, proceed as follows:

- (1) For the update, you'll need the XXXXX\_b19103.XXXfile, where XXXXX stands for you device. Ensure that the file that you require for the update is available on your PC. If the file is not available on your PC, enter www.teldat.de in your browser. The Teldat homepage will open. You will find the required file in the download area for your gateway. Save it on your PC.
- (2) Backup the current boot configuration before updating. Export the current boot configuration using the Maintenance->Software & Configuration menu in the Graphical User Interface. To do this, select: Action = Export configuration, Current File Name in Flash = boot, Include certificates and keys = enabled, Configuration Encryption = disabled Confirm this with Go. The Open <name of gateway>.cf window opens. Leave the selection Save file and click OK to save the configuration to your PC. The file <name of gateway.cf> is saved and the Downloads window shows the saved file.
- (3) Update to System Software 9.1.3 via the Maintenance->Software & Configuration menu. To do this, select: Action = Update system software, Source Location = Local File, Filename = XXXX\_bl9103.xxx. Confirm with Go. The message "System request. Please stand by. Operation in progress." or "System Maintenance. Please stand by. Operation in progress." shows that the selected file is being uploaded to the device. When the upload procedure is finished, you will see the message "System Maintenance. Success. Operation completed successfully". Click Reboot. You will see,0, the message "System Reboot. Rebooting. Please wait. This takes approximately 40 seconds". The device will start with the new system software, and the browser window will open.

#### 1.2 Downgrade with the GUI

If you wish to carry out a downgrade, proceed as follows:

- (1) Replace the current boot configuration with the previous backup version. Import the saved boot configuration via the Maintenance->Software & Configuration menu. To do this, select: Action = Import configuration, Configuration Encryption = disabled, Filename = <name of device>.cf. Confirm this with Go. The message "System request. Please stand by. Operation in progress." or "System Maintenance. Please stand by. Operation in progress." indicates that the selected configuration is being uploaded to the device. When the upload procedure is finished, you will see the message "System Maintenance. Success. Operation completed successfully." Click Reboot. You will see the message "System Reboot. Rebooting. Please wait. This takes approximately 40 seconds." The device will start and the browser window will open. Log into your device.
- (2) Downgrade to the desired software version using the **Maintenance**->**Software** & **Configuration** menu.

To do this, select: Action = Update system software, Source Location = Local File, Filename = RXL\_Series\_bl9102.biq (example). Confirm with Go. The message "System request. Please stand by. Operation in progress." or "System Maintenance. Please stand by. Operation in progress." shows that the selected file is being uploaded to the device. When the upload procedure is finished, you will see the message "System - Maintenance. Success. Operation completed successfully". Click Reboot. You will see the message "System - Reboot. Reboot. Reboot. Reboot. Please wait. This takes approximately 40 seconds". The device will start with the new system software, and the browser window will open.

You can log into your device and configure it.

# **Chapter 2 New Functions**

**System Software 9.1.3** includes a number of new functions that significantly improve performance compared with the previous version of the system software.

#### Note

Please note that not all the functions listed here are available for every device. Please refer, if necessary, to the current data sheet for your device or to the relevant manual.

#### 2.1 VoIP: Support of the G.722 audio codec

As of **System Software 9.1.3**, the devices of the **elmeg** hybird 300/600 and **elmeg** hybird 120/130 series support the G.722 audio codec which substantially increases the quality of your VoIP calls.

During VoIP calls, this audio codec captures even very high and low frequences in the range of 50-7000 Hz. Moreover, the transmitted voice pattern corresponds almost exactly to the original due to a sampling rate of 16 kHz. Overall, this leads to high-end audio transmission that is perceived as almost natural: The audio codec reaches a mean opinion score (MOS) of at least 4.5. It, however, requires a 64 kbit/s data transfer rate.

Audio codec	Frequency range	Sampling rate	MOS	Data transfer rate
G.711	300-3400 Hz	8 kHz	4.4	64 kbit/s
G.722	50-7000 Hz	16 kHz	4.5	64 kbit/s
G.729	300-2400 Hz	8 kHz	3.9	8 kbit/s
G.726	200-3400 Hz	8 kHz	3.8 / 3.9 / 4.2	24 / 32 / 40 kbit/s

The following table presents all available audio codecs of our PBX systems:

You can activate any audio codec by creating an appropriate codec profile in the Graphical User Interface (GUI) and assigning this to a SIP provider or terminal.

New profiles are created in the VoIP -> Settings -> Codec Profiles -> New menu. Select *Quality* in the Codec Proposal Sequence field and activate G.722.

Assign the generated codec profile to a VoIP interface in the VoIP -> Settings -> SIP Provider -> implies menu by selecting the corresponding profile under Codec Profiles. You can assign the corresponding profile to the IP system phones, **elmeg** IP1x0 telephones or VoIP telephones in the respective **Terminals** menu by choosing the corresponding **Codec Profile**.

#### 2.2 VoIP: User ID transfer

You can now set the type of user name (user ID) transfer, improving the support of the "Clip no screening" feature for some providers.

In the VoIP -> Settings -> SIP Provider->Advanced Settings+SIP Header Field for User Name menu, you can select if the value of the User Name field is transmitted in the *P*-*Preferred* or *P*-*Asserted* field of the SIP Header - or in neither of these fields.

### 2.3 hybird: Charge registration

The devices of the **elmeg** hybird 300/600 series now support charge data output via the analog RS-232 interface after each completed call. Any commercially available hotel application can read and process this charge information.

You can activate this function in the **Applications** -> **Call Data Records** -> **General** menu under **Transfer call data records via Serial 2**. All stored information and subsequently every single connection data record are provided to the connected hotel application.

This setting is saved as *callRecordPrinting* in the **mps** -> **mpsSysUserConfigTable** -> **mpsSysUserConfig** MIB table under **mpsSysUserConfigFacilities**.

# **Chapter 3 Changes**

The following changes have been made in System Software 9.1.3.

# 3.1 Drop in: Considered pairs of IP/MAC addresses

You can now determine which pairs of IP/MAC addresses are used for package distribution in drop in groups.

To do this a new variable **ipDropinGroupArpPolicy** was introduced in the **ip** -> **ipDropin-GroupTable** MIB table. It is accessible via the SNMP browser. With *default* settings IP/ MAC pairs are dynamically generated via ARP from the IP adress pool of the drop in group. This corresponds to the standard behavior. For *static-only* only statically predefined or already existing IP/MAC address pairs of the **ipNetToMediaTable** table are considered.

### 3.2 IPSec: Additional Granularity Mode for Phase 2

There is a new granularity mode for Phase 2 which creates a /32 Mask (host mask) for locally created packets triggering Phase 2 establishment. Choose **ipsecPrfGranularity** *local services* (6) in the **ipsec** -> **ipsecProfileTable** to enable this mode.

Enabling this mode may lead to enhanced interoperability with other devices in some specific configurations.

# 3.3 System phone: Macro

In system phones, you can assign a sequence of commands to a macro key. The potential length of such a macro function was increased from 13 to 70 characters.

### 3.4 Update: Full update

The update mechanism now verifies if a BLUP contains newer system software files. If so, the update is downloaded and installed. Also, file types not already present on the device - like additional language versions of the user interface - are now taken into account.

# 3.5 VoIP: Number of possible SIP transactions in-

#### creased

The maximum usable memory for SIP connections has been increased enhancing system performance in scenarios with large transfer volumes, e.g. within a team.

### 3.6 VoIP: Announcement

Announcements are now automatically accepted by VoIP telephones. The function is configured in the respective telephones.

# 3.7 UMTS: Support for ISDN login

ISDN login over an LTE connection is now supported.

### 3.8 UMTS: Closed User Groups

It is now possible to dial into and authenticate against closed user groups over LTE connections.

# **Chapter 4 Bugfixes**

#### Note

Please note that the changes specifically detailed below do not represent the full scope of bugfixes. In particular, the changes do not necessarily apply to all products. Even if the following corrections are not relevant to your device, it will still benefit from the general improvements to the patch.

The following bugs have been fixed in System Software 9.1.3 :

### 4.1 IPSec: Problems with Selector-based IPSec Peers

#### (ID 17188)

If an IPSec connection was established over fixed selectors, the data traffic was transferred unencrypted under specific circumstances.

The problem has been solved.

# 4.2 IPSec: Problems with Selector-based IPSec Peers

#### (ID n/a)

Configured IPSec selectors occasionally affected not only the corresponding peers but all IPSec peers.

The problem has been solved.

### 4.3 IPSec: Panic

#### (ID 17217)

If more than one trusted CA certificate was used in a Phase-1 profile, a panic occured.

The problem has been solved.

#### 4.4 DNS / NAT: Deleted DNS entries

#### (ID 17355)

When deleting the NAT entry of an interface, the DNS server entry was also deleted.

The problem has been solved.

### 4.5 Trace: PPP tracing

#### (ID 17154)

It was not possible to trace a PPP interface if it was not in an "up" state.

The problem has been solved.

### 4.6 Applikations: Calendar

#### (ID 16788)

In the Applications -> Calendar -> Calendar-> > Mon - Sun menu, individual Switching Points were missorted.

The problem has been solved.

### 4.7 VoIP: Incorrect Codecs

#### (ID 17450)

If using a **Codec Proposal Sequence** in a codec profile, incorrect codecs were assigned to the connected telephones. Thus, different codecs could be used for incoming and outgoing connections of a single call.

The problem has been solved.

### 4.8 VoIP: Re-registration fails

#### (ID 16821)

If initiating the registration at a SIP provider over qop="auth", re-registration to avoid an automatic disconnect failed.

The problem has been solved.

# 4.9 VoIP: Recorded message is not started

#### (ID 17459)

In the following scenario a recorded message did not start:

- The codec profile assigned to the SIP provider used the G.729 codec.
- The incoming call was rerouted to a team consisting of an analog and a system telephone.
- The team used Automatic Call Pick-up with a MOH Wavex file.

The problem has been solved.