

Release Notes

9.1.8

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Aim and purpose

This document is part of the user manual for the installation and configuration of bintec elmeg 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.bintec-elmeg.com .

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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

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 9.1.8** using the Graphical User Interface, proceed as follows:

- (1) For the update, you'll need the `XXXXX_b19108.xxx` file, 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.bintec-elmeg.com in your browser. The bintec elmeg 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 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 the **System Software 9.1.8** using the **Maintenance->Software & Configuration** menu. To do this, select: **Action** = *Update system software*, **Source Location** = *Local File*, **Filename** = `XXXXX_b19108.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 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. You import the saved boot configuration using the **Maintenance->Software & Configuration** menu. To do this, select: **Action** = *Import configuration*, **Configuration Encryption** = *disabled*, **Filename** = *<name of device>.cf*. Confirm 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 software version you want using the **Maintenance->Software & Configuration** menu.
To do this, select: **Action** = *Update system software*, **Source Location** = *Local File*, **Filename** = *RXL_Series_b19108.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. Rebooting. 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.

1.3 Supported web browsers

The HTML GUI supports the use of the following browsers, each in their latest version:

- Microsoft Internet Explorer
- Mozilla Firefox
-

**Important**

Ensure that you keep your browser updated to the latest version, since you need to do so to take advantage of new functions and security features. The HTML GUI does not support versions that are no longer supported by the manufacturer and supplied with software updates. If necessary, go to the software manufacturer's website to find out which versions they currently support.

Chapter 2 New Functions

Systemsoftware 9.1.8 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.

New telephony features may depend on the respectively most current version of the connected telephones' software. Make sure to use a software version that supports the new functions.

2.1 Support for the provisioning of IP 1x0 function keys

System Software 9.1.8 supports transferring the configuration of the functions keys during the automatic provisioning of elmeg Ip 1x0 telephones. The configuration is carried out in the menu **Terminals->elmeg System Phones->elmeg IP1x->Keys**.



Note

When updating a hybrid system to **System Software 9.1.8** there may be a problem with function key configurations stored on connected telephones. Since there is no key configuration stored on the system at the moment of updating, a configuration stored on a telephone will be deleted upon the next contact between the system and the telephone if autoprovisioning is enabled. For this case, it is advisable to disconnect the hybrid from any connected telephones, apply the update and create the function key configurations on the system before reconnecting the system to the LAN.

2.1.1 Keys / T100

The menu **Terminals->elmeg System Phones->elmeg IP1x->Keys** displays the configuration of your system telephone's keys.



Note

You can configure the key assignment either through your **elmeg hybrid** or on the telephone itself. We recommend using your **elmeg hybrid** for this, since it overwrites the telephone configuration.

As of **System Software 9.1.8** you can avoid the overwriting for individual keys that have already been configured on the telephone by choosing *Not configured* in the **elmeg hybrid**.

Your telephone is equipped with several function keys that allow the assignment of different functions. The functions available for programming are different across different types of telephones.

System Phone elmeg IP1x elmeg DECT

Phone: IP130 , Type: ip130 , 1st Number: 30

General **Numbers** **Keys** **Settings**

Key	Label Description	Key Type	Settings			
Key1	Dial Key 1	Dial Key (Standard)	30 (30)			
Key2						
Key3						
Key4						
Key5						
Key6						
Key7						
Key8						
Key9						
Key10						
Key11						
Key12						
Key13						
Key14						

Back Print

Fig. 2: Terminals->elmeg System Phones->elmeg IP1x->Keys

Values in the list Keys

Field	Description
Key	Displays the name of the key.
Label Description	Displays the configured key name. This appears on the labelling page (label strips).

Field	Description
Key Type	Displays the key type.
Settings	Displays the additional settings with a summary

Print allows you to print out a label sheet for the description field of your system phone or key extension.

Edit

Choose the  icon to edit existing entries. In the pop-up menu, you configure the functions of your system telephone keys.

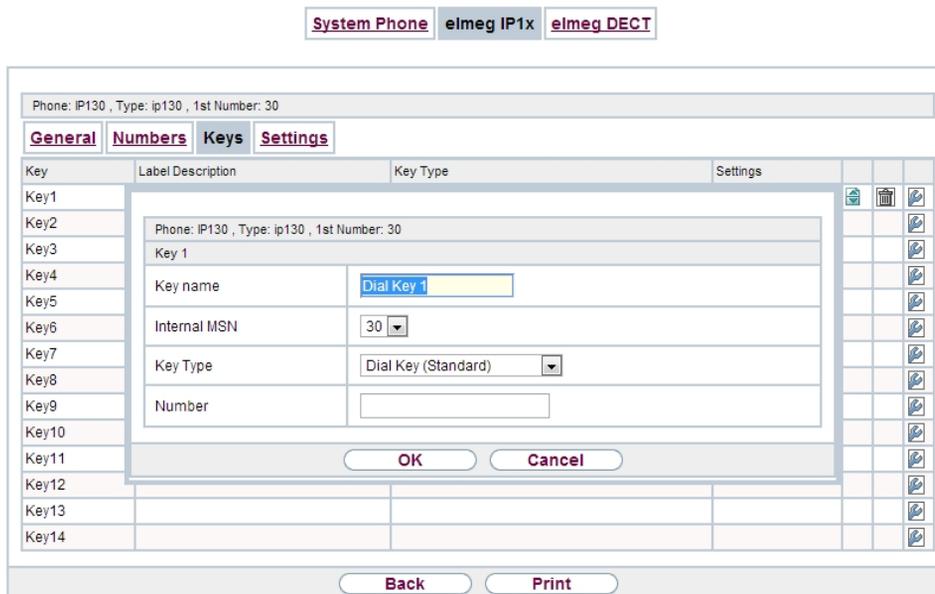


Fig. 3: Terminals->elmeg System Phones->System Phone->Keys-> Edit

You can use the following functions with system telephones:

- *Dial Key (Standard)*: You can store a number on each function key. External numbers have to be prefixed by the exchange code *0if no automatic outside line* has been configured for your **User Class** on the telephone.
- *Dial Key (DTMF)*: You can store a DTMF sequence on every function key.
- *Extension Key (User)*: You can set up dialling to an internal extension using a line key. After pressing the corresponding key, hands free is switched on and the internal ex-

tension entered is selected. If a call is signalled on the internal extension you have entered, you can pick this up by pressing the line key.

- *MSN Selection Key*: Assigns a specific connection (i.e. a specific SIP account) to the function key. You can use this key to initiate a call via this connection, or you can accept a call coming in via this connection. The key flashes if a call is received, it is lit if the connection is busy. Select the desired connection. All configured connections are available. Configure SIP accounts exclusively on your **elmeg hybrid**.
- *Call forwarding (enable)*: Assigns activating or deactivating a call forwarding that has been configured on the telephone. You can only store a single call forwarding on the device; it is applied to all calls.
- *System Parking (Open Enquiry)*: The called extension enters an enquiry and dials a code. The telephone is now open for additional operations like e.g. an announcement. A second subscriber can accept the call by picking up the receiver and dialing the code corresponding to the call. The codes are determined by the PABX, but can also be assigned to the functions keys of one or more system phones. If a call is put into open enquiry by pressing a function key, this is indicated by the flashing of the respective function key LED on all system phones with a corresponding configuration. Pressing the function key accepts the call. This function is only available if a call has been parked.
- *XML Content*: Assigns an URL to the function key. You can, e.g., store customer-specific menus and temporarily show them on the display of your telephone. This function is currently not supported by **elmeg hybrid**.
- *Next call anonymous*: For the next call the called party will no see your MSN.
- *Menu - Call Forwarding*: Assigns the menu item **Call Forwarding** in the display menu of your telephone to the function key. You can configure the call forwarding specifics.
- *Menu - Resource Directory*: Assigns the menu item **Media-Pool** in the display menu of your telephone to the function key. You can manage images used as screen saver, caller icons for phone directory entries and ring tones. Moreover, you can monitor the capacity of the pool.
- *Menu - Internet Radio*: Assigns the menu item **Internet Radio** in the display menu of your telephone to the function key. You can tune in to the last selected radio station or select a different one.
- *Not configured*: The function key is managed by the telephone itself and not by **elmeg hybrid**. This options locks the key for the provisioning by your **elmeg hybrid**.

The menu **Terminals->elmeg System Phones->elmeg IP1x->Keys->Edit** consists of the following fields:

Fields in the menu Telephone

Field	Description
Key name	Enter a name for the key to be used as text for the correspond-

Field	Description
	ing key when the ID labels are printed.
Key Type	<p>Depending on the model, telephones have seven or 14 keys that can have functions assigned to them. Optional key extension modules extend the number of available functions keys.</p> <p>Possible values:</p> <ul style="list-style-type: none"> • <i>Dial Key (Standard)</i> • <i>Dial Key (DTMF)</i> • <i>Extension Key (User)</i> • <i>MSN Selection Key</i> • <i>Call forwarding (enable)</i> • <i>System Parking (Open Enquiry)</i> • <i>XML Content</i> • <i>Next call anonymous</i> • <i>Menu - Call Forwarding</i> • <i>Menu - Ressource Directory</i> • <i>Menu - Internet Radio</i> • <i>Not configured</i>
Internal MSN	<p>Only for Key Type = <i>Dial Key (Standard)</i>, <i>Extension Key (User)</i>, <i>MSN Selection Key</i>, <i>Call forwarding (enable)</i> or <i>System Parking (Open Enquiry)</i></p> <p>You can select one of the internal MSNs configured in the menu Terminals->elmeg System Phones->elmeg IP1x->Numbers.</p>
Number	<p>Only for Key Type = <i>Dial Key (Standard)</i> or <i>Dial Key (DTMF)</i></p> <p>You can save a number or a DTMF sequence to any function key. Specify the number or the characters for the DTMF sequence.</p>
Internal Number	<p>Only for Key Type = <i>Extension Key (User)</i></p> <p>Select the internal number of the subscriber that is to be called when pressing this key.</p>
Pick-Up Code	<p>Only for Key Type = <i>Extension Key (User)</i></p>

Field	Description
	<p>The code that is required for the busy lamp field to allow you picking up a call on an IP telephone when the LED is flashing.</p> <p>The default value is #0.</p>
Waiting Queue	<p>Only for Key Type = <i>System Parking (Open Enquiry)</i></p> <p>Select the waiting queue to which the current connection is to be added.</p>
URL	<p>Only for Key Type = <i>XML Content</i></p> <p>For this function you can store the URL to a server which hosts the desired information. This function is currently not supported by elmeg hybrid.</p>

Transfer key

Select the  icon to move configured function keys.

System Phone elmeg IP1x elmeg DECT

Phone: IP130 , Type: ip130 , 1st Number: 30

General Numbers Keys Settings

Key	Label Description	Key Type	Settings
Key1			
Key2			
Key3			
Key4			
Key5			
Key6			
Key7			
Key8			
Key9			
Key10			
Key11			
Key12			
Key13			
Key14			

Phone: IP130 , Type: ip130 , 1st Number: 30

Key1

Key name	Dial Key 1
Key Type	Dial Key (Standard)
Settings	
Move to	
Phone	IP130
Module	gigaset-base
Key	Key 2

Apply Close

Back Print

Fig. 4: Terminals->elmeg System Phones->System Phone->Keys->Move

Fields in the menu Key

Field	Description
Key name	Displays the name of the key.
Key Type	Displays the key type.
Settings	Displays the additional settings with a summary

Fields in the menu Move to

Field	Description
Phone	Select one of the connected telephones.
Module	Select <i>Telephone</i> or a key extension.
Key	Select the key to which you wish to transfer the configured function.

2.2 Transfer language settings to the telephone

System Software 9.1.8 allows the language settings for a connected telephone to be transferred to the telephone during provisioning. The corresponding configuration is carried out in the menu **Terminals->elmeg System Phones->System Phone / elmeg IP1x / elmeg DECT->Settings**.

Chapter 3 Changes

The following changes have been made in **System Software 9.1.8** .

3.1 SIP - Longer password supported

The configuration of SIP providers now supports password lengths of up to 64 characters.

3.2 UMTS/LTE - Improved internet access (only for bintec RV and bintec RS series)

As of **System Software 9.1.8** the internet assistant configures the MIB variable **Dispatch** = *none* (3) in **mobileSimCfgTable** instead of **Dispatch** = *isdnlogin* (2). In the same table, the assistant now configures a UMTS modem with **AccessMode** = *umts-pref* (5) and an LTE modem with **AccessMode** = *lte-pref* (8) in order to ensure that the respective mode is preferred.

3.3 UMTS/LTE - Improved roaming (only for bintec RV and bintec RS series)

System Software 9.1.8 includes numerous improvements of the roaming function.

You can find the changes in the menu **Roaming/PLMN Selection**:

Fields in the menu Roaming/PLMN Selection

Field	Description
Roaming Mode	<p>Select if you intend to use Roaming.</p> <p>Possible values:</p> <ul style="list-style-type: none"> <i>Disabled</i>: Roaming is disabled. The Home PLMN (Public Land Mobile Network) is used, i.e. the provider the SIM card is registered at. <i>Auto Select</i>(Default setting): Use this mode if neither Roaming Mode = <i>Disabled</i> nor Roaming Mode = <i>Fixed</i> suits your requirements. Note that first a scan across all APNs is carried out in this mode. The system tries to use cost-efficient routing in order to reduce roaming charges.

Field	Description
	<ul style="list-style-type: none"> • <i>Unrestricted</i>: This mode is intended for specific requirements. Note that first a scan across all APNs is carried out in this mode. • <i>Fixed Operator</i>: At Roaming Mode = Fixed no scan is performed, and only the manually selected Mobile Network Provider is used. If the selected Mobile Network Provider is unavailable, no connection is made. • <i>Full Auto Select</i>: No scan is performed with this selection. The modem automatically selects the strongest Mobile Network Provider. Close to a country border this could also be the network of a foreign roaming partner.
Mobile Network Provider	<p>Only for Roaming Mode = Fixed Operator</p> <p>Select a Mobile Network Provider from the list.</p> <p>Possible values</p> <ul style="list-style-type: none"> • <Provider>: Select a Mobile Network Provider from the list. • <i>Manual Selection</i>: This allows entering a Provider ID (PLMN) manually.
Mobile Network Provider	<p>Here you can add a PLMN (Public Land Mobile Network).</p> <p>Every mobile network is identified by a globally unique identifier that consists of the MCC (Mobile Country Code) and the MNC (Mobile Network Code). The MCC for Germany, e.g. is 262, and the MNC for T-Mobile in Germany is 01. This results in the PLMN 26201.</p>

Chapter 4 Bug fixes

Folgende Fehler sind in **System Software 9.1.8** behoben worden:

4.1 GUI - Route not configureable

ID 18434

It was not possible to configure a router via a gateway if the corresponding interface was part of a drop-in group.

4.2 SIP - Faulty call display

ID 18458

If a call deflection was refused by the SIP provider, the Caller ID did not get the outside line code prefixed.

4.3 POTS - Call waiting tone too loud

ID 18454

The call waiting tone was experienced as being too loud for POTS devices connected to an elmeg device. It could also not be sufficiently configured.



Note

After updating to a system software version containing this bug fix, the country profile must be reloaded once in the GUI in order for the fix to become active.

4.4 SNMP Browser - Help not available

ID 18446

No help could be called from the bintec elmeg servers from inside the SNMP browser.

4.5 IPSec - Wrong use of loopback address

ID 18399

The loopback address `127.0.0.1` was occasionally used as source IP address for IKE.

4.6 IPSec - CIDR notation for net mask not supported

ID 18531

In the menu **VPN->IPSec->IPSec Peers->New**, the net mask could not be entered in CIDR notation (e.g. `/24`) for **Additional traffic filter**.

4.7 IPSec - Wrong use of standard route

ID 18509

If **Route entries** were configured without a net mask or with a net mask of `0.0.0.0` in the menu **VPN->IPSec->IPSec Peers->New**, the standard route was activated without notice.

4.8 UMTS/LTE - Wrong display of modem name

ID 18558

It could happen that a different modem model than the actually equipped one was displayed in the menu **Physical Interfaces->UMTS/LTE->** . The name of the network provider was not displayed.

Chapter 5 Known limitation

**Note**

The USB port of our devices does not support charging telephones or other USB-powered devices.

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