



RTX Provisioning Guide

Technical Reference Document
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1 Introduction

The purpose of this document is to introduce the provisioning of the SME VoIP system.

1.1 Provisioning approaches

There are three ways of configuring the system.

- Manual configuration by use of the Web server in the base station(s)
- By use of configuration files that are uploaded from a disk via the “Configuration” page on the Web server.
- By use of configuration files which the base station(s) download(s) 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 by use of Web Server

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

2.1 Find IP Address of Base Station(s)

One way to find the IP address is to use the "Find IP" feature of the handsets. This is enabled by pressing the "menu" button on handset followed by '*47*'. (*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, see Figure 1, and it is now possible to start the configuration of the system by entering the desired values for the different parameters respectively.

Note: From version 610 and newer, secure webserver is enabled, so https is needed to access the webserver.

Primary

Welcome

System Information:	Multi Cell Disabled
Phone Type:	IPDECT-V2 (8663)
System Type:	Generic SIP (RFC 3261)
RF Band:	EU
Current local time:	12-Oct-2022 04:21:30
Operation time:	00:00:27 (H:M:S)
RFPI Address:	137B5161; RPN:00
MAC Address:	00087b1d5e63
IP Address:	10.10.101.24
Firmware Version:	IPDECT-V2/06.10/B0201/04-Apr-2022 07:27
Firmware URL:	Firmware update server address:
	Firmware path:
Reboot: 2022-10-12 04:21:01 (146)	Power Loss (80) Firmware Version 0610.0201 (RESET_CAUSE_HARDWARE_RESET)
Reboot: 2022-10-03 06:37:33 (145)	Normal Reboot (21) Firmware Version 0610.0201 (RESET_CAUSE_WBM_NORMAL_REBOOT)
Reboot: 2022-10-03 06:33:33 (144)	Normal Reboot (21) Firmware Version 0610.0201 (RESET_CAUSE_WBM_NORMAL_REBOOT)
Reboot: 2022-10-03 06:31:57 (143)	Normal Reboot (21) Firmware Version 0610.0201 (RESET_CAUSE_RESET_BUTTON_LONG)
Reboot: 2022-10-03 06:14:09 (142)	Normal Reboot (21) Firmware Version 0610.0201 (RESET_CAUSE_WBM_NORMAL_REBOOT)
Reboot: 2022-10-03 06:10:15 (141)	Normal Reboot (21) Firmware Version 0610.0201 (RESET_CAUSE_WBM_NORMAL_REBOOT)
Base Station Status:	Idle

SIP Identity Status on this Base Station:

Press button to reboot.

Figure 1. "Home" on the Web server



Configuration by use of Uploaded Configuration Files

Instead of configuring the base stations manually by entering the parameter values on the Web server, it is possible to use a configuration file that is uploaded from e.g. a PC. This can be done from the “Configuration” page on the Web server, see Figure 2.

Step 1: Create the provisioning file (.cfg)

Step 2: Click “Chose File”, navigate to the .cfg file.

Step 3: Press “Load”

It is also possible to “Export” settings from the base station by pressing the Export button.

NOTE: When loading a configuration file, only parameters in the configuration file will be updated. This means that if a configuration file only contains 5 parameters, only these 5 parameters will be updates, all other parameters will stay the same.

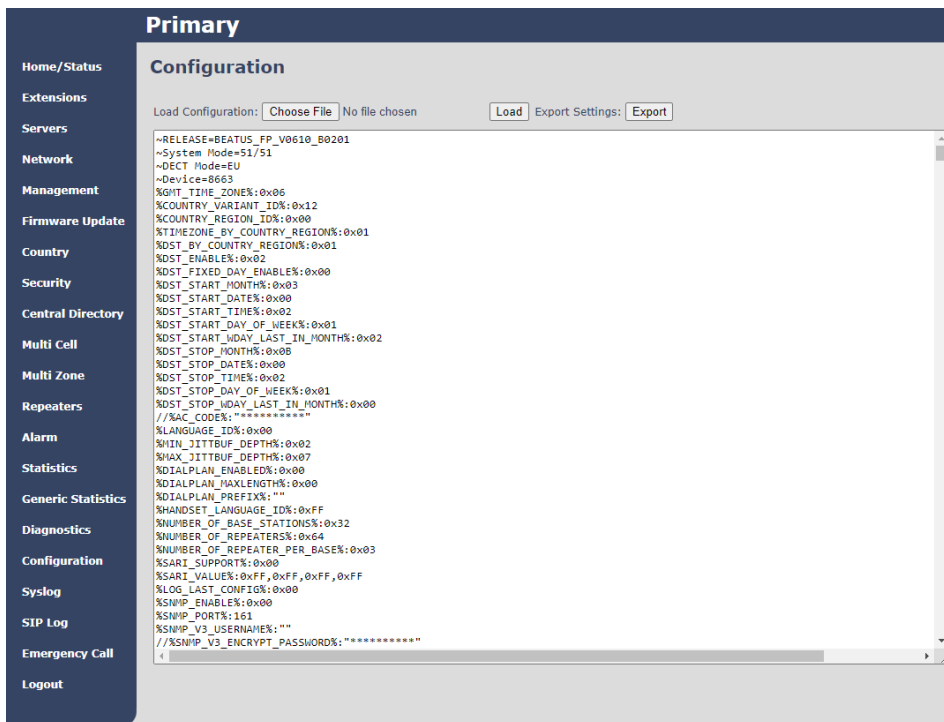


Figure 2. Configuration page.

(See section 2.1 on how to find the IP Address of a base station).



3 Configuration VLAN ID

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

3.1 DHCP option 132 (VLAN ID)

Different DHCP servers can be used.

Value supported are ascii values: 35 30 31 00 gives a VLAN ID 501.

3.2 Provisioning VLAN ID

```
%NETWORK_VLAN_ID%:501
```

3.3 Using VLAN ID in Multi cell

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

Provision file entry for use same VLAN ID on all base stations in Multi cell System:

```
%NETWORK_VLAN_SYNCHRONIZATION%:0x01
```

Provision file entry for use different VLAN ID on all base stations in Multi cell System:

```
%NETWORK_VLAN_SYNCHRONIZATION%:0x00
```



4 Configuration via Configuration Server

It is also possible to use configuration files that are downloaded from a configuration server.

To be able to use configuration files instead of manual configuration, 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.

4.1 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 specific request can request this option default to be changed.

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



4.2 Configuration for web server:

A given base station is set up to use configurations files on the “Management Settings” page on the Web server. (See section 2.1 on how to find the IP Address of a base station).

The parameters that are important for enabling use of configuration files are:

- Management Transfer Protocol
- Configuration Server Address
- Configuration File Download

In Figure 3, an example is given, in which a Multi cell system is set up. Configuration files for an example setup with two base stations in a chain can be found in section 10.2

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:

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

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:

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 Basic to know when provisioning Multi cell Systems

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 station is up to date.

Therefore, it is very vital for the Multi cell System to work that the time is set correct in the base station by a NTP server or similar.

NOTE: The Multi cell System will not work properly if time server is not used.

5.1 Base station configuration.

There are two basic modes for the use of a base station.

- Single cell System
- Dual cell System
- Multi cell 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 work just like a Single cell system, only difference is that you are able to add an additional base station using "Easy Registration" See "VoIP System Guide" for details.

The Multi cell System mode is a group of base stations on a connecting LAN using the same Multi cell 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)
- Multi cell specific file

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

The Multi cell specific file MUST not contain any base specific parameters. Only parameters which is used in the actual deployment, and which need synchronized to all the other base station 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 need to be located in the Multi cell specific file and the value need to match one of the base station, normally MAC address of the first base station at index 0.

NOTE: Only one base station will process the Multi cell specific file. Only the base matching the value of the parameter NETWORK_DATA_CONFIG_PRIMARY_MAC.

The MAX size 500000 bytes.

5.1.1 Base specific file creation

By default the base is requesting a file based on it's 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 need to be basics.

Example for DHCP assigned Base IP and Multi cell 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 Multi cell 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.

NOTE: Gateway and DNS1 and DNS2 need to be valid or if it is not supported they need to be as specified above.

Extra parameters for Multi cell 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 Multi cell 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, used as Data Primary Base station in the Peer to Peer Multi cell system.

NOTE 3: If base station at index 0 is broken, do not replace it with another base station, just let it be in the chain, but change the base station in index 1 to do the work of index 0. Meaning, configure it to: Use Static IP, Change NETWORK_SYNC_PRIMARY_STATIC_IP to the IP for base station at index 1.

See Appendix A for full example a base specific file.



5.1.2 Multi cell specific file creation

By default the base is requesting a file based on its Multi cell 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 need 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 WEB interface and some handset-controlled features.

5.2 System specific parameter handling:

Not all system specific parameters are synchronized. Only data which gives meaning is synchronized.

Static IP, Gateway, DNS and DHCP setting is base specific and the base name too.

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

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

The reference, which SIP server shall use 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 Multi cell Roaming setting related to the SIP server.

An extension SIP account can do the SIP register from different base station 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 Multi cell 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 Multi cell system, and all SIP accounts related to this handset is doing SIP register from that base station. The base station the handset first chooses is not necessary the same base 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 specifik parameters

There are two type of parameters related to extension data. These are DECT/Handset parameters and SIP Account parameters.

The base station do in some customer configuration, enable a multi-line feature. This feature allows any handset being related to more than one SIP accounts.

For base station not having this feature enabled, is using a one to one configuration of the DECT/Handset to SIP account relation.

The required parameter for an Extension to being configured, is to specify:

- %SUBSCR_SIP_UA_DATA_CONFIGURED%

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

This index MUST never change for a certain handset and if provisioning IPEI/IPUI value, this value MUST only be present once in the provisioning file. If index changed or IPEI/IPUI duplicated, then the handset will properly not work. 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, contains some configurable parameters.

Examples:

- IPU/IPEI
- Handset specific AC
- Base stations lock relation
- SIP Account relations
- Emergency settings

It also contains a not configurable hidden parameter UAK, which is a key used in DECT for validation of handset/base relation and encryption of air interface.

This hidden 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 is 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 more than one line (same index), if more SIP accounts are related to this Extension DECT/handset data.

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 illegal Handset index. This need to be changed, to the correct handset index, to be able to use this account. If multi line feature is not available, this parameter is not used.



5.6 Country and Region specific parameter handling

These parameters are used to handle the DST settings and the GMT time zone.

- Automated GMT Settings
- Automated DST Settings

The %TIMEZONE_BY_COUNTRY_REGION% setting handles the automated time zone dependent on country and region. Enabling this parameter result in setting the %GMT_TIME_ZONE% parameter accordingly. Note: If the %GMT_TIME_ZONE% is provisioned when %TIMEZONE_BY_COUNTRY_REGION% is enabled, the %GMT_TIME_ZONE% value will be ignored/overwritten by the automated process.

The %DST_BY_COUNTRY_REGION% setting handles the automated DST settings dependent on the country and region. Enabling this parameter result in setting the %DST_NNNN% parameters accordingly. 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%:

See Section 14.1.1 for details

Values for %COUNTRY_REGION_ID%:

See Section 14.1.2 for details

The other parameters are described later in the parameter description

- %GMT_TIME_ZONE%
- %DST_NNNN%

See Appendix B for full example a base specific file.



6 Home/Status

No provisioning

7 Extensions

In this section you find all settings related to extensions

7.1.1 AC

Webserver	AC
Provisioning	AC_CODE
Default	0
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.

7.1.2 Line name

Webserver	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; Main -> Support

7.1.3 Handset Idx x

Webserver	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 one 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



7.1.4 Push-To-Talk

Webserver	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

7.1.5 Extension

Webserver	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, like in sip:<sipusername>@domain.com.

7.1.6 Authentication User Name

Webserver	Authentication User Name
Provisioning	SUBSCR_SIP_UA_DATA_AUTH_NAME
Default	N/A
Type	String
Min	0
Max	35
NOTE	The SIP Authentication name

7.1.7 Authentication Password

Webserver	Authentication Password
Provisioning	SUBSCR_SIP_UA_DATA_AUTH_PASS
Default	N/A
Type	Unit8_t
Min	0
Max	35
NOTE	The SIP Authentication password

7.1.8 Display name

Webserver	Display name
Provisioning	SUBSCR_UA_DATA_DISP_NAME
Default	N/A
Type	String
Min	0
Max	29
NOTE	The SIP Display name.



7.1.9 XSI Username

Webserver	XSI Username
Provisioning	SUBSCR_XSI_UA_DATA_AUTH_NAME
Default	N/A
Type	String
Min	0
Max	35
NOTE	The XSI username

7.1.10 XSI Password

Webserver	XSI Password
Provisioning	SUBSCR_XSI_UA_DATA_AUTH_PASS
Default	N/A
Type	String
Min	0
Max	35
NOTE	The XSI password

7.1.11 Mailbox name

Webserver	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 This is the username that will be used in the SUBSCRIBE request when subscribing to the Voice Mail service. If not specified, no SUBSCRIBE made

7.1.12 Mailbox number

Webserver	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.

7.1.13 Server

Webserver	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.



7.1.14 Call Waiting

Webserver	Call Waiting
Provisioning	SUBSCR_SIP_UA_DATA_CALL_WAITING
Default	01 / Enabled
Type	Boolean
Min	0
Max	1
NOTE	Enable/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 already active. If not enabled, the base will respond with a Busy Here. 0: Call Waiting is disabled 1: Call Waiting is enabled.

7.1.15 BroadWorks Busy Lamp Field List URI

Webserver	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 registrar field.

7.1.16 BroadWorks Shared Call Appearance

Webserver	BroadWorks Shared Call Appearance
Provisioning	SUBSCR_SIP_UA_DATA_BW_SCA_EXTENSION_ENABLED
Default	0 / Disabled
Type	Boolean
Min	0
Max	1
NOTE	This parameter defines if this extension is part of a BroadWorks SCA (Shared Call Appearance). 0: The extension is not part of an SCA 1: The extension _is_ part of an SCA

7.1.17 BroadWorks Feature Event Package

Webserver	BroadWorks Feature Event Package
Provisioning	SUBSCR_SIP_UA_DATA_BW_PACK_ENABLED
Default	0 / Disabled
Type	Boolean
Min	0
Max	1
NOTE	This parameter defines if subscription to the BroadWorks Feature Event Package is enabled or not. Please note that 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



7.1.18 UaCSTA

Webserver	UaCSTA
Provisioning	SUBSCR_SIP_UA_DATA_UACSTA_ENABLED
Default	0 / Disabled
Type	Boolean
Min	0
Max	1
NOTE	This parameter is used to indicate if UaCSTA is enabled for agiven account. 0: UaCSTA not enabled. 1: UaCSTA enabled.

7.1.19 Forwarding Unconditional Number

Webserver	Forwarding Unconditional Number
Provisioning	SUBSCR_SIP_UA_DATA_FWD_UNCOND_NUMBER
Default	N/A
Type	String
Min	0
Max	21
NOTE	Forward Unconditionally Number Sip phone number used when Forward Unconditionally is enabled

7.1.20 Forwarding Unconditional Number

Webserver	Forwarding Unconditional Number
Provisioning	SUBSCR_SIP_UA_DATA_ENABLE_FWD_UNCOND
Default	0 / Disabled
Type	Boolean
Min	0
Max	1
NOTE	Enables/disables the SIP Forward Unconditionally feature. 0: SIP Forward Unconditionally disabled 1: SIP Forward Unconditionally enabled

7.1.21 Forwarding No Answer Number

Webserver	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



7.1.22 Forwarding No Answer Number

Webserver	Forwarding No Answer Number
Provisioning	SUBSCR_SIP_UA_DATA_ENABLE_FWD_NO_ANSW
Default	0 / Disabled
Type	Boolean
Min	0
Max	1
NOTE	Enables/disables the SIP Forward No Answer feature. 0: SIP Forward No Answer disabled 1: SIP Forward No Answer enabled

7.1.23 Forwarding No Answer Number - seconds

Webserver	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.

7.1.24 Forwarding on Busy Number

Webserver	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

7.1.25 Forwarding on Busy Number

Webserver	Forwarding on Busy Number
Provisioning	SUBSCR_SIP_UA_DATA_ENABLE_FWD_BUSY
Default	0 / Disabled
Type	Boolean
Min	0
Max	1
NOTE	Enables/disables the SIP Busy feature. 0: SIP Forward Busy disabled 1: SIP Forward Busy enabled



7.1.26 Reject Anonymous calls

Webserver	Reject Anonymous calls
Provisioning	SUBSCR_SIP_REJECT_ANONYMOUS_CALLS_ENABLED
Default	0 / Disabled
Type	Boolean
Min	0
Max	1
NOTE	This 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

Webserver	IPEI
Provisioning	SUBSCR_DECT_IPUI
Default	0xFF
Type	HEX String
Min	0
Max	255
NOTE	International Portable User Identity. Normally this is not used with provision-ing. 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. Not checks are made regarding this, but the handset present twice will not work proper. Note 2: When register a handset to a base, 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. See SUBSCR_DECT_AC_CODE description

7.2.2 Paired Terminal

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

Webserver	Push-to-Talk - see table from the previous chapter section 7.1.4
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7.2.3 AC

Webserver	AC
Provisioning	SUBSCR_DECT_AC_CODE
Default	0xFF
Type	HEX String
Min	0
Max	255
NOTE	<p>User AC value. Normally this is not used with provisioning.</p> <p>If FEATURE_IPEI_CONTROLLED_DECT_REG is enabled for the customer, the following rules apply:</p> <p>Handset Register Access Code can be specified as HEX strings containing all 4 HEX values of the desired AC for a subscription. The access code is given as 4 BCD coded digits.</p> <p>If a value of the handset specific AC value is above 9 eg. A, B, C, D, E, F, then the general AC_CODE value is used.</p> <p>The default value of the handset AC is FFFF meaning the general AC_CODE is used unless this value is changed.</p> <p>Example 1, specify AC value handset 0..3:0123,4567,8901,0000</p> <p>Example 2, specify AC value handset 2 only:.,8901</p> <p>Note 1: For the AC value to be used, the IPEI/IPUI value MUST be set different from FFFFFFFF.</p> <p>Note 2: AC_CODE value is used which as default has value 0000 is used when IP-EI/IPUI is specified to FFFFFFFF.</p>

7.2.4 Alarm Line

Webserver	Alarm Line
Provisioning	SUBSCR_UA_DATA_EMERGENCY_LINE
Default	0xFFFF
Type	Integer
Min	0
Max	65535
NOTE	The index of the SIP extension to use when dialing the emergency number



7.2.5 Alarm Number

Webserver	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
Webserver	Receive Mode
Provisioning	SUBSCR_BEACON_RX_SETTING
Default	0x00
Type	Integer
Min	0
Max	15
NOTE	This byte holds Reception settings parameters for the beacon Receive Mode (bit:0-1). Disabled(0b00), enter proximity(0b01), leave proximity(0b10), enter/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

Webserver	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

Webserver	Transmit interval
Provisioning	SUBSCR_BEACON_TX_SETTING
Default	0x00
Type	Integer
Min	0
Max	63
NOTE	This byte holds Transmit settings 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

Webserver	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

Webserver	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. So if profile 0 and profile 3 are needed, then you need to set 1+8=9 If the same alarm Type fx. "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

Webserver	Shared Call Appearance Settings:
Provisioning	SUBSCR_UA_DATA_BW_SCA_INFO_MAPPING
Default	(0xFFFF)
Type	Bytearray
Min	0
Max	65535
NOTE	This 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 which means that 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



8 Servers

In this section you find all settings related to servers

8.1.1 Server Alias

Webserver	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

Webserver	NAT adaption
Provisioning	SRV_SIP_UA_DATA_SERVER_NO_NAT_ADAPTION
Default	0x00
Type	Boolean
Min	0
Max	1
NOTE	This parameter specifies if the base 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, that may be available, is ignored.

8.1.3 Register

Webserver	Registrar
Provisioning	SRV_SIP_UA_DATA_DOMAIN
Default	N/A
Type	String
Min	0
Max	63
NOTE	This parameter specifies the Domain or SIP registration server. It is also sometimes 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

Webserver	Outbound Proxy
Provisioning	SRV_SIP_UA_DATA_PROXY_ADDR
Default	N/A
Type	String
Min	0
Max	63
NOTE	A 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. This parameter specifies the address of the Proxy Server and when defined all SIP packets are sent to this address. :port supported

8.1.5 Conference Server

Webserver	Conference Server
Provisioning	SRV_SIP_UA_DATA_CONF_ADDR
Default	N/A
Type	String
Min	0
Max	63
NOTE	This parameter specifies the address or FQDN of a conference server.

8.1.6 Call Log Server

Webserver	Call Log Server
Provisioning	SRV_BROADSOFT_CALLLOG_SERVER_ADDR
Default	N/A
Type	String
Min	0
Max	63
NOTE	The address of the BroadWorks XSI type call log server for the given SIP server.

8.1.7 Music On Hold server

Webserver	Music on Hold Server
Provisioning	SRV_SIP_MOH_SERVER_ADDR
Default	N/A
Type	String
Min	0
Max	63
NOTE	This parameter specifies the address or FQDN of a Music on Hold Server.



8.1.8 Reregistration time(s)

Webserver	Reregistration time (s)
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 (expires) parameter in the REGISTER request.

8.1.9 SIP Session Timers

Webserver	SIP Session Timers
Provisioning	SRV_SIP_ENABLE_SESSION_TIMERS
Default	0x00
Type	Boolean
Min	0
Max	1
NOTE	This 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.

8.1.10 Session Timer Value(s)

Webserver	Session Timer Value (s)
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.

8.1.11 SIP Transport

Webserver	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



8.1.12 Signal TCP Source Port

Webserver	Signal TCP Source Port
Provisioning	SRV_SIP_SIGNAL_TCP_PORT
Default	0x01
Type	Boolean
Min	0
Max	1
NOTE	This parameter defines if the source TCP port shall 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

8.1.13 Use One TCP Connection per SIP Extension

Webserver	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/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 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).

8.1.14 RTP From Own Base Station

Webserver	RTP from own base station
Provisioning	SRV_SIP_RTP_BASE_EQUAL
Default	0x00
Type	Boolean
Min	0
Max	1
NOTE	This parameter determines from which base station the RTP traffic is initiated. NB! This feature may not be enabled in all configurations. 0: Start RTP Stream from the base station where the handset is currently pre-sent, not necessarily 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.



8.1.15 Keep Alive

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

8.1.16 Show Extension On Handset Idle Screen

Webserver	Show Extension on Handset Idle Screen
Provisioning	SRV_SIP_SHOW_EXT_NAME_IN_HS
Default	0x01
Type	Boolean
Min	0
Max	1
NOTE	This parameter determines if the extension name should be displayed on the handset or not. 0: the extension name area in the handset will be empty. 1: the extension name will be displayed.

8.1.17 Hold Behavior

Webserver	Hold Behaviour
Provisioning	SRV_SIP_HOLD_BEHAVIOUR
Default	0x00
Type	Boolean
Min	0
Max	1
NOTE	

8.1.18 Local Ring Back Tone

Webserver	Local Ring Back Tone
Provisioning	SRV_SIP_RINGBACK_TONE
Default	0x01
Type	Boolean
Min	0
Max	1
NOTE	Parameter to be used to enable/disable ringback tone 0: Ring back tone disabled 1: Ring back tone enabled



8.1.19 Remote Ring Tone Control

Webserver	Remote Ring Tone Control
Provisioning	SRV_REMOTE_RINGTONE
Default	0x00
Type	Boolean
Min	0
Max	1
NOTE	Parameter to be used to enable/disable the Remote Ringtone Control (AlertTone) sent to handset 0: Remote Ringtone Control disabled 1: Remote Ringtone Control enabled

8.1.20 Attended Transfer Behaviour

Webserver	Attended Transfer Behaviour
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

8.1.21 Semi-Attended Transfer Behavior

Webserver	Semi-Attended Transfer Behavior
Provisioning	SRV_SEMI_ATTENDED_TRANSFER
Default	0x01
Type	Boolean
Min	0
Max	1
NOTE	Parameter to be used to enable/disable the possibility to carry out semi-attended transfer of calls 0: Semi-Attended Transfer Disabled 1: Semi-Attended Transfer Enabled

8.1.22 Sipping-19

Webserver	Sipping-19
Provisioning	SRV_SIPPING19
Default	0x01
Type	Boolean
Min	0
Max	1
NOTE	Parameter to be used to enable/disable Sipping19 for conference pack feature 0: Disabled 1: Enabled



8.1.23 Direct Call Pickup

Webserver	Directed Call Pickup
Provisioning	SRV_BW_DIRECTED_CALL_PICKUP_ENABLE
Default	0x00
Type	Boolean
Min	0
Max	1
NOTE	Enable / disable BroadWorks Directed Call Pickup for the given SIP server. 0: Disabled, directed call pickup cannot be used. 1: Enabled

8.1.24 Direct Call Pickup Code

Webserver	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.

8.1.25 Group Call Pickup

Webserver	Group Call Pickup
Provisioning	SRV_BW_GROUP_CALL_PICKUP_ENABLE
Default	0x00
Type	Boolean
Min	0
Max	1
NOTE	

8.1.26 Group Call Pickup Code

Webserver	Group Call Pickup Code
Provisioning	SRV_BW_GROUP_CALL_PICKUP_CODE
Default	N/A
Type	String
Min	0
Max	4
NOTE	The access code for using BroadWorks Group Call Pickup on the given SIP server

8.1.27 Use Own Codec Priority

Webserver	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).



8.1.28 DTMF Signaling

Webserver	DTMF Signaling
Provisioning	SRV_DTMF_SIGNALLING
Default	0x02
Type	Integer
Min	1
Max	3
NOTE	This parameter specifies how to transmit DTMF signaling 1: SIP-Info, 2: RTP Events (RFC2833). 3: SIP-Info and RTP Events (RFC2833).

8.1.29 DTMF Payload Type

Webserver	DTMF Payload Type
Provisioning	SRV_DTMF_PAYLOAD_TYPE
Default	101
Type	Integer
Min	0
Max	254
NOTE	This parameter specifies the value of the DTMF Payload Type to send when DTMF Signaling is RFC2833. Typical value is 101.

8.1.30 Remote Caller ID Source Priority

Webserver	Remote Caller ID Source Priority
Provisioning	SRV_SIP_CLI_MODE
Default	0x00
Type	Integer
Min	0
Max	4
NOTE	This parameter defines the priority with 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. 0: PAI - From 1: From 2: (cid=) in Alert-Info - PAI - From 3: RPI_FROM 4: From Until PAI



8.1.31 Codec Priority

Webserver	Codec Priority
Provisioning	SRV_SIP_UA_CODEC_PRIORITY
Default	0x00, 0x01, 0x06, 0x04,0xFF
Type	ByteArray
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 present 5: G722 6: G726.

8.1.32 G729 Annex B

Webserver	G729 Annex B
Provisioning	SRV_CODEC_ENABLE_G729AB
Default	0x00
Type	Boolean
Min	0
Max	1
NOTE	Parameter to be used to enable/disable the offering of G729 Annex B 0: G729A (annexb=no) 1: G729AB (annexb=yes)

8.1.33 Use ptime

Webserver	Use ptime
Provisioning	SRV_SIP_ENABLE_PTIME
Default	0x01
Type	Boolean
Min	0
Max	1
NOTE	Parameter to be used to enable/disable the ptime and maxptime parameters in the SDP 0: ptime and maxptime disabled (not sent in SDP) 1: ptime and maxptime enabled



8.1.34 RTP Packet Size

Webserver	RTP Packet Size
Provisioning	SRV_SIP_RTP_PACKET_SIZE
Default	0x01
Type	Integer
Min	0
Max	7
NOTE	This 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

8.1.35 RTCP

Webserver	RTCP
Provisioning	SRV_SIP_ENABLE_RTCP
Default	0x01
Type	Boolean
Min	0
Max	1
NOTE	Parameter to be used to enable/disable the RTCP parameter in the SDP 0: RTCP disabled (not sent in SDP) 1: RTCP enabled

8.1.36 Send SDP Capabilities In Offer (RFC 5939)

Webserver	Send SDP Capabilities in Offer (RFC 5939)
Provisioning	SRV_SDP_CAPA_NEGOTIATE_ENABLE
Default	0x00
Type	Boolean
Min	0
Max	1
NOTE	Parameter to be used to enable/disable the offering of SDP Capability negotiation (RFC 5939) 0: SDP Capability negotiation disabled 1: SDP Capability negotiation enabled



8.1.37 Secure RTP

Webserver	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 call which require SRTP are rejected 1: RTP is encrypted. Call which does 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

8.1.38 Secure RTP Auth

Webserver	Secure RTP Auth
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

8.1.39 SRTP Crypto Suites

Webserver	SRTP Crypto Suites
Provisioning	SRV_SRTP_CRYPTO_SUITES
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 chapter you find all network settings

9.1 IP Settings

9.1.1 DHCP/Static IP

Webserver	DHCP/Static IP
Provisioning	NETWORK_WAN_SETTINGS_DHCP
Default	0x01
Type	uint8_t
Min	0
Max	1
NOTE	This parameter specifies if DHCP is enabled or if the base shall 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

Webserver	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	This 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

Webserver	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	This 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

Webserver	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	This parameter holds the IP Address of the gateway. If DHCP is disabled, the gateway address must be entered here.



9.1.5 DNS (Primary)

Webserver	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	This 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)

Webserver	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	This 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

Webserver	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

Webserver	ID
Provisioning	NETWORK_VLAN_ID
Default	0
Type	uint16_t
Min	0
Max	65535
NOTE	VLAN ID



9.2.2 User Priority

Websserver	User Priority
Provisioning	NETWORK_VLAN_USER_PRIORITY
Default	0x00
Type	Uint8_t
Min	0
Max	256
NOTE	VLAN user priority

9.2.3 Synchronization

Websserver	Synchronization
Provisioning	NETWORK_VLAN_SYNCHRONIZATION
Default	0x01
Type	uint8_t
Min	0
Max	256
NOTE	Specifies if VLAN settings from other base station in Multi cell shall be applied by each base station. This parameter is base specific and will not be synchronized. 0: Possible to use different VLAN on different base stations 1: Used where all bases uses same VLAN settings

9.3 DHCP Options

9.3.1 Plug-n-Play

Websserver	Plug-n-Play
Provisioning	NETWORK_WAN_DHCP_OPTION_PLUG_AND_PLAY
Default	0x01
Type	uint8_t
Min	0
Max	256
NOTE	Enables DHCP plug and Play This enables storing of DHCP option 120 as SIP server

9.4 TCP Options

9.4.1 TCP keep Alive interval

Websserver	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

Webserver	LLDP-MED Send
Provisioning	LLDP_MED_SEND
Default	0x00
Type	Boolean
Min	0
Max	1
NOTE	Send LLDP-MED message. Default disable

9.5.2 LLDP-MED Send delay

Webserver	LLDP-MED Send delay
Provisioning	DP_DELAY_LLDP_MED
Default	0x1E
Type	uint8_t
Min	0
Max	256
NOTE	Delay between LLDP_MED messages. Default 30 s

9.5.3 VLAN via LLDP-MED

Webserver	VLAN via LLDP-MED
Provisioning	LLDP_AUTOTEST_VLAN
Default	0
Type	uint16_t
Min	0
Max	65535
NOTE	LLDP Autotest VLAN ID

9.5.4 CDP Send

Webserver	CDP Send
Provisioning	CDP_SEND
Default	0x00
Type	uint8_t
Min	0
Max	256
NOTE	Send CDP message. Default disable

9.5.5 CDP Send Delay

Webserver	CDP Send Delay
Provisioning	DP_DELAY_CDP
Default	60
Type	uint8_t
Min	0
Max	256
NOTE	Delay between CDP messages. Default 60s



9.6 NAT Settings

9.6.1 Enable STUN

Webserver	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

Webserver	STUN Server
Provisioning	NETWORK_STUN_SERVER
Default	"Blank"
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 Bindtime Determine

Webserver	STUN Bindtime 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 determining 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 Bindtime Guard

Webserver	STUN Bindtime 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 this value is zero, no guarding will be made. Also see SIP_STUN_BINDTIME_DETERMINE



9.6.5 Enable RPORT

Webserver	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

Webserver	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-alives are sent in order to keep NAT bindings. If SIP_STUN_BINDTIME_DETERMINE is set, SIP_STUN_KEEP_ALIVE_TIME will be overruled and keep alives will be sent with a frequency of half of determined bindtime

9.7 SIP/RTP Settings

9.7.1 Use Different SIP Ports

Webserver	Use Different SIP Ports
Provisioning	SIP_USE_DIFFERENT_PORTS
Default	0x00
Type	Boolean
Min	0
Max	1
NOTE	When this is enabled each account will use a different SIP port. Otherwise the same port will be use for all accounts. This parameter is valid only if the feature is enabled in the product.

9.7.2 RTP Collision Detection

Webserver	RTP Collision Detection
Provisioning	RTP_COLLISION_CONTROL
Default	0x01
Type	Boolean
Min	0
Max	1
NOTE	Parameter to be used to enable/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

Webserver	Always Reboot On Check-sync
Provisioning	SIP_CHECK_SYNC_ALWAYS_REBOOT
Default	0x00
Type	Boolean
Min	0
Max	1
NOTE	Specifies if the base shall reboot at reception of a SIP NOTIFY with check-sync regardless of the reboot parameter being present 0: Disabled, meaning reboot=TRUE must be present to force the base to reboot 1: Enabled. In this case, the base will always reboot at reception of check-sync.

9.7.4 Outbound Proxy Mode

Webserver	Outbound Proxy Mode
Provisioning	SIP_OUTBOUND_PROXY_MODE
Default	0x00
Type	Boolean
Min	0
Max	1
NOTE	Control how Outbound Proxy shall 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

Webserver	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 that a sender will wait for an INVITE message to be acknowledged. [sec]

9.7.6 Failover SIP Timer F

Webserver	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 that a sender will wait for a non-INVITE message to be acknowledged. [sec]



9.7.7 Local SIP Port

Webserver	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

Webserver	SIP ToS/QoS
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 Type of Service. Bit 1..0 are ignored. Setting all three of bit 4..2 will be ignored

9.7.9 RTP Port

Webserver	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

Webserver	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

Webserver	RTP ToS/QoS
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 Type of Service. Bit 1..0 are ignored. Setting all three of bit 4..2 will be ignored

9.7.12 Reject Anonymous Calls

Webserver	Reject Anonymous Calls
Provisioning	SIP_REJECT_ANONYMOUS_CALLS_ENABLED
Default	0x00
Type	Boolean
Min	0
Max	1
NOTE	This parameter is used to indicate if rejection of anonymous calls is enabled. 0: not enabled. 1: enabled.



10 Management

In this section you find all settings related to management

10.1.1 Base Station Name

Webserver	Base Station Name
Provisioning	LOCAL_HTTP_SERVER_TEMPLATE_TITLE
Default	SME VoIP
Type	String
Min	0
Max	36
NOTE	Title on HTML template file.

10.2 Settings

10.2.1 Management transfer Protocol

Webserver	Management transfer Protocol
Provisioning	MANAGEMENT_TRANSFER_PROTOCOL
Default	0x00
Type	HEX 00 to 02
Min	00
Max	02
NOTE	Parameter specifying the protocol to be used for transferring config file, FWU files etc 0: TFTP 1: HTTP 2: HTTPS

10.2.2 HTTP Management Upload Script

Webserver	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

Webserver	HTTP Management username
Provisioning	MANAGEMENT_USERNAME
Default	"Blank"
Type	String
Min	0
Max	128
NOTE	Parameter specifying the User Name 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

Webserver	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

Webserver	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

Webserver	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

Webserver	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

Webserver	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

Webserver	Configuration File download
Provisioning	CONFIGURATION_DOWNLOAD_CTRL
Default	0x00
Type	HEX 00 to 03
Min	00
Max	03
NOTE	This is a flag to control how to download the configuration file 0: No Download 1: Base Specific File 2: Multi cell Specific File 3: Both Files

10.3.2 Configuration Server Address

Webserver	Configuration Server Address
Provisioning	NETWORK_CONFIGURATION_SERVER
Default	0
Type	IP / Url
Min	0
Max	256
NOTE	Name or IP address of the configuration server

10.3.3 Base Specific File

Webserver	Base Specific File
Provisioning	FILENAME_BASE_SPECIFIC
Default	0
Type	uint8_t
Min	0
Max	32
NOTE	This 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 this filename is left empty, the filename will be constructed by the MAC Address and added .cfg at the end. E.g. 00087b123456.cfg



10.3.4 Multi cell Specific File

Webserver	Multi cell Specific File
Provisioning	FILENAME_MULTI_CELL_SPECIFIC
Default	0
Type	uint8_t
Min	0
Max	32
NOTE	This parameter specifies the file name of the Multi cell Specific File requested to be downloaded dependent on the parameters NETWORK_CONFIGURATION_SERVER and CONFIGURATION_DOWNLOAD_CTRL. If this filename is left empty, the filename will be constructed by the NETWORK_SYNC_ID in the ID area of this filename Multi_cell_ID.cfg. E.g. Multi_cell_512.cfg

10.3.5 Auto Resync Polling

Webserver	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

Webserver	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

Webserver	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 (Min)

Webserver	Auto Resync Periodic (Min)
Provisioning	AUTO_RESYNC_PERIODIC
Default	0
Type	uint16_t
Min	0
Max	65535
NOTE	The periode between auto resunc in seconds

10.3.9 Auto Resync Max Delay (Min)

Webserver	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 scheduled time

10.3.10 DHCP Controlled Config Server

Webserver	DHCP Controlled Config Server
Provisioning	NETWORK_DHCP_CLIENT_BOOT_SERVER
Default	0x00
Type	Unit8_t
Min	0
Max	2
NOTE	Select scheme for detecting the boot server 0: Option 66 1: Custom 2: Static 3: Custom + Option.66

10.3.11 DHCP Custom Option

Webserver	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, this parameter specifies the DHCP option number in which the base will look for its boot server.



10.3.12 DHCP Custom Option Type

Webserver	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, this parameter specifies the type of the DHCP option in which the base will look for its boot server. 0: IP Address 1: String

10.4 Cloud Service

10.4.1 MQTT Broker address

Webserver	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

Webserver	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 (Seconds)

Webserver	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 default of 60 seconds.



10.4.4 Change Settings Via Cloud Service Or Via Base

Websserver	Change Settings Via Cloud Service Or Via Base
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 Service og only via the bases. 0 = Only via bases 1 = Settings can be changed via bases and via Cloud Service 2 = Via Cloud Service for the next 24 hours

10.5 Text Messaging

10.5.1 Text Messaging

Websserver	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 & Alarm Server

Websserver	Text Messaging & Alarm Server
Provisioning	TEXT_MSG_SERVER
Default	0
Type	IP ot Url
Min	0
Max	128
NOTE	Name or IP address of the text messaging & alarm server

10.5.3 Text Messaging Port

Websserver	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 (m)

Webserver	Text Messaging Keep Alive (m)
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 (s)

Webserver	Text Messaging Response (s)
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

Webserver	Text Messaging TTL
Provisioning	TEXT_MSG_TTL
Default	0
Type	Unit16_t
Min	0
Max	65535
NOTE	Text Messaging Time To Live. Maximum age in seconds of a jobfile. If set to 0 then function is deactivated and jobfiles do not expire.

10.6 Terminal

10.6.1 Keep Alive (m)

Webserver	Keep Alive (m)
Provisioning	HANDSET_KEEPLIVE_DELAY
Default	0
Type	Unit8_t
Min	0
Max	256
NOTE	The delay between Keepalive handling is triggered in the handset. In minutes (m) 0: Disabled 1-255: 1-255 minutes



10.6.2 Auto Stop Alarm

Webserver	Auto Stop Alarm
Provisioning	HANDSET_ALARM_AUTO_STOP_ALLOWED
Default	0x00
Type	Unit8_t
Min	0
Max	1
NOTE	Defines if it shall be possible to disable the alarm from the handset 0: Not Allowed 1: Allowed

10.6.3 Auto Stop Alarm Delay (s)

Webserver	Auto Stop Alarm Delay (s)
Provisioning	HANDSET_ALARM_AUTO_STOP_DELAY
Default	0x1E
Type	Unit8_t
Min	0
Max	256
NOTE	The delay from an emergency event has been triggered until the Alarm Tone will be Automatically stopped [s]

10.7 Syslog/SIP Log

10.7.1 Upload Of SIP Log

Webserver	Upload Of SIP Log
Provisioning	
Default	
Type	
Min	
Max	
NOTE	

Commented [HDJ1]: fill

10.7.2 Syslog Level

Webserver	Syslog Level
Provisioning	SYSLOG_LEVEL
Default	0x01
Type	Unit8_t
Min	0
Max	3
NOTE	This 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

Webserver	TLS Security
Provisioning	SYSLOG_TLS
Default	0x00
Type	Unit8_t
Min	0
Max	1
NOTE	This 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

Webserver	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

Webserver	Syslog Server Port
Provisioning	SYSLOG_SERVER_PORT
Default	514
Type	Unit16_t
Min	0
Max	65535
NOTE	The port used on the syslog server

10.8 Location Gateway

10.8.1 Location Gateways

Webserver	Location Gateways
Provisioning	BEACON_SUPPORT
Default	0x00
Type	Unit8_t
Min	0
Max	1
NOTE	The Beacon Support is used to enable/disable Web Site and features related to the use Beacons



10.8.2 Configuration server

Websserver	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

Websserver	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

Websserver	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 (Min)

Websserver	Auto Resync Max Delay (Min)
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

10.9.1 Headset Base

Webserver	Headset Base
Provisioning	HEADSET_FP_SUPPORT
Default	0x00
Type	Unit8_t
Min	0
Max	1
NOTE	The HeadsetFpSupport is used to enable/disable Web Site and features related to the use of Headset bases



11 Firmware Update

In this section you find all settings related to firmware update

11.1.1 Firmware Update Server Address

Webserver	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

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

11.1.3 Update Base Station (Required Version)

Webserver	Update Base Station (Required Version)
Provisioning	FP_FWU_SW_VERSION
Default	0
Type	Unit16_t
Min	0
Max	9999
NOTE	This parameter specifies the firmware version the base station shall use. If a different version is already loaded into the base station the firmware update procedure will start to update the base to the specified version. If the version is specified to 0, the version check is disabled.

11.1.4 Update Base Station (Required Branch)

Webserver	Update base Station (Required Branch)
Provisioning	FP_FWU_BRANCH_VERSION
Default	0
Type	Unit16_t
Min	0
Max	9999
NOTE	This parameter specifies the firmware version the base station shall use. If a different version is already loaded into the base station the firmware update procedure will start to update the base to the specified version. If the version is specified to 0, the version check is disabled.



11.1.5 Handset ID

Webserver	NO WEBSERVER TAG
Provisioning	PP_FWU_DEVICE_IDS
Default	0x00000000
Type	Unit32_t
Min	0
Max	10
NOTE	<p>This parameter defines the PP device IDs, which this base should be able to update. This 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..</p> <p>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</p> <p>To use the parameter, you must know the ID of the different model you wish to provision.</p>

11.1.6 Handset Model (Required Version)

Webserver	Handset Model name (Required Version)
Provisioning	PP_FWU_SW_VERSIONS
Default	0
Type	Unit16_t
Min	0
Max	9999
NOTE	This parameter defines the PP SW versions, which should be in the PPs.

11.1.7 Handset Model (Required Branch)

Webserver	Handset Model name (Required Version)
Provisioning	PP_FWU_BRANCH_VERSIONS
Default	0
Type	Unit16_t
Min	0
Max	9999
NOTE	This parameter defines the PP SW versions, which should be in the PPs.



12 Headset Base

In this section you find all settings related to headset

12.1.1 ACCESS_CODE_HEADSET_FP

Webserver	AC
Provisioning	ACCESS_CODE_HEADSET_FP
Default	0000
Type	Unit8_t
Min	0000
Max	9999
NOTE	Headset base access code

12.1.2 Headset Name

Webserver	Headset Name
Provisioning	HEADSET_FP_NAME
Default	None
Type	String
Min	0
Max	20
NOTE	Friendly name to identify a headset base

12.1.3 IPEI

Webserver	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

Webserver	NO WEBSERVER TAG
Provisioning	HEADSET_FP_VOIP_TERMINAL_ID
Default	0xFFFF
Type	Unit16_t
Min	0
Max	65535
NOTE	The 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 find all settings related to country and time

13.1.1 Select Country

Webserver	Select Country		
Provisioning	COUNTRY_VARIANT_ID		
Default	Various		
Type	Unit8_t		
Min	N/A		
Max	N/A		
NOTE	Australia	0x13	Uses Region Select: AustralianStates
	Belgique	0x0E	
	Brasil	0x2F	Uses Region Select: BrazilianStates
	Danmark	0x09	
	Deutschland	0x00	
	Ellás	0x05	
	España	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	
	Turkiye	0x0B	
	United Kingdom	0x10	
	US / Canada	0x12	Uses Region Select: UsStates
	Österreich	0x0F	



13.1.2 State / Region

Webserver	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	
	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	
	Tocantins	0x1A	
	US 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	
	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	Timezone is CST, not fitting most of East Tennessee.
	Texas	0x2D	Timezone 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

Webserver	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 Francais = 0x10 Español = 0x11 Russian = 0x12 Polski = 0x13

13.1.4 Time Server

Webserver	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

Webserver	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 (h)

Webserver	Refresh Time (h)
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 Timezone By Country/Region

Webserver	Set Timezone 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 Timezone

Webserver	Timezone
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

Webserver	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)

Webserver	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

Websserver	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

Websserver	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

Websserver	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

Websserver	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

Websserver	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

Websserver	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

Websserver	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

Websserver	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

Websserver	DST Stop Time
Provisioning	DST_STOP_TIME
Default	0x02
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

Websserver	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

Webserver	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 find all settings related to security

14.1.1 Use Only Trusted Certificates

Webserver	Use Only Trusted Certificates
Provisioning	CERTIFICATE_USE_ONLY_TRUSTED
Default	0x00
Type	Boolean
Min	0
Max	1
NOTE	Parameter to be used to enable/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

Webserver	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

14.3 Password

14.3.1 Username

Webserver	Username
Provisioning	LOCAL_HTTP_SERVER_AUTH_NAME
Default	admin
Type	Unit8_t
Min	0
Max	36
NOTE	Local HTTP server login authentication name.



14.3.2 Password

Webserver	Password
Provisioning	LOCAL_HTTP_SERVER_AUTH_PASS
Default	admin
Type	Unit8_t
Min	0
Max	36
NOTE	Local HTTP server login authentication password.



15 Central Directory

In this section you find all settings related to central directory

15.1.1 Location

Webserver	Location
Provisioning	PHONEBOOK_SERVER_LOCATION
Default	0x00
Type	Unit8_t
Min	0
Max	2
NOTE	Location of the server. 0: Local in the Base/Multi cell system. 1: LDAP server is hosting the Central Directory (Phonebook) 2:XML server is hosting the Central Directory (Phonebook)

15.1.2 Server

Webserver	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 Filename

Webserver	Filename
Provisioning	PHONEBOOK_FILENAME
Default	0
Type	Unit8_t
Min	0
Max	32
NOTE	The name of the phonebook.

15.1.4 Phonebook reload Interval (s)

Webserver	Phonebook reload Interval (s)
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

15.2.1 Central Directory Location

Webserver	Location
Provisioning	PHONEBOOK_SERVER_LOCATION
Default	0x00
Type	Unit8_t
Min	0
Max	2
NOTE	Location of the server. 0: Local in the Base/Multi cell system. 1: LDAP server is hosting the Central Directory (Phonebook) 2:XML server is hosting the Central Directory (Phonebook)

15.2.2 Server

Webserver	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.

15.2.3 TLS Security

Webserver	TLS Security
Provisioning	LDAP_TLS
Default	0x00
Type	Unit8_t
Min	0
Max	1
NOTE	This setting enables / disabled the usage of TLS security. If set to 1 TLS security is used and 0 it is not

15.2.4 Sort By

Webserver	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

Webserver	Port
Provisioning	LDAP_PORT
Default	0
Type	Unit16_t
Min	0
Max	65535
NOTE	The server port that is open for LDAP connections

15.2.6 Sbase

Webserver	Sbase
Provisioning	LDAP_SBASE
Default	0
Type	Unit8_t
Min	1
Max	128
NOTE	LDAP Search Base, the greatly depends on the configuration of the LDAP server, and example of the setting is CN=Users,DC=umber,DC=loc

15.2.7 LDAP Filter

Webserver	LDAP Filter
Provisioning	LDAP_FILTER
Default	0
Type	Unit8_t
Min	1
Max	128
NOTE	LDAP Filter is used to 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

Webserver	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 Password

Webserver	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

Webserver	Virtual List
Provisioning	LDAP_VIRTUAL_LISTS
Default	0x01
Type	Boolean
Min	0
Max	1
NOTE	This setting enables / disabled the usage of virtual lists. If set to 1 virtual lists are used, 0 disables virtual lists. If virtual lists are disabled the base request 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

Webserver	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 is CN 1 is SN+givenName

15.3.2 Work

Webserver	Work
Provisioning	LDAP_HANDSET_WORK_NUMBER
Default	telephoneNumber
Type	Unit8_t
Min	0
Max	32
NOTE	The text string that is tied to what we shows in the Central Directory as work number. I.e. to find the work number to the handset, there is looked for this text string on the LDAP server

15.3.3 Home

Webserver	Home
Provisioning	LDAP_HANDSET_HOME_NUMBER
Default	homePhone
Type	Unit8_t
Min	0
Max	32
NOTE	LDAP handset Home number is the text string that maps to the phonenummer the handset will as home number



15.3.4 Mobile

Webserver	Mobile
Provisioning	LDAP_HANDSET_MOBILE_NUMBER
Default	mobile
Type	Unit8_t
Min	0
Max	32
NOTE	LDAP handset Home number is the text string that maps to the phonenumber the handset will as Mobile number

15.4 XML Server Enabled

15.5 Directory Names

15.5.1 Enterprise

Webserver	Enterprise
Provisioning	XSI_CONTACTS_ENTERPRISE
Default	Enterprise
Type	Unit8_t
Min	0
Max	40
NOTE	The name of the phonebook.

15.5.2 Enterprise Directory Enable

Webserver	Enterprise Directory Enable
Provisioning	XSI_CONTACTS_ENTERPRISE_ENABLE
Default	0x01
Type	Boolean
Min	0
Max	1
NOTE	Enable/Disable Enterprise Directory 0 disables Enterprise Directory 1 enables Enterprise Directory

15.5.3 EnterpriseCommon

Webserver	EnterpriseCommon
Provisioning	XSI_CONTACTS_ENTERPRISE_COMMON
Default	EnterpriseCommon
Type	Unit8_t
Min	0
Max	40
NOTE	The name of the phonebook.



15.5.4 EnterpriseCommon Enable

Webserver	EnterpriseCommon Enable
Provisioning	XSI_CONTACTS_ENTERPRISE_COMMON_ENABLE
Default	0x01
Type	Boolean
Min	0
Max	1
NOTE	Enable/Disable Enterprise Common Directory 0 disables Enterprise Common Directory 1 enables Enterprise Common Directory

15.5.5 Group

Webserver	Group
Provisioning	XSI_CONTACTS_GROUP
Default	group
Type	Unit8_t
Min	0
Max	40
NOTE	The name of the phonebook.

15.5.6 Group Enable

Webserver	Group Enable
Provisioning	XSI_CONTACTS_GROUP_ENABLE
Default	0x01
Type	Boolean
Min	0
Max	1
NOTE	Enable/Disable Group Directory 0 disables Group Directory' 1 enables Group Directory

15.5.7 GroupCommon

Webserver	GroupCommon
Provisioning	XSI_CONTACTS_GROUP_COMMON
Default	groupCommon
Type	Unit8_t
Min	0
Max	40
NOTE	The name of the phonebook.



15.5.8 GroupCommon Enable

Webserver	GroupCommon Enable
Provisioning	XSI_CONTACTS_GROUP_COMMON_ENABLE
Default	0x01
Type	Boolean
Min	0
Max	1
NOTE	Enable/Disable Group Directory 0 disables Group Directory' 1 enables Group Directory

15.5.9 Personal

Webserver	Personal
Provisioning	XSI_CONTACTS_PERSONAL
Default	personal
Type	Unit8_t
Min	0
Max	40
NOTE	The name of the phonebook.

15.5.10 Personal Enable

Webserver	Personal Enable
Provisioning	XSI_CONTACTS_PERSONAL_ENABLE
Default	0x00
Type	Boolean
Min	0
Max	1
NOTE	Enable/Disable Group Directory 0 disables Group Directory' 1 enables Group Directory



16 Multi cell

In this section you find all settings related to Multi cell

16.1 Settings for this unit

16.1.1 Multi cell System

Webserver	Multi cell System
Provisioning	NETWORK_SYNC_ENABLE
Default	0x00
Type	Boolean
Min	0
Max	1
NOTE	Network System Sync Enable/Disable. With this parameter multi-cell behaviour is enabled/Disabled. 0: Network System Sync is disabled 1: Network System Sync is enabled

16.1.2 System Chain ID

Webserver	System Chain ID
Provisioning	NETWORK_SYNC_CHAIN_ID
Default	512
Type	Unit32_t
Min	0
Max	4294967296
NOTE	Identity number of this Multi-cell chain. Used to identify different chains in same LAN locations.

16.1.3 Synchronization time (s)

Webserver	Synchronization time (s)
Provisioning	NETWORK_SYNC_TIME
Default	60
Type	Unit16_t
Min	0
Max	65535
NOTE	This is the time interval (in sec) 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 Multi cell configuration. Minimum recommended value is 30 s.



16.1.4 Data Sync

Webserver	Data Sync
Provisioning	NETWORK_SYNC_DATA_TRANSPORT
Default	0x00
Type	Boolean
Min	0
Max	1
NOTE	Setting to be used to specify data transport method: 0: Multicast 1: Peer-to-Peer

16.1.5 Multi cell Debug

Webserver	Multi cell Debug
Provisioning	NETWORK_SYNC_DEBUG_ENABLE
Default	0x00
Type	Unit8_t
Min	0
Max	3
NOTE	Network System Sync Debug Enable/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. Note: This setting is not sync, it needs to be enabled on each base station

16.2 DECT System Setting

16.2.1 Auto Configure DECT Sync Source Tree

Webserver	Auto Configure DECT Sync Source Tree
Provisioning	NETWORK_DECT_AUTO_SYNC_TREE_CONFIG
Default	0x01
Type	Boolean
Min	0
Max	1
NOTE	Network Automatically configure DECT SYNC Tree

16.2.2 Allow Multi Primary

Webserver	Allow Multi Primary
Provisioning	NETWORK_ALLOW_MULTI_PRIMARY
Default	0x00
Type	Boolean
Min	0
Max	1
NOTE	Setting to be used to enable/disable allow configure multiple primary in a chain 0: configuration of multiple primaries in a chain is not allowed 1: configuration of multiple primaries in a chain is allowed



16.2.3 Auto Create Multi Primary

Webserver	Auto Create Multi Primary
Provisioning	NETWORK_AUTO_MULTI_PRIMARY
Default	0x00
Type	Boolean
Min	0
Max	1
NOTE	Setting to be used to enable/disable auto configure multiple primary in a chain 0: auto configure is disabled 1: auto configure is enabled Note: this setting is only available is "Allow Multi Primary" is enabled

16.3 Base Station Settings

16.3.1 Number Of SIP Accounts Before Distributed Load

Webserver	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 bases in the chain. Thus, if this is set to e.g. 8, the base will attempt to distribute SIP registrations to other bases when 8 SIP registration has been completed at the given base station.

16.3.2 SIP Server Support for Multiple Registrations Per Account

Webserver	SIP Server Support for Multiple Registrations Per Account
Provisioning	NETWORK_ROAMING_DEREGISTER
Default	0x00
Type	Boolean
Min	0
Max	1
NOTE	This parameter is used to determine how SIP registrations shall be handled when a handset roams from one base station to another. Here, 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 PBX's are capable of handling multiple SIP bindings per SIP user, and hence when a new SIP registration is made from another base (another IP address) due to roaming, the old SIP registration will still be valid. Therefore, this registration must be deactivated with a SIP de-registration. Other PBXes always use the latest SIP registration, and therefore no SIP de-registration shall be made. 0: No SIP de-registration will be made when a handset roams to another base station 1: The old SIP registration will be deleted with a SIP deregistration when a handset roams to another base station



16.3.3 System Combination (number of Base Stations/Repeater Per Base Station)

Webserver	System Combination (number of Base Stations/Repeater Per Base Station)
Provisioning	NUMBER_OF_REPEATER_PER_BASE
Default	0x00
Type	Unit8_t
Min	0
Max	3
NOTE	Three settings available 0x01 - 50/3 0x02 - 127/1 0x03 - 254/0



17 Multi Zone

NOTE: Multi zone is not covered in this document.

18 LAN Sync

Note: LAN sync option only becomes visible on webserver, when Multi cell (air sync) is enabled.

18.1.1 IEEE1588

Websserver	IEEE1588
Provisioning	IEEE1588_ENABLED
Default	0x00
Type	Boolean
Min	0
Max	1
NOTE	Setting to enable/disable IEEE1588 feature 0: Feature is disabled 1: Feature is enabled

18.2 Zone LAN Sync Sync setup

18.2.1 Multicast IP Address

Websserver	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 be used to communicate PTP.

18.2.2 Multicast Port

Websserver	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 Synchronisation

18.2.3 Domain Number

Websserver	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 Synchronisation



18.2.4 Alternativ Domain Number

Webserver	Alternativ 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 Synchronisation

18.2.5 Multi cell Debug

Webserver	Multi cell Debug
Provisioning	NETWORK_SYNC_DEBUG_ENABLE
Default	0x00
Type	Unit8_t
Min	0
Max	4
NOTE	Multi cell 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

Webserver	External Sync Source
Provisioning	IEEE1588_EXTERNAL_SYNC_ENABLED
Default	0x00
Type	Unit8_t
Min	0
Max	2
NOTE	Setting to enable/disable External Sync Source 0: Feature is disabled 1: Secondary Zone is enabled 2: Primary Zone is enabled

18.3.2 Multicast IP Address

Webserver	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 be used to communicate PTP.



18.3.3 Multicast Port

Webserver	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 Synchronisation

18.3.4 Domain Number

Webserver	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 Synchronisation



19 Repeaters

In this section you find all settings related to repeaters

19.1.1 Repeater name

Webserver	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

Webserver	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. (See later) Together with the REPEATER_SYNC_SRC_RPN, there is possible to specify a unique RPN value per Repeater. Only the numbers 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. See also description of REPEATER_SYNC_SRC_RPN All Repeaters using Manual mode must be configures to use unique RPN. Base RPN Values 0x00 is invalid. Valid values for Repeater are 0x01; 0x02; 0x03.



19.1.3 Repeater Sync Source

Webserver	Repeater RPN
Provisioning	REPEATER_SYNC_SRC_RPN
Default	0x00
Type	Unit8_t
Min	0x00
Max	0x64
NOTE	<p>Repeater Sync Source RPN setting used when REPEATER_AUTO_CONFIG_MODE is set to Manual. (See later)</p> <p>Together with the REPEATER_RPN, there is possible to specify a unique RPN value per Repeater.</p> <p>The maximum chain length is three Repeaters in chain after a Base Station.</p> <p>All Repeaters using Manual mode must be configured to use unique RPN.</p> <p>0x00: Uses Base station in NETWORK_SYNC_MAC_CHAIN index 0 as DECT Synchronization source.</p> <p>0x01: Uses Repeater with RPN 0x01 connected to the Base station in NETWORK_SYNC_MAC_CHAIN index 0 as DECT Synchronization source.</p> <p>0x02: Uses Repeater with RPN 0x02 connected to the Base station in NETWORK_SYNC_MAC_CHAIN index 0 as DECT Synchronization source.</p> <p>0x03: Uses Repeater with RPN 0x03 connected to the Base station in NETWORK_SYNC_MAC_CHAIN index 0 as DECT Synchronization source.</p> <p>0x04: Uses Base station in NETWORK_SYNC_MAC_CHAIN index 1 as DECT Synchronization source.</p> <p>0x05: Uses Repeater with RPN 0x01 connected to the Base station in NETWORK_SYNC_MAC_CHAIN index 1 as DECT Synchronization source.</p> <p>0x06: ..</p> <p>0x07: ..</p>

19.1.4 Repeater Auto config

Webserver	Repeater Auto config
Provisioning	REPEATER_AUTO_CONFIG_MODE
Default	0x00
Type	Unit8_t
Min	0x00
Max	0x64
NOTE	<p>Repeater Auto Configure Mode settings</p> <p>0: Manual. User need manually to specify REPEATER_RPN and REPEATER_SYNC_SRC_RPN.</p> <p>1: Local Automatically. Repeater search for avail 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.</p> <p>2: Chaining Automatically. All base stations and all repeaters are sending a 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 station and all repeaters selected to use this setting.</p>



19.1.5 Repeater Legacy support

Webserver	Repeater Legacy support
Provisioning	REPEATER_LEGACY_SUPPORT
Default	0x01
Type	Unit8_t
Min	0x00
Max	0x01
NOTE	Value to check whether to Disable Legacy Repeaters or not. Value 0x00-> Legacy Repeaters NOT Supported; Value 0x1->Legacy Repeaters Supported.

19.1.6 Repeater data config

Webserver	Repeater data config
Provisioning	REPEATER_DATA_CONFIGURED
Default	0x00
Type	Unit8_t
Min	0x00
Max	0x01
NOTE	If 1 this Repeater is actively configured. If 0 this account is not in use.

19.1.7 Repeater DECT IPUI

Webserver	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 like: 0x01,0x34,0x67,0x9A,0xCD NOTE: it is not recommended to provision this parameter. The system will fill this as repeater(s) are registered



20 Alarm

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

20.1.1 Profile Alias

Webserver	Profile Alias
Provisioning	EMERGENCY_PROFILE_ALIAS
Default	0
Type	Unit8_t
Min	0
Max	20
NOTE	Alias for the given Emergency Alarm Profile

20.1.2 Alarm Type

Webserver	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

20.1.3 Alarm Signal

Webserver	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

20.1.4 Stop alarm From Handset

Webserver	Stop alarm From Handset
Provisioning	EMERGENCY_ALARM_STOP_ALLOWED
Default	0x01
Type	Boolean
Min	0
Max	1
NOTE	Defines if it shall be possible to disable the alarm from the handset 0: Not Allowed 1: Allowed



20.1.5 Trigger Delay

Webserver	Trigger Delay
Provisioning	EMERGENCY_TRIGGER_DELAY
Default	0x00
Type	Unit8_t
Min	0
Max	254
NOTE	The delay from an emergency event has been triggered until the Pre Alarm notification is started [s]

20.1.6 Stop Pre-alarm from Handset

Webserver	Stop Pre-alarm from Handset
Provisioning	EMERGENCY_PRE_ALARM_STOP_ALLOWED
Default	0x01
Type	Boolean
Min	0
Max	1
NOTE	Defines if it shall be possible to disable the Pre alarm from the handset 0: Not Allowed 1: Allowed

20.1.7 Pre-alarm Delay

Webserver	Pre-alarm Delay
Provisioning	EMERGENCY_PRE_ALARM_DELAY
Default	0x00
Type	Unit8_t
Min	0
Max	254
NOTE	The delay from the Pre Alarm is activated until the actual alarm fires

20.1.8 Howling

Webserver	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



20.1.9 Alarm Priority

Webserver	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.



21 Statistics

No provisioning

22 Diagnostics

In this section you find all settings related to diagnostics

22.1 Logging

22.1.1 RSX Internal Tracing

Webserver	RSX Internal Tracing
Provisioning	RSX_TRACE_INTERNAL
Default	0x00
Type	Boolean
Min	0
Max	1
NOTE	This parameter defines if the internal RSX tracing is enabled or disabled: 0: Disabled 1: Enabled

22.1.2 PCAP Internal Tracing

Webserver	PCAP Internal tracing
Provisioning	PCAP_TRACE_TYPE
Default	0
Type	Unit16_t
Min	0
Max	8
NOTE	This 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

22.1.3 Trace received packet with destination MAC between(min)

Webserver	Trace received packet with destination MAC between (min)
Provisioning	PCAP_TRACE_MAC_RANGE_MIN
Default	0x00
Type	Unit8_t
Min	0
Max	6
NOTE	This parameter is the minimum received destination MAC address that will be traced. Used together with PCAP_TRACE_MAC_RANGE_MAX. The MAC compare is done on each byte.



22.1.4 Trace received packet with destination MAC between(max)

Webserver	Trace received packet with destination MAC between(max)
Provisioning	PCAP_TRACE_MAC_RANGE_MAX
Default	0xFF
Type	Unit8_t
Min	0
Max	6
NOTE	This parameter is the maximum received destination MAC adresse that will be traced. Used together with PCAP_TRACE_MAC_RANGE_MIN. The MAC compare is done on each byte.

22.1.5 Trace received Ethertype

Webserver	Trace received Ethertype
Provisioning	PCAP_TRACE_ETHERTYPE
Default	0xFFFF
Type	Unit16_t
Min	0
Max	3
NOTE	This parameter makes it possible to trace selectable received ethertypes (https://en.wikipedia.org/wiki/EtherType). The user can select 3 different ethertypes to trace at the same time.

22.1.6 Trace received IPv4 protocol

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

22.1.7 Trace received TCP/UDP port

Webserver	Trace received TCP/UDP port
Provisioning	PCAP_TRACE_TCP_UDP_PORT
Default	0xFFFF
Type	Unit16_t
Min	0
Max	3
NOTE	This parameter makes it possible to trace selectable received packet with send/receive port for TCP/UDP packets. The user can select 3 different ports to trace at the same time.



23 Configuration

No provisioning

24 Syslog

No provisioning

25 SIP Log

No provisioning

26 Emergency Call

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

NOTE: This feature requires PBX support and 3rd party server e.g Red Sky, there for we recommend reading the feature spec for beginning to use the feature.

26.1.1 Emergency Numbers

Webserver	Emergency Numbers
Provisioning	EMERGENCY_ALARM_NUMBER
Default	None
Type	Unit8_t
Min	0
Max	8
NOTE	Emergency Numbers NULL terminated #1

26.1.2 Location Information Via

Webserver	Location Information Via
Provisioning	E911_SOLUTION_CONFIGURED
Default	0x00
Type	Unit8_t
Min	0
Max	3
NOTE	This serves as identification of the chosen solution: 0=>use ELIN/CUSTOM location identifier, 1=>use HELD solution w Redskye provider. If either are not properly configured the pidf-lo parameters will be used

26.2 ELIN

26.2.1 Emergency Location Identification number (ELIN)

Webserver	Emergency Location Identification number (ELIN)
Provisioning	N/A
Default	N/A
Type	N/A
Min	N/A
Max	N/A
NOTE	N/A



26.3 Customer Location ID

26.3.1 Custom Location Identifier (<30digits)

Webserver	Custom Location Identifier (<30digits)
Provisioning	N/A
Default	N/A
Type	N/A
Min	N/A
Max	N/A
NOTE	N/A

26.4 Custom Location ID - PAI

Custom Location Identifier - PAI(<30digits)

Webserver	Custom Location Identifier - PAI(<30digits)
Provisioning	N/A
Default	N/A
Type	N/A
Min	N/A
Max	N/A
NOTE	N/A

26.5 HELD (RedSky)

26.5.1 HELD company ID

Webserver	HELD company ID
Provisioning	HELD_COMPANY_ID
Default	N/A
Type	Unit8_t
Min	0
Max	48
NOTE	The token serving as a companyID for HELD server

26.5.2 Primary HELD server

Webserver	Primary HELD server
Provisioning	HELD_SRV_1_TOKEN
Default	https://primelab.e911cloud.com/
Type	IP or Url
Min	0
Max	69
NOTE	The primary server to request a location token.



26.5.3 Secondary HELD server

Webserver	Secondary HELD server
Provisioning	HELD_SRV_2_TOKEN
Default	https://primelab.e911cloud.com/
Type	IP or Url
Min	0
Max	69
NOTE	The secondary server to request a location token.

26.5.4 HELD server login name

Webserver	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

26.5.5 HELD server login password

Webserver	HELD server login password
Provisioning	HELD_LOGIN_PSWD
Default	N/A
Type	
Min	
Max	
NOTE	



27 Parameters not configurable on webserver

27.1.1 Log Last Config

Webserver	Not configurable on webserver
Provisioning	LOG_LAST_CONFIG
Default	0x00
Type	Boolean
Min	0x00
Max	0x01
NOTE	Enable/disable logging of received configuration field 0: logging disabled (default). 1: loggings enabled.

27.1.2 LDAP Use Ext NBR To LDAP Bind

Webserver	Not configurable on webserver
Provisioning	LDAP_USE_EXT_NBR_TO_LDAP_BIND
Default	0x00
Type	Boolean
Min	0x00
Max	0x01
NOTE	This parameter is used to enable/disable the use of LDAP username instead of SIP username. Previously static feature FEATURE_USE_EXT_NBR_TO_LDAP_BIND

27.1.3 Auto DECT Register

Webserver	Not configurable on webserver
Provisioning	AUTO_DECT_REGISTER
Default	0x00
Type	Boolean
Min	0x00
Max	0x01
NOTE	Enable/Disable automatic DECT Registration of Handsets 0: Disabled 1: Enabled

27.1.4 Network Data Config Primary Mac

Webserver	Not configurable on webserver
Provisioning	NETWORK_DATA_CONFIG_PRIMARY_MAC
Default	0xFF,0xFF,0xFF,0xFF,0xFF,0xFF
Type	Unit8_t
Min	00
Max	FF
NOTE	This setting specifies the MAC address of the base station which is allowed to download and handle Multi cell configuration file.



27.2 Settings that should not be provisioned

27.2.1 NETWORK_SYNC_MAC_CHAIN

Webserver	Not configurable on webserver
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 base order is changed. The list contains Chain of Ethernet MAC Addresses, which are connected in this network. The chain will automatically be created by the Multi cell 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,,,,

27.2.2 NETWORK_DECT_SYNC_TREE

Webserver	Not configurable on webserver
Provisioning	NETWORK_DECT_SYNC_TREE
Default	N/A
Type	N/A
Min	N/A
Max	N/A
NOTE	This 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 bases shall use as DECT Sync source. If Id for the own index is equal to Own ID, this base is Primary DECT Sync Source. A secondary base which cannot find its Sync Source or has been turned off will get a special value 240 which indicates it shall look for any base station and sync source. This will enable the system to reconfigure itself.

27.3 Additional logging information in syslog

27.3.1 LOAD_REPORTING_ENABLE

Webserver	Not configurable on webserver
Provisioning	LOAD_REPORTING_ENABLE
Default	0x00
Type	Boolean
Min	0
Max	1
NOTE	Enable/Disable the periodic reporting of base load in the syslog



27.3.2 LOAD_REPORTING_INTERVAL

Webserver	Not configurable on webserver
Provisioning	LOAD_REPORTING_INTERVAL
Default	20
Type	Unit_16
Min	0
Max	65535
NOTE	The time interval between generation of new Load Reports [s]

27.3.3 LOAD_REPORTING_INTERVAL_SYNC

Webserver	Not configurable on webserver
Provisioning	LOAD_REPORTING_INTERVAL_SYNC
Default	0x00
Type	Boolean
Min	0
Max	1
NOTE	Enable/Disable the configured load reporting interval shall be synchronized between all bases in the system.

27.3.4 HEAP_SYSLOG_INTERVAL

Webserver	Not configurable on webserver
Provisioning	HEAP_SYSLOG_INTERVAL
Default	60
Type	Unit_16
Min	0
Max	65535
NOTE	The time interval of heap syslog [s] The time between heap usage is shown in syslog

27.3.5 HEAP_STATISTICS_INTERVAL

Webserver	Not configurable on webserver
Provisioning	HEAP_STATISTICS_INTERVAL
Default	60
Type	Unit_16
Min	0
Max	65535
NOTE	The time interval of heap statistics [s] Used by heap in Generic Statistics



27.3.6 KEEP_TRACES_AFTER_UNEXPECTED_REBOOT

Webserver	Not configurable on webserver
Provisioning	KEEP_TRACES_AFTER_UNEXPECTED_REBOOT
Default	0x00
Type	Boolean
Min	0
Max	1
NOTE	<p>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: Rsx, Pcap, Syslog, Siplog.</p> <p>The traces are placed in DDR RAM but is not initialized are therefore kept when the base is rebooted. If the power cable is removed from the base then the traces will be lost.</p> <p>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</p>

27.3.7 SECURITY_LOG_THRESHOLD

Webserver	Not configurable on webserver
Provisioning	SECURITY_LOG_THRESHOLD
Default	0x00
Type	Unit_8
Min	0
Max	255
NOTE	Defines threshold for failed authentications, if exceeded within timeframe, warning is displayed in syslog

27.3.8 SECURITY_LOG_TIMEFRAME

Webserver	Not configurable on webserver
Provisioning	SECURITY_LOG_TIMEFRAME
Default	0x00
Type	Unit_8
Min	0
Max	255
NOTE	Defines timeframe for exceeding authentication threshold.



28 Appendix A (Base specific file)

Base specific file without extensions, this type of file will normally be used in multi cell setup, where the base specific file only contains network info.

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"
```

```
//Multi cell 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
```




```
%SUBSCR_SIP_UA_DATA_CONFIGURED%:0x01,0x02, 0x03,  
%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 enable registration automatically
```

```
%AUTO_DECT_REGISTER%:0x01
```




```
//Handsets
//IPUI xx
%SUBSCR_SIP_HS_IDX%:0,1,2,
%SUBSCR_SIP_UA_DATA_CONFIGURED%:0x01,0x02, 0x03,
%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 enable registration automatically
%AUTO_DECT_REGISTER%:0x01
```