



Application note

for

RTX provisioning

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Document history

Revision	Resp.	Date	Comments
1.5	HDJ / BKI	13-Dec-2023	First released version.
2.0	HDJ	14-Nov-2025	Updated to V780B0100

1 Introduction

This document gives an overview of the different NVS parameters in **RTX9431**, **RTX8660** and **RTX8663** base stations and introduces the provisioning of the SME VoIP system.

There are three ways of provisioning the system:

1. Manual configuration via the base station web server.
2. Uploaded configuration files from a disk via the **Configuration** page on the base station web server.
3. Configuration files which the base station downloads from a configuration server.

The list of parameters that can be configured, is listed from section 7. Please note that some parameters may not be valid in all variants of the product. If configuration by use of the web server is used, the parameters shown on the web pages are the ones that can be used.

2 Manual configuration via the web server

To access the web server, the IP address of the base station is needed.

One way to find the IP address, is to use the **Find IP** feature of the handsets. This is enabled by clicking the **menu** button on the handset followed by '* '4' '7' '*'. (*IP*). The handset will now start to search for base stations, and for each one found, the MAC and IP address will be shown.

Once, the IP address is known, the address shall be entered in an internet browser. The default username is **admin**, and the default password is **admin**.

After a successful login, the home screen will be shown - please see figure 1 below. It is now possible to start the configuration of the system by entering the desired values for the different parameters, respectively.

Please note, from version 610 and newer, secure web server is enabled, so https is needed to access the web server.

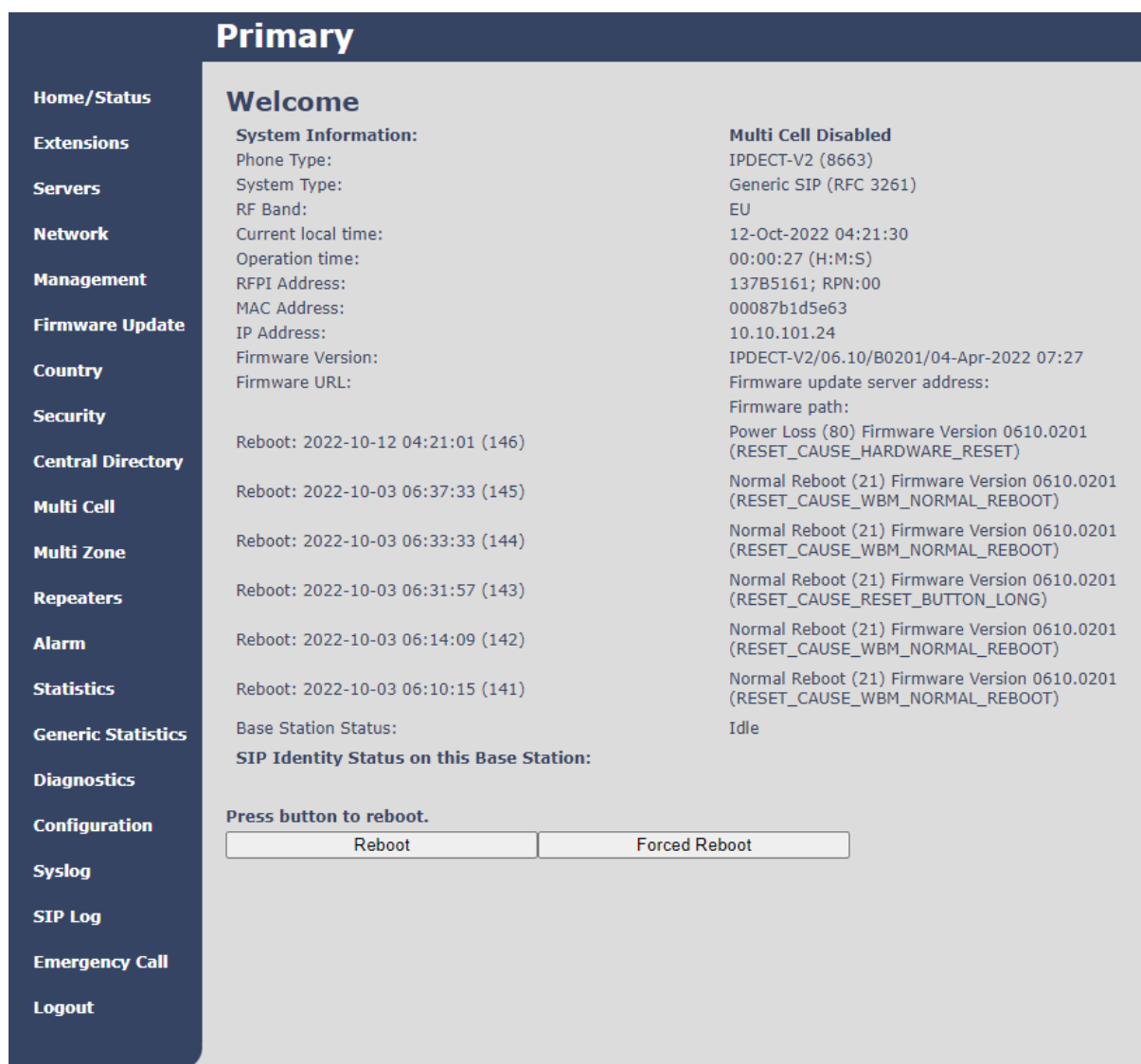


Figure 1: Home screen on web server

3 Configuration via uploaded configuration files

To use a configuration file that is uploaded (from e.g., a PC.) can be done from the **Configuration** page on the web server by following these steps: – please see figure 2 below.

1. Create the provisioning file (.cfg)
2. Click **Choose file** and navigate to the .cfg file
3. Click **Load**

It is also possible to export settings from the base station by clicking **Export**. Please see figure 2 below.

Please note, when loading a configuration file, only parameters in the configuration file will be updated i.e., if a configuration file only contains five parameters, only these five parameters will be updated, and all other parameters will stay the same.

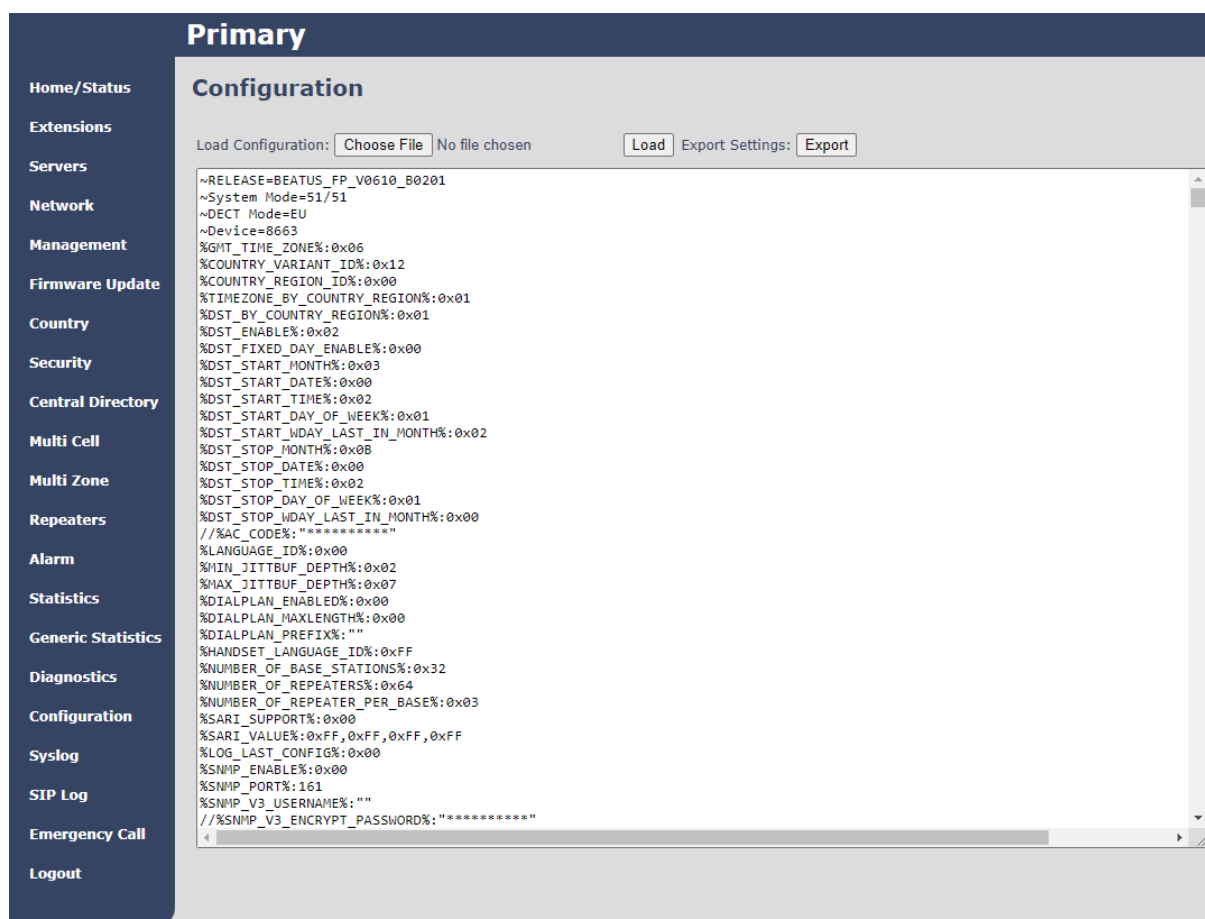


Figure 2: Configuration page

3.1 Configuration VLAN ID

It is possible to use DHCP configuration of VLAN ID by option 132 or by provisioning file.

DHCP option 132 (VLAN ID)

- Different DHCP servers can be used
- Supported ascii values: 35 30 31 00 gives a VLAN ID 501

Provisioning VLAN ID

- %NETWORK_VLAN_ID%:501

3.1.1 Using VLAN ID in multicell

It is possible to use different VLAN ID per base station or use the same on all base stations in a multicell system.

Provision file entry for same VLAN ID on all base stations in a multicell system:

- %NETWORK_VLAN_SYNCHRONIZATION%:0x01

Provision file entry for different VLAN ID on all base stations in a multicell system:

- %NETWORK_VLAN_SYNCHRONIZATION%:0x00

4 Configuration via configuration server

To use configuration files that are downloaded from a configuration server, the base stations must be set up to use configuration files. This can be done by use of DHCP option 66, or it can be configured via the web server.

DHCP option 66 (TFTP boot up server):

1. Upload of configuration file with setting the below parameter to 0 for option 66

```
uint8 NETWORK_DHCP_CLIENT_BOOT_SERVER[1]
/* Select scheme for detecting the DHCP server
0: Option 66
1: Custom
2: Static
3: Custom + Option.66 */
Default value defined: 2
```

2. Configuration by web interface as described in the below configuration for web server section

Customer can request for this default option to be changed.

Please note, customer need to require what type of files to download:

// Base specific and multi specific file download

%CONFIGURATION_DOWNLOAD_CTRL%:0x03

// Base specific file download

%CONFIGURATION_DOWNLOAD_CTRL%:0x01

4.1 Configuration for web server

Base station is set up to use configurations files on the **Management settings** page on the web server. Please refer to section 2 on how to find the IP address of a base station.

Important parameters to use configuration files are:

- Management transfer protocol
- Configuration server address
- Configuration file download

Figure 3 below is an example of a multicell system setup. An example of configuration files with two base stations in a chain can be found in subsection 10.2.

Home/Status

Extensions

Servers

Network

Management

Firmware Update

Country

Security

Central Directory

Multi Cell

Multi Zone

Repeaters

Alarm

Statistics

Generic Statistics

Diagnostics

Configuration

Syslog

SIP Log

Emergency Call

Logout

Primary

Management Settings

Base Station Name: Primary

Settings

Management Transfer Protocol: TFTP
HTTP Management upload script:
HTTP Management username:
HTTP Management password:
Factory reset from button: Enabled
Enable Automatic Prefix: Disabled
Set Maximum Digits of Internal Numbers: 0
Set Prefix for Outgoing Calls:

Configuration

Configuration File Download: Base Specific File
Configuration Server Address: betaware.rtx.net/LIP/config
Base Specific File:
Multi Cell Specific File:
Auto Resync Polling: Disabled
Auto Resync Time:
Auto Resync Days:
Auto Resync Periodic (Min):
Auto Resync Max Delay (Min):
DHCP Controlled Config Server: DHCP Option 66
DHCP Custom Option:
DHCP Custom Option Type:

Text Messaging

Text Messaging: Disabled
Text Messaging & Alarm Server:
Text Messaging Port:
Text Messaging Keep Alive (m):
Text Messaging Response (s):
Text Messaging TTL:

Terminal

Keep Alive (m): 0
Auto Stop Alarm: Disabled
Auto Stop Alarm Delay (s): 30

Syslog/SIP Log

Upload of SIP Log: Disabled
Syslog Level: Debug
TLS security: Disabled
Syslog Server IP Address:
Syslog Server Port: 514

Location Gateway

Location Gateways: Disabled
Configuration Server:
Auto Resync Polling: Disabled
Auto Resync Time:
Auto Resync Max Delay (Min):

Figure 3: Management page

5 Provisioning multicell system

The base configuration parameters are divided into several type of data:

- System specific parameters
- Server specific parameters
- Extension specific parameters
 - Extension DECT/Handset specific parameters
 - Extension SIP account specific parameters
- Repeater specific parameters

The different types of parameters are collected into data sections

- Several system data sections
- Several server data sections
- One data section per extension parameters (containing both DECT and SIP parameters)
- One data section per repeater parameters

For all data sections there are calculated #hash values which is used to detect whether how much data has been changed and to control the amount for data synchronization. When data is changed, the timestamp for this block of data is updated, which is used to validate that all base stations are up to date. Therefore, for a multicell system to work, it is vital that the time is set correct in the base station by a NTP server or similar.

Please note, the multicell system will not work properly if time server is not used.

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5.1 Base station configuration

There are three basic modes for the use of a base station:

- Single cell system
- Dual cell system
- Multicell system

The single cell system mode is a single base station not in connection with other base stations. All configuration parameters are to be sent to this base station and covers the range of this base station.

The dual cell system works just like a single cell system, only difference is that you can add an additional base station using **Easy registration** – for more information, please see VoIP system guide in section 8.4.4.

The multicell system mode is a group of base stations on a connecting LAN using the same multicell chain ID. All base stations using the same chain ID is connected and the data, which need to be synchronized, is synchronized.

There are two types of configuration files:

- Base specific file (Dual cell uses base specific format)
- Multicell specific file

The base specific file must only contain the base specific parameters, which is not synchronized to the other base stations in the multicell system. No data is updated with current timestamp when it is present in this file.

The multicell specific file must not contain any base specific parameters. Only parameters, which are used in the actual deployment, and which need synchronization to all the other base stations, are to be in this configuration. To be able to synchronize the data, a timestamp is used and updated by one base station. To point out the base station, which may update the timestamp, use the parameter:

`%NETWORK_DATA_CONFIG_PRIMARY_MAC%`

This parameter needs to be in the multicell specific file, and the value need to match one of the base stations, normally, the MAC address of the first base station is at index 0.

Please note, only one base station will process the multicell specific file - the one matching the value of the parameter `NETWORK_DATA_CONFIG_PRIMARY_MAC`.

The max. size is 500000 bytes.

5.1.1 Base station specific file creation

By default, the base station is requesting a file based on its MAC address. Example: `00087b09fee9.cfg`

Syslog example:

```
loc3 .Info 1970-01-01T00:00:08Z 173-[ Download of Config/00087b09fee9.cfg from
10.1.24.101[10.1.24.101] succeeded; File Changed]
```

This can be changed by setting this parameter:

`%FILENAME_BASE_SPECIFIC%:""`

The content needs to be basic.

Example for DHCP assigned base station IP and multicell using multicast:

```
%LOCAL_HTTP_SERVER_TEMPLATE_TITLE%:"DECT 00" %NETWORK_WAN_SETTINGS_DHCP%:0x01
%NETWORK_SYNC_ENABLE%:0x01
%NETWORK_SYNC_CHAIN_ID%:34332
%NETWORK_VLAN_ID%:501
```

VLAN ID may not be necessary if set manually or via DHCP option 132.

Example for static assigned base IP and multicell using multicast:

```
%LOCAL_HTTP_SERVER_TEMPLATE_TITLE%"DECT 00" %NETWORK_WAN_SETTINGS_DHCP%:0x00
%NETWORK_WAN_SETTINGS_IP%:192.168.11.114
%NETWORK_WAN_SETTINGS_SUBNET_MASK%:255.255.255.0
%NETWORK_WAN_SETTINGS_GATEWAY%:0.0.0.0
%NETWORK_WAN_SETTINGS_DNS1%:0.0.0.0
%NETWORK_WAN_SETTINGS_DNS2%:0.0.0.0
%NETWORK_SYNC_CHAIN_ID%:34332
%NETWORK_VLAN_ID%:501
```

VLAN ID may not be necessary if set manually or via DHCP option 132.

Please note, Gateway, DNS1, and DNS2 need to be valid or if it is not supported, they need to be as specified above.

Extra parameters for multicell peer-to-peer setup:

It is recommended to use multicast configuration if this is supported by the network.

Some other services/features are also using multicast and cannot be changed to peer-to-peer.

The parameters to add when running peer-to-peer:

```
%NETWORK_SYNC_DATA_TRANSPORT%:0x01
%NETWORK_SYNC_PRIMARY_STATIC_IP%:192.168.11.114
```

Note 1: All base stations in a multicell system need to use the same NETWORK_SYNC_PRIMARY_STATIC_IP, and it is recommended to use the base station at index 0.

Note 2: It is recommended to assign the base station at index 0, to use a static IP, to have control over the address of this base station, and used as data primary base station in the peer-to-peer multicell system.

Note 3: If base station at index 0 is broken, do not replace it with another base station, let it be in the chain, and change the base station in index 1 to do the work of index 0. Configure it to use static IP by changing NETWORK_SYNC_PRIMARY_STATIC_IP to the IP for base station at index 1.

Please see Appendix A for an example of a base station specific file.

5.1.2 Multicell specific file creation

By default, the base is requesting a file based on its multicell chain ID. Example: `Multi cell_34332.cfg`

Syslog example:

```
loc3 .Info 1970-01-01T00:00:08Z 173-[ Download of Config/Multi cell_34332.cfg from
10.1.24.101[10.1.24.101] succeeded; File Changed]
```

This can be changed by setting this parameter:

```
%FILENAME_MULTI_CELL_SPECIFIC%:""
```

The content needs to be the parameters used in the deployment. Not all parameters need to be present/specified. All parameters which is present, will be parsed and need to be correct specified to be used. The parameters which is not present in the configuration file, will not change. These parameters can be modified via the web interface and handset-controlled features.

5.2 System specific parameter handling

Not all system specific parameters are synchronized, e.g., static IP, gateway, DNS and DHCP setting is base specific including the base station name.

5.3 Server specific parameter handling

It is possible to specify up to 10 different and equal SIP servers and specify which extension SIP account shall use which SIP servers.

Some SIP servers are customer implemented and others are more general implemented and then customer configured. This gives a wide variation of the SIP signaling and the features and services available in the base station too.

The base station does not check or investigate which features and services are available on the SIP server connected to the network. It is expected that the SIP server service supplier can enable, disable, and configure the related parameters in the base station. Not only in the SIP server specific parameters but in all SIP related parameters.

The reference for which SIP server shall be used for SIP register, is based on its index. Therefore, the SIP server index must not be moved to another index, when first assigned.

Since the SIP registration is based on the settings for the specific SIP server, any change to a specific SIP server will result in an un-registered and re-registered of all extension SIP accounts assigned to this specific server.

5.3.1 General multicell roaming setting related to the SIP server

An extension SIP account can do the SIP register from different base stations in the system, but not at the same time. Most SIP servers are handling the newest SIP register as the active and working SIP register.

Some few SIP servers are handling multiple SIP registers and will in case of an incoming call to this SIP account, present it for all registered SIP accounts. Special behavior of the handsets and thereby the extension SIP accounts in the multicell system may cause problems, if not configured correct.

When a handset is powered up, it gets locked to one of the base stations in the multicell system, and all SIP accounts related to this handset is doing SIP register from that base station. The first base station that the handset chooses is not necessary the same base station every time. The handset can re-do the lock sequence and be moved to another base station.

The parameter %NETWORK_ROAMING_DEREGISTER% specifies whether a SIP un-register is to be done against the SIP server in case of roaming (moving a handset from one base to another and thereby moving the SIP account register from one base station to another). Default value for this parameter %NETWORK_ROAMING_DEREGISTER% is disabled. Only if the SIP server supports multiple SIP account registration, it is necessary to enable this active un-register towards the SIP server, when roaming.

5.4 Extension specific parameters

There are two types of parameters related to extension data. These are DECT/handset parameters and SIP account parameters. In some customer configurations, the base station enables a multi-line feature. This feature allows any handset being related to more than one SIP accounts. For base stations not having this feature enabled, it is necessary to use a one-to-one configuration of the DECT/handset to SIP account relation.

The required parameter for an extension to be configured:

- %SUBSCR_SIP_UA_DATA_CONFIGURED%

The extension index is used to create the relation between the DECT/handset registration data and the base station and to relate SIP account data to the DECT/handset data.

The index must never change for a certain handset and if provisioning IPEI/IPUI value, the value must only be present once in the provisioning file. If the index changes or IPEI/IPUI is duplicated, then the handset will properly not work. The only way to fix this is to remove the duplicate and DECT re-register the handset.

When using multi-line feature configuration, the relation between SIP accounts and DECT/handset is free of choice. There can be up to four SIP accounts related to one DECT/Handset. For easy configuration, it is recommended to keep as close to one-to-one DECT/handset to SIP account configuration.

To have control over the configuration, it is recommended to follow this:

- SIP account at index 1, 2, 3, 4 is all related to DECT/Handset index 1
- DECT/handset at index 2, 3, 4 is not configured with IPEI/IPUI data, remains FFFFFFFF.
- SIP account at index 5, 6, 7, 8 is all related to DECT/Handset index 5
- DECT/handset at index 6, 7, 8 is not configured with IPEI/IPUI data, remains FFFFFFFF.

As seen, when using four SIP accounts, only a quarter of the total amounts of DECT/handset is available. It is possible to freely use one, two, three or four SIP accounts per DECT/handset and adjust the recommended index handling, accordingly.

5.4.1 Extension DECT/handset specific parameter handling

The DECT/handset specific parameters contain some configurable parameters:

- IPUI/IPEI
- Handset specific AC
- Base stations lock relation
- SIP account relations
- Emergency settings

It also contains a non-configurable hidden parameter UAK, which is a key used in DECT for validation of handset/base relation and encryption of air interface. UAK parameter is created when the handset is doing DECT register to the base station. When this relation is made, the handset index must not be moved to another index.

Note 1: If handset parameters are moved from one index to another or are duplicated to more than one index, the handset will properly not work. Only way to fix this issue, is to remove the duplicated index in the configuration file and DECT re-register the handset.

Note 2: The web interface can show the handset DECT data and state if the handset has more than one extension, it still only has one index (Idx). Please refer to the multi-line feature in the VoIP system guide in section 8.4.1.1.

5.4.2 Extension SIP account specific parameter handling

The SIP account data is all related to features and/or services provided by the different kinds of SIP servers.

The required parameter for a SIP account to work, is to specify:

- %SUBSCR_SIP_UA_DATA_SIP_NAME%
- %SUBSCR_SIP_UA_DATA_SERVER_ID%
- %SUBSCR_SIP_HS_IDX%

Without this SUBSCR_SIP_UA_DATA_SIP_NAME field specified, the SIP account will not work. The SUBSCR_SIP_UA_DATA_SERVER_ID is per default referring to the first specified SIP server and need only to be provisioned if more SIP servers are provisioned.

The SUBSCR_SIP_HS_IDX is used in multi-line configuration. The default value for this parameter is an illegal handset index. This needs to be changed to the correct handset index, to be able to use this account. If the multi-line feature is not available, then the parameter is not used.

Please note: If the %DST_NNNN% is provisioned when %DST_BY_COUNTRY_REGION% is enabled, the %DST_NNNN% value will be ignored/overwritten by the automated process.

Values for %COUNTRY_VARIANT_ID%:

Please refer to subsection 14.1.2 for details.

Values for %COUNTRY_REGION_ID%:

Please refer to subsection 14.2.1 for details.

The other parameters are described in section 7.

- %GMT_TIME_ZONE%
- %DST_NNNN%

Please refer to Appendix B for an example of a base specific file.

6 Home and Status

No provisioning

7 Extensions

In this section you find all settings related to extensions.

7.1.1 ALLOW_CALL_GROUPS

Web server	Local call groups
Provisioning	ALLOW_CALL_GROUPS
Default	0x01
Type	Boolean
Min.	0x00
Max.	0x01
Note	Setting controls if local call groups within the base is enabled or disabled. Once a handset has been registered on the base station, it is no longer possible to change this setting. 0 disables local call groups 1 enables local call groups Setting is only available on RTX9431 Base station, and when an extension is created, it cannot be changed.

7.1.2 AC

Web server	AC
Provisioning	AC_CODE
Default	0x00
Type	BCD number
Min.	0
Max.	255
Note	Configures the GAP access code used for pairing of handset to gateways. This parameter configures the access code of the gateway. The access code must be given as 4 BCD coded digits.

7.1.3 Line name

Web server	Line name
Provisioning	SUBSCR_SIP_LINE_NAME
Default	N/A
Type	String
Min.	0
Max.	7
Note	Short name associated with this extension when using multi-line. No name = Last 7 digits of extension name will be used.

7.1.4 Handset Idx x

Web server	Handset Idx x
Provisioning	SUBSCR_SIP_HS_IDX
Default	0xFFFF
Type	Integer
Min.	0
Max.	65535
Note	Handset ID association from a given extension. Up to 4 extensions can be associated to 1 handset ID. Number of handsets are 50 0xFFFF or 65535 -> Not associated 0 -> Associated to handset ID 0 49 -> Associated with last handset ID 49

7.1.5 SUBSCR_SIP_UA_DATA_CONFIGURED

Web server	Not configurable on web server
Provisioning	SUBSCR_SIP_UA_DATA_CONFIGURED
Default	0x00
Type	Boolean
Min.	0
Max.	1
Note	Parameter is used to indicate if an account has been configured, and hence if it will be used. 0: Account is not in use 1: Account is actively configured

7.1.6 Push-To-Talk

Web server	Push-To-Talk
Provisioning	SUBSCR_PUSH_TO_TALK
Default	0 / Disabled
Type	Boolean
Min	0
Max	1
Note	Push-To-Talk settings for extensions (handsets and headsets) 0: Disable 1: Enable

7.1.7 Extension

Web server	Extension
Provisioning	SUBSCR_SIP_UA_DATA_SIP_NAME
Default	N/A
Type	String
Min.	0
Max.	35
Note	The SIP username or extension. The part before domain name e.g., sip:<sipusername>@domain.com

7.1.8 Authentication username

Web server	Authentication username
Provisioning	SUBSCR_SIP_UA_DATA_AUTH_NAME
Default	N/A
Type	String
Min.	0
Max.	35
Note	SIP authentication name

7.1.9 Authentication password

Web server	Authentication password
Provisioning	SUBSCR_SIP_UA_DATA_AUTH_PASS
Default	N/A
Type	Uinit8_t
Min.	0
Max.	35
Note	SIP authentication password

7.1.10 Display name

Web server	Display name
Provisioning	SUBSCR_UA_DATA_DISP_NAME
Default	N/A
Type	String
Min.	0
Max.	29
Note	SIP Display name

7.1.11 XSI username

Web server	XSI username
Provisioning	SUBSCR_XSI_UA_DATA_AUTH_NAME
Default	N/A
Type	String
Min.	0
Max.	35
Note	XSI username

7.1.12 XSI password

Web server	XSI password
Provisioning	SUBSCR_XSI_UA_DATA_AUTH_PASS
Default	N/A
Type	String
Min.	0
Max.	35
Note	XSI password

7.1.13 Mailbox name

Web server	Mailbox name
Provisioning	SUBSCR_SIP_UA_DATA_VOICE_MAILBOX_NAME
Default	N/A
Type	String
Min.	0
Max.	39
Note	Voice mailbox username - see RFC 3842 The username that will be used in the SUBSCRIBE request when subscribing to the voice mail service. If not specified, no SUBSCRIBE made.

7.1.14 Mailbox number

Web server	Mailbox number
Provisioning	SUBSCR_SIP_UA_DATA_VOICE_MAIL_NUMBER
Default	N/A
Type	String
Min.	0
Max.	20
Note	Number to be used by handset to call voice mail, if supported by handset and handset compatible. Leave it empty if not used for voice mail number.

7.1.15 Server

Web server	Server
Provisioning	SUBSCR_SIP_UA_DATA_SERVER_ID
Default	0 / First, default server
Type	Integer
Min.	0
Max.	9
Note	Specifies ID of the server a given account will use Allowed values: 0-9

7.1.16 Call waiting

Web server	Call waiting
Provisioning	SUBSCR_SIP_UA_DATA_CALL_WAITING
Default	01 / Enabled
Type	Boolean
Min.	0
Max.	1
Note	Enable and disable Call Waiting Indication (CWI). If CWI is enabled, an indication will be given in the handset if a 2ns incoming call arrives while a call is already active. If not enabled, the base will respond with a Busy Here. 0: Call waiting is disabled 1: Call waiting is enabled

7.1.17 BroadWorks busy lamp field list URI

Web server	BroadWorks busy lamp field list URI
Provisioning	SUBSCR_UA_DATA_BW_BLF_RESLIST_URI
Default	N/A
Type	String
Min.	0
Max.	10
Note	URI for busy lamp field resource list on the BroadWorks application server. Only ten characters are allocated for each URI because the server part is provided by the server register field.

7.1.18 BroadWorks Shared Call Appearance

Web server	BroadWorks Shared Call Appearance (SCA)
Provisioning	SUBSCR_SIP_UA_DATA_BW_SCA_EXTENSION_ENABLED
Default	0 / Disabled
Type	Boolean
Min.	0
Max.	1
Note	Parameter defines if this extension is part of a BroadWorks SCA 0: Extension is not part of an SCA 1: Extension _is_ part of an SCA

7.1.19 BroadWorks feature event package

Web server	BroadWorks feature event package
Provisioning	SUBSCR_SIP_UA_DATA_BW_PACK_ENABLED
Default	0 / Disabled
Type	Boolean
Min.	0
Max.	1
Note	Parameter defines if subscription to the BroadWorks feature event package is enabled or not. This feature may not be possible in all configurations. 0: Subscription to the BroadWorks feature event package is disabled 1: Subscription to the BroadWorks feature event package is enabled

7.1.20 UaCSTA

Web server	UaCSTA
Provisioning	SUBSCR_SIP_UA_DATA_UACSTA_ENABLED
Default	0 / Disabled
Type	Boolean
Min.	0
Max.	1
Note	Parameter is used to indicate if UaCSTA is enabled for a given account. 0: UaCSTA not enabled 1: UaCSTA enabled

7.1.21 Forwarding unconditional number

Web server	Forwarding unconditional number
Provisioning	SUBSCR_SIP_UA_DATA_FWD_UNCOND_NUMBER
Default	N/A
Type	String
Min.	0
Max.	21
Note	Forward unconditional number SIP phone number used, when Forward unconditional is enabled

7.1.22 Forwarding unconditional number

Web server	Forwarding unconditional number
Provisioning	SUBSCR_SIP_UA_DATA_ENABLE_FWD_UNCOND
Default	0 / Disabled
Type	Boolean
Min.	0
Max.	1
Note	Enables and disables the SIP Forward unconditional feature. 0: SIP Forward unconditional disabled 1: SIP Forward unconditional enabled

7.1.23 Forwarding no answer number

Web server	Forwarding no answer number
Provisioning	SUBSCR_SIP_UA_DATA_FWD_NO_ANSW_NUMBER
Default	N/A
Type	String
Min.	0
Max.	21
Note	SIP Forward no answer number SIP phone number used when Forward no answer is enabled

7.1.24 Forwarding no answer number

Web server	Forwarding no answer number
Provisioning	SUBSCR_SIP_UA_DATA_ENABLE_FWD_NO_ANSW
Default	0 / Disabled
Type	Boolean
Min.	0
Max.	1
Note	Enables and disables the SIP Forward no answer feature. 0: SIP Forward no answer disabled 1: SIP Forward no answer enabled

7.1.25 Forwarding no answer number – seconds

Web server	Forwarding no answer number - seconds
Provisioning	SUBSCR_SIP_UA_DATA_INCOMING_CALL_TIMEOUT
Default	90
Type	Integer
Min.	1
Max.	254
Note	Specifies the time in seconds that an incoming call will keep on ringing. At expiration, the call will be terminated towards caller as well as towards HS.

7.1.26 Forwarding on busy number

Web server	Forwarding on busy number
Provisioning	SUBSCR_SIP_UA_DATA_FWD_BUSY_NUMBER
Default	N/A
Type	String
Min.	0
Max.	21
Note	SIP Forward busy number SIP phone number used when Forward busy is enabled

7.1.27 Forwarding on busy number

Web server	Forwarding on busy number
Provisioning	SUBSCR_SIP_UA_DATA_ENABLE_FWD_BUSY
Default	0 / Disabled
Type	Boolean
Min.	0
Max.	1
Note	Enables and disables the SIP Forward busy feature. 0: SIP Forward busy disabled 1: SIP Forward busy enabled

7.1.28 Reject anonymous calls

Web server	Reject anonymous calls
Provisioning	SUBSCR_SIP_REJECT_ANONYMOUS_CALLS_ENABLED
Default	0 / Disabled
Type	Boolean
Min.	0
Max.	1
Note	Parameter is used to indicate if rejection of anonymous calls is enabled for a given subscription. 0: Not enabled. 1: Enabled.

7.2 Handset

7.2.1 IPEI

Web server	IPEI
Provisioning	SUBSCR_DECT_IPUI
Default	0xFF
Type	Hex string
Min.	0
Max.	255
Note	International Portable User Identity (IPUI). Normally this is not used with provisioning. If FEATURE_IPEI_CONTROLLED_DECT_REG is enabled for the customer, the following rules apply: Handset IPEI can be specified as hex strings containing all 10 hex values of the IPEI seen in the handset status menu. • Example 1, specify handset 0..3:0123456789,0123abcdef,0123445566,FFFFFFFF • Example 2, specify handset 2 only:,,0123445566 Note 1: One IPEI/IPUI value must only be present once in the configuration file. No checks are made but the handset will probably not work. Note 2: When registering a handset to a base station, the entry specifying the IPEI for the handset need to be opened for registration. Note 3: The use of SUBSCR_DECT_AC_CODE is dependent on the value of SUBSCR_DECT_IPUI. For details, please refer to subsection 7.2.3.

7.2.2 Paired terminal

Web server	Paired terminal
Provisioning	SUBSCR_PAISED_TERMINAL_ID
Default	0xFFFF
Type	Integer
Min.	0
Max.	65535
Note	Terminal ID of paired terminals. At the index of a given terminal, a value different from 0xFFFF indicates the terminal with index equal to this value, is paired with the given terminal.

Web server	Push-To-Talk – please refer to subsection 7.1.4.
------------	--

7.2.3 Access code

Web server	Access code (AC)
Provisioning	SUBSCR_DECT_AC_CODE
Default	0xFF
Type	Hex string
Min.	0
Max.	255
Note	User AC value. Normally this is not used with provisioning. If FEATURE_IPEI_CONTROLLED_DECT_REG is enabled for the customer, the following rules apply: - Handset Register AC can be specified as hex strings containing all 4 hex values of the desired AC for a subscription. The AC is given as 4 BCD coded digits. - If a value of the handset specific AC value is above 9 e.g., A, B, C, D, E, F, then the general AC_CODE value is used. - The default value of the handset AC is FFFF i.e., the general AC_CODE is used unless this value is changed. - Example 1, specify AC value handset 0..3:0123,4567,8901,0000 - Example 2, specify AC value handset 2 only:,,8901 Note 1: For the AC value to be used, the IPEI/IPUI value must be set differently from FFFFFFFF. Note 2: AC_CODE value is used, which as default has value 0000 when IPEI/IPUI is specified to FFFFFFFF.

7.2.4 Alarm line

Web server	Alarm line
Provisioning	SUBSCR_UA_DATA_EMERGENCY_LINE
Default	0xFFFF
Type	Integer
Min.	0
Max.	65535
Note	SIP extension index to use when dialing the emergency number.

7.2.5 Alarm number

Web server	Alarm number
Provisioning	SUBSCR_UA_DATA_EMERGENCY_NUMBER
Default	N/A
Type	String
Min.	0
Max.	20
Note	The number to dial when the emergency key is pressed
Web server	Receive mode
Provisioning	SUBSCR_BEACON_RX_SETTING
Default	0x00
Type	Integer
Min.	0
Max.	15
Note	This byte holds reception setting parameters for the beacon Receive mode (bit:0-1). Disabled(0b00), enter proximity(0b01), leave proximity(0b10), enter or leave proximity(0b11). Receive sensitivity (bit:2-3). Low(0b00), medium(0b01), high(0b10) receiver sensitivity. Receive selection (bit:4-7). Unused bits.

7.2.6 Receive select

Web server	Receive select
Provisioning	SUBSCR_BEACON_RX_VARIANT
Default	0x00
Type	Integer
Min.	0
Max.	7
Note	This byte holds 1 bit per variant of the reception beacon Receive variant (bit:0). iBeacon Receive variant (bit:1). AltBeacon Receive variant (bit:2). Eddystone Receive unused (bit:3-7). Unused

7.2.7 Transmit interval

Web server	Transmit interval
Provisioning	SUBSCR_BEACON_TX_SETTING
Default	0x00
Type	Integer
Min.	0
Max.	63
Note	This byte holds transmit setting parameters for the beacon Beacon transmit interval (bit:0-2). Disable(0b000), short(0b001), step1(0b010), step2(0b011, step3(0b100), step4(0b101), step5(0b110), or long(0b111) Beacon transmit power (bit:3-5). Low(0b000), step1(0b001), ..., step6(0b110), high(0b111) Beacon transmit unused bits (bit:6-7).

7.2.8 Transmit select

Web server	Transmit select
Provisioning	SUBSCR_BEACON_TX_VARIANT
Default	0x00
Type	Integer
Min.	0
Max.	7
Note	This byte holds 1 bit per variant of the reception beacon Receive variant (bit:0). iBeacon Receive variant (bit:1). AltBeacon Receive variant (bit:2). Eddystone Receive unused (bit:3-7). Unused

7.2.9 Alarm profiles

Web server	Alarm profiles
Provisioning	SUBSCR_UA_DATA_EMERGENCY_PROFILES
Default	0x00
Type	Integer
Min.	0
Max.	255
Note	Bit map containing the profiles used by the given handset. If profile 0 and profile 3 are needed, then you need to set 1+8=9. If the same alarm type e.g., Alarm button has several profiles, it is not possible to enable both profile types with Alarm button on the webpage, but it will be possible to provisioning this.

7.2.10 Shared Call Appearance settings

Web server	Shared Call Appearance (SCA) settings
Provisioning	SUBSCR_UA_DATA_BW_SCA_INFO_MAPPING
Default	(0xFFFF)
Type	Byte array
Min.	0
Max.	65535
Note	Parameter is used for storing the mapping from SCA info icons to extension IDs (the extensions should be part of an SCA). A note on the contents: • Each byte corresponds to one SCA info icon on the handset display • Byte zero corresponds to the first icon from the left, byte one to the second and so forth • A byte can be zero i.e., no extension is mapped to the corresponding icon • Several bytes can have the same value which means that the corresponding icons monitor different call appearances on the same shared line

7.2.11 SUBSCR_SIP_UA_USE_BASE

Web server	Location
Provisioning	SUBSCR_SIP_UA_USE_BASE
Default	0xFF
Type	Integer (hex)
Min.	0
Max.	255
Note	Account is locked to use on one base station. 0xFF -> Not locked. • Other values -> locked to multicell index. This setting is only available on RTX8663 base station.

7.3 Menu Configuration

7.3.1 SUBSCR_MENU_ACCESS_PROFILE

Web server	Menu configuration - Profile
Provisioning	SUBSCR_MENU_ACCESS_PROFILE
Default	0x00
Type	Int
Min.	0
Max.	3
Note	Assigned handset menu access control profile Used to control which menu access control profile (if any) has been assigned to the handset Select Profil 1, Profile 2 or Profile 3

7.3.2 MENU_UNAVAILABLE_BITMASKS

Web server	Menu configuration - Profile
Provisioning	MENU_UNAVAILABLE_BITMASKS
Default	0x00
Type	BYTE ARRAY
Min.	0
Max.	255
Note	Bitmask representing unavailable handset menus. Bitmask representing unavailable handset menus, each bit represents if the menu corresponding to that entry number is unavailable or not.

7.3.3 MENU_RESTRICTED_BITMASKS

Web server	Menu configuration - Profile
Provisioning	MENU_RESTRICTED_BITMASKS
Default	0x00
Type	BYTE ARRAY
Min.	0
Max.	255
Note	Bitmask representing pin locked handset menus Bitmask representing pin locked handset menus, each bit represents if the menu corresponding to that entry number is pin locked or not

8 Servers

In this section you find all settings related to servers.

8.1.1 Server alias

Web server	Server alias
Provisioning	SRV_SIP_SERVER_ALIAS
Default	N/A
Type	String
Min.	0
Max.	10
Note	Alias for the given SIP server.

8.1.2 NAT adaption

Web server	NAT adaption
Provisioning	SRV_SIP_UA_DATA_SERVER_NO_NAT_ADAPTION
Default	0x00
Type	Boolean
Min.	0
Max.	1
Note	Parameter specifies if the base station shall adapt the content of the SIP messages to address information on the outside of a NAT. 0: the SIP messages will adapt to the information received via e.g., STUN, RPORT, etc. 1: the local IP address of the base station will always be used in the SIP messages. Thus, any information on a different global IP address of a different port than the ones currently being used, is ignored.

8.1.3 Register

Web server	Registrar
Provisioning	SRV_SIP_UA_DATA_DOMAIN
Default	N/A
Type	String
Min.	0
Max.	63
Note	Parameter specifies the domain or SIP registration server. Sometimes, it is also called registrar (a registrar is a server that accepts REGISTER messages.) If no proxy address is defined, out-of-dialog messages will be sent to the registrar. :port supported

8.1.4 Outbound proxy

Web server	Outbound proxy
Provisioning	SRV_SIP_UA_DATA_PROXY_ADDR
Default	N/A
Type	String
Min.	0
Max.	63
Note	Proxy server is an intermediary entity that acts as both a server (UAS) and a client (UAC) for the purpose of making requests on behalf of other clients. Parameter specifies the address of the proxy server and when defined, all SIP packets are sent to this address. :port supported

8.1.5 VP controller

Web server	VP controller
Provisioning	SRV_SIP_UA_DATA_VPBOX_ADDR
Default	0
Type	URL (string)
Min.	0
Max.	63
Note	Parameter specifies the address or FQDN of a VP controller.

8.1.6 Conference server

Web server	Conference server
Provisioning	SRV_SIP_UA_DATA_CONF_ADDR
Default	N/A
Type	String
Min.	0
Max.	63
Note	Parameter specifies the address or FQDN of a conference server.

8.1.7 Call log server

Web server	Call log server
Provisioning	SRV_BROADSOFT_CALLLOG_SERVER_ADDR
Default	N/A
Type	String
Min.	0
Max.	63
Note	Address of the BroadWorks XSI type call log server for the given SIP server. NOTE: SRV_BROADSOFT_CALLLOG_ENABLE must be enabled.

8.1.8 Music On Hold server

Web server	Music On Hold (MOH) server
Provisioning	SRV_SIP_MOH_SERVER_ADDR
Default	N/A
Type	String
Min.	0
Max.	63
Note	Parameter specifies the address or FQDN of a MOH server.

8.1.9 Re-registration time

Web server	Re-registration time
Provisioning	SRV_SIP_UA_DATA_REREG_TIME
Default	3600
Type	Integer
Min.	0
Max.	65534
Note	Specifies the maximum proposed time between SIP re-registrations in seconds. Thus, the specified value is the value that is used to populate the parameter (expires) in the REGISTER request.

8.1.10 SIP session timers

Web server	SIP session timers
Provisioning	SRV_SIP_ENABLE_SESSION_TIMERS
Default	0x00
Type	Boolean
Min.	0
Max.	1
Note	Parameter determines the support for usage of session timers (includes adding headers Session-Expires and Min-SE) 0: Session timers are disabled 1: Session timers are enabled

8.1.11 Session timer value

Web server	Session timer value
Provisioning	SRV_SIP_SESSION_TIMER_VALUE
Default	1800
Type	Integer
Min.	0
Max.	65534
Note	If session timer support is enabled, this option specifies the SIP session timer in seconds.

8.1.12 SIP transport

Web server	SIP Transport
Provisioning	SRV_SIP_TRANSPORT
Default	0x01
Type	Integer
Min.	0
Max.	8
Note	Defines the transport protocol to use for SIP. 1: UDP 2: TCP 4: TLS 8: AUTO

8.1.13 Signal TCP source port

Web server	Signal TCP source port
Provisioning	SRV_SIP_SIGNAL_TCP_PORT
Default	0x01
Type	Boolean
Min.	0
Max.	1
Note	Parameter defines if the source TCP port must be signaled in the SIP messages when using TCP or TLS. It may be necessary to change this parameter dependent on the given SIP PBX. 0: Use of explicit port is disabled 1: Use of explicit port is enabled

8.1.14 Use one TCP connection per SIP extension

Web server	Use one TCP connection per SIP Extension
Provisioning	SRV_SIP_USE_ONE_TCP_CONN_PER_EXT
Default	0x00
Type	Boolean
Min.	0
Max.	1
Note	When using TCP or TLS as SIP transport, choose if a TCP or TLS connection should be established for each SIP extension, or if the base station should establish one connection which all SIP extensions use. Please note that if TLS is used, and SIP server requires client authentication (and requests a client certificate) - this setting must be set to disabled. 0: Disabled (use one TCP/TLS connection for all SIP extensions) 1: Enabled (use one TCP/TLS connection per SIP extensions)

8.1.15 RTP from own base station

Web server	RTP from own base station
Provisioning	SRV_SIP_RTP_BASE_EQUAL
Default	0x00
Type	Boolean
Min.	0
Max.	1
Note	Parameter determines from which base station the RTP traffic is initiated. This feature may not be enabled in all configurations. 0: Start RTP stream from the base station where the handset is currently present, and this is not necessarily the same base station, as the handset has its SIP registration. 1: Start the RTP stream from the base station where the SIP registration is sent from.

8.1.16 Keep-alive

Web server	Keep-alive
Provisioning	SRV_SIP_KEEP_ALIVE
Default	0x01
Type	Boolean
Min.	0
Max.	1
Note	Parameter defines if packets (keep-alive) should be sent. The purpose of SIP packets (keep-alive) is to keep the SIP channel open, and therefore the packets (keep-alive) are sent in the same way as SIP requests. Thus, if a proxy server is defined, the packets (keep-alive) are sent to the proxy server address. Otherwise, they are sent to the address of the registrar.

8.1.17 SRV_MAX_INT_NUM_LEN

Web server	?
Provisioning	SRV_MAX_INT_NUM_LEN
Default	0x00
Type	Int
Min.	0
Max.	35
Note	Max Internal Number Length This parameter defines the max number length for internal calls. Used to differentiate between internal and external calls by using different ring melodies. This is a part of the feature FEATURE_CALL_INTERNAL_DIFFERENTIAL_VIA_NUMLENGTH.

8.1.18 Show extension on handset idle screen

Web server	Show extension on handset idle screen
Provisioning	SRV_SIP_SHOW_EXT_NAME_IN_HS
Default	0x01
Type	Boolean
Min.	0
Max.	1
Note	Parameter determines if the extension name should be displayed on the handset or not. 0: Extension name area in the handset will be empty 1: Extension name will be displayed

8.1.19 Hold behavior

Web server	Hold behaviour
Provisioning	SRV_SIP_HOLD_BEHAVIOUR
Default	0x00
Type	Boolean
Min	0
Max	1

8.1.20 Local ring back tone

Web server	Local ring back tone
Provisioning	SRV_SIP_RINGBACK_TONE
Default	0x01
Type	Boolean
Min.	0
Max.	1
Note	Parameter to be used to enable or disable ring back tone 0: Ring back tone disabled 1: Ring back tone enabled

8.1.21 Remote ringtone control

Web server	Remote ringtone control
Provisioning	SRV_REMOTE_RINGTONE
Default	0x00
Type	Boolean
Min.	0
Max.	1
Note	Parameter to enable or disable the remote ringtone control (AlertTone) sent to a handset. 0: Remote ringtone control disabled 1: Remote ringtone control enabled

8.1.22 Attended transfer behavior

Web server	Attended transfer behavior
Provisioning	SRV_ATT_TRANSFER_2ND_CALL_ON_HOLD
Default	0x01
Type	Boolean
Min.	0
Max.	1
Note	Configuration option for choosing if 2nd call should be put on hold before attended transfer. 0: Disabled i.e., 2nd call will not be put on hold 1: Enabled i.e., 2nd call will be put on hold

8.1.23 Semi-attended transfer behavior

Web server	Semi-attended transfer behavior
Provisioning	SRV_SEMI_ATTENDED_TRANSFER
Default	0x01
Type	Boolean
Min.	0
Max.	1
Note	Parameter to enable or disable the possibility to carry out semi-attended transfer of calls 0: Semi-attended transfer disabled 1: Semi-attended transfer enabled

8.1.24 Sipping-19

Web server	Sipping-19
Provisioning	SRV_SIPPING19
Default	0x01
Type	Boolean
Min.	0
Max.	1
Note	Parameter to enable or disable Sipping-19 for conference pack feature 0: Disabled 1: Enabled

8.1.25 Direct Call Pickup

Web server	Directed Call Pickup
Provisioning	SRV_BW_DIRECTED_CALL_PICKUP_ENABLE
Default	0x00
Type	Boolean
Min.	0
Max.	1
Note	Enable or disable BroadWorks Directed Call Pickup for the given SIP server. 0: Disabled - Directed Call Pickup cannot be used. 1: Enabled

8.1.26 Direct Call Pickup code

Web server	Directed Call Pickup code
Provisioning	SRV_BW_DIRECTED_CALL_PICKUP_CODE
Default	N/A
Type	String
Min.	0
Max.	4
Note	The access code for using BroadWorks Directed Call Pickup on the given SIP server.

8.1.27 Group Call Pickup

Web server	Group Call Pickup
Provisioning	SRV_BW_GROUP_CALL_PICKUP_ENABLE
Default	0x00
Type	Boolean
Min.	0
Max.	1

8.1.28 Group Call Pickup code

Web server	Group Call Pickup code
Provisioning	SRV_BW_GROUP_CALL_PICKUP_CODE
Default	N/A
Type	String
Min.	0
Max.	4
Note	Access code for using BroadWorks Group Call Pickup on the given SIP server

8.1.29 Use own codec priority

Web server	Use own codec priority
Provisioning	SRV_SIP_USE_OWN_CODEC_PRIORITY
Default	0x00
Type	Boolean
Min.	0
Max.	1
Note	Configuration possibility to choose if own codec priority should be used in SDP codec negotiation. 0: Disabled (use remote codec priority) 1: Enabled (use own codec priority)

8.1.30 DTMF signaling

Web server	DTMF signaling
Provisioning	SRV_DTMF_SIGNALLING
Default	0x02
Type	Integer
Min	1
Max	3
NOTE	Parameter specifies how to transmit DTMF signaling 1: SIP info 2: RTP events (RFC2833) 3: SIP info and RTP events (RFC2833)

8.1.31 DTMF payload type

Web server	DTMF payload type
Provisioning	SRV_DTMF_PAYLOAD_TYPE
Default	101
Type	Integer
Min.	0
Max.	254
Note	Parameter specifies the value of the DTMF payload type to send when DTMF signaling is RFC2833. Typical value is 101.

8.1.32 Remote caller ID source priority

Web server	Remote caller ID source priority
Provisioning	SRV_SIP_CLI_MODE
Default	0x01
Type	Integer
Min.	0x00
Max.	0x04
Note	Parameter defines the priority on which the base will look for CLI information in incoming SIP messages. Please note that the (from) header will always be used as CLI source if no other of the selected headers are present. 0x00: PAI - From 0x01: From 0x02: (cid=) in Alert-Info - PAI – From 0x03: RPI_FROM 0x04: From until PAI

8.1.33 Codec priority

Web server	Codec priority
Provisioning	SRV_SIP_UA_CODEC_PRIORITY
Default	0x00, 0x01, 0x06, 0x04, 0xFF
Type	Byte array
Min.	0
Max.	255
Note	Ranking of codec types. Unused entries must be set to 0xFF. Entries referring to unsupported entries are ignored: 0: PCMU 1: PCMA 4: G729 // Will only be used if DSP module is present 5: G722 6: G726

8.1.34 G729 Annex B

Web server	G729 Annex B
Provisioning	SRV_CODEC_ENABLE_G729AB
Default	0x00
Type	Boolean
Min.	0
Max.	1
Note	Parameter to enable or disable the offering of G729 Annex B 0: G729A (annexb=no) 1: G729AB (annexb=yes)

8.1.35 Use ptime

Web server	Use ptime
Provisioning	SRV_SIP_ENABLE_PTIME
Default	0x01
Type	Boolean
Min.	0
Max.	1
Note	Parameter to enable or disable the ptime and maxptime parameters in the SDP 0: ptime and maxptime disabled (not sent in SDP) 1: ptime and maxptime enabled

8.1.36 RTP packet size

Web server	RTP packet size
Provisioning	SRV_SIP_RTP_PACKET_SIZE
Default	0x01
Type	Integer
Min.	0
Max.	7
Note	Parameter determines the packet size (ptime) which is offered in the SDP, and consequently the size of the RTP packets in the TX direction. Allowed values are: 0: ptime = 10 ms 1: ptime = 20 ms 2: ptime = 30 ms 3: ptime = 40 ms 4: ptime = 50 ms 5: ptime = 60 ms 6: ptime = 70 ms 7: ptime = 80 ms

8.1.37 RTCP

Web server	RTCP
Provisioning	SRV_SIP_ENABLE_RTCP
Default	0x01
Type	Boolean
Min.	0
Max.	1
Note	Parameter to enable or disable the RTCP parameter in the SDP 0: RTCP disabled (not sent in SDP) 1: RTCP enabled

8.1.38 Send SDP capabilities in offer (RFC 5939)

Web server	Send SDP capabilities in offer (RFC 5939)
Provisioning	SRV_SDP_CAPA_NEGOTIATE_ENABLE
Default	0x00
Type	Boolean
Min.	0
Max.	1
Note	Parameter to enable or disable the offering of SDP capability negotiation (RFC 5939) 0: SDP capability negotiation disabled 1: SDP capability negotiation enabled

8.1.39 Secure RTP

Web server	Secure RTP
Provisioning	SRV_SECURE_RTP
Default	0x00
Type	Integer
Min.	0
Max.	3
Note	Defines if RTP streams are encrypted or not. 0: RTP streams are not encrypted. SRTP is disabled, and calls which require SRTP are rejected 1: RTP is encrypted. Calls which do not support SRTP are rejected 2: RTP encryption is optional. SDP will contain AVP profile as well as SAVP profile. Calls with and without SRTP will be accepted. 3: Media security will choose if it should be SRTP or RTP

8.1.40 Secure RTP authentication

Web server	Secure RTP authentication
Provisioning	SRV_SRTP_AUTH
Default	0x00
Type	Boolean
Min.	0
Max.	1
Note	Defines if RTP streams are encrypted or not. 0: Authentication disabled in SRTP stream 1: Authentication enabled in SRTP stream

8.1.41 SRTP crypto suites

Web server	SRTP crypto suites
Provisioning	SRV_SRTP_CRYPTOSUITES
Default	0x00
Type	Integer
Min.	0
Max.	3
Note	Defines the SRTP crypto suites to allow when using SRTP 0: AES_CM_128_HMAC_SHA1_32, AES_CM_128_HMAC_SHA1_80 1: AES_CM_128_HMAC_SHA1_80, AES_CM_128_HMAC_SHA1_32 2: AES_CM_128_HMAC_SHA1_32 3: AES_CM_128_HMAC_SHA1_80

9 Network

In this section, you find all the network settings.

9.1 IP settings

9.1.1 DHCP or static IP

Web server	DHCP or static IP
Provisioning	NETWORK_WAN_SETTINGS_DHCP
Default	0x01
Type	uint8_t
Min.	0
Max.	1
Note	Parameter specifies if DHCP is enabled or if the base station must use a static IP address. 0: DHCP is disabled, hence a static IP address is used 1: DHCP is enabled

9.1.2 IP address

Web server	IP address
Provisioning	NETWORK_WAN_SETTINGS_IP
Default	0.0.0.0
Type	IP
Min.	0.0.0.0
Max.	255.255.255.255
Note	Parameter holds the IP address of the base station. If DHCP is disabled, the static IP address must be entered here. IPv4

9.1.3 Subnet mask

Web server	Subnet mask
Provisioning	NETWORK_WAN_SETTINGS_SUBNET_MASK
Default	0.0.0.0
Type	IP
Min.	0.0.0.0
Max.	255.255.255.255
Note	Parameter holds the subnet mask of the base station. If DHCP is disabled, the subnet mask must be entered here.

9.1.4 Default gateway

Web server	Default gateway
Provisioning	NETWORK_WAN_SETTINGS_GATEWAY
Default	0.0.0.0
Type	IP
Min.	0.0.0.0
Max.	255.255.255.255
Note	Parameter holds the IP address of the gateway. If DHCP is disabled, the gateway address must be entered here.

9.1.5 DNS (primary)

Web server	DNS (primary)
Provisioning	NETWORK_WAN_SETTINGS_DNS1
Default	0.0.0.0
Type	IP
Min.	0.0.0.0
Max.	255.255.255.255
Note	Parameter holds the address of the primary DNS server. If DHCP is disabled, the address of the primary DNS server must be entered here.

9.1.6 DNS (secondary)

Web server	DNS (secondary)
Provisioning	NETWORK_WAN_SETTINGS_DNS2
Default	0.0.0.0
Type	IP
Min.	0.0.0.0
Max.	255.255.255.255
Note	Parameter holds the address of the secondary DNS server. If DHCP is disabled, the address of the secondary DNS server must be entered here.

9.1.7 MDNS

Web server	MDNS
Provisioning	MDNS_SUPPORT
Default	0x00
Type	Boolean
Min.	0
Max.	1
Note	This setting controls if MDNS is enabled or not. 0: Disables MDNS 1: Enables MDNS

9.2 VLAN settings

9.2.1 ID

Web server	ID
Provisioning	NETWORK_VLAN_ID
Default	0
Type	uint16_t
Min.	0
Max.	65535
Note	VLAN ID

9.2.2 User priority

Web server	User priority
Provisioning	NETWORK_VLAN_USER_PRIORITY
Default	0x00
Type	Uint8_t
Min.	0
Max.	256
Note	VLAN user priority

9.2.3 Synchronization

Web server	Synchronization
Provisioning	NETWORK_VLAN_SYNCHRONIZATION
Default	0x01
Type	uint8_t
Min.	0
Max.	256
Note	Specifies if VLAN settings from other base stations in multicell must be applied by each base station. This parameter is base station specific and will not be synchronized. 0: Possible to use different VLAN on different base stations 1: Used where all base stations use same VLAN settings

9.2.4 NETWORK_LAYER2_TAG_OPTION

Web server	Tag L2 Packets
Provisioning	NETWORK_LAYER2_TAG_OPTION
Default	0x00
Type	BOOLEAN
Min.	0
Max.	1
Note	Enable tagging of EAP and Discovery packets Variable to enable disable tagging of EAP and Discovery packets

9.3 DHCP options

9.3.1 Plug and Play

Web server	Plug and Play
Provisioning	NETWORK_WAN_DHCP_OPTION_PLUG_AND_PLAY
Default	0x01
Type	uint8_t
Min.	0
Max.	256
Note	Enables DHCP plug and Play Enables storing of DHCP option 120 as SIP server

9.4 TCP options

9.4.1 TCP keep-alive interval

Web server	TCP keep-alive interval
Provisioning	TCP_KEEP_ALIVE_INTERVAL
Default	120
Type	uint32_t
Min.	0
Max.	4294967296
Note	TCP keep-alive interval. The time in seconds between TCP keep-alive probes being sent. If set to zero, keep-alive is disabled.

9.5 Discovery

9.5.1 LLDP-MED send

Web server	LLDP-MED send
Provisioning	LLDP_MED_SEND
Default	0x01
Type	Boolean
Min.	0x00
Max.	0x01
Note	Send LLDP-MED message. Disabled by default.

9.5.2 LLDP-MED Send delay

Web server	LLDP-MED send delay
Provisioning	DP_DELAY_LLDP_MED
Default	0x1E
Type	uint8_t
Min.	0
Max.	256
Note	Delay between LLDP_MED messages. 30 seconds by default.

9.5.3 VLAN via LLDP-MED

Web server	VLAN via LLDP-MED
Provisioning	LLDP_AUTOTEST_VLAN
Default	0
Type	uint16_t
Min.	0
Max.	65535
Note	LLDP auto test VLAN ID

9.6 NAT settings

9.6.1 Enable STUN

Web server	Enable STUN
Provisioning	SIP_STUN_ENABLE
Default	0x00
Type	Boolean
Min.	0
Max.	1
Note	Defines whether Network Address Translators (NAT) should be detected and bypassed by means of STUN 0: STUN is disabled 1: STUN is enabled

9.6.2 STUN server

Web server	STUN server
Provisioning	NETWORK_STUN_SERVER
Default	'Blanc'
Type	IP
Min.	0.0.0.0
Max.	255.255.255.255
Note	Name or IP address of STUN server and possible for <ip>:<port>

9.6.3 STUN bind time determine

Web server	STUN bind time determine
Provisioning	SIP_STUN_BINDTIME_DETERMINE
Default	0x01
Type	Boolean
Min.	0
Max.	1
Note	If STUN is enabled and SIP_STUN_BINDTIME_GUARD is defined, setting this parameter to 1, forces the system to automatically determine the duration of NAT bindings in the system. In this case the SIP_STUN_BINDTIME_GUARD parameter defines the initial test duration.

9.6.4 STUN bind time guard

Web server	STUN bind time guard
Provisioning	SIP_STUN_BINDTIME_GUARD
Default	80
Type	uint16_t
Min.	0
Max.	65535
Note	If STUN is enabled, this value specifies in seconds how often the system will guard the NAT bindings. Guard for NAT bindings helps the system to react properly if e.g., the NAT device has been reset. If the value is zero, no guarding will be made. Check also SIP_STUN_BINDTIME_DETERMINE

9.6.5 Enable RPORT

Web server	Enable RPORT
Provisioning	SIP_RPORT_ENABLE
Default	0x00
Type	uint8_t
Min.	0
Max.	256
Note	Defines whether RPORT should be used in SIP messages 0: RPORT is disabled 1: RPORT is enabled

9.6.6 Keep-alive time

Web server	Keep-alive time
Provisioning	SIP_STUN_KEEP_ALIVE_TIME
Default	90
Type	uint16_t
Min.	0
Max.	65535
Note	If STUN is enabled, SIP_STUN_KEEP_ALIVE_TIME defines in seconds how often keep-alive is sent to keep NAT bindings. If SIP_STUN_BINDTIME_DETERMINE is set, SIP_STUN_KEEP_ALIVE_TIME will be overruled and keep-alive will be sent with a frequency of half of the determined bind time.

9.7 SIP/RTP settings

9.7.1 Use different SIP ports

Web server	Use different SIP ports
Provisioning	SIP_USE_DIFFERENT_PORTS
Default	0x00
Type	Boolean
Min.	0
Max.	1
Note	When it is enabled, each account will use a different SIP port. Otherwise, the same port will be used for all accounts. The parameter is only valid if the feature is enabled in the product.

9.7.2 RTP collision detection

Web server	RTP collision detection
Provisioning	RTP_COLLISION_CONTROL
Default	0x01
Type	Boolean
Min.	0
Max.	1
Note	Parameter to be used to enable or disable RTP collision control 0: RTP collision control is disabled, and colliding RTP packets are accepted 1: RTP collision control is enabled, and colliding RTP packets are rejected

9.7.3 Always reboot on check-sync

Web server	Always reboot on check-sync
Provisioning	SIP_CHECK_SYNC_ALWAYS_REBOOT
Default	0x00
Type	Boolean
Min.	0
Max.	1
Note	Specifies if the base station must reboot at reception of a SIP NOTIFY with check-sync, regardless of the reboot parameter being present. 0: Disabled (reboot=TRUE must be present to force the base station to reboot) 1: Enabled (base station will always reboot at reception of check-sync)

9.7.4 Outbound proxy mode

Web server	Outbound proxy mode
Provisioning	SIP_OUTBOUND_PROXY_MODE
Default	0x00
Type	Boolean
Min.	0
Max.	1
Note	Control how outbound proxy must be used (only applicable if an outbound proxy is specified) 0: All SIP requests are sent to the outbound proxy 1: Only use outbound proxy for initial SIP requests

9.7.5 Failover SIP timer B

Web server	Failover SIP timer B
Provisioning	SIP_TIMER_B
Default	5
Type	uint32_t
Min.	0
Max.	4294967296
Note	The SIP transaction timer B. Timer B is the maximum amount of time (seconds) that a sender will wait for an INVITE message to be acknowledged.

9.7.6 Failover SIP timer F

Web server	Failover SIP timer F
Provisioning	SIP_TIMER_F
Default	5
Type	uint32_t
Min.	0
Max.	4294967296
Note	The SIP transaction timer F. Timer F is the maximum amount of time (seconds) that a sender will wait for a non-INVITE message to be acknowledged.

9.7.7 Local SIP port

Web server	Local SIP port
Provisioning	SIP_SIP_PORT
Default	5060
Type	uint16_t
Min.	0
Max.	65535
Note	Port used for SIP communication when all accounts are configured to use the same SIP port.

9.7.8 SIP ToS/QoS

Web server	SIP ToS (Type of Service) / QoS (Quality of Service)
Provisioning	SIP_SIP_PRIORITY
Default	0x68
Type	uint8_t
Min.	0
Max.	256
Note	Priority of SIP traffic based on the IP layer ToS byte. See RFC 1349 for details. Notice 'cost' bit is not supported Bit 7..5 defines precedence. Bit 4..2 defines ToS. Bit 1..0 are ignored. Setting all three of bit 4..2 will be ignored.

9.7.9 RTP port

Web server	RTP port
Provisioning	SIP_RTP_PORT
Default	50004
Type	uint16_t
Min.	0
Max.	65535
Note	First port used for RTP traffic. The RTP ports are assigned circularly with this port as the initial one.

9.7.10 RTP port range

Web server	RTP port range
Provisioning	SIP_RTP_PORT_RANGE
Default	254
Type	uint8_t
Min.	0
Max.	256
Note	Number of RTP ports available

9.7.11 RTP ToS/QoS

Web server	RTP ToS (Type of Service) / QoS (Quality of Service)
Provisioning	SIP_RTP_PRIORITY
Default	0xB8
Type	uint8_t
Min.	0
Max.	256
Note	Priority of RTP traffic based on the IP layer ToS byte. See RFC 1349 for details. Notice 'cost' bit is not supported Bit 7..5 defines precedence. Bit 4..2 defines ToS. Bit 1..0 are ignored. Setting all three of bit 4..2 will be ignored.

9.7.12 Reject anonymous calls

Web server	Reject anonymous calls
Provisioning	SIP_REJECT_ANONYMOUS_CALLS_ENABLED
Default	0x00
Type	Boolean
Min.	0
Max.	1
Note	Parameter is used to indicate if rejection of anonymous calls is enabled. 0: Not enabled 1: Enabled

10 Management

In this section, you will find all settings related to management.

10.1.1 Base station name

Web server	Base station name
Provisioning	LOCAL_HTTP_SERVER_TEMPLATE_TITLE
Default	8318_XXXXXX
Type	String
Min.	0
Max.	36
Note	Title on HTML template file.

10.2 Settings

10.2.1 Management transfer protocol

Web server	Management transfer protocol
Provisioning	MANAGEMENT_TRANSFER_PROTOCOL
Default	0x01
Type	Hex 00 to 02
Min.	00
Max.	02
Note	Parameter specifying the protocol to be used for transferring configuration file, FWU files, etc. 0x00: TFTP 0x01: HTTP 0x02: HTTPS

10.2.2 HTTP management upload script

Web server	HTTP management upload script
Provisioning	MANAGEMENT_UPLOAD_SCRIPT
Default	'/CfgUpload'
Type	HTTP_Post
Min.	0
Max.	128
Note	Parameter specifying the script to call when uploading files using HTTP POST

10.2.3 HTTP management username

Web server	HTTP management username
Provisioning	MANAGEMENT_USERNAME
Default	'Blanc'
Type	String
Min.	0
Max.	128
Note	Parameter specifying the username to be used for the Management transfer protocol specified with MANAGEMENT_TRANSFER_PROTOCOL. If empty, the MAC address will be used as username.

10.2.4 HTTP management password

Web server	HTTP management password
------------	--------------------------

Provisioning	MANAGEMENT_PASSWORD
Default	'Commented out'
Type	String
Min.	0
Max.	25
Note	Parameter specifying the password to be used for the management transfer protocol specified with MANAGEMENT_TRANSFER_PROTOCOL:

10.2.5 Factory reset From button

Web server	Factory reset From button
Provisioning	MANAGEMENT_FACTORY_RESET_FROM_BUTTON
Default	0x01
Type	Boolean
Min.	0
Max.	1
Note	With this setting enabled, it is possible to do a factory reset using the button.

10.2.6 Enable automation prefix

Web server	Enable automation prefix
Provisioning	DIALPLAN_ENABLED
Default	0x00
Type	Unit8_t
Min.	0
Max.	1
Note	0 = Disabled 1 = Enabled

10.2.7 Set maximum digits of internal numbers

Web server	Set maximum digits of internal numbers
Provisioning	DIALPLAN_MAXLENGTH
Default	0x00
Type	Unit8_t
Min.	0
Max.	49
Note	Maximum digits of internal numbers

10.2.8 Set prefix for outgoing calls

Web server	Set prefix for outgoing calls
Provisioning	DIALPLAN_PREFIX
Default	None
Type	Unit8_t
Min.	0
Max.	255
Note	Prefix for outgoing calls

10.3 Configuration

10.3.1 Configuration file download

Web server	Configuration file download
Provisioning	CONFIGURATION_DOWNLOAD_CTRL
Default	0x00
Type	Hex 00 to 03
Min.	00
Max.	03
Note	This is to control how to download the configuration file 0: No Download 1: Base specific file 2: Multicell specific file 3: Both files

10.3.2 Configuration server address

Web server	Configuration server address
Provisioning	NETWORK_CONFIGURATION_SERVER
Default	https://rdd.openrainbow.com/
Type	IP or URL
Min.	0
Max.	256
Note	Name or IP address of the configuration server

10.3.3 Base specific file

Web server	Base specific file
Provisioning	FILENAME_BASE_SPECIFIC
Default	0
Type	uint8_t
Min.	0
Max.	32
Note	Parameter specifies the file name of the base specific file requested to be downloaded dependent on the parameters NETWORK_CONFIGURATION_SERVER and CONFIGURATION_DOWNLOAD_CTRL. If the file name is left empty, the file name will be constructed by the MAC address and added .cfg at the end e.g., 00087b123456.cfg

10.3.4 Multicell specific file (dual cell specific file)

Web server	Multicell specific file
Provisioning	FILENAME_MULTICELL_SPECIFIC
Default	0
Type	uint8_t
Min.	0
Max.	32
Note	Parameter specifies the file name of the multicell specific file requested to be downloaded dependent on the parameters NETWORK_CONFIGURATION_SERVER and CONFIGURATION_DOWNLOAD_CTRL. If the file name is left empty, the file name will be constructed by the NETWORK_SYNC_ID in the ID area of this file name multicell_ID.cfg e.g., multicell_512.cfg

10.3.5 Auto resync polling

Web server	Auto resync polling
Provisioning	AUTO_RESYNC_POLLING
Default	0x00
Type	Boolean
Min.	0
Max.	1
Note	Auto resync configuration polling 0: Disabled 1: Enabled

10.3.6 Auto resync time

Web server	Auto resync time
Provisioning	AUTO_RESYNC_TIME
Default	0
Type	uint8_t
Min.	0
Max.	2
Note	Auto resync time 03:24 (hh:mm), 00:00(default), 00h00 (for French and Spanish configuration files)

10.3.7 Auto resync days

Web server	Auto resync days
Provisioning	AUTO_RESYNC_DAYS
Default	0
Type	uint16_t
Min.	0
Max.	364
Note	Auto resync days: 1; 0(default), 1..364days

10.3.8 Auto resync periodic

Web server	Auto resync periodic (min)
Provisioning	AUTO_RESYNC_PERIODIC
Default	0
Type	uint16_t
Min.	0
Max.	65535
Note	Period between auto resync in minutes.

10.3.9 Auto resync max delay

Web server	Auto resync max delay (min)
Provisioning	AUTO_RESYNC_MAX_DELAY
Default	15
Type	uint16_t
Min.	0
Max.	1439
Note	Auto resync max delay: 20; 0-1439, 15(default) maximum random wait time in minutes before starting sync at the scheduled time.

10.3.10 DHCP controlled configuration server

Web server	DHCP controlled configuration server
Provisioning	NETWORK_DHCP_CLIENT_BOOT_SERVER
Default	0x02
Type	Unit8_t
Min.	0x00
Max.	2
Note	Select scheme for detecting the boot server 0x00: Option 66 0x01: Custom 0x02: Static 0x03: Custom + Option 66

10.3.11 DHCP custom option

Web server	DHCP custom option
Provisioning	NETWORK_DHCP_CLIENT_BOOT_SERVER_OPTION
Default	160
Type	Unit8-t
Min.	0
Max.	256
Note	When the boot server parameter is set to custom, the parameter specifies the DHCP option number in which the base station will look for its boot server.

10.3.12 DHCP custom option type

Web server	DHCP custom option type
Provisioning	NETWORK_DHCP_CLIENT_BOOT_SERVER_OPTION_DATATYPE
Default	0x01
Type	Unit8-t
Min.	0
Max.	1
Note	When the boot server parameter is set to custom, the parameter specifies the type of the DHCP option in which the base station will look for its boot server. 0: IP Address 1: String

10.4 Cloud Services

10.4.1 MQTT broker address

Web server	MQTT broker address
Provisioning	MQTT_BROKER_ADDRESS
Default	N/A
Type	IP or URL
Min.	0
Max.	127
Note	Name or IP address of the broker used for MQTT communication.

10.4.2 MQTT broker port

Web server	MQTT broker port
Provisioning	MQTT_BROKER_PORT
Default	8883
Type	Unit_32
Min.	0
Max.	35534
Note	Define the port value for MQTT broker.

10.4.3 MQTT connection keep-alive

Web server	MQTT connection keep-alive (seconds)
Provisioning	MQTT_CONNECTION_KEEP_ALIVE
Default	0x3C
Type	Unit8_t
Min.	0
Max.	255
Note	Define how long the keep-alive for MQTT connections should be. Can be from 0-255 seconds with 60 seconds by default.

10.4.4 Change settings via Cloud Services or base station

Web server	Change settings via Cloud Services or base station
Provisioning	MQTT_CHANGE_SETTINGS_VIA_CLOUD
Default	0x01
Type	Unit8_t
Min.	0
Max.	2
Note	Choose if it should be possible to only change settings via Cloud Services or only via the base stations. 0 = Only via base stations 1 = Settings can be changed via base stations or via Cloud Services 2 = Via Cloud Services for the next 24 hours

10.5 Text messaging

10.5.1 Text messaging

Web server	Text messaging
Provisioning	TEXT_MSG_MODE
Default	0
Type	Unit8_t
Min.	0
Max.	2
Note	Mode of the text messaging 0: Disabled 1: Enabled 2: Enabled without server

10.5.2 Text messaging and alarm server

Web server	Text messaging and alarm server
Provisioning	TEXT_MSG_SERVER
Default	0
Type	IP or URL
Min.	0
Max.	128
Note	Name or IP address of the text messaging and alarm server.

10.5.3 Text messaging port

Web server	Text messaging port
Provisioning	TEXT_MSG_PORT
Default	1300
Type	Unit16_t
Min.	0
Max.	65535
Note	Port to be used with the text messaging server.

10.5.4 Text messaging keep-alive

Web server	Text messaging keep-alive (minutes)
Provisioning	TEXT_MSG_KEEP_ALIVE
Default	0x1E
Type	Unit16_t
Min.	0
Max.	65535
Note	Text messaging keep-alive interval (minutes).

10.5.5 Text messaging response

Web server	Text messaging response (seconds)
Provisioning	TEXT_MSG_RESPONSE_TIME
Default	30
Type	Unit16_t
Min.	0
Max.	65535
Note	Text messaging response time. Timeout for communication response in seconds. Hex number.

10.5.6 Text messaging TTL

Web server	Text messaging TTL (Time To Live)
Provisioning	TEXT_MSG_TTL
Default	0
Type	Unit16_t
Min.	0
Max.	65535
Note	Text messaging TTL. Maximum age in seconds of a job file. If set to 0 then the function is deactivated, and job files do not expire.

10.5.7 CALLBACK_CONFIRMATION_CONTROL

Web server	Callback Confirmation
Provisioning	CALLBACK_CONFIRMATION_CONTROL
Default	0x00
Type	Int
Min.	0
Max.	2
Note	Callback acknowledgement Enables, disables or sets to user defined, the functionality for emergency alarm callback acknowledgement User_Defined=0, ON=1, OFF=2

10.5.8 ALARM_SORTING

Web server	Select Alarm Sorting
Provisioning	ALARM_SORTING
Default	0x00
Type	Int
Min.	0
Max.	1
Note	Global setting for all handsets that decides if handset should show alarms based on their priority or how recent an alarm is sorted. Global setting for all handsets that decides if handset should show alarms based on their priority or based on their timestamp 0x00 = Handset shows alarms based on their priority 0x01 = Handset shows the most recent received alarm

10.6 Terminal

10.6.1 Keep-alive

Web server	Keep-alive (minutes)
Provisioning	HANDSET_KEEPA_LIVE_DELAY
Default	0
Type	Uinit8_t
Min.	0
Max.	256
Note	The delay between keep-alive handling is triggered in the handset in minutes. 0: Disabled 1-255: 1-255 minutes

10.6.2 Auto stop alarm

Web server	Auto stop alarm
Provisioning	HANDSET_ALARM_AUTO_STOP_ALLOWED
Default	0x00
Type	Uinit8_t
Min.	0
Max.	1
Note	Defines if it should be possible to disable the alarm from the handset 0: Not Allowed 1: Allowed

10.6.3 Auto stop alarm delay

Web server	Auto stop alarm delay (s)
Provisioning	HANDSET_ALARM_AUTO_STOP_DELAY
Default	0x1E
Type	Unit8_t
Min.	0
Max.	256
Note	Delay (seconds) from an emergency event has been triggered until the alarm tone will Automatically stop.

10.7 Syslog/SIP log

10.7.1 VOIP_SIP_AUTO_UPLOAD

Web server	Upload of SIP log
Provisioning	VOIP_SIP_AUTO_UPLOAD
Default	0x00
Type	Boolean
Min.	0x00
Max.	0x01
Note	Configure automatic upload of SIP log files. 0x00: No uploading 0x01: Upload SIP log to log server

10.7.2 Syslog level

Web server	Syslog level
Provisioning	SYSLOG_LEVEL
Default	0x01
Type	Unit8_t
Min.	0
Max.	3
Note	Parameter defines the level of syslog information that will be logged. Level: 0: Syslog off 1: Normal operation 2: System analyze 3: Debug

10.7.3 TLS security

Web server	TLS security
Provisioning	SYSLOG_TLS
Default	0x00
Type	Unit8_t
Min.	0
Max.	1
Note	Parameter defines if the syslog connection should use secure TLS when logging: 0: Disable (use UDP) 1: Enable (use TCP with TLS)

10.7.4 Syslog server IP address

Web server	Syslog server IP address
Provisioning	SYSLOG_SERVER_IP_ADDRESS
Default	0
Type	IP or URL
Min.	0
Max.	256
Note	IP address of the syslog server

10.7.5 Syslog server port

Web server	Syslog server port
Provisioning	SYSLOG_SERVER_PORT
Default	514
Type	Unit16_t
Min.	0
Max.	65535
Note	Port used on the syslog server

10.8 Location gateway

10.8.1 Location gateways

Web server	Location gateways
Provisioning	BEACON_SUPPORT
Default	0x00
Type	Unit8_t
Min.	0
Max.	1
Note	Beacon support is used to enable or disable website and features related to the use of a beacon.

10.8.2 Configuration server

Web server	Configuration server
Provisioning	LOCATION_GATEWAY_CONFIGURATION_SERVER
Default	0
Type	IP or URL
Min.	0
Max.	256
Note	Name or IP address and port of the location gateway configuration server

10.8.3 Auto resync polling

Web server	Auto resync polling
Provisioning	LOCATION_GATEWAY_AUTO_RESYNC_POLLING
Default	0x00
Type	Boolean
Min.	0
Max.	1
Note	Auto resync configuration polling 0: Disabled 1: Enabled

10.8.4 Auto resync time

Web server	Auto resync time
Provisioning	LOCATION_GATEWAY_AUTO_RESYNC_TIME
Default	00:00
Type	Unit8_t
Min.	0
Max.	256
Note	Auto resync time 03:24 (hh:mm), 00:00(default), 00h00 (for French and Spanish configuration files)

10.8.5 Auto resync max delay

Web server	Auto resync max delay (minutes)
Provisioning	LOCATION_GATEWAY_AUTO_RESYNC_MAX_DELAY
Default	15
Type	Unit16_t
Min.	0
Max.	1439
Note	Auto resync max delay: 20; 0-1439, 15(default) maximum random wait time in minutes before starting sync at scheduled time.

10.9 Headset base station

10.9.1 HEADSET_FP_SUPPORT

Web server	Headset base station
Provisioning	HEADSET_FP_SUPPORT
Default	0x00
Type	Unit8_t
Min.	0
Max.	1
Note	Headset FP support is used to enable or disable website and features related to the use of headset base stations.

11 Firmware update

11.1.1 Firmware update server address

Web server	Firmware update server address
Provisioning	NETWORK_FWU_SERVER
Default	0
Type	IP or URL
Min.	0
Max.	128
Note	DNS name of the server that contains firmware update files.

11.1.2 Firmware path

Web server	Firmware path
Provisioning	FWU_TFTP_SERVER_PATH

Default	0
Type	Unit8_t
Min.	0
Max.	128
Note	Path on the TFTP server in which to look for firmware update files. The path may contain multiple directories. Path must start with a slash and must end with a slash. Backslashes are not allowed.

11.1.3 Update base station – required version

Web server	Update base station (required version)
Provisioning	FP_FWU_SW_VERSION
Default	0
Type	Unit16_t
Min.	0
Max.	9999
Note	Parameter specifies the firmware version the base station must use. If a different version is already loaded into the base station, the firmware update procedure will start to update the base station to the specified version. If the version is specified to 0, the version check is disabled.

11.1.4 Update base station - required branch

Web server	Update base station (required branch)
Provisioning	FP_FWU_BRANCH_VERSION
Default	0
Type	Unit16_t
Min.	0
Max.	9999
Note	Parameter specifies the firmware version the base station must use. If a different version is already loaded into the base station, the firmware update procedure will start to update the base station to the specified version. If the version is specified to 0, the version check is disabled.

11.1.5 Handset model - required version

Web server	Handset model name (required version)
Provisioning	PP_FWU_SW_VERSIONS
Default	0
Type	Unit16_t
Min.	0
Max.	9999
Note	Parameter defines the PP SW versions, which should be in the PPs.

11.1.6 Handset model - required branch

Web server	Handset model name (required version)
Provisioning	PP_FWU_BRANCH_VERSIONS
Default	0
Type	Unit16_t
Min.	0
Max.	9999
Note	Parameter defines the PP SW versions, which should be in the PPs.

11.1.7 PP_FWU_STARTIMG_FILENAMES

Web server	Not on web server
Provisioning	FWU_TFTP_SERVER_IMAGE_PATH
Default	
Type	String
Min.	0
Max.	31
Note	Parameter defines the file names for the startup images for the various handset types.

11.1.8 PP_FWU_BKGNDIMG_FILENAMES

Web server	Not on web server
Provisioning	PP_FWU_BKGNDIMG_FILENAMES
Default	
Type	String
Min.	0
Max.	31
Note	Parameter defines the file names for the background images for the various handset types.

11.1.9 PP_FWU_TEXTTRANS_FILENAMES

Web server	N/A
Provisioning	PP_FWU_TEXTTRANS_FILENAMES
Default	
Type	String
Min.	0
Max.	31
Note	Parameter defines the file names for the text translations for the various handset types.

11.1.10 PP_FWU_VOICEPTS_FILENAMES

Web server	Voice prompts
Provisioning	PP_FWU_VOICEPTS_FILENAMES
Default	
Type	String
Min.	0
Max.	31
Note	Parameter defines the filenames for the voice prompts for the various headset types. This is only visible if a headset is registered to the system.

11.1.11 FWU_TFTP_SERVER_IMAGE_PATH

Web server	Terminal file path
Provisioning	FWU_TFTP_SERVER_IMAGE_PATH
Default	
Type	String
Min.	0
Max.	31
Note	TFTP server image file path. The path may contain multiple directories. The path must start with a slash and must end with a slash. Backslashes are not allowed.

11.1.12 FWU_BACKOFF_CONTROL

Web server	Firmware Update Backoff Control
Provisioning	FWU_BACKOFF_CONTROL
Default	0x00
Type	Int
Min.	0
Max.	3
Note	This parameter is used in order to set the type backoff control that will be applied: 0: Off (Old handling of 10/30 seconds between checks) 1: Static 2: Linear 3: Exponential

11.1.13 FWU_BACKOFF_TIME

Web server	Firmware Update Backoff Time
Provisioning	FWU_BACKOFF_TIME
Default	1
Type	Int
Min.	0
Max.	360
Note	This parameter is used as an initial second value in relation to FWU_BACKOFF_CONTROL. Max value is set to 6 hours arbitrarily. Be aware this value will be multiplied by a 1000 to convert to milliseconds.

12 Headset base station

In this section you will find all settings related to headset.

12.1.1 ACCESS_CODE_HEADSET_FP

Web server	Access code
Provisioning	ACCESS_CODE_HEADSET_FP
Default	0000
Type	Unit8_t
Min.	0000
Max.	9999
Note	Headset base station access code.

12.1.2 Headset name

Web server	Headset name
Provisioning	HEADSET_FP_NAME
Default	None
Type	String
Min.	0
Max.	20
Note	Friendly name to identify a headset base station.

12.1.3 IPEI

Web server	IPEI
Provisioning	HEADSET_FP_DECT_IPUI
Default	N/A
Type	Unit8_t
Min.	0
Max.	255
Note	International Portable User Identity. Normally this is not used with provisioning.

12.1.4 Headset terminal ID

Web server	NO WEB SERVER TAG
Provisioning	HEADSET_FP_VOIP_TERMINAL_ID
Default	0xFFFF
Type	Unit16_t
Min.	0
Max.	65535
Note	Terminal ID relation to a terminal in VoIP base. At the index of a given terminal, a value different from 0xFFFF indicates the terminal with index equal to this value, is used as VoIP relation.

13 Country

In this section you will find all settings related to country and time.

13.1.1 Select country

Web server	Select country		
Provisioning	COUNTRY_VARIANT_ID		
Default	0x02		
Type	Unit8_t		
Min.	N/A		
Max.	N/A		
Note	Australia	0x13	Uses region select: AustralianStates
	Belgique	0x0E	
	Brasil	0x2F	Uses region select: BrazillianStates
	Danmark	0x09	
	Deutschland	0x00	
	Ellás	0x05	
	Espana	0x08	
	France	0x02	
	Ireland	0x06	
	Italia	0x03	
	Luxembourg	0x01	
	Nederland	0x04	
	New Zealand	0x14	
	Norge	0x11	
	Portugal	0x0D	
	Russia	0x2B	
	Schweiz	0x0C	
	South Africa	0x28	
	Suomi	0x0A	
	Sverige	0x07	
	Thailand	0x30	
	Türkiye	0x0B	
	United Kingdom	0x10	
	US / Canada	0x12	Uses region select: UsStates
	Österreich	0x0F	

13.1.2 State / Region

Web server	State / Region		
Provisioning	COUNTRY_REGION_ID		
Default	Various		
Type			
Min.			
Max.			
Note	Australian states		
	New South Wales	0x00	
	Victoria	0x01	
	Tasmania	0x02	
	Australian Capital Territory	0x03	
	South Australia	0x04	
	Northern Territory	0x05	

Web server	State / Region		
	Queensland	0x06	DST ends on 3rd Sunday in February and does not take collision with carnival into account.
	Western Australia	0x07	DST ends on 3rd Sunday in February and does not take collision with carnival into account.
	Brazilian states		
	Acre	0x00	
	Alagoas	0x01	DST ends on 3rd Sunday in February and does not take collision with carnival into account.
	Amapá	0x02	DST ends on 3rd Sunday in February and does not take collision with carnival into account.
	Amazonas	0x03	DST ends on 3rd Sunday in February and does not take collision with carnival into account.
	Bahia	0x04	
	Ceará	0x05	
	Distrito Federal	0x06	DST ends on 3rd Sunday in February and does not take collision with carnival into account.
	Espírito Santo	0x07	
	Goiás	0x08	
	Maranhão	0x09	DST ends on 3rd Sunday in February and does not take collision with carnival into account.
	Mato Grosso	0x0A	
	Mato Grosso do Sul	0x0B	DST ends on 3rd Sunday in February and does not take collision with carnival into account.
	Minas Gerais	0x0C	
	Pará	0x0D	
	Paraíba	0x0E	DST ends on 3rd Sunday in February and does not take collision with carnival into account.
	Paraná	0x0F	DST ends on 3rd Sunday in February and does not take collision with carnival into account.
	Pernambuco	0x10	
	Piauí	0x11	DST ends on 3rd Sunday in February and does not take collision with carnival into account.
	Rio de Janeiro	0x12	
	Rio Grande do Norte	0x13	
	Rio Grande do Sul	0x14	
	Rondônia	0x15	
	Roraima	0x16	
	Santa Catarina	0x17	
	São Paulo	0x18	
	Sergipe	0x19	

Web server	State / Region		
	Tocantins	0x1A	
	United States		
	Alabama	0x00	Time zone is CST, not fitting the unofficial use of EST in Phenix City.
	Alaska	0x01	Time zone is AKT.
	Arizona	0x02	DST disabled, not fitting Navajo Nation.
	Arkansas	0x03	
	California	0x04	
	Colorado	0x05	
	Connecticut	0x06	
	Delaware	0x07	
	Florida	0x08	Time zone is EST, not fitting most of the Florida Panhandle.
	Georgia	0x09	
	Hawaii	0x0A	
	Idaho PST	0x0B	
	Idaho MST	0x0C	
	Illinois	0x0D	
	Indiana	0x0E	Time zone is EST, not fitting northwest and southwest corners.
	Iowa	0x0F	
	Kansas	0x10	Time zone is EST, not fitting Greeley, Hamilton, Sherman and Wallace counties.
	Kentucky EST	0x11	
	Kentucky CST	0x12	
	Louisiana	0x13	
	Maine	0x14	
	Maryland	0x15	
	Massachusetts	0x16	
	Michigan	0x17	Time is EST, not fitting upper peninsula counties.
	Minnesota	0x18	
	Mississippi	0x19	
	Missouri	0x1A	
	Montana	0x1B	
	Nebraska	0x1C	Time is CST, not fitting Nebraska Panhandle, counties with Colorado as a western boundary, and the western Sand Hills.
	Nevada	0x1D	Time is PST, not fitting West Wendover, and unofficial use of MST in Jackpot.
	New Hampshire	0x1E	
	New Jersey	0x1F	
	New Mexico	0x20	
	New York	0x21	
	North Carolina	0x22	

Web server	State / Region		
	North Dakota	0x23	Time is CST, not fitting most area west of the Missouri River.
	Ohio	0x24	
	Oklahoma	0x25	Time zone is CST, does not fit the informal use of MST in Kenton, Cimmaron county.
	Oregon	0x26	Time zone is PST, not fitting most of Malheur County.
	Pennsylvania	0x27	
	Rhode Island	0x28	
	South Carolina	0x29	
	South Dakota CST	0x2A	
	South Dakota MST	0x2B	
	Tennessee	0x2C	Time zone is CST, not fitting most of east Tennessee.
	Texas	0x2D	Time zone is CST, not fitting tip of west Texas.
	Utah	0x2E	
	Vermont	0x2F	
	Virginia	0x30	
	Washington	0x31	
	West Virginia	0x32	
	Wisconsin	0x33	
	Wyoming	0x34	

13.1.3 Select language

Web server	Select language
Provisioning	LANGUAGE_ID
Default	Various
Type	
Min.	
Max.	
Note	English = 0x00 Dansk = 0x01 Italiano = 0x02 Turkce = 0x03 Português = 0x04 Deutsch = 0x05 Hrvatski = 0x06 Srpski = 0x07 Slovenian = 0x08 Dutch = 0x09 Français = 0x10 Español = 0x11 Russian = 0x12 Polski = 0x13

13.1.4 Time server

Web server	Time server
Provisioning	NETWORK_SNTP_SERVER

Default	0
Type	IP or URL
Min.	0
Max.	32
Note	Name of SNTP Server

13.1.5 Allow broadcast NTP

Web server	Allow broadcast NTP
Provisioning	NETWORK_SNTP_BROADCAST_ENABLE
Default	0x01
Type	Unit8_t
Min.	0
Max.	1
Note	Enables reception of SNTP broadcasts from a SNTP server and thereby syncing with the received server time.

13.1.6 Refresh time

Web server	Refresh time (hours)
Provisioning	NETWORK_SNTP_SERVER_UPDATE_TIME
Default	0x18
Type	Time
Min.	0
Max.	24
Note	Network time update frequency. Time in hours between fetch of network time (in hex).

13.1.7 Set time zone by country / region

Web server	Set time zone by country / region
Provisioning	TIMEZONE_BY_COUNTRY_REGION
Default	0x01
Type	Unit8_t
Min.	0
Max.	1
Note	0: No 1: Yes

13.1.8 Time zone

Web server	Time zone
Provisioning	GMT_TIME_ZONE
Default	0x06
Type	N/A
Min.	N/A
Max.	N/A
Note	The use of timer server is highly recommended.

13.1.9 Set DST by country / region

Web server	Set DST by country / region
Provisioning	DST_BY_COUNTRY_REGION
Default	0x01
Type	N/A
Min.	N/A
Max.	N/A
Note	The use of timer server is highly recommended.

13.1.10 Daylight Saving Time (DST)

Web server	Daylight Saving Time (DST)
Provisioning	DST_ENABLE
Default	0x02
Type	N/A
Min.	N/A
Max.	N/A
Note	The use of timer server is highly recommended.

13.1.11 DST fixed by day

Web server	DST fixed by day
Provisioning	DST_FIXED_DAY_ENABLE
Default	0x00
Type	N/A
Min.	N/A
Max.	N/A
Note	The use of timer server is highly recommended.

13.1.12 DST start month

Web server	DST start month
Provisioning	DST_START_MONTH
Default	0x03
Type	N/A
Min.	N/A
Max.	N/A
Note	The use of timer server is highly recommended.

13.1.13 DST start date

Web server	DST start date
Provisioning	DST_START_DATE
Default	0x00
Type	N/A
Min.	N/A
Max.	N/A
Note	The use of timer server is highly recommended.

13.1.14 DST start time

Web server	DST start time
Provisioning	DST_START_TIME
Default	0x02
Type	N/A
Min.	N/A
Max.	N/A
Note	The use of timer server is highly recommended.

13.1.15 DST start day of week

Web server	DST start day of week
Provisioning	DST_START_DAY_OF_WEEK
Default	0x01
Type	N/A
Min.	N/A
Max.	N/A
Note	The use of timer server is highly recommended.

13.1.16 DST start day of week last in month

Web server	DST start day of week last in month
Provisioning	DST_START_WDAY_LAST_IN_MONTH
Default	0x02
Type	N/A
Min.	N/A
Max.	N/A
Note	The use of timer server is highly recommended.

13.1.17 DST stop month

Web server	DST stop month
Provisioning	DST_STOP_MONTH
Default	0x0B
Type	N/A
Min.	N/A
Max.	N/A
Note	The use of timer server is highly recommended.

13.1.18 DST stop date

Web server	DST stop date
Provisioning	DST_STOP_DATE
Default	0x00
Type	N/A
Min.	N/A
Max.	N/A
Note	The use of timer server is highly recommended.

13.1.19 DST stop time

Web server	DST stop time
Provisioning	DST_STOP_TIME
Default	0x03
Type	N/A
Min.	N/A
Max.	N/A
Note	The use of timer server is highly recommended.

13.1.20 DST stop day of week

Web server	DST stop day of week
Provisioning	DST_STOP_DAY_OF_WEEK
Default	0x01
Type	N/A
Min.	N/A
Max.	N/A
Note	The use of timer server is highly recommended.

13.1.21 DST stop day of week last in month

Web server	DST stop day of week last in month
Provisioning	DST_STOP_WDAY_LAST_IN_MONTH
Default	0x00
Type	N/A
Min.	N/A
Max.	N/A
Note	The use of timer server is highly recommended.

14 Security

In this section you will find all settings related to security.

14.1 DECT

14.1.1 DECT_SECURITY_LEVEL

Web server	DECT Security Level
Provisioning	DECT_SECURITY_LEVEL
Default	0x00
Type	BOOLEAN
Min.	0
Max.	1
Note	Set DECT Security Level: DECT_CLASSIC 0x00 DECT_STEP_C 0x01

14.1.2 Use only trusted certificates

Web server	Use only trusted certificates
Provisioning	CERTIFICATE_USE_ONLY_TRUSTED
Default	0x00
Type	Boolean
Min.	0
Max.	1
Note	Parameter to enable or disable if only trusted certificates are allowed. If so, the relevant certificates must be loaded into the base stations. 0: Use only trusted certificates is disabled. Hence all certificates are accepted. 1: Use only trusted certificates is enabled. Hence only valid certificates that are already loaded will be accepted.

14.2 Secure web server

14.2.1 HTTPS

Web server	HTTPS
Provisioning	LOCAL_HTTP_SERVER_SECURE
Default	0x01
Type	Boolean
Min.	0
Max.	1
Note	0x01 - https: Use Https for the webpage 0x00 - http: Use Http for the webpage

14.2.2 LOCAL_HTTP_SERVER_AUTH_PWD_MINIMUM_LENGTH

Web server	Minimum length (min 8)
Provisioning	LOCAL_HTTP_SERVER_AUTH_PWD_MINIMUM_LENGTH
Default	8
Type	Int
Min.	8
Max.	127
Note	Minimum Length of local HTTP server login authentication password.

14.2.3 LOCAL_HTTP_SERVER_AUTH_PWD_ONLY_ASCII

Web server	Only ASCII characters
Provisioning	LOCAL_HTTP_SERVER_AUTH_PWD_ONLY_ASCII
Default	0x00
Type	BOOLEAN
Min.	0
Max.	1
Note	Enable/disable Local HTTP authentication password to only constrain ASCII characters

14.3 Password

14.3.1 Username

Web server	Username
Provisioning	LOCAL_HTTP_SERVER_AUTH_NAME
Default	admin
Type	Uinit8_t
Min.	0
Max.	36
Note	Local HTTP server login authentication name.

14.3.2 Password

Web server	Password
Provisioning	LOCAL_HTTP_SERVER_AUTH_PASS
Default	admin
Type	Uinit8_t
Min.	0
Max.	36
Note	Local HTTP server login authentication password.

14.4 EAP 802.1x Authentication

14.4.1 PROTOCOL_802_1X_AUTHENTICATOR_ENABLED

Web server	Authenticator
Provisioning	PROTOCOL_802_1X_AUTHENTICATOR_ENABLED
Default	0x02
Type	Int
Min.	0
Max.	2
Note	802.1x enable state 802.1x authenticator enabled (1), disabled, auto (2)

14.4.2 PROTOCOL_802_1X_MUTUAL_AUTHENTICATION

Web server	Mutual Authentication
Provisioning	PROTOCOL_802_1X_MUTUAL_AUTHENTICATION
Default	0x00
Type	BOOLEAN
Min.	0
Max.	1
Note	802.1x Mutual Authentication 802.1x Mutual Authentication (Suplicant authenticate Radius server using Trusted CA)

14.4.3 PROTOCOL_802_1X_IDENTITY

Web server	Identity
Provisioning	PROTOCOL_802_1X_IDENTITY
Default	0x00
Type	String
Min.	0
Max.	255
Note	Contains 802.1x Identity

15 Central directory

In this section you will find all settings related to central directory.

15.1.1 Location

Web server	Location
Provisioning	PHONEBOOK_SERVER_LOCATION
Default	0x00
Type	Unit8_t
Min.	0
Max.	2
Note	Location of the server. 0: Local in the base station/multicell system 1: LDAP server is hosting the central directory (phonebook) 2: XML server is hosting the central directory (phonebook)

15.1.2 Server

Web server	Server
Provisioning	PHONEBOOK_LOCATION
Default	0
Type	IP or URL
Min.	0
Max.	128
Note	DNS name, protocol, and path of the server that contains phonebook files.

15.1.3 File name

Web server	File name
Provisioning	PHONEBOOK_FILENAME
Default	0
Type	Unit8_t
Min.	0
Max.	32
Note	Name of the phonebook.

15.1.4 Phonebook reload interval

Web server	Phonebook reload interval (seconds)
Provisioning	PHONEBOOK_RELOAD_TIME
Default	0
Type	Unit32_t
Min.	0
Max.	4294967296
Note	Number of seconds between loading global phonebook. 0 means never reload.

15.2 LDAP_SERVER_ENABLED

Web server	Location
Provisioning	LDAP_SERVER_ENABLED
Default	0x00
Type	Boolean
Min.	0
Max.	1
Note	Parameter used to indicate whether LDAP phonebook is enabled or disabled.

15.2.1 Central directory location

Web server	Location
Provisioning	PHONEBOOK_SERVER_LOCATION
Default	0x00
Type	Unit8_t
Min.	0
Max.	2
Note	Location of the server. 0: Local in the base station/multicell system 1: LDAP server is hosting the central directory (phonebook) 2: XML server is hosting the central directory (phonebook)

15.2.2 LDAP_SERVER

Web server	Server
Provisioning	LDAP_SERVER
Default	0
Type	IP or URL
Min.	0
Max.	128
Note	DNS name, protocol, and path of the server that contains phonebook files.

15.2.3 TLS security

Web server	TLS security
Provisioning	LDAP_TLS
Default	0x00
Type	Unit8_t
Min.	0
Max.	1
Note	This setting enables or disables the usage of TLS security. If set to 1, TLS security is used and 0 it is not.

15.2.4 Sort by

Web server	Sort by
Provisioning	LDAP_SORT_ATTRIBUTE
Default	0x00
Type	Unit8_t
Min.	0
Max.	2
Note	0x00 – commonName 0x01 – givenName 0x02 – surname

15.2.5 Port

Web server	Port
Provisioning	LDAP_PORT
Default	0
Type	Unit16_t
Min.	0
Max.	65535
Note	Server port that is open for LDAP connections.

15.2.6 Sbase

Web server	Sbase
Provisioning	LDAP_SBASE
Default	0
Type	Unit8_t
Min.	1
Max.	128
Note	LDAP search base depends on the configuration of the LDAP server. Setting example: CN=Users,DC=umber,DC=loc

15.2.7 LDAP filter

Web server	LDAP filter
Provisioning	LDAP_FILTER
Default	0
Type	Unit8_t
Min.	1
Max.	128
Note	LDAP filter is used as a search filter e.g., setting LDAP filter to givenName=*. The IP-DECT will use this filter when requesting entries from the LDAP server.

15.2.8 Bind

Web server	Bind
Provisioning	LDAP_BIND
Default	0
Type	Unit8_t
Min.	1
Max.	128
Note	LDAP bind is the username that will be used when the IP-DECT phone connects to the server.

15.2.9 LDAP password

Web server	Password
Provisioning	LDAP_PASSWORD
Default	0
Type	Unit8_t
Min.	1
Max.	128
Note	LDAP password is the password for the LDAP server.

15.2.10 Virtual list

Web server	Virtual list
Provisioning	LDAP_VIRTUAL_LISTS
Default	0x01
Type	Boolean
Min.	0
Max.	1
Note	Setting enables or disables the usage of virtual lists. If set to 1, virtual lists are used, 0 disables virtual lists. If virtual lists are disabled, the base station requests a maximum of 50 hits. 0: Disables the usage of virtual lists 1: Enables the usage of virtual lists

15.3 Handset identity

15.3.1 Name

Web server	Name
Provisioning	LDAP_NAME_ATTRIBUTES
Default	0x00
Type	Boolean
Min.	0
Max.	1
Note	LDAP name attributes is used to configure if the handset will show CN or SN+givenName. 0: CN 1: SN+givenName

15.3.2 Work

Web server	Work
Provisioning	LDAP_HANDSET_WORK_NUMBER
Default	telephoneNumber
Type	Uinit8_t
Min.	0
Max.	32
Note	The text string that is tied to what we show in the central directory as work number. I.e., to find the handset work number, look for the text string on the LDAP server.

15.3.3 Home

Web server	Home
Provisioning	LDAP_HANDSET_HOME_NUMBER
Default	homePhone
Type	Uinit8_t
Min.	0
Max.	32
Note	LDAP handset home number is the text string that maps to the phone number, the handset will have as home number.

15.3.4 Mobile

Web server	Mobile
Provisioning	LDAP_HANDSET_MOBILE_NUMBER
Default	mobile
Type	Uinit8_t
Min.	0
Max.	32
Note	LDAP handset mobile number is the text string that maps to the phone number, the handset will have as mobile number.

15.4 XML server enabled

15.4.1 XSI_PHONEBOOK_ENABLED

Web server	Not on web server
Provisioning	XSI_PHONEBOOK_ENABLED
Default	0x00
Type	Boolean
Min.	0x00
Max.	0x01
Note	Parameter to indicate whether XSI phonebook is: 0x00 - Disabled 0x01 - Enabled

15.4.2 XSI_SERVER

Web server	Server
Provisioning	XSI_SERVER
Default	
Type	String
Min.	0
Max.	255
Note	Name or IP address (including path) of a server from which an XSI server can be retrieved.

15.4.3 XSI_DIRECTORY_PRIORITY

Web server	
Provisioning	
Default	
Type	
Min.	
Max.	
Note	

15.5 Directory names

15.5.1 Enterprise

Web server	Enterprise
Provisioning	XSI_CONTACTS_ENTERPRISE
Default	Enterprise
Type	Unit8_t
Min.	0
Max.	40
Note	Name of the phonebook.

15.5.2 Enterprise directory enable

Web server	Enterprise directory enable
Provisioning	XSI_CONTACTS_ENTERPRISE_ENABLE
Default	0x01
Type	Boolean
Min.	0
Max.	1
Note	Enable or disable enterprise directory 0: Disables enterprise directory 1: Enables enterprise directory

15.5.3 EnterpriseCommon

Web server	EnterpriseCommon
Provisioning	XSI_CONTACTS_ENTERPRISE_COMMON
Default	EnterpriseCommon
Type	Unit8_t
Min.	0
Max.	40
Note	Name of the phonebook.

15.5.4 EnterpriseCommon enable

Web server	EnterpriseCommon enable
Provisioning	XSI_CONTACTS_ENTERPRISE_COMMON_ENABLE
Default	0x01
Type	Boolean
Min.	0
Max.	1
Note	Enable or disable enterprise common directory 0: Disables enterprise common directory 1: Enables enterprise common directory

15.5.5 Group

Web server	Group
Provisioning	XSI_CONTACTS_GROUP
Default	group
Type	Uinit8_t
Min.	0
Max.	40
Note	Name of the phonebook.

15.5.6 Group enable

Web server	Group enable
Provisioning	XSI_CONTACTS_GROUP_ENABLE
Default	0x01
Type	Boolean
Min.	0
Max.	1
Note	Enable or disable group directory 0: Disables group directory 1: Enables group directory

15.5.7 GroupCommon

Web server	GroupCommon
Provisioning	XSI_CONTACTS_GROUP_COMMON
Default	groupCommon
Type	Uinit8_t
Min.	0
Max.	40
Note	Name of the phonebook.

15.5.8 GroupCommon enable

Web server	GroupCommon enable
Provisioning	XSI_CONTACTS_GROUP_COMMON_ENABLE
Default	0x01
Type	Boolean
Min.	0
Max.	1
Note	Enable and disable group directory 0: Disables group directory 1: Enables group directory

15.5.9 Personal

Web server	Personal
Provisioning	XSI_CONTACTS_PERSONAL
Default	personal
Type	Uinit8_t
Min.	0
Max.	40
Note	Name of the phonebook.

15.5.10 Personal enable

Web server	Personal enable
Provisioning	XSI_CONTACTS_PERSONAL_ENABLE
Default	0x00
Type	Boolean
Min.	0
Max.	1
Note	Enable or disable group directory 0: Disables group directory 1: Enables group directory

15.5.11 XSI_DIRECTORY_PRIORITY

Web server	?
Provisioning	XSI_DIRECTORY_PRIORITY
Default	0x00,0x01,0x02,0x03,0x04
Type	Uinit8_t
Min.	0x00
Max.	0x04
Note	Priority of XSI directories to be displayed an handset 0 = Enterprise 1 = EnterpriseCommon 2 = Group 3 = GroupCommon 4 = Personal

16 Multicell/Dual cell

In this section you will find all settings related to Multicell and dual cell.

16.1 Settings for this unit

16.1.1 Multicell system/Dual cell system

Web server	Multicell system/Dual cell system
Provisioning	NETWORK_SYNC_ENABLE
Default	0x00
Type	Boolean
Min.	0
Max.	1
Note	Network system sync enable or disable. With this parameter multicell/dual cell behavior is enabled or disabled. 0: Network system sync is disabled 1: Network system sync is enabled

16.1.2 System chain ID

Web server	System chain ID
Provisioning	NETWORK_SYNC_CHAIN_ID
Default	512 / xxxxxxxx
Type	Unit32_t
Min.	0
Max.	4294967296
Note	Identity number of the multicell chain. Used to identify different chains in same LAN locations. For dual cell systems, the chain ID is preset and cannot be changed and provisioned.

16.1.3 Synchronization time

Web server	Synchronization time (seconds)
Provisioning	NETWORK_SYNC_TIME
Default	60
Type	Unit16_t
Min.	0
Max.	65535
Note	Time interval (seconds) for keep-alive packets sent between chain members. If no keep-alive packets are received within a period of 2*NETWORK_SYNC_TIME, the base will be indicated as lost in the multicell configuration. Minimum recommended value is 30 seconds.

16.1.4 Data sync

Web server	Data sync
Provisioning	NETWORK_SYNC_DATA_TRANSPORT
Default	0x00
Type	Boolean
Min.	0
Max.	1
Note	Setting for specifying data transport method: 0: Multicast 1: Peer-to-Peer

16.1.5 NETWORK_SYNC_PRIMARY_STATIC_IP

Web server	Primary data sync IP
Provisioning	NETWORK_SYNC_PRIMARY_STATIC_IP
Default	
Type	IPv4 address
Min.	00.00.00.00
Max.	255.255.255.255
Note	Static IP list to communicate Peer-to-Peer. Data sync must be set to Peer-to-Peer for the parameter to be shown on the web server.

16.1.6 NETWORK_SYNC_DATA_MULTICAST_TTL

Web server	?
Provisioning	NETWORK_SYNC_DATA_MULTICAST_TTL
Default	1
Type	Int
Min.	1
Max.	64
Note	Multicast Data Synchronization TTL value. TTL Value used for Synchronization Data when using Multicast.

16.2 Base station replacement time-out

Web server	Base station replacement time-out (15-254 min.)
Provisioning	DUAL_CELL_REPLACEMENT_TIMEOUT
Default	15
Type	Int
Min.	15
Max.	254
Note	The time in minutes between loosing contact to a base station and opening for a replacement.

16.2.1 Multicell debug/Dual cell debug

Web server	Multicell debug/Dual cell debug
Provisioning	NETWORK_SYNC_DEBUG_ENABLE
Default	0x00
Type	Uinit8_t
Min.	0
Max.	3
Note	Network system sync debug enable or disable 0: Network system sync debug is disabled 1: Network system sync debug is data sync 2: Network system sync debug is auto tree 3: Network system sync debug is both This setting should only be enabled upon request from RTX. This setting is not synchronized and needs to be enabled on each base station.

16.3 DECT system setting

16.3.1 Auto configure DECT sync source tree

Web server	Auto configure DECT sync source tree
Provisioning	NETWORK_DECT_AUTO_SYNC_TREE_CONFIG
Default	0x01
Type	Boolean
Min.	0
Max.	1
Note	Network configures DECT sync tree automatically

16.3.2 Allow multiple primaries

Web server	Allow multiple primaries
Provisioning	NETWORK_ALLOW_MULTI_PRIMARY
Default	0x00
Type	Boolean
Min.	0
Max.	1
Note	Setting to enable or disable configuration of multiple primaries in a chain 0: Configuration of multiple primaries in a chain is not allowed 1: Configuration of multiple primaries in a chain is allowed

16.3.3 Auto create multiple primaries

Web server	Auto create multiple primaries
Provisioning	NETWORK_AUTO_MULTI_PRIMARY
Default	0x00
Type	Boolean
Min.	0
Max.	1
Note	Setting to enable or disable auto configuration of multiple primaries in a chain 0: Auto configure is disabled 1: Auto configure is enabled Setting is only available if 'Allow multiple primaries' is enabled.

16.4 Base station settings

16.4.1 Number of SIP accounts before distributed load

Web server	Number of SIP accounts before distributed load
Provisioning	NETWORK_SYNC_MAX_SIP_REG_PER_BASE
Default	0x08
Type	Unit8_t
Min.	4
Max.	30
Note	Parameter to define when the base station will attempt to distribute SIP registrations between the base stations in the chain. Thus, if this is set to e.g., 8, the base station will attempt to distribute SIP registrations to other base stations when 8 SIP registrations have been completed at the given base station.

16.4.2 SIP server support for multiple registrations per account

Web server	SIP server support for multiple registrations per account
Provisioning	NETWORK_ROAMING_DEREGISTER
Default	0x00
Type	Boolean
Min.	0
Max.	1
Note	Parameter is used to determine how SIP registrations shall be handled when a handset roams from one base station to another. Roaming is defined as the procedure when the handset moves its SIP and DECT registration from one base station to another. Roaming can only be initiated when the handset is in idle state. Some PBXs are capable of handling multiple SIP bindings per SIP user, and hence when a new SIP registration is made from another base station (another IP address) due to roaming, the old SIP registration will still be valid. Therefore, this registration must be deactivated with a SIP deregistration. Other PBXs always use the latest SIP registration, and therefore no SIP deregistration shall be made. 0: No SIP deregistration will be made when a handset roams to another base station. 1: Old SIP registration will be deleted with a SIP deregistration when a handset roams to another base station.

16.4.3 System combination

Web server	System combination (number of base stations/repeaters per base station)
Provisioning	NUMBER_OF_REPEATER_PER_BASE
Default	0x01
Type	Unit8_t
Min.	0x00
Max.	0x03
Note	Three settings are available: 0x01 - 50/3 0x02 - 127/1 0x03 - 254/0

17 Multi zone

17.1.1 MULTIZONE_SUPPORT

Web server	Multi zone system
Provisioning	MULTIZONE_SUPPORT
Default	0x00
Type	Boolean
Min.	0x00
Max.	0x01
Note	Multi zone support 0: Disabled 1: Enabled

17.1.2 MULTIZONE_ZONE_NAME

Web server	Zone name
Provisioning	MULTIZONE_ZONE_NAME
Default	
Type	String
Min.	0
Max.	35
Note	Name of the zone in the multi zone.

17.1.3 MULTIZONE_PRIMARY_MAC

Web server	Primary MAC
Provisioning	MULTIZONE_PRIMARY_MAC
Default	0xFF,0xFF,0xFF,0xFF,0xFF
Type	MAC address
Min.	0
Max.	255
Note	Multi zone primary MAC address.

17.1.4 MULTIZONE_PRIMARY_IP

Web server	Primary IP
Provisioning	MULTIZONE_PRIMARY_IP
Default	
Type	IP address
Min.	0
Max.	255.255.255.255
Note	Multi zone primary IP address.

17.1.5 MULTIZONE_SECONDARY_MAC

Web server	Secondary MAC
Provisioning	MULTIZONE_SECONDARY_MAC
Default	0xFF,0xFF,0xFF,0xFF,0xFF
Type	MAC address
Min.	0
Max.	255
Note	Multi zone secondary MAC address.

17.1.6 MULTIZONE_SECONDARY_IP

Web server	Secondary IP
Provisioning	MULTIZONE_SECONDARY_IP
Default	
Type	IP address
Min.	0
Max.	255.255.255.255
Note	Multi zone secondary IP address.

17.1.7 PARI_LICENSE

Web server	PARI license
Provisioning	PARI_LICENSE
Default	
Type	String
Min.	0
Max.	49
Note	The PARI license key must match the MAC address of multicell base station IDX0 for Zone 0 in the multi zone.

18 LAN Sync

LAN sync option only becomes visible on web server, when multicell (air sync) is enabled.

18.1.1 IEEE1588

Web server	IEEE1588
Provisioning	IEEE1588_ENABLED
Default	0x00
Type	Boolean
Min.	0
Max.	1
Note	Setting to enable or disable IEEE1588 feature 0: Feature is disabled 1: Feature is enabled

18.2 Zone LAN sync setup

18.2.1 Multicast IP address

Web server	Multicast IP address
Provisioning	IEEE1588_ZONE_MULTICAST_IP
Default	224.0.1.129
Type	IP
Min.	0.0.0.0
Max.	255.255.255.255
Note	Multicast static IP list to communicate PTP.

18.2.2 Multicast port

Web server	Multicast port
Provisioning	IEEE1588_ZONE_MULTICAST_PORT
Default	319
Type	Unit16_t
Min.	0
Max.	65535
Note	Zone multicast port to be used with the IEEE1588 synchronization.

18.2.3 Domain number

Web server	Domain number
Provisioning	IEEE1588_ZONE_MULTICAST_DOMAIN
Default	0x00
Type	Unit8_t
Min.	0
Max.	127
Note	Zone multicast domain number to be used with the IEEE1588 synchronization.

18.2.4 Alternative domain number

Web server	Alternative domain number
Provisioning	IEEE1588_ZONE_MULTICAST_ALT_DOMAIN
Default	0x40
Type	Unit8_t
Min.	0
Max.	127
Note	Zone multicast domain number to be used with the IEEE1588 synchronization.

18.2.5 Multicell debug

Web server	Multicell debug
Provisioning	NETWORK_SYNC_DEBUG_ENABLE
Default	0x00
Type	Unit8_t
Min.	0
Max.	4
Note	Multicell debug 0: None 1: Data sync 2: Auto tree 3: Both 4: ieee1588 debug (only used when ieee LAN sync is enabled)

18.3 External LAN sync setup

18.3.1 External sync source

Web server	External sync source
Provisioning	IEEE1588_EXTERNAL_SYNC_ENABLED
Default	0x00
Type	Unit8_t
Min.	0
Max.	2
Note	Setting to enable or disable external sync source 0: Feature is disabled 1: Secondary zone is enabled 2: Primary zone is enabled

18.3.2 Multicast IP address

Web server	Multicast IP address
Provisioning	IEEE1588_ZONE_MULTICAST_IP
Default	224.0.1.129
Type	IP
Min.	0.0.0.0
Max.	255.255.255.255
Note	Multicast static IP list to communicate PTP.

18.3.3 Multicast port

Web server	Multicast port
Provisioning	IEEE1588_ZONE_MULTICAST_PORT
Default	319
Type	Unit16_t
Min.	0
Max.	65535
Note	Zone multicast port to be used with the IEEE1588 synchronization.

18.3.4 Domain number

Web server	Domain number
Provisioning	IEEE1588_ZONE_MULTICAST_DOMAIN
Default	0x41
Type	Unit8_t
Min.	0
Max.	127
Note	Zone multicast domain number to be used with the IEEE1588 synchronization.

19 Repeaters

In this section you will find all settings related to repeaters.

19.1.1 Repeater name

Web server	Repeater name
Provisioning	REPEATER_NAME
Default	0
Type	Unit8_t
Min.	0
Max.	21
Note	Name to identify a repeater.

19.1.2 Repeater RPN

Web server	Repeater RPN
Provisioning	REPEATER_RPN%
Default	0x00
Type	Unit8_t
Min.	0x00
Max.	0x64
Note	Repeater RPN setting used when REPEATER_AUTO_CONFIG_MODE is set to Manual. Please refer to 19.1.4 for details. Together with the REPEATER_SYNC_SRC_RPN, it is possible to specify a unique RPN value per repeater. Only the number of bits of the RPNs 8 bits, which are used by the repeaters, are used of this value. The number of bits used for the repeater RPN is 2. Please refer to 19.1.3 for details. All repeaters using manual mode must be configured to use a unique RPN. Base station RPN value 0x00 is invalid. Valid values for repeaters are: 0x01; 0x02; 0x03.

19.1.3 Repeater sync source

Web server	Repeater RPN
Provisioning	REPEATER_SYNC_SRC_RPN
Default	0x00
Type	Unit8_t
Min.	0x00
Max.	0x64
Note	Repeater sync source RPN setting used when REPEATER_AUTO_CONFIG_MODE is set to manual. Please refer to 19.1.4 for details. Together with the REPEATER_RPN, it is possible to specify a unique RPN value per repeater. The maximum chain length is three repeaters in a chain after a base station. All Repeaters using manual mode must be configured to use a unique RPN. 0x00 uses base station in NETWORK_SYNC_MAC_CHAIN index 0 as DECT synchronization source. 0x01 uses repeater with RPN 0x01 connected to the base station in NETWORK_SYNC_MAC_CHAIN index 0 as DECT synchronization source. 0x02 uses repeater with RPN 0x02 connected to the base station in NETWORK_SYNC_MAC_CHAIN index 0 as DECT synchronization source.

	0x03 uses repeater with RPN 0x03 connected to the base station in NETWORK_SYNC_MAC_CHAIN index 0 as DECT synchronization source. 0x04 uses base station in NETWORK_SYNC_MAC_CHAIN index 1 as DECT synchronization source. 0x05 uses repeater with RPN 0x01 connected to the base station in NETWORK_SYNC_MAC_CHAIN index 1 as DECT synchronization source. 0x06 uses repeater with RPN 0x01 connected to the base station in NETWORK_SYNC_MAC_CHAIN index 1 as DECT synchronization source. 0x07 uses repeater with RPN 0x01 connected to the base station in NETWORK_SYNC_MAC_CHAIN index 1 as DECT synchronization source.
--	--

19.1.4 Repeater auto configuration

Web server	Repeater auto configuration
Provisioning	REPEATER_AUTO_CONFIG_MODE
Default	0x00
Type	Uinit8_t
Min.	0x00
Max.	0x64
Note	Repeater auto configure mode settings 0: Manual. User needs manually to specify REPEATER_RPN and REPEATER_SYNC_SRC_RPN. 1: Local automatically. Repeater searches for available base stations and will automatically locate to the best seen base station. If a base station is turned off, the repeater will move to another seen base station. REPEATER_RPN and REPEATER_SYNC_SRC_RPN settings are ignored. 2: Chaining automatically. All base stations and repeaters are sending an RSSI report to the data primary base station. These reports are used by the data primary base station to create a new strongest DECT synchronization tree with all base stations and all repeaters selected to use in this setting.

19.1.5 Repeater legacy support

Web server	Repeater Legacy support
Provisioning	REPEATER_LEGACY_SUPPORT
Default	0x01
Type	Uinit8_t
Min.	0x00
Max.	0x01
Note	Value to check whether to disable legacy repeaters or not. Value 0x00: Legacy repeaters are not supported Value 0x01: Legacy repeaters are supported

19.1.6 Repeater data configuration

Web server	Repeater data configuration
Provisioning	REPEATER_DATA_CONFIGURED
Default	0x00
Type	Uinit8_t
Min.	0x00
Max.	0x01
Note	0: Account is not in use

	1: Repeater is actively configured
--	------------------------------------

19.1.7 Repeater DECT IPUI

Web server	Repeater DECT IPUI
Provisioning	REPEATER_DECT_IPUI
Default	0xFF
Type	Unit8_t
Min.	5
Max.	100
Note	Repeater International Portable User Identity. This is normally not configured via provisioning. The values are hex byte values, and all values need to be specified. The IPUI of 0134679ACD is represented as: 0x01,0x34,0x67,0x9A,0xCD It is not recommended to provision this parameter. The system will fill this as repeaters are registered.

20 PTT intercom

20.1.1 PTT_CONFERENCE_BROADCAST_ID

Web server	N/A
Provisioning	PTT_CONFERENCE_BROADCAST_ID
Default	0xFF
Type	Unit8_t
Min.	0
Max.	255
Note	Parameter to enable or disable the broadcasting of audio for a given conference on a given base station. To enable broadcasting of conference audio, the conference ID must be entered (a value less than 0xFF). This value must match the ID specified in the PTT_CONFERENCE_ID parameter.

20.1.2 SUBSCR_UA_DATA_CONFERENCE_PTT_LOCK_REPEAT

Web server	N/A
Provisioning	SUBSCR_UA_DATA_CONFERENCE_PTT_LOCK_REPEAT
Default	30
Type	Unit8_t
Min.	0
Max.	65534
Note	Specifies the default number of seconds between the 'Talk lock' announcements.

20.1.3 SUBSCR_UA_DATA_CONFERENCE_PTTLATCH_TIMEOUT

Web server	N/A
Provisioning	SUBSCR_UA_DATA_CONFERENCE_PTTLATCH_TIMEOUT
Default	180
Type	Unit8_t
Min.	0
Max.	65534
Note	Specifies the default number of seconds before the PTTLATCH timer will expire.

20.1.4 SUBSCR_UA_DATA_DEFAULT_CONFERENCE_ID

Web server	Not on web server
Provisioning	SUBSCR_UA_DATA_DEFAULT_CONFERENCE_ID
Default	0xFF
Type	Unit8
Min.	0
Max.	255
Note	The default conference used by an extension. If 0xFF no conference is enabled for the given extension.

20.1.5 SUBSCR_UA_DATA_CONFERENCE_HOST_ID

Web server	Not on web server
Provisioning	SUBSCR_UA_DATA_CONFERENCE_HOST_ID
Default	0xFF
Type	Unit8_t
Min.	0
Max.	255
Note	The conference host ID defines the index of the base that must host the conference. The value 0xFF means unused.

20.1.6 SUBSCR_UA_DATA_CONFERENCE_EXTENSION

Web server	Intercom Group Id
Provisioning	SUBSCR_UA_DATA_CONFERENCE_EXTENSION
Default	0xFF
Type	Unit8_t
Min.	0
Max.	255
Note	To enable a conference, a Conference ID with value less than 0xFF must be entered at the relevant extension index.

20.1.7 SUBSCR_UA_DATA_CONFERENCE_TALKMODE_LATENCY

Web server	Not on web server
Provisioning	SUBSCR_UA_DATA_CONFERENCE_TALKMODE_LATENCY
Default	10
Type	Unit8_t
Min	0
Max	254
Note	Specifies the default number of seconds a TALK connection is maintained after a PTT or TalkLock is released on a Conference device. A value of zero means the TALK mode is maintained indefinitely.

20.1.8 SUBSCR_UA_DATA_CONFERENCE_MAX_TALK_INST

Web server	Maximum number of active intercom connections
Provisioning	SUBSCR_UA_DATA_CONFERENCE_MAX_TALK_INST
Default	6
Type	Unit8_t
Min.	0
Max.	6
Note	Maximum number of instances on a given base that can be concurrently used for conference TALK. The maximum value is 6.

20.1.9 SRV_SIP_UA_DATA_VPBOX_ADDR

Web server	Not on web server
Provisioning	SRV_SIP_UA_DATA_VPBOX_ADDR
Default	6
Type	Unit8_t
Min.	0
Max.	63
Note	Parameter specifies the address or FQDN of a VP controller.

21 Alarm

In this section you will find all settings related to alarms. Please note, to use an alarm server (RTX alarm/msg server), API must be implemented on the alarm/msg server.

21.1.1 Profile alias

Web server	Profile alias
Provisioning	EMERGENCY_PROFILE_ALIAS
Default	0
Type	Unit8_t
Min.	0
Max.	20
Note	Alias for the given emergency alarm profile.

21.1.2 Alarm type

Web server	Alarm type
Provisioning	EMERGENCY_ALARM_TYPE
Default	0x05
Type	Unit8_t
Min.	0
Max.	5
Note	Defines the type of alarm 0: Man down 1: No movement 2: Running 3: Pull cord 4: Emergency button 5: Disabled

21.1.3 Alarm signal

Web server	Alarm signal
Provisioning	EMERGENCY_ALARM_SIGNAL
Default	0x01
Type	Boolean
Min.	0
Max.	1
Note	Defines the way an alarm is signaled 0: Message 1: Call

21.1.4 Stop alarm from handset

Web server	Stop alarm from handset
Provisioning	EMERGENCY_ALARM_STOP_ALLOWED
Default	0x01
Type	Boolean
Min.	0
Max.	1
Note	Defines if it should be possible to disable the alarm from the handset 0: Not allowed 1: Allowed

21.1.5 Trigger delay

Web server	Trigger delay
Provisioning	EMERGENCY_TRIGGER_DELAY
Default	0x00
Type	Uinit8_t
Min.	0
Max.	254
Note	Delay (seconds) from an emergency event has been triggered until the pre-alarm notification is started.

21.1.6 Stop pre-alarm from handset

Web server	Stop pre-alarm from handset
Provisioning	EMERGENCY_PRE_ALARM_STOP_ALLOWED
Default	0x01
Type	Boolean
Min.	0
Max.	1
Note	Defines if it should be possible to disable the pre-alarm from the handset 0: Not allowed 1: Allowed

21.1.7 Pre-alarm delay

Web server	Pre-alarm delay
Provisioning	EMERGENCY_PRE_ALARM_DELAY
Default	0x00
Type	Uinit8_t
Min.	0
Max.	254
Note	Delay from the pre-alarm is activated until the actual alarm fires.

21.1.8 Howling

Web server	Howling
Provisioning	EMERGENCY_ALARM_HOWLING
Default	0x00
Type	Boolean
Min.	0
Max.	1
Note	Defines if howling in the handset is enabled when the given alarm fires. 0: Disabled 1: Enabled

21.1.9 Alarm priority

Web server	Alarm priority
Provisioning	EMERGENCY_ALARM_PRIORITY
Default	0x00
Type	Unit_8
Min.	0
Max.	7
Note	The priority of the given alarm. A higher priority alarm can interrupt an active lower priority alarm.

22 Statistics

No provisioning.

23 Diagnostics

In this section you will find all settings related to diagnostics.

23.1 Logging

23.1.1 RSX internal tracing

Web server	RSX internal tracing
Provisioning	RSX_TRACE_INTERNAL
Default	0x00
Type	Boolean
Min.	0
Max.	1
Note	Parameter defines if the internal RSX tracing is enabled or disabled: 0: Disabled 1: Enabled

23.1.2 RSX_INTERNAL_TRACE_TASKS

Web server	Trace Specific Tasks
Provisioning	RSX_INTERNAL_TRACE_TASKS
Default	0xFE
Type	Int
Min.	0
Max.	10
Note	Tasks to be trace in the internal RSX tracing If RSX trace internal has been set to "Specific tasks and comments" then it is only tasks that has been set in RSX_INTERNAL_TRACE_TASKS, that will be traced

23.1.3 RSX_INTERNAL_TRACE_COMMENTS

Web server	Trace Specific Comments
Provisioning	RSX_INTERNAL_TRACE_COMMENTS
Default	0xFE
Type	Int
Min.	0
Max.	255
Note	Comments to be traced in the internal RSX tracing If RSX trace internal has been set to "Specific tasks and comments" then it is only comments that has been set in RSX_INTERNAL_TRACE_COMMENTS, that will be traced.

23.1.4 RSX_INTERNAL_TRACE_EXCLUDE_TASKS

Web server	Exclude Tasks
Provisioning	RSX_INTERNAL_TRACE_EXCLUDE_TASKS
Default	0xFE
Type	Int
Min.	0
Max.	255
Note	List of tasks that should be excluded If a mail sender or receiver is in the exclude list then the mail is not traced in the internal RSX trace

23.1.5 RSX_INTERNAL_TRACE_EXCLUDE_PRIMITIVES

Web server	Exclude Mail Primitives
Provisioning	RSX_INTERNAL_TRACE_EXCLUDE_PRIMITIVES
Default	0xFFFF
Type	Int
Min.	1
Max.	16
Note	List of mail primitives that should be excluded from the RSX tracing If the mail primitive is in the exclude list, then it is not included in the internal RSX trace

23.1.6 PCAP internal tracing

Web server	PCAP internal tracing
Provisioning	PCAP_TRACE_TYPE
Default	0
Type	Unit16_t
Min.	0
Max.	8
Note	Parameter defines the internal PCAP tracing, the setting is set bitwise, so multiple options can be selected at the same time. Bit 0: Trace own send/receive packets except RTP packets Bit 1: Trace own send/receive RTP packets Bit 2: Trace received broadcast packets Bit 3: Trace received IPv4 multicast packets Bit 4: Trace received packet between specified destination MAC addresses Bit 5: Trace selectable received EtherType packets Bit 6: Trace selectable received IPv4 packets

	Bit 7: Trace received TCP/UDP packets with selectable port
--	--

23.1.7 Trace received packet with destination MAC between - minimum

Web server	Trace received packet with destination MAC between (min.)
Provisioning	PCAP_TRACE_MAC_RANGE_MIN
Default	0x00
Type	Unit8_t
Min.	0
Max.	6
Note	Parameter is the minimum received destination MAC address that will be traced. Used together with PCAP_TRACE_MAC_RANGE_MAX. The MAC comparison is done on each byte.

23.1.8 Trace received packet with destination MAC between - maximum

Web server	Trace received packet with destination MAC between (max.)
Provisioning	PCAP_TRACE_MAC_RANGE_MAX
Default	0xFF
Type	Unit8_t
Min.	0
Max.	6
Note	Parameter is the maximum received destination MAC address that will be traced. Used together with PCAP_TRACE_MAC_RANGE_MIN. The MAC comparison is done on each byte.

23.1.9 Trace received EtherType

Web server	Trace received EtherType
Provisioning	PCAP_TRACE_ETHERTYPE
Default	0xFFFF
Type	Unit16_t
Min.	0
Max.	3
Note	Parameter makes it possible to trace selectable received EtherTypes (https://en.wikipedia.org/wiki/EtherType). The user can select three different EtherTypes to trace at the same time.

23.1.10 Trace received IPv4 protocol

Web server	Trace received IPv4 protocol
Provisioning	PCAP_TRACE_IPV4_PROTOCOL
Default	0xFF
Type	Unit8_t
Min.	0
Max.	3
Note	Parameter makes it possible to trace selectable received IPv4 protocols (https://en.wikipedia.org/wiki/List_of_IP_protocol_numbers). The user can select three different IPv4 protocols to trace at the same time.

23.1.11 Trace received TCP/UDP port

Web server	Trace received TCP/UDP port
Provisioning	PCAP_TRACE_TCP_UDP_PORT
Default	0xFFFF

Type	Unit16_t
Min.	0
Max.	3
Note	Parameter makes it possible to trace selectable received packet with send/receive port for TCP/UDP packets. The user can select three different ports to trace at the same time.

23.1.12 KEEP_TRACES_AFTER_UNEXPECTED_REBOOT

Web server	Stop Tracing On Unexpected Reboot
Provisioning	KEEP_TRACES_AFTER_UNEXPECTED_REBOOT
Default	0x01
Type	BOOLEAN
Min.	0
Max.	1
Note	Keep traces after unexpected reboot If the base is doing a unexpected reboot, tracing will not be started after reboot. Tracing will first be started, when a user has pressed reset traces on the webpage. Traces includes: Rxx, Pcap, Syslog, Siplog. The traces are placed in DDR RAM but is not initialized and are therefore kept when the base is rebooted. If the power cable is removed from the basen then the traces will be lost. 0: Disabled. Tracing is started normally after an unexpected reboot 1: Enabled. Tracing is NOT started after an an unexpected reboot, until the user has pressed "Reset traces" on the webpage

23.2 Heap Monitoring

23.2.1 HEAP_LEAK_DETECTION_TIME_WINDOW

Web server	Blocks from start up to this time is ignored
Provisioning	HEAP_LEAK_DETECTION_TIME_WINDOW
Default	30
Type	Int
Min.	0
Max.	65535
Note	Heap leak detection time window Heap allocations from base bootup to HEAP_LEAK_DETECTION_TIME_WINDOW will be ignored in the heap analysis. This is done so all the heap allocations for certificates etc. will be ignored in the analysis. Time is in sec.

23.2.2 HEAP_ANALYSIS_IN_SYSLOG_INTERVAL

Web server	Analysis in syslog. Interval
Provisioning	HEAP_ANALYSIS_IN_SYSLOG_INTERVAL
Default	0
Type	Int
Min.	0
Max.	65535
Note	Heap analysis in syslog interval The interval between the heap analysis is shown the syslog [m]. 0 disables heap analysis in the syslog.

24 Configuration

No provisioning.

25 Syslog

No provisioning.

26 SIP log

No provisioning.

27 Emergency call

In this section you will find all settings related to emergency calls.

Please note, this feature requires PBX support and 3rd party server e.g., Redesky. Therefore, we recommend reading the feature specification before use.

27.1.1 Emergency numbers

Web server	Emergency numbers
Provisioning	EMERGENCY_ALARM_NUMBER
Default	None
Type	Uinit8_t
Min.	0
Max.	8
Note	Emergency numbers NULL terminated #1.

27.1.2 Location information via

Web server	Location information via
Provisioning	E911_SOLUTION_CONFIGURED
Default	0x00
Type	Uinit8_t
Min.	0
Max.	3
Note	This serves as identification of the chosen solution: 0=>use ELIN/CUSTOM location identifier, 1=>use HELD solution with Redesky as provider. If either are not properly configured, the PIDF-LO parameters will be used.

27.2 ELIN

27.2.1 Emergency Location Identification number (ELIN)

Web server	Emergency Location Identification number (ELIN)
Provisioning	N/A
Default	N/A
Type	N/A
Min.	N/A
Max.	N/A
Note	N/A

27.3 Customer location ID

27.3.1 Custom location identifier

Web server	Custom location identifier (<30digits)
Provisioning	N/A
Default	N/A
Type	N/A
Min.	N/A
Max.	N/A
Note	N/A

27.4 Custom location ID – PAI

Web server	Custom Location Identifier - PAI(<30digits)
Provisioning	N/A
Default	N/A
Type	N/A
Min.	N/A
Max.	N/A
Note	N/A

27.5 HELD (Redesky)

27.5.1 HELD company ID

Web server	HELD company ID
Provisioning	HELD_COMPANY_ID
Default	N/A
Type	Unit8_t
Min.	0
Max.	48
Note	Token serving as a company ID for HELD server.

27.5.2 Primary HELD server

Web server	Primary HELD server
Provisioning	HELD_SRV_1_TOKEN
Default	https://primelab.e911cloud.com/
Type	IP or URL
Min.	0
Max.	69
Note	Primary server to request a location token.

27.5.3 Secondary HELD server

Web server	Secondary HELD server
Provisioning	HELD_SRV_2_TOKEN
Default	https://primelab.e911cloud.com/
Type	IP or URL
Min.	0
Max.	69
Note	Secondary server to request a location token.

27.5.4 HELD server login name

Web server	HELD server login name
Provisioning	HELD_LOGIN_NAME
Default	N/A
Type	Unit8_t
Min.	0
Max.	49
Note	Login name for HELD server specified in HELD_SRV_1_TOKEN and 2.

27.5.5 HELD server login password

Web server	HELD server login password
Provisioning	HELD_LOGIN_PSWD
Default	N/A
Type	
Min.	
Max.	
Note	

28 Parameters not configurable on web server

28.1.1 Log last configuration

Web server	Not configurable on web server
Provisioning	LOG_LAST_CONFIG
Default	0x00
Type	Boolean
Min.	0x00
Max.	0x01
Note	Enable or disable logging of received configuration file. 0: Logging disabled (default) 1: Logging enabled

28.1.2 LDAP use Ext NBR to LDAP bind

Web server	Not configurable on web server
Provisioning	LDAP_USE_EXT_NBR_TO_LDAP_BIND
Default	0x00
Type	Boolean
Min.	0x00
Max.	0x01
Note	Parameter to enable or disable the use of LDAP username instead of SIP username. Previously static feature FEATURE_USE_EXT_NBR_TO_LDAP_BIND

28.1.3 Auto DECT register

Web server	Not configurable on web server
Provisioning	AUTO_DECT_REGISTER
Default	0x00
Type	Boolean
Min.	0x00
Max.	0x01
Note	Enable or disable DECT registration of handsets automatically 0: Disabled 1: Enabled

28.1.4 Network data configuration primary MAC

Web server	Not configurable on web server
Provisioning	NETWORK_DATA_CONFIG_PRIMARY_MAC
Default	0xFF,0xFF,0xFF,0xFF,0xFF,0xFF
Type	Unit8_t
Min.	00
Max.	FF
Note	Setting specifies the MAC address of the base station which is allowed to download and handle multicell configuration files.

28.1.5 TEXT_MSG_SIP_EXTENSION

Web server	Not configurable on web server
Provisioning	TEXT_MSG_SIP_EXTENSION
Default	
Type	String
Min.	0
Max.	35
Note	SIP extension to send SIP messages when text messaging mode is set to 'Enabled with SIP'. The part before domain name e.g., sip:<sipextension>@domain.com.

28.1.6 NETWORK_SYNC_STATIC_IP_CHAIN

Web server	Not configurable on web server
Provisioning	NETWORK_SYNC_STATIC_IP_CHAIN
Default	N/A
Type	N/A
Min.	N/A
Max.	N/A
Note	Parameter is not supposed to be used in provisioning. The list is only used when multicell and Peer-to-Peer synchronization are used. The list contains static IP list of all base stations in the Peer-to-Peer multicell system and is used to communicate to the other base stations. The list is automatically updated by the primary base station when different secondary base stations are booting. The value format is: xxx.xxx.xxx.xxx,xxx.xxx.xxx.xxx,,,, etc.

28.1.7 SRV_SIP_UA_DATA_CONF_ADDR_ENABLE

Web server	Not configurable on web server
Provisioning	SRV_SIP_UA_DATA_CONF_ADDR_ENABLE
Default	1
Type	Boolean
Min.	0
Max.	1
Note	Parameter to enable or disable the conference server 0: Conference server disabled 1: Conference server enabled Parameter is linked to SRV_SIP_UA_DATA_CONF_ADDR and enabled by default.

28.1.8 PP_FWU_DEVICE_IDS

Web server	Not configurable on web server
Provisioning	PP_FWU_DEVICE_IDS
Default	0x00000000
Type	Unit32_t
Min.	0
Max.	10
Note	Parameter defines the PP device IDs, which the base station should be able to update. Parameter list will automatically be updated when a new handset or a repeater is added to the system, so it is not recommended to provision this parameter. Handset Raffle 8630 Display V1 0x0D9A006D or decimal 228196461 Handset Raffle 8630 Display V2 0x0D9A0079 or decimal 228196473 Handset Razor 8430 0x0D9A008D or decimal 228196493 Repeater DECT4024 0x0D9A007F or decimal 228196479 To use the parameter, you must know the ID of the different model you wish to provision.

28.1.9 SIP_FP_EXTENSION_ENABLED

Web server	N/A
Provisioning	SIP_FP_EXTENSION_ENABLED
Default	0x00
Type	BOOLEAN
Min.	0
Max.	1
Note	When enabled, allows the FP to use a SIP extension idx for the FP to register onto a server. This is done to allow a FP to inform a PBX server of its presence and to get through potential firewall issues.

28.1.10 CLOUD_SERVICE_LOG_LEVEL

Web server	Not configurable on web server
Provisioning	CLOUD_SERVICE_LOG_LEVEL
Default	0x01
Type	INT
Min.	0x00
Max.	0x08
Note	Log level for publishing syslogs to Cloud Services. If Cloud Services' log level is debug, all syslogs will be sent to Cloud Services. This setting is individual for each base station and must not be synchronized between bases. Only the log messages stored in the base, as controlled by 10.7.2 SYSLOG_LEVEL, are available for upload. RSENUM8[NONE=0, EMERGENCY=1, ALERT=2, CRITICAL=3, ERROR=4, WARNING=5, NOTICE=6, INFORMATIONAL=7, DEBUG=8]

28.1.11 MQTT_SITE_ID

Web server	Not configurable on web server
Provisioning	MQTT_SITE_ID
Default	
Type	String
Min.	0
Max.	128
Note	Name of site ID used to communicate with Cloud Services. Site ID is managed via the Cloud Services website.

28.1.12 CLOUD_TERMINAL_REFRESH_RATE

Web server	Not configurable on web server
Provisioning	CLOUD_TERMINAL_REFRESH_RATE
Default	60
Type	Int
Min.	0
Max.	255
Note	How often the base tries to update terminal data to the cloud Interval in seconds (0-255, where 0 = 60 seconds) between updates of terminal data (data_ind) from the base to the cloud

28.1.13 CLOUD_HEARTBEAT_INTERVAL

Web server	Not configurable on web server
Provisioning	CLOUD_HEARTBEAT_INTERVAL
Default	60
Type	Int
Min.	0
Max.	255
Note	Number of seconds between MQTT heartbeat messages Defines the interval between MQTT heartbeat messages in seconds. Can be from 0-255 seconds with default of 60 seconds (0: 60 seconds).

28.1.14 NUMBER_OF_BASE_STATIONS

Web server	Not configurable on web server
Provisioning	NUMBER_OF_BASE_STATIONS
Default	0x32
Type	N/A
Min.	N/A
Max.	N/A
Note	Setting is depending on NUMBER_OF_REPEATER_PER_BASE and should not be provisioned.

28.1.15 NUMBER_OF_REPEATERS

Web server	Not configurable on web server
Provisioning	NUMBER_OF_REPEATERS
Default	0x64
Type	N/A
Min.	N/A
Max.	N/A
Note	Setting is depending on NUMBER_OF_REPEATER_PER_BASE and should not be provisioned.

28.1.16 SARI_SUPPORT

Web server	Not configurable on web server
Provisioning	SARI_SUPPORT
Default	N/A
Type	N/A
Min.	N/A
Max.	N/A
Note	Part of multizone but must not be provisioned. System will fill in values automatically.

28.1.17 SARI_VALUE

Web server	Not configurable on web server
Provisioning	SARI_VALUE
Default	N/A
Type	N/A
Min	N/A
Max	N/A
NOTE	Part of multizone but must not be provisioned. System will fill in values automatically.

28.1.18 PP_MENU_HIDE_CFB

Web server	Not configurable on webserver
Provisioning	PP_MENU_HIDE_CFB
Default	0x01
Type	Boolean
Min.	0x00
Max.	0x01
Note	Parameter defines whether CFB should be hidden or not in the handset for various handset types.

28.1.19 PP_MENU_HIDE_CFNA

Web server	Not configurable on webserver
Provisioning	PP_MENU_HIDE_CFNA
Default	0x01
Type	Boolean
Min.	0x00
Max.	0x01
Note	Parameter defines whether CFNA should be hidden or not in the handset for various handset types.

28.1.20 PP_MENU_HIDE_CFU

Web server	Not configurable on webserver
Provisioning	PP_MENU_HIDE_CFU
Default	0x01
Type	Boolean
Min.	0x00
Max.	0x01
Note	Parameter defines whether CFU should be hidden or not in the handset for various handset types.

28.1.21 PP_MENU_HIDE_DND

Web server	Not configurable on webserver
Provisioning	PP_MENU_HIDE_DND
Default	0x01
Type	Boolean
Min.	0x00
Max.	0x01
Note	Parameter defines whether DND should be hidden or not in the handset for various handset types.

28.1.22 LLDP_MED_RECV

Web server	Not configurable on webserver
Provisioning	LLDP_MED_RECV
Default	0x01
Type	Boolean
Min.	0x00
Max.	0x01
Note	Receive LLDP-MED message. Disabled by default.

28.1.23 PP_MENU_HIDE_SILENT

Web server	N/A
Provisioning	PP_MENU_HIDE_SILENT
Default	0x00
Type	Boolean
Min.	0x00
Max.	0x01
Note	Parameter defines whether silent mode should be hidden or not in the handset for various handset types

28.1.24 PP_MENU_HIDE_HIDE_NUMBER

Web server	N/A
Provisioning	PP_MENU_HIDE_HIDE_NUMBER
Default	0x00
Type	Boolean
Min.	0x00
Max.	0x01
Note	Parameter defines whether hide number should be hidden or not in the handset for various handset types.

28.1.25 PP_MENU_HIDE_SMS

Web server	N/A
Provisioning	PP_MENU_HIDE_SMS
Default	0x00
Type	BOOLEAN
Min.	0
Max.	1
Note	Linked to the list of device types on the based, eg index 1 is equal to the device ID stored for that same index. When enabled (1), a handset on locate will get this and hide the SMS menu. SMS menu is also hidden when the TEXT_MSG_MODE is disabled.

28.1.26 PP_MENU_HIDE_ALARM

Web server	N/A
Provisioning	PP_MENU_HIDE_ALARM
Default	0x00
Type	BOOLEAN
Min.	0
Max.	1
Note	Linked to the list of device types on the based, eg index 1 is equal to the device ID stored for that same index. When enabled (1), a handset on locate will get this and hide the alarm menu. Alarm menu is also hidden when the TEXT_MSG_MODE is disabled.

28.1.27 HANDSET_LANGUAGE_ID

Web server	N/A
Provisioning	HANDSET_LANGUAGE_ID
Default	0x00
Type	N/A
Min.	0x00
Max.	0x13
Note	0x00 CM_LANGUAGE_ENGLISH, 0x01 CM_LANGUAGE_SPANISH, 0x02 CM_LANGUAGE_GERMAN, 0x03 CM_LANGUAGE_FRENCH, 0x04 CM_LANGUAGE_ITALIAN, 0x05 CM_LANGUAGE_DUTCH, 0x06 CM_LANGUAGE_PORTUGUESE, 0x07 CM_LANGUAGE_DANISH, 0x08 CM_LANGUAGE_SWEDISH, 0x09 CM_LANGUAGE_TURKISH, 0x0A CM_LANGUAGE_POLISH, 0x0B CM_LANGUAGE_GREEK_1, 0x0C CM_LANGUAGE_RUSSIAN_1, 0x0D CM_LANGUAGE_JAPANESE_HIRAGANA, 0x0E CM_LANGUAGE_NORWEGIAN, 0x0F CM_LANGUAGE_BRAZILIAN_PORTUGUESE, 0x11 CM_LANGUAGE_CROATIAN, 0x12 CM_LANGUAGE_SERBIAN, 0x13 CM_LANGUAGE_SLOVENIAN

28.1.28 WEB_INPUTS_ALLOWED

Web server	N/A
Provisioning	WEB_INPUTS_ALLOWED
Default	0x00
Type	Boolean
Min.	0x00
Max.	0x01
Note	If the system is configured via configuration files, it may be desirable to disallow the possibility to edit the configuration directly on the web server. This parameter is used to allow/disallow the possibility to input data on the web server. 0x00: Disallow the possibility to input data on web server 0x01: Allow the possibility to input data on web server

28.1.29 SRV_ENABLE_BARGEIN_ON_SCA_LINE

Web server	Not configurable on web server
Provisioning	SRV_ENABLE_BARGEIN_ON_SCA_LINE
Default	0 / Disabled
Type	Boolean
Min.	0
Max.	1
Note	Enable barge-in on SCA line. Normally TRUE (1) but for some server setups, where the PBX does not support the feature (e.g., Metaswitch), it needs to be set to FALSE (0).

28.1.30 CERTIFICATE_FILENAME

Web server	Not configurable on web server
Provisioning	CERTIFICATE_FILENAME
Default	0
Type	String
Min.	0
Max.	127
Note	Certificate file name.

28.1.31 CERTIFICATE_SERVER

Web server	Not configurable on web server
Provisioning	CERTIFICATE_SERVER
Default	0
Type	String
Min.	0
Max.	255
Note	Name or IP address (including path) of a server from which a certificate (or chain) can be retrieved.

28.1.32 ETH_DRIVER_INITIALIZE

Web server	Not configurable on web server
Provisioning	ETH_DRIVER_INITIALIZE
Default	0x00
Type	Boolean
Min.	0x00
Max.	0x01
Note	Management setting indicating if ethernet driver is initialized if no traffic is detected for a period. Reboot is necessary if setting is changed. 0x00: Disabled 0x01: Enabled

28.1.33 CENTRAL_DIR_LOOKUP_DISABLE

Web server	Not configurable on web server
Provisioning	CENTRAL_DIR_LOOKUP_DISABLE
Default	0x00
Type	Boolean
Min.	0x00
Max.	0x01
Note	0x00: Disabled i.e., a lookup in central dir is done (if a central dir is defined). 0x01: Enabled, i.e., lookup is not done even if a central dir is defined.

28.1.34 SRV_SIP_CODEC_REDUCTION

Web server	N/A
Provisioning	SRV_SIP_CODEC_REDUCTION
Default	0x01
Type	BOOLEAN
Min.	0
Max.	1
Note	facilitate dynamically enabling/disabling of feature SIP_USE_REINVITE_TO_AVOID_USE_OF_NON_NEGOTIATED_CODEC If enabled the coder reduction reINVITE will be sent in case FEATURE_SIP_USE_REINVITE_TO_AVOID_USE_OF_NON_NEGOTIATED_CODECS is enabled

28.1.35 SRV_SIP_SCA_STRICT_LINE_SEIZE

Web server	?
Provisioning	SRV_SIP_SCA_STRICT_LINE_SEIZE
Default	0x00
Type	BOOLEAN
Min.	0
Max.	1
Note	Outgoing shared line call requires a successful line seize. Choose if an outgoing shared line call requires a successful line seize to initiate. Alternatively, the outgoing shared line call can be initiated even though the line seize SUBSCRIBE request is answered with an error response. 0: The outgoing shared call is initiated even though the line seize attempt fails 1: A successful line seize request and preceding line seize NOTIFY requests are required to make an outgoing shared call.

28.1.36 SRV_SIP_RINGCENTRAL_BCA

Web server	N/A
Provisioning	SRV_SIP_RINGCENTRAL_BCA
Default	0x00
Type	BOOLEAN
Min.	0
Max.	1
Note	Enable/Disable Shared Line adaption for RingCentral server if disabled the Shared Line feature will be handled in BroadWorks SCA if enabled the Shared Line feature will be handled as RingCentral BCA This parameter is default set to disabled(false) NOTE: This setting should only be used incase PBX = Ringcentral

28.1.37 KEEP_TRACES_AFTER_UNEXPECTED_REBOOT_AND_NORMAL_REBOOT

Web server	N/A
Provisioning	KEEP_TRACES_AFTER_UNEXPECTED_REBOOT_AND_NORMAL_REBOOT
Default	0x00
Type	BOOLEAN
Min.	0
Max.	1
Note	Keep traces after unexpected reboot and normal reboot If the base is doing an unexpected reboot, tracing will not be started after reboot, but will be started if there is done a normal reboot. So if a test is causing an unexpected reboot and a normal rebbot is done afterwards then the traces are lost. This is solved with the below. When there is detected an unexpected reboot, then KEEP_TRACES_AFTER_UNEXPECTED_REBOOT_AND_NORMAL_REBOOT is set true, which cause that the traces will not be deleted with normal reboot. KEEP_TRACES_AFTER_UNEXPECTED_REBOOT_AND_NORMAL_REBOOT will first be set to false when a user is pressing "Reset traces" on the webpage.

28.2 Settings that should not be provisioned

28.2.1 NETWORK_SYNC_MAC_CHAIN

Web server	Not configurable on web server
Provisioning	NETWORK_SYNC_MAC_CHAIN
Default	N/A
Type	N/A
Min.	N/A
Max.	N/A
Note	This is not meant to be provisioned since it can be critical if the base station order is changed. The list contains the chain of ethernet MAC addresses, which are connected in the network. The chain will automatically be created in the multicell system but can also be created by provisioning. The MAC addresses are listed as separate hex byte values, and all hex values indexes need to be present. 0xAA,0xBB,0xCC,,,

28.2.2 NETWORK_DECT_SYNC_TREE

Web server	Not configurable on web server
Provisioning	NETWORK_DECT_SYNC_TREE
Default	N/A
Type	N/A
Min.	N/A
Max.	N/A
Note	Parameter is difficult to use via provisioning and will be overruled by the NETWORK_DECT_AUTO_SYNC_TREE_CONFIG, if enabled. The list contains the tree of DECT sync IDs, which the base stations must use as DECT sync source. If ID for the own index is equal to own ID, this base station is primary DECT sync source. A secondary base station, which cannot find its sync source or has been turned off, will get a special value 240, which indicates it must look for any base station and sync source. This will enable the system to reconfigure itself.

28.2.3 MIN_JITBUF_DEPTH

Web server	N/A
Provisioning	MIN_JITBUF_DEPTH
Default	N/A
Type	N/A
Min.	N/A
Max.	N/A
Note	

28.2.4 MAX_JITBUF_DEPTH

Web server	N/A
Provisioning	MAX_JITBUF_DEPTH
Default	N/A
Type	N/A
Min.	N/A
Max.	N/A
Note	

28.2.5 SIP_FP_EXTENSION_IDX

Web server	Idx on the extension page
Provisioning	SIP_FP_EXTENSION_IDX
Default	0xFFFF
Type	Int
Min.	0
Max.	65535
Note	Value defines the SIP extension slot used for registering the FP on a server. Used in order for the FP to inform PBX of the primary FP existence if no PP is on it.

28.2.6 SUBSCR_TERMINAL_DATA_CONFIGURED

Web server	
Provisioning	SUBSCR_TERMINAL_DATA_CONFIGURED
Default	0x00
Type	BOOLEAN
Min.	0
Max.	1
Note	Terminal Configured Set (1) if the terminal entry valid & configured

28.3 Additional logging information in syslog

28.3.1 LOAD_REPORTING_ENABLE

Web server	Not configurable on web server
Provisioning	LOAD_REPORTING_ENABLE
Default	0x00
Type	Boolean
Min.	0
Max.	1
Note	Enable or disable the periodic reporting of base load in the syslog.

28.3.2 LOAD_REPORTING_INTERVAL

Web server	Not configurable on web server
Provisioning	LOAD_REPORTING_INTERVAL
Default	20
Type	Unit_16
Min.	0
Max.	65535
Note	The time interval (seconds) between generation of new load reports.

28.3.3 LOAD_REPORTING_INTERVAL_SYNC

Web server	Not configurable on web server
Provisioning	LOAD_REPORTING_INTERVAL_SYNC
Default	0x00
Type	Boolean
Min.	0
Max.	1
Note	Enable or disable the configured load reporting. Interval must be synchronized between all base stations in the system.

28.3.4 HEAP_SYSLOG_INTERVAL

Web server	Not configurable on web server
Provisioning	HEAP_SYSLOG_INTERVAL
Default	60
Type	Unit_16
Min.	0
Max.	65535
Note	Time interval (seconds) of heap syslog. Time between heap usage is shown in syslog.

28.3.5 HEAP_STATISTICS_INTERVAL

Web server	Not configurable on web server
Provisioning	HEAP_STATISTICS_INTERVAL
Default	60
Type	Unit_16
Min.	0
Max.	65535
Note	Time interval (seconds) of heap statistics. Used by heap in generic statistics.

28.3.6 KEEP_TRACES_AFTER_UNEXPECTED_REBOOT

Web server	Not configurable on web server
Provisioning	KEEP_TRACES_AFTER_UNEXPECTED_REBOOT
Default	0x00
Type	Boolean
Min.	0
Max.	1
Note	If the base station is doing an unexpected reboot, tracing will not be started after rebooting. Tracing will first start when a user has pressed reset traces on the webpage. Traces includes: Rsx, Pcap, Syslog, Siplog. Traces are placed in DDR RAM but are not initialized and therefore kept when the base station is rebooted. If the power cable is removed from the base station, then the traces will be lost. 0: Disabled. Tracing is started normally after an unexpected reboot 1: Enabled. Tracing is not started after an unexpected reboot, until the user has pressed "Reset traces" on the webpage

28.3.7 SECURITY_LOG_THRESHOLD

Web server	Not configurable on web server
Provisioning	SECURITY_LOG_THRESHOLD
Default	0x00
Type	Unit_8
Min.	0
Max.	255
Note	Defines threshold for failed authentications. If exceeded within timeframe, a warning is displayed in syslog.

28.3.8 SECURITY_LOG_TIMEFRAME

Web server	Not configurable on web server
Provisioning	SECURITY_LOG_TIMEFRAME
Default	0x00
Type	Unit_8
Min.	0
Max.	255
Note	Defines timeframe for exceeding authentication threshold.

28.3.9 SUBSCR_SIP_UA_SUBSCRIBED_HS

Web server	Not configurable on web server
Provisioning	SUBSCR_SIP_UA_SUBSCRIBED_HS
Default	0x00000000
Type	Unit_32
Min.	0
Max.	1073741823
Note	Bit field for each SIP extension where each bit represents a handset ID. If a bit is set, the corresponding handset subscribes for the given SIP extension. E.g., handset selects SIP account 2 and 3 as subscribed accounts (accounts counted from 0) Bit value 0000 0000 0000 0000 0000 0000 0000 1100 -> 0x0000000C E.g., handset selects SIP account 8, 9 and 15 as subscribed accounts (accounts counted from 0) Bit value 0000 0000 0000 0000 1000 0011 0000 0000 -> 0x00008300

28.3.10 SRV_BROADSOFT_CALLLOG_ENABLE

Web server	Not configurable on web server
Provisioning	SRV_BROADSOFT_CALLLOG_ENABLE
Default	0x00
Type	Unit_8
Min.	0x00
Max.	0x01
Note	Enable/disable BroadWorks call log functionality for the given SIP server. 0x00: Disabled - the local call log is used 0x01: Enabled

28.3.11 CUSTOM_LOCATION_IDENTIFIER

Web server	Not configurable on web server
Provisioning	CUSTOM_LOCATION_IDENTIFIER
Default	0x00
Type	Unit_8
Min.	0
Max.	29
Note	Custom location identifier for SIP INVITE location information.

28.3.12 EMERGENCY_ALARM_BLOCK_TIME

Web server	Not configurable on web server
Provisioning	EMERGENCY_ALARM_BLOCK_TIME
Default	0x00
Type	Unit_8
Min.	0
Max.	254
Note	The period (seconds) in which a new alarm cannot interrupt an active alarm.

29 Appendix A

Base specific file without extensions. This type of file will normally be used in multicell setups, where the base specific file only contains network info.

Please note, this example is based on DHCP server, if static IP is going to be used this example will not work.

```
//DHCH option
%NETWORK_WAN_SETTINGS_DHCP%:0x01

//Base station name
%LOCAL_HTTP_SERVER_TEMPLATE_TITLE%:"Base 2"

//Multicell settings
%NETWORK_SYNC_CHAIN_ID%:4721
%NETWORK_SYNC_ENABLE%:0x01

//VLAN
%NETWORK_VLAN_ID%:0

//Config download settings
%CONFIGURATION_DOWNLOAD_CTRL%:0x01
%FILENAME_BASE_SPECIFIC%:""
%FILENAME_MULTICELL_SPECIFIC%:""

//Syslog level
%SYSLOG_LEVEL%:0x03
```

29.1 Base specific file (not for multicell)

Opposite to the previous base specific file used for multicell, this file contains server info, extension info, etc.

```
//DHCH option
%NETWORK_WAN_SETTINGS_DHCP%:0x01

//Base station name
%LOCAL_HTTP_SERVER_TEMPLATE_TITLE%:"Base name"

//VLAN
%NETWORK_VLAN_ID%:0

//Config download settings
%CONFIGURATION_DOWNLOAD_CTRL%:0x01
%FILENAME_BASE_SPECIFIC%:""
%FILENAME_MULTICELL_SPECIFIC%:""

//Syslog level
%SYSLOG_LEVEL%:0x03
%SRV_SIP_SERVER_ALIAS%:"SIP Server", "", "", "", "", "", "", "", "", ""
%SRV_SIP_UA_DATA_DOMAIN%:"192.168.11.99", "", "", "", "", "", "", "", "", ""

//Time and country
%NETWORK_SNTP_SERVER%:"0.dk.pool.ntp.org"
%GMT_TIME_ZONE%:0x10
%COUNTRY_VARIANT_ID%:0x09
%COUNTRY_REGION_ID%:0x00
%TIMEZONE_BY_COUNTRY_REGION%:0x01
```

```
//Handsets
//IPUI xx
%SUBSCR_SIP_HS_IDX%:0,1,2,
%SUBSCR_SIP_UA_DATA_CONFIGURED%:0x01,0x01, 0x01,
%SUBSCR_UA_DATA_DISP_NAME%:"6001","6002","6003",
%SUBSCR_SIP_LINE_NAME%:"Pit","6002","6003",
%SUBSCR_SIP_UA_DATA_SIP_NAME%:"6001","6002","6003",
%SUBSCR_SIP_UA_DATA_AUTH_NAME%:"6001","6002","6003",
%SUBSCR_SIP_UA_DATA_AUTH_PASS%:"password6001","password6002","password6003"

//Handset enables registration automatically
%AUTO_DECT_REGISTER%:0x01
```

30 Appendix B

The multicell file below is an example of how it could look. Not all parameters are included in this file, but it can be used in a test setup.

```
// SIP server
%SRV_SIP_SERVER_ALIAS%:"SIP Server", "", "", "", "", "", "", "", "", ""
%SRV_SIP_UA_DATA_DOMAIN%:"192.168.11.99", "", "", "", "", "", "", "", "", ""

//Primary MAC - must be set in multicell
%NETWORK_DATA_CONFIG_PRIMARY_MAC%:0x00,0x08,0x7b,0x1d,0x5e,0x64

//Time and country
%NETWORK_SNTP_SERVER%:"0.dk.pool.ntp.org"
%GMT_TIME_ZONE%:0x10
%COUNTRY_VARIANT_ID%:0x09
%COUNTRY_REGION_ID%:0x00
%TIMEZONE_BY_COUNTRY_REGION%:0x01

//Handsets
//IPUI xx
%SUBSCR_SIP_HS_IDX%:0,1,2,
%SUBSCR_SIP_UA_DATA_CONFIGURED%:0x01,0x01, 0x01,
%SUBSCR_UA_DATA_DISP_NAME%:"6001","6002","6003",
%SUBSCR_SIP_LINE_NAME%:"Pit","6002","6003",
%SUBSCR_SIP_UA_DATA_SIP_NAME%:"6001","6002","6003",
%SUBSCR_SIP_UA_DATA_AUTH_NAME%:"6001","6002", "6003",
%SUBSCR_SIP_UA_DATA_AUTH_PASS%:"password6001","password6002","password6003"

//Handset enables registration automatically
%AUTO_DECT_REGISTER%:0x01
```