



optiPoint 410 S V6.0
optiPoint 420 S V6.0

XML Configuration Management

SIEMENS

Global network of innovation

Administrator Manual

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1 Introduction

1.1 Overview and Areas of Use

Apart from the standard features users already expect from phones, what functions are important for the successful operation of a communication solution?

The most important functions are mostly not implemented by the end users themselves. During installation and configuration, however, they form a basis that enables phones to be tailored to user requirements.

This is the decisive factor that shows whether the advantages of IP-based voice services can also be suitably integrated in the overall solution - from the user to the service provider.

IP terminals offer a range of functions and characteristics that were unknown or technically impossible in analog or early digital system environments (for example, ISDN). But increased product flexibility requires more complex technology. For this reason, it is essential that VoIP devices be optimally configured for users while at the same time expenditure (costs, time, training) must be kept to a minimum for service providers.

Different scenarios have different requirements. However the following factors are critical for all solutions:

- Minimum network intervention or modification
- No inflexible or costly preconfiguration at the terminal
- No or minimum (one-off) user activities

There are two main scenarios:

Scenario 1: Communication solutions for medium-size and large businesses

This scenario has the following characteristics:

- A stronger focus on internal communication performance, in other words the company runs key IT components itself. A typical example of this scenario is a Siemens HiPath 8000 real-time communication system installed in a company's data center.
- Medium to large installations (1000 - 10,000 subscribers).
- Trained personnel available (IT, LAN and server operation), company-performed maintenance or partial implementation of Managed Services.

The **Deployment Service Tool** (DLS) is best suited to this scenario. This tool enables optiPoint terminals to be installed as plug-and-play devices and provides a range of high-performance functions:

- Administration of up to 10,000 subscribers

Introduction

Overview and Areas of Use

- Simultaneous access for up to five administrators
- Client/server architecture
- Database
- Job management
- Provision of parameters and software for terminals

For detailed information on this tool, see the **HiPath Deployment Service** Administrator Manual.

Scenario 2: Hosted Office solutions in a carrier/Internet Service Provider (ISP) environment

- Small to medium-size businesses connected to central systems via a WAN or the Internet.
- LAN/WAN interfaces with NAT and firewalls.
- No company-performed maintenance, outsourcing of (voice) communication services.
- Administrative modifications from outside the customer LAN are either not possible (firewalls) or not desired - access to configuration information and software is only required from the terminal.

A configuration procedure that is based on XML files is ideally suited to this scenario.

1.2 About this Manual

This manual is designed to help you get to know and correctly use XML configuration files. Follow these instructions carefully to use the tool as effectively as possible and avoid operating errors.

The following chapters contain information on how to use XML configuration management as well as detailed descriptions on how to configure and control terminals.

- **XML Configuration Management:** This chapter presents the concept and contents of XML files and provides information on initial phone installation.
- **XML Overview:** This chapter describes the structure of an XML file and its elements. It lists available tags and their parameters and provides an example for each case. Tags are sorted on the basis of the Web interface and refer to the entry in the corresponding dialog.
- **WEB Interface:** This chapter contains a graphical presentation of the Web interface with the possible dialogs and corresponding jump labels for the relevant XML parameter description.
- **Sample Configurations:** This chapter contains brief examples of system and device configurations together with corresponding references to parameter descriptions.
- **Index:** This section provides a comprehensive directory for finding terms in the dialogs and XML parameters.

Introduction

About this Manual

2 XML Configuration Management

2.1 Procedure and Workflow

optiPoint SIP phones not only provide a direct interface to a management system (Deployment Service), they also permit configuration tasks that are both system-independent and centralized.

In the course of these tasks, configuration parameters are stored as XML files on a server where they can be retrieved independently by each phone. This results in a "loose" connection between the management system (which places the configuration files on the server) and the phones (which may be located in different WANs or LANs). In other words, a phone usually retrieves the information independently. Downloads are not initiated manually at the phone. Users do not require any knowledge of the LAN structure which means it does not have to be included in technical considerations.

- The phone can access the server (via FTP or HTTPS)
- The phone can download files independently (after startup or periodically)
- Technicians can trigger a download via a menu option (local administration menu or admin Web pages)
- Users can trigger a download indirectly via a restart (by entering the restart sequence on the keypad (- + * 2))
- A management system can trigger a download (SIP NOTIFY message)

If the downloaded configuration files contain information on a new application software version available, the phone automatically downloads the software from the FTP software server.

The two configuration files are as follows:

- the system configuration file which contains identical parameters (for example, the software version or registrar address) for all phones of the same model (for example, optiPoint 410 standard S) and
- the device configuration file which contains parameters for each phone (for example, phone number).

It is also possible to specify that only the device configuration is loaded. This ensures that only phone-specific parameters are modified. System-wide parameters that may have been modified locally on the phone, for example, are not affected.

The configuration download setup is only designed to configure parameters administered by technicians. User parameters are not changed during this procedure. For information on configuration changes, see → page 2-4.

XML Configuration Management

File Formats

If the configuration download setup program is not available, for example, if a configuration update server has not been installed, the phone does not initiate a download. In this case, an alternative procedure must be used for the configuration update.

2.2 File Formats

2.2.1 Configuration Files

Configuration files are stored on the configuration server. There are two kinds of configuration files.

2.2.1.1 System Configuration File

The system configuration file has a unique name for every phone model (for example, op410adv_conf.xml). This file does not contain any phone-specific parameters (see → page 3-2).

2.2.1.2 Device Configuration File

Each device configuration file name contains the MAC address of the corresponding phone (for example, op410adv_conf001E300A9F3.xml). This file only contains phone-specific parameters (see → page 3-2).

2.3 Download

2.3.1 Downloading Configuration Files

Every phone expects a default account named "config" on the FTP server with the password "config" (the plug-and-play settings are also located in the "Configuration management settings" dialog on the phone's Web interface → page 4-25). Once the configuration files have been downloaded, the phone checks the file versions. To do this, it searches for a "system-config-version" tag in the system configuration file and a "device-config-version" tag in the device configuration file.

The phone then compares the system configuration file version with the version in the last download. If the version has changed, the phone executes the write instructions in the system and device configuration files

If the system configuration file version has not changed but the device configuration file version has, the phone only executes the write instructions from the device configuration file. If neither version has changed, the action is terminated.

When downloading configuration files, the phone first downloads the system configuration file and then the device configuration file. Each parameter value in the system configuration file overwrites an existing value. Each parameter value in the device configuration file overwrites existing values and values from the system configuration file.

2.3.2 Periodically Checking Configuration Files

To ensure that it always retrieves modifiable configuration parameters, the phone constantly updates its configuration by activating a configuration server and periodically downloading configuration files (for example, once a day) while logged on to the SIP server.

This is useful in the following two scenarios:

- if the phone's parameters are out of date because it was unable to download configuration files (due to an FTP server overload, for instance), it still has the possibility of downloading all modified new parameters.
- if the phone is in a state that does not support the notification mechanism, for example:
 - the user is conducting a call
 - the administration menu is currently activated
 - the phone's Web interface is currently in use

The periods between configuration file checks can be modified as required.

2.3.3 Automatic Software Download

The device configuration file contains a tag called "dl-ftp-firmware-filename" which contains the file name of the current software version. The phone treats this tag differently to other tags. If the file name in the element is the same as the file name of the current software, the phone skips this tag and continues processing the other tags in the configuration file.

However, if the file names are different, only the FTP download parameters are configured. After this configuration, the phone loads the new software and restarts. The configuration files are reloaded during the restart. The phone now detects that it has the correct software version and continues processing the remaining tags in the configuration file.



Once the download is complete, the optiPoint 410/420 restarts.

2.3.4 Defining Configuration File Parameters in the Phone

Parameter	WEB settings for Configuration Management (menu → page 4-25)
FTP IP Description: → page 2-5	FTP server IP address or DNS name
FTP Port Description: → page 2-5	FTP server port
Pathname Description: → page 2-5	FTP path
Account ID Description: → page 2-5	FTP account name
User Name Description: → page 2-5	FTP username
Password Description: → page 2-5	New FTP password
Https DL Params  → page 4-25	IP address IP address port: File path for URL:
Filename Description: → page 2-5	Configuration file name
File Type Description: → page 2-5	Configuration file type
Periodic Timer Description: → page 2-6	After registration, check for updates every n seconds.
Unregistration Timer Description: → page 2-6	If registration fails, check for updates every n seconds
Authentication Description: → page 2-6	Authentication enabled

2.3.5 Description of Download Parameters

2.3.5.1 Config Update FTP IP

This parameter contains the IP address of the FTP server used for configuration download. The address and port are normally obtained at startup via DHCP (as a "Vendor Specific" extension), or if this fails, via DNS (as a text record linked to the phone's domain name). When it is obtained in this way, the address automatically updates this menu item. If the DHCP or DNS procedures do not provide a valid IP address, the menu item value is used, provided it contains an IP address (in other words, if it is not empty).

The IP address cannot be modified if it has been obtained via DHCP or DNS. For other scenarios, the IP address editor can be accessed by clicking OK. The address can then be changed in this editor. The updated address is used for the next configuration download. The IP address is set during startup if a valid IP address is obtained via DHCP or DNS.

2.3.5.2 Config Update FTP Port

The FTP server port used for configuration download.

2.3.5.3 Config Update Pathname

The path from the FTP server root directory to the directory that contains the configuration files.

2.3.5.4 Config Update Account ID

The name of the FTP user account that contains the configuration files.

2.3.5.5 Config Update User Name

The name of the FTP user with configuration file authorization.

2.3.5.6 Config Update Password

The FTP password used to download configuration files.

2.3.5.7 Config Update Filename

The name of the system configuration file (also used as a template for the device configuration file name).

2.3.5.8 Config Update File Type

File name extension for the system configuration file (also used for the device configuration file).

2.3.5.9 Config Update Periodic Timer

The interval at which the SIP phone automatically checks for configuration file downloads after registration (usually the primary line of a multiline phone). The value "0" deactivates this check.

2.3.5.10 Config Update Unregistration Timer

The interval at which the SIP phone checks for configuration file downloads if it cannot perform registration (any line of a multiline phone).

2.3.5.11 Config Update Authentication

This parameter is only used in a BroadSoft environment. It indicates if digest authentication is required for the check-sync notify message.

2.4 Installation

2.4.1 DHCP is Available

Step 1

In order for it to reach the phone, the FTP, DLS or HTTPS server address must be entered in DHCP option 43.

Tag 03 is used to configure the following:

- the FTP server:
"FTP://[<host-ip-addr>|<host-name>][:port"]"
- the HTTPS server
"https://[base URL of link on Download Web Server]"

Option 43 on the DHCP server in the customer LAN must be modified accordingly before any phone is configured. This must be done once so that no further intervention is required, no matter how many phones need to be installed or require maintenance.

The following step only applies to FTP and HTTPS servers.

Step 2

Generate the XML files and save them to the FTP or HTTPS server. XML files can either be generated manually (for example, if you only want to use the model-specific file and not the phone-specific file) or are generated by the platform management system (for example, BroadSoft).

2.4.1.1 Further Information on Option 43 (DHCP Support)

As there is no DHCP option for exchanging VLAN information via DHCP, the "Vendor Specific Information" option (43) is used to encapsulate VLAN and download information. ¹The following diagram illustrates the format of the "Vendor Specific" option.

Byte #	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Description	Code	Length	Code	Length	Option 1 data - "Siemens" identifier										Code	Length	Option 2 data - to be allocated VID				Padding	Padding	Padding	Padding	Padding	Code
Value	43	20	1	10	'S'	'i'	'e'	'm'	'e'	'n'	's'	0	0	0	2	4	0	0	VID HI	VID LO	0	0	0	0	0	255

Byte 1 contains tag "43", "Option 1 data" contains the "Siemens" identifier. The "VLAN ID" is contained in "Option 2". Five padding bytes (starting at byte 20) and the "Terminate Option 255" tag in byte 25 complete the option frame.

You must enter the server values if you have to specify a configuration download server for the configuration update. You can enter the new option before or after the VLAN information but the five padding bytes (value 0) and the "Terminate Option 255" tag must close the option frame.

Example:

Code: 3

Length: 21

File: ftp://ftp.siemens.com (or https://www.siemens.com, for example)

	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
	Code	Length	Option 1 data - "ftp server address"																					Padding	Padding	Padding	Padding	Padding	Code
	3	21	'f'	't'	'p'	'.'	'/'	'/'	'f'	't'	'p'	'.'	's'	'i'	'e'	'm'	'e'	'n'	's'	'.'	'c'	'o'	'm'	0	0	0	0	0	255

The five padding bytes and the "Terminate Option 255" tag now complete the option frame in byte 48.

1. Data is transferred from the application layer to the transport layer, where it is assigned a TPC or UDP header and split into datagrams. The transport layer forwards the datagrams to the network layer which divides them into packets and assigns them headers.

2.4.2 DHCP is Not Available

You can use a DNS TXT record to transfer the FTP, DLS or HTTPS server address to the phone or you can enter it manually at the terminal.

2.4.2.1 DNS Entry

Step 1

Generate a DNS TXT record with the following parameters:

- for the FTP server
"FTP://[<host-ip-addr>|<host-name>][:port"]"
- for the HTTPS server
"https://[base URL of link on Download Web Server]"

The DNS TXT record is generated in the same domain as the phones. The domain name must be configured in the phone.

The following step only applies to FTP and HTTPS servers.

Step 2

Generate the XML files and save them to the FTP or HTTPS server. XML files can either be generated manually (for example, if you only want to use the model-specific file and not the phone-specific file) or are generated by the platform management system (for example, BroadSoft).

2.4.2.2 Manual

Step 1

Enter the IP address via Web admin or locally at the phone.

Step 2

Generate the XML files and save them to the FTP or HTTPS server. XML files can either be generated manually (for example, if you only want to use the model-specific file and not the phone-specific file) or are generated by the platform management system (for example, BroadSoft).

Step 3

Enter the data required for the configuration download: FTP server, user and password, account and path.

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The default user name and user password in the FTP server account data is "config". The setting is individual and can be modified.

The server, port, and path must be entered for the HTTPS server.

Step 4

The phone attempts to download the XML files either after manual initiation or a restart. A restart may be activated after download, depending on the modified parameters the phone receives.

3 XML Overview

XML files for system and device configuration contain tags (command lines) which can be used to configure one or more optiPoint phones.

3.1 Tag Structure

An XML file is a text file that contains "tags" (command lines) which can be edited using a text editor. XML tags always have the same structure.

A parameter and a value is transferred for optiPoint phones. Each phone function is assigned a parameter which in turn can have one or more values. Some parameters may be interdependent.

Example:

```
<Item name="admin-pwd">123456</item>
```

A tag consists of three parts.

The first part (<Item name="admin-pwd">) specifies which parameters are transferred.

The second part (**123456**) defines the parameter value, in this example the administration password "123456". The third part (</Item>) completes the tag.

Indexed XML tags are the exception as they contain an index in an additional fourth part.

Example:

```
<Item name="function-key-def" Index="5">1</Item>
```

This additional index, for example, specifies the number on the keypad or the value in question (index="5").

3.2 Structure of an XML File

An XML file always has the same structure. It starts with the following tags:

```
<?xml version="1.0" encoding="utf-8" ?>
```

This tag describes the text file language (XML version and encoding).

```
<Message>
```

```
<Action>WriteItems</Action>
```

This tag instructs the phone to process the following tags.

```
<ItemList>
```

This chapter contains a list of other configuration tags that form the main part of the XML file.

```
</ItemList>
```

```
</Message>
```

These tags complete the XML file.

3.2.1 General and Phone-Specific XML Files

Phones load the following two files during every XML upload:

- the general XML file for system-wide configuration.
- the device-specific XML file with settings that apply to specific phone models.

A phone uses the file name and XML header to differentiate between files.

3.2.1.1 File names

The MAC address of the phone is attached to the file name of the device-specific XML file. The first part of the name is generated using the type and version of the phone and suffixed with the attribute "_conf" (op410adv_conf). This procedure ensures that a unique name is generated for every type of phone.

Example: op420adv_conf0001e321bb06.xml

The above example is a device-specific configuration file for an optiPoint 420 advance.

The following table contains a list of default file names:

Model	System configuration	Device configuration
optiPoint 420 advance	op420adv_conf.xml	op420adv_confyyyyyyyyyyyyy.xml
optiPoint 420 default	op420std_conf.xml	op420std_confyyyyyyyyyyy.xml
optiPoint 420 economy plus	op420ecop_conf.xml	op420ecop_confyyyyyyyyyyy.xml
optiPoint 420 economy	op420eco_conf.xml	op420eco_confyyyyyyyyyyy.xml
optiPoint 410 advance	op410adv_conf.xml	op410adv_confyyyyyyyyyyyyy.xml
optiPoint 410 default	op410std_conf.xml	op410std_confyyyyyyyyyyyyy.xml
optiPoint 410 economy plus	op410ecop_conf.xml	op410ecop_confyyyyyyyyyyyyy.xml
optiPoint 410 economy	op410eco_conf.xml	op410eco_confyyyyyyyyyyyyy.xml
optiPoint 410 entry	op410entry_conf.xml	op410entry_confyyyyyyyyyyyyy.xml

"yyyyyyyyyyyyy" represents each phone's MAC address.

3.2.1.2 XML Header

At the start of the item list, you must specify whether the XML file contains a system-wide or device-specific configuration. The header also contains the current file release.

Example of a system-wide configuration: 0001e321bb06

```
<Item name = "system-config-version">2005.09.20 09:54 GMT</Item>
```

Example of a device-specific configuration:

```
<Item name = "device-config-version">2005.09.20 09:54 GMT</Item>
```



Make sure you enter spaces before and after the "=" sign.

3.2.1.3 Implementation in the Phone

The XML file can be provided via an FTP server (non-secure connection) or via a HTTPS connection.

- When using FTP, the IP address, user, password and filename must be entered on the phone.
- When using HTTPS, the IP address or DNS of the URL, port number and path must be entered on the phone.

For both types of synchronization you also need to configure the interval time to resynchronize with the XML file, as well the device filename and extension.

For both procedures, a time interval must be specified in which the synchronization with the XML file as well as with the device file name and file extension should take place.

3.3 Administration Tags

The sequence of tags described in this section is based on the sequence in WBM and its dialogs.

3.3.1 System Tag

Determines whether there is a system-wide or device-specific configuration and whether the file content was modified - in this case via the "Value" field. Every time the content of the "Value" field does not match the previous entry, the phone will read all items in the file. If the content is unchanged, no action is taken.

3.3.1.1 System config

Parameter	system-config-version	Start of system-wide configuration file
Index	–	
Value	2005.09.20 09:54 GMT	Date and time of modification
Example	<Item name = "system-config-version">2005.09.20 09:54 GMT</Item>	
		Make sure you enter spaces before and after the "=" sign.
Notes	Only applies to system-wide configuration - excludes device configuration	

3.3.1.2 Device config

Parameter	device-config-version	Start of device-specific configuration file
Index	–	
Value	2005.09.20 09:54 GMT	Date and time of modification
Example	<Item name = "device-config-version">2005.09.20 09:54 GMT</Item>	
		Make sure you enter spaces before and after the "=" sign.
Notes	Only applies to device-specific configuration - excludes system configuration.	

3.3.2 Network and IP Routing

3.3.2.1 DHCP

Parameter	dhcp	WEB
Index	–	
Value	true, false	true = DHCP Discover false = manual IP address
Example	<Item name="dhcp">false</Item>	DHCP is switched off
Notes	"false": ipaddress, mask, gw-default.	

3.3.2.2 Terminal IP address

Parameter	ipaddress	WEB
Index	–	
Value	192.168.0.1	IP address for the phone. 4 x 8 bit dec. value separated by "."
Example	<Item name="ipaddress">192.168.0.1</Item>	Assigns the phone the IP address: 192.168.0.1.
Notes	dhcp requires: mask, gwdefault	

3.3.2.3 Terminal Mask

Parameter	mask	WEB
Index	–	
Value	255.255.255.0	Network mask 4 x 8 bit dec. value separated by "."
Example	<Item name="mask">255.255.255.0</Item>	Assigns the mask 255.255.255.0
Notes	dhcp, ipaddress, requires: gwdefault	

3.3.2.4 Primary DNS IP address

Parameter	dns-server-addr	WEB
Index	–	
Value	172.16.127.2	IP address of the default DNS server. 4 x 8 bit dec. value separated by "."
Example	<Item name="dns-server-addr">172.16.127.2</Item>	
Notes	DHCP=false	

3.3.2.5 Secondary DSN IP address

Parameter	dns-server-addr2	WEB
Index	–	
Value	172.16.127.3	IP address of the secondary DNS server. 4 x 8 bit dec. value separated by "."
Example	<Item name="dns-server-addr2">172.16.127.3</Item>	
Notes	DHCP=false	

3.3.2.6 Default Route

Parameter	gw-default	WEB
Index	–	
Value	192.168.0.1	IP address
Example	<Item name="gw-default">192.168.0.1</Item>	
Notes	DHCP=false, Ip-addr, mask	

3.3.2.7 Domain Name

Parameter	dns-domain-name	WEB
Index	–	
Value	Sample.net	Domain name
Example	<Item name="dns-domain-name">Sample.net</Item>	
Notes	DHCP=false	

3.3.2.8 Terminal Host name

Parameter	host name	WEB
Index	–	
Value	ABCabc123	Any name
Example	<Item name="Host name">4989722123456</Item>	
Notes	Model and MAC address. Can also be freely assigned.	

3.3.2.9 Route 1

Parameter	route1	WEB
Index	–	
Value	192.168.0.1	IP addr. 4 x 8 bit dec. value separated by ","
Example	<Item name="route1">192.168.0.1</Item>	
Notes		

3.3.2.10 Gateway 1

Parameter	gw1	WEB
Index	–	
Value	192.168.0.1	IP addr. 4 x 8 bit dec. value separated by ","
Example	<Item name="gw1">192.168.0.1</Item>	

XML Overview

Administration Tags

Notes	Route 1
--------------	---------

3.3.2.11 Mask 1

Parameter	mask1	WEB
Index	–	
Value	255.255.255.0	IP addr. 4 x 8 bit dec. value separated by ","
Example	<Item name="mask1">255.255.255.0</Item>	
Notes	Route 1	

3.3.2.12 Route 2

Parameter	route2	WEB
Index	–	
Value	192.168.0.1	IP addr. 4 x 8 bit dec. value separated by ","
Example	<Item name="route2">192.168.0.1</Item>	
Notes		

3.3.2.13 Gateway 2

Parameter	gw2	WEB
Index	–	
Value	192.168.0.1	IP addr. 4 x 8 bit dec. value separated by ","
Example	<Item name="gw2">192.168.0.1</Item>	
Notes	Route 2	

3.3.2.14 Mask 2

Parameter	mask2	WEB
Index	–	

Value	255.255.255.0	IP addr. 4 x 8 bit dec. value separated by ","
Example	<Item name="mask2">255.255.255.0</Item>	
Notes	Route 2	

3.3.3 SIP Environment

3.3.3.1 Phone number

Parameter	e164	WEB
Index	–	
Value	3015553005	Terminal number (numeric)
Example	<Item name="e164">3015553005</Item>	
Notes	reg-addr	

3.3.3.2 Phone name

Parameter	sip-name	WEB
Index	–	
Value	12345abcde	Terminal name (alphanumeric)
Example	<Item name = "sip-name">John Doe</Item>	
Notes	e164	

3.3.3.3 Register by name

Parameter	register-by-name	WEB
Index	–	
Value	true, false	Registration by name (yes or no)
Example	<Item name="register-by-name">>false</Item>	
Notes	If "true" then sip-name, if "false" then e164	

3.3.3.4 Display ID

Parameter	display-id	WEB
Index	–	
Value	Name or number	Individual name or number which appears instead of the login name or login number
Example	<Item name="display-id">Sales Store</Item>	
Notes	The display of the name depends on the settings in "use-display-id".	

Parameter	use-display-id	WEB
Index	–	
Value	true, false	When activated, the display ID is shown instead of the terminal name
Example	<Item name="use-display-id">false</Item>	
Notes	Activates display of the name specified under display ID.	

3.3.3.5 SIP routing

Parameter	sgnl-route	WEB
Index	–	
Value	0, 2	Routing type (0 = server routed, 2 = gateway routed)
Example	<Item name="sgnl-route">0</Item>	
Notes	e164, sip-name	

3.3.3.6 Registrar IP address or DNS name

Parameter	registrar-addr	WEB
Index	–	
Value	192.168.0.1 or DNS name	IP address or domain name for registration
Example	<Item name="registrar-addr">192.168.0.1</Item>	
Notes	e164	

3.3.3.7 Registrar IP Port

Parameter	sip-registrar-port	WEB
Index	–	
Value	0 to 65535	Integer (0 to 65535), default: 5060
Example	<Item name="rsip-registrar-port">5060</Item>	
Notes	registrar-addr	

3.3.3.8 Server IP address or DNS name

Parameter	reg-addr	WEB
Index	–	
Value	192.168.0.1 or DNS name	SIP server IP address or domain name
Example	<Item name="reg-addr">192.168.0.1</Item>	
Notes	e164	

3.3.3.9 Server IP Port

Parameter	sip-server-port	WEB
Index	–	
Value	0 to 65535	Integer; default: 5060
Example	<Item name="sip-server-port">5060</Item>	
Notes	reg-addr	

3.3.3.10 Gateway IP address or DNS name

Parameter	sgnl-gateway-addr	WEB
Index	–	
Value	192.168.0.1 or DNS name	Gateway IP address or domain name
Example	<Item name="sgnl-gateway-addr">0.0.0.0</Item>	
Notes	e164	

3.3.3.11 Gateway IP Port

Parameter	sip-gateway-port	WEB
Index	–	
Value	0 to 65535	Integer; default: 5060
Example	<Item name="sip-gateway-port">5060</Item>	
Notes	sgnl-gateway-addr	

3.3.3.12 SIP Port

Parameter	sip-port	WEB
Index	–	
Value	0 to 65535	Integer; default 5060
Example	<Item name="sip-port">5060</Item>	
Notes	reg-addr, registrar-addr, sgnl-route, if port=0 e164	

3.3.3.13 RTP Base Port

Parameter	rtp-base-port	WEB
Index	–	
Value	0 to 65535	Integer; default: 5004
Example	<Item name="rtp-base-port">5004</Item>	
Notes	e164	

3.3.3.14 Outbound proxy

Parameter	outbound-proxy	WEB
Index	–	
Value	true, false	Boolean, on or off
Example	<Item name="outbound-proxy">true</Item>	
Notes	e164	

3.3.3.15 Default ODP domain name

Parameter	default-domain	WEB
Index	–	
Value	Aabcdefg1234	Default outbound proxy domain (alphanumeric)
Example	<Item name="default-domain">as.broadworks.net</Item>	
Notes	e164	

3.3.3.16 SIP transport

Parameter	sip-transport	WEB
Index	–	
Value	0, 1, 2	Transport protocol 0=UDP 1=TCP 2=TLS
Example	<Item name="sip-transport">0</Item>	
Notes	e164, must be configured in the HiPath 8000 (SMC) Config Portal	

3.3.3.17 SIP server type

Parameter	server-type	WEB
Index	–	
Value	1, 2, 3, 4	SIP server type 1=HiQ8000 2=Broadsoft 3=Sylantro 4=other
Example	<Item name="server-type">2</Item>	
Notes	e164	

3.3.3.18 SIP session timer enabled

Parameter	session-timer	WEB
Index	–	
Value	true, false	Session timer on or off
Example	<Item name="session-timer">>false</Item>	
Notes	e164	

3.3.3.19 SIP session timer value

Parameter	session-duration	WEB
Index	–	
Value	1 to 3600	Session duration in seconds; default: 3600
Example	<Item name="session-duration">3600</Item>	
Notes	e164	

3.3.3.20 Registration timer value

Parameter	reg-ttl	WEB
Index	–	
Value	1 to 3600	Registration time (in seconds) before reregistration is necessary; default: 3600
Example	<Item name="regttl">3600</Item>	
Notes	e164	

3.3.3.21 SIP realm

Parameter	realm	WEB
Index	–	
Value	ABCDabcd1234	String (max. 93; Alphanumeric)
Example	<Item name="realm">as.broadworks.net</Item>	
Notes	e164	

3.3.3.22 SIP user ID

Parameter	sip-user-id	WEB
Index	–	
Value	AaBbCc12345	SIP user ID (alphanumeric)
Example	<Item name="sip-user-id">user</Item>	
Notes	e164	

3.3.3.23 New SIP password

Parameter	sip-pwd	WEB
Index	–	
Value	AaBbCc12345	SIP password (alphanumeric)
Example	<Item name="sip-pwd">password</Item>	
Notes		

3.3.3.24 Message Waiting IP address or DNS name

Parameter	mwi-e164	WEB
Index	–	
Value	0.0.0.0	IP address
Example	<Item name="mwi-e164">192.186.1.148</Item>	
Notes		

3.3.3.25 Emergency number

Parameter	emergency-e164	WEB
Index	–	
Value	12345678910	Emergency number (numeric)
Example	<Item name="emergency-e164">911</Item>	
Notes		

3.3.3.26 Voicemail number

Parameter	voice-mail-e164	WEB
Index	–	
Value	12345678910	Message system number (numeric)
Example	<Item name="voice-mail-e164">3020</Item>	
Notes		

3.3.3.27 System description Branding/Identity name

Parameter	system-description	WEB
Index	–	
Value	ABcdef12345	System description up to 24 characters long (for four-line display)
Example	<Item name="system-description">optiPoint 420 advance</Item>	
Notes		

3.3.4 SIP features

3.3.4.1 Auto answer

Parameter	auto-answer	WEB
Index	–	
Value	true, false	Boolean, on or off
Example	<Item name="auto-answer">false</Item>	
Notes		

3.3.4.2 Beep on auto answer

Parameter	beep-on-auto-answer	WEB
Index	–	
Value	true, false	Boolean, on or off
Example	<Item name="beep-on-auto-answer">false</Item>	
Notes		

3.3.4.3 Auto reconnect

Parameter	auto-reconnect	WEB
Index	–	
Value	true, false	Boolean, on or off
Example	<Item name="auto-reconnect">false</Item>	
Notes		

3.3.4.4 Beep on auto reconnect

Parameter	beep-on-auto-reconnect	WEB
Index	–	
Value	true, false	Boolean, on or off
Example	<Item name="beep-on-auto-reconnect">false</Item>	
Notes		

3.3.4.5 Refuse call feature enabled

Parameter	permit-decline-call	WEB
Index	–	
Value	true, false	Boolean, on or off
Example	<Item name="permit-decline-call">false</Item>	
Notes		

3.3.4.6 Allow Transfer on ringing

Parameter	transfer-on-ring	WEB
Index	–	
Value	true, false	Boolean, on or off
Example	<Item name="transfer-on-ring">true</Item>	
Notes		

3.3.4.7 Allow Join in conference

Parameter	join-allowed-in-conference	WEB
Index	–	
Value	true, false	Boolean, on or off
Example	<Item name="join-allowed-in-conference">true</Item>	
Notes	Conference must be supported on this phone	

3.3.4.8 Group pickup URI

Parameter	pickup-group-uri	WEB
Index	–	
Value	group@newserver.de	Alphanumeric address (URI)
Example	<Item name="pickup-group-uri">group@newserver.de</Item>	
Notes		

3.3.4.9 Hot line/warm line – phone type

Parameter	hot-line-warm-line	WEB
Index	–	
Value	1, 2, 3	Integer, 1=Off, 2=Hot, 3=Warm
Example	<Item name="hot-line-warm-line">1</Item>	
Notes	SIP URI	

3.3.4.10 Hot line/warm line – Default dial string

Parameter	hot-line-worm-line-digits	WEB
Index	–	
Value	123456789	Phone number during configuration – - and warm line (numeric)
Example	<Item name="hot-line-worm-line-digits">9760</Item>	
Notes	Dialed if hot or warm line is activated	

3.3.4.11 initial-digit-timer

Parameter	initial-digit-timer	WEB
Index	–	
Value	1 to 120	Time in seconds until the first digit must be entered after the dial tone. is also used as a timer for a "warm line". (numeric
Example	<Item name="initial-digit-timer">15</Item>	
Notes	Hot line/warm line	

3.3.4.12 Conference server URI

Parameter	Conference-factory-uri	WEB
Index	–	
Value	URI	<conf@<SIP Server IP> (e.g. conf@172.16.127.95 or domain name)
Example	<item name="conference-factory-uri">uri</item>	
Notes	e164	

3.3.4.13 Callback – busy URI (only HiPath 8000)

Parameter	callback-busy-code	WEB
Index	–	
Value	URI	<conf@<SIP Server IP> (e.g. conf@172.16.127.95 or domain name) HiPath 8000 command for Callback on Busy
Example	<item name="callback-busy-code:">uri</item>	
Notes	Must be set up in HiPath 8000	

3.3.4.14 Callback – no reply URI (only HiPath 8000)

Parameter	callback-ring-code	WEB
------------------	--------------------	-----

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Index	–	
Value	URI	<conf@<SIP Server IP> (e.g. conf@172.16.127.95 or domain name) HiPath 8000 command for Callback on No Reply – not possible at this time
Example	<item name="callback-ring-code:">uri</item>	
Notes	Must be set up in HiPath 8000	

callback-ring-code

3.3.4.15 Cancel callbacks URI (only HiPath 8000)

Parameter	callback-cancel-code	WEB
Index	–	
Value	URI	<conf@<SIP Server IP> (e.g. conf@172.16.127.95 or domain name) HiPath 8000 command to delete all callbacks
Example	<item name="callback-cancel-code:">uri</item>	
Notes	Must be set up in HiPath 8000	

3.3.4.16 Call park URI

Parameter	park-server	WEB
Index	–	
Value	URI	<callpark@<SIP Server IP> (e.g. callpark@172.16.127.95 or domain name)
Example	<item name="park-server"> uri</item>	
Notes	e164	

3.3.4.17 Call pickup URI

Parameter	pickup-group-uri	WEB
Index	–	
Value		<pickup@<SIP Server IP> (e.g. pickup@172.16.127.95 or domain name)
Example	< >	
Notes	e164	

3.3.5 Quality of service

3.3.5.1 Layer 2

Parameter	qos-layer2	WEB
Index	–	
Value	true, false	Boolean, on or off
Example	<Item name="qos-layer2">false</Item>	
Notes		

3.3.5.2 Layer 2 voice

Parameter	l2qos-voice	WEB
Index	–	
Value	0 to 7	Integer (0 to 7);
Example	<Item name="l2qos-voice">5</Item>	
Notes	Qos-layer2= true	

3.3.5.3 Layer 2 signalling

Parameter	l2qos-signalling	WEB
Index	–	
Value	0 to 7	Integer (0 to 7);
Example	<Item name="l2qos-signalling">3</Item>	
Notes	Qos-layer2= true	

3.3.5.4 Layer 2 default

Parameter	l2qos-default	WEB
Index	–	
Value	0 to 7	Integer (0 to 7);
Example	<Item name="l2qos-default">0</Item>	
Notes	Qos-layer2= true	

3.3.5.5 Layer 3

Parameter	qos-layer3	WEB
Index	–	
Value	true, false	Boolean, on or off
Example	<Item name="qos-layer2">false</Item>	
Notes		

3.3.5.6 Layer 3 voice

Parameter	l3qos-voice	WEB
Index	–	
Value	0 to 63	Integer (0 to 63);
Example	<Item name="l2qos-voice">46</Item>	
Notes	Qos-layer3= true	

3.3.5.7 Layer 3 signalling

Parameter	l3qos-signalling	WEB
Index	–	
Value	0 to 63	Integer (0 to 63);
Example	<Item name="l2qos-signalling">26</Item>	
Notes	Qos-layer3= true	

3.3.5.8 VLAN Discovery

Parameter	vlan-method	WEB
Index	–	
Value	0, 1	Enumerated (0=Manual, 1=DHCP)
Example	<Item name="vlan-method">0</Item>	
Notes		

3.3.5.9 Manual VLAN id

Parameter	vlan-id	WEB
Index	–	
Value	0 to 4095	Integer
Example	<Item name="vlan-id">1234</Item>	
Notes	Vlan-methode = 0	

3.3.6 File transfer and phone Download settings

3.3.6.1 FTP Server Address

Parameter	dl-ftp-addr	WEB
Index	–	
Value	0.0.0.0	FTP server IP address
Example	<Item name=="dl-ftp-addr">172.16.127.3</Item>	
Notes		

3.3.6.2 FTP account name

Parameter	dl-ftp-account	WEB
Index	–	
Value	AaBbcdef12345	Account, if necessary (alphanumeric)
Example	<Item name="dl-ftp-account">downloads</Item>	
Notes	ftp-addr ≠ 0.0.0.0	

3.3.6.3 FTP Username

Parameter	dl-ftp-Username	WEB
Index	–	
Value	AaBbcdef12345	User name, if necessary (alphanumeric)
Example	<Item name="dl-ftp-username">anonymous</Item>	
Notes	ftp-addr ≠ 0.0.0.0	

3.3.6.4 New FTP password

Parameter	dl-ftp-password	WEB
Index	–	
Value	AaBbcdef12345	User password, if necessary (alphanumeric)
Example	<Item name="dl-ftp-password">123456</Item>	
Notes	ftp-addr ≠ 0.0.0.0	

3.3.6.5 FTP path

Parameter	dl-ftp-path	WEB
Index	–	
Value	AaBbcdef12345	Path where the files are stored (alphanumeric)
Example	<Item name="dl-ftp-path">v4.1.53/420 advance/</Item>	
Notes	ftp-addr ≠ 0.0.0.0	

3.3.6.6 Application filename

Parameter	dl-ftp-firmware-filename	WEB
Index	–	
Value	AaBbcdef12345	Name of the application software file (alphanumeric)
Example	<Item name="dl-ftp-firmware-filename">420adv_SIP_4_1_53.app/</Item>	
Notes	ftp-addr ≠ 0.0.0.0	

3.3.6.7 Configuration filename

Parameter	ftp-config-file	WEB
Index	–	
Value	AaBbcdef12345	Configuration file name (alphanumeric)
Example	<Item name="ftp-config-file">opti420c/</Item>	
Notes	ftp-addr ≠ 0.0.0.0	Download starts when a new file name is found

3.3.6.8 Hold music filename

Parameter	dl-ftp-moh-filename	WEB
Index	–	
Value	AaBbcdef12345	Name of hold music file (alphanumeric)
Example	<Item name="dl-ftp-moh-filename">opti420.moh/</Item>	
Notes	ftp-addr ≠ 0.0.0.0	Download starts when a new file name is found

3.3.6.9 Logo filename

Parameter	dl-ftp-logo-filename	WEB
Index	–	
Value	AaBbcdef12345	Name of the graphics file for the optiPoint display module logo (alphanumeric)
Example	<Item name="dl-ftp-logo-filename">logo.bmp/</Item>	
Notes	ftp-addr ≠ 0.0.0.0	Download starts when a new file name is found

3.3.6.10 Java Program filename

Parameter	dl-ftp-java-applet-filename	WEB
Index	–	
Value	AaBbcdef12345	Java application file name for the optiPoint display module (alphanumeric)
Example	<Item name="dl-ftp-java-applet-filename">SpeedDialApplet.jad</Item>	
Notes	ftp-addr ≠ 0.0.0.0	Download starts when a new file name is found

3.3.6.11 LDAP template filename

Parameter	dl-ftp-ldap-filename	WEB
Index	–	
Value	AaBbcdef12345	File name of a corporate phone book template for the optiPoint display module (alphanumeric)
Example	<Item name="dl-ftp-ldap-filename">template.txt</Item>	
Notes	ftp-addr ≠ 0.0.0.0	Download starts when a new file name is found

3.3.6.12 DSM firmware filename

Parameter	dl-ftp-dsm-filename	WEB
Index	–	
Value	AaBbcdef12345	Firmware file name for the optiPoint display module (alphanumeric)
Example	<Item name="dl-ftp-dsm-filename">dsmappl</Item>	
Notes	ftp-addr ≠ 0.0.0.0	Download starts when a new file name is found

3.3.7 Time and Date

3.3.7.1 SNTP server IP address

Parameter	sntp-addr	WEB
Index	–	
Value	0.0.0.0	SNTP server IP address or DNS name
Example	<Item name="sntp-addr">172.16.127.2</Item>	
Notes	DHCP = false	

3.3.7.2 SNTP server name

Parameter	sntp-server-name	WEB
Index	–	
Value	AaBbcdef12345	Host Name
Example	<Item name="sntp-server-name">sntpserver</Item>	
Notes	DNS Server	

3.3.7.3 Timezone offset (hours)

Parameter	sntp-tz-offset	WEB
Index	–	
Value	-12 to +12	Time offset in relation to CET; integer; Integer
Example	<Item name="sntp-tz-offset">1</Item>	
Notes	sntp-addr	

3.3.7.4 Daylight saving

Parameter	daylight-save	WEB
Index	–	
Value	true, false	Daylight saving on or off
Example	<Item name="daylight-save">true</Item>	
Notes	DHCP = false	

3.3.7.5 Local Time and Date

Parameter	time	WEB
Index	–	
Value	1 to n	Integer; x + n (seconds)
Example	<Item name="time">196000</Item>	
Notes	DHCP = false	

3.3.8 SNMP

3.3.8.1 Management Center Address (IP)

Parameter	snmp-trap-addr	WEB
Index	–	
Value	0.0.0.0	IP address or DNS name
Example	<Item name="snmp-trap-addr">172.16.127.2</Item>	
Notes		

3.3.8.2 Management Center Address (name)

Parameter	snmp-trap-sink-name	WEB
Index	–	
Value	AaBbcdef12345	Alphanumeric
Example	<Item name="snmp-trap-sink-name">management-center</Item>	
Notes		

3.3.8.3 Management Center Port

Parameter	snmp-trap-port	WEB
Index	–	
Value	0 to 65535	Port address; – must be a number; Integer
Example	<Item name="snmp-trap-port">162</Item>	
Notes		

3.3.8.4 Send Generic Traps to Management Center

Parameter	snmp-traps-active	WEB
Index	–	
Value	true, false	Option on or off
Example	<Item name="snmp-traps-active">true</Item>	
Notes		

3.3.8.5 Send QDC Traps to Management Center

Parameter	qdc-snmp-active	WEB
Index	–	
Value	true, false	Option on or off
Example	<Item name="qdc-snmp-active">true</Item>	
Notes		

3.3.8.6 New Query password

Parameter	snmp-pwd	WEB
Index	–	
Value	AaBbcdef12345	Alphanumeric
Example	<Item name="snmp-pwd">123467</item>	
Notes		

3.3.8.7 Queries Allowed

Parameter	snmp-queries-allowed	WEB
Index	–	
Value	true, false	Option on or off
Example	<Item name="snmp-queries-allowed">true</Item>	
Notes	snmp-addr	

3.3.9 Speech

3.3.9.1 Codec

Parameter	audio-compression	WEB
Index	–	
Value	0 to 1	Integer 0=G723 1=G729
Example	<Item name="audio-compression">2</Item>	
Notes		

3.3.9.2 Audio mode

Parameter	audio-mode	WEB
Index	–	
Value	0 to 5	0=High Quality Preferred 1=Low Bandwidth Preferred 2=Low Bandwidth only 3=G711 Preferred 4=G723 Preferred 5=G723 Always
Example	<Item name="audio-mode">1</Item>	
Notes		

3.3.9.3 RTP packet size

Parameter	audio-pkt-size	WEB
Index	–	
Value	0 to 3	Integer 0=10ms 1=20ms 2=Automatic 3=30ms (only for WLAN)
Example	<Item name="audio-pkt-size">3</Item>	
Notes		

3.3.9.4 G.711 Silence Suppression

Parameter	audio-silence-suppression	WEB
Index	–	
Value	true, false	Silence suppression on or off
Example	<Item name="audio-silence-suppression">>false</Item>	
Notes		

3.3.9.5 G.711 Microphone Disable

Parameter	mic_disable	WEB
Index	–	
Value	true, false	Silence suppression on or off
Example	<Item name="mic_disable">false</Item>	
Notes	Phone can be used in handsfree mode	

3.3.10 Ringer Settings

Parameter	alert	WEB
Index	1 to 15	Alert indication
Value	URI^0 to 8^1 to 3^1 to 60	Ringer settings alert type^melody^tone^duration
Example	<Item name="alert" Index="1">http://127.0.0.1/Bellcore-dr2^7^3^60</Item>	
Notes		

3.3.11 LAN Port Settings

3.3.11.1 LAN port 1 (LAN)

Parameter	port1	WEB
Index	–	
Value	0, 1, 2, 3, 4	Specifies the LAN port's operating mode; 0=Automatic 1=10Mb/s Half duplex 2=10Mb/s Full duplex 3=100Mb/s Half duplex 4=100Mb/s Full duplex
Example	<Item name="port1">0</Item>	
Notes		

3.3.11.2 LAN port 2 (PC)

Parameter	port2	WEB
Index	–	
Value	0, 1, 2, 3, 4	Specifies the LAN port's operating mode; 0=Automatic 1=10Mb/s Half duplex 2=10Mb/s Full duplex 3=100Mb/s Half duplex 4=100Mb/s Full duplex
Example	<Item name="port2">0</item>	
Notes		

3.3.12 Multiline Operations

3.3.12.1 Originating line preference

Parameter	originating-line-preference	WEB
Index	–	
Value	0, 1, 2, 3	Integer 0=Idle line preference 1=Prime line preference 2=Last line preference 3=No preference
Example	<Item name="originating-line-preference">0</Item>	
Notes		

0=idle1=Primary2=Last3=None

3.3.12.2 Terminating line preference

Parameter	terminating-line-preference	WEB
Index	–	
Value	0, 1, 2, 3, 4	Integer 0=Ring line preference 1=Ring line preference PLP, 2=Incoming line preference 3=Incoming line preference PLP, 4=No preference
Example	<Item name="terminating-line-preference">0</Item>	
Notes		

3.3.12.3 Line key operation mode

Parameter	line-key-action-mode	WEB
Index	–	
Value	0, 1	Integer 0=Hold 1=Release
Example	<Item name="line-key-action-mode">0</Item>	
Notes		

3.3.12.4 Rollover type

Parameter	line-rollover-type	WEB
Index	–	
Value	0, 1, 2, 3	Integer; Default=3 0 = No Ring 1 = Alert Ring 2 = default 3 = Alert Beep
Example	<Item name="line-rollover-type">3</Item>	
Notes		

3.3.12.5 Rollover volume

Parameter	line-rollover-volume	WEB
Index	–	
Value	1 to 5	Integer
Example	<Item name="line-rollover-volume">2</Item>	
Notes		

3.3.12.6 Registration LEDs

Parameter	line-registration-leds	WEB
Index	–	
Value	true, false	Boolean, on or off
Example	<Item name="line-registration-leds">true</Item>	
Notes		

3.3.12.7 Show focus

Parameter	keyset-use-focus	WEB
Index	–	
Value	true, false	Boolean, on or off
Example	<Item name="keyset-use-focus">true</Item>	
Notes		

3.3.12.8 Use LED to indicate Remote Forwarding

Parameter	keyset-remote-forward-ind	WEB
Index	–	
Value	true, false	Boolean, on or off
Example	<Item name="keyset-remote-forward-ind">true</Item>	
Notes		

3.3.12.9 Reservation timer

Parameter	keyset-reservation-timer	WEB
Index	–	
Value	0 to 300	Integer; Default=60
Example	<Item name="keyset-reservation-timer">60</Item>	
Notes		

3.3.13 Phone function key assignments

3.3.13.1 Assigning a Function to a Key (1st key level or normal function key)

This section applies to the following devices:

- optiPoint 410/420 advance, economy, economy plus, standard, entry
- optiPoint key module 1
- optiPoint key module 2
- optiPoint self labeling key module 1
- optiPoint self labeling key module 2

Refer to the relevant operating manual for information on the number of keys and functions available for individual phone modules. This description is based on the maximum number of keys available for an optiPoint 410 advance.

Parameter	function-key-def	WEB
Index	1 to 19	Normal function keys 1 to 19 optiPoint 410 advance
Index	101 to 116	Normal function keys 1 to 16 key module 1
Index	201 to 216	Normal function keys 1 to 16 key module 2
Index	301 to 313	Normal function keys 1 to 13 self labeling key module 1
Index	401 to 413	Normal function keys 1 to 13 self labeling key module 2

Value	1 to 25, 29 to 32, 41 to 51	0=Clear definition 1=Selected dialing 2=Abbreviated dialing 3=Repeat dialing 4=Missed calls 5=Voice messages 6=Forwarding 7=Loudspeaker 8=Mute 9=Ringer off 10=Hold 11=Alternate 12=Transfer call 13=Join 14=Deflect 15=Setup menu 16=Room echoing 17=Room muffled 18=Shift 19=Notebook 20=Settings 21=Phone lock 22=Conference 23=Local Conference 24=Headset 25=Do not disturb 29=Group pickup 30=Repertory dial 31=Line 32=Feature Toggle 41=Swap screen 42=Mobility 44=Call park 45=Call pickup 46=Quit 47=Ok Confirm 48=Callback Request 49=Cancel Callback 50=Consultation Transfer 51=DSS
Example	<Item Index="1" name="function-key-def">7</Item>	
Notes		

3.3.13.2 Assigning a Function to a Key (2nd key level or shifted function key)

This section applies to the following devices:

- optiPoint 410/420 advance, economy, economy plus, standard, entry
- optiPoint key module 1
- optiPoint key module 2
- optiPoint self labeling key module 1
- optiPoint self labeling key module 2

Refer to the relevant operating manual for information on the number of keys and functions available for individual phone modules. This description is based on the maximum number of keys available for an optiPoint 410 advance.

Parameter	function-key-def	WEB
Index	1001 to 1018	Shifted function keys 1 to 18 optiPoint 410 advance (shift already hard coded)
Index	1101 to 1116	Shifted function keys 1 to 16 key module 1
Index	1201 to 1216	Shifted function keys 1 to 16 key module 2
Index	1301 to 1313	Shifted function keys 1 to 13 self labeling key module 1
Index	1401 to 1413	Shifted function keys 1 to 13 self labeling key module 2
Value	1, 2, 31, 34, 35	0=Clear definition 1=Selected dialling 30=Repertory dial 44=Call park 45=Call pickup 49=Cancel Callback
Example	<Item name="function-key-def" Index="1005">1</Item>	
Notes		

3.3.13.3 Key label

Parameter	key-label	WEB
Index	1 to 18 and 1001 to 1018	Normal and shifted function keys 1 to 18, optiPoint 420
Index	300 to 312 or 1301 to 1313	Normal and shifted function keys 1 to 13 on self labeling key module 1
Index	400 to 412 or 1401 to 1413	Normal and shifted function keys 1 to 13 on self labeling key module 2
Value	AaBb12345	Description (alphanumeric)
Example	<Item name="key-label" Index="5">Phone3 3019</Item>	
Notes	Only possible if the optiPoint 420 or optiPoint self labeling key module key is configured	

3.3.13.4 Select dialling – Dial string

Parameter	select-dial	WEB
Index	1 to 18 and 1001 to 1018	Normal and shifted function keys 1 to 18, optiPoint 410 advance (shift to normal function key already hard coded)
Index	101 to 116 and 1101 to 1116	Normal and shifted function keys 1 to 16 on key module 1
Index	201 to 216 and 1201 to 1216	Normal and shifted function keys 1 to 16 on key module 2
Index	300 to 312 and 1301 to 1313	Normal and shifted function keys 1 to 13 on self labeling key module 1
Index	400 to 412 and 1401 to 1413	Normal and shifted function keys 1 to 13 on self labeling key module 2
Value	AaBb12345	Target URI (alphanumeric)
Example	<Item name="select-dial" Index="1005">12345</Item>	
Notes	Only possible if the key has been configured with "selected dialing"	

3.3.13.5 Repertory dial – Dial string

Parameter	repertory-dial	WEB
Index	1 to 18 and 1001 to 1018	Normal and shifted function keys 1 to 18, optiPoint 410 advance (shift to normal function key already hard coded)
Index	101 to 116 and 1101 to 1116	Normal and shifted function keys 1 to 16 on key module 1
Index	201 to 216 and 1201 to 1216	Normal and shifted function keys 1 to 16 on key module 2
Index	300 to 312 and 1301 to 1313	Normal and shifted function keys 1 to 13 on self labeling key module 1
Index	400 to 412 and 1401 to 1413	Normal and shifted function keys 1 to 13 on self labeling key module 2
Value	<\$T>, <\$Q>, <\$R>, <\$S> AaBbc12345	Dial string, URI with the following special characters: <\$S>=Confirm <\$Q>=Clear <\$R>=Consult <\$T>=Pause (alphanumeric Characters such as < or > must be replaced with: < for < > for >
Example	<Item name="repertory-dial" Index="1004"><\$T>12345</Item>	
Notes	Only possible if the key has been configured with "Repertory dial"	

3.3.13.6 Phone lock – Dial string

Parameter	lock-forwarding	WEB
Index	1 to 18	Normal function keys 1 to 18, opti-Point 410 advance
Index	101 to 116	Normal function keys 1 to 16, key module 1
Index	201 to 216	Normal function keys 1 to 16, key module 2
Index	301 to 313	Normal function keys 1 to 13, self labeling key module 1
Index	401 to 413	Normal function keys 1 to 13, self labeling key module 2
Value	AaBb12345	Target URI (alphanumeric)
Example	<Item name="lock-forwarding" Index="1005">12345</Item>	
Notes	Only possible if the key has already been configured with "phone lock"	

3.3.13.7 Feature toggle – Feature Code

Parameter	feature-toggle-code	WEB
Index	1 to 18	Normal function keys 1 to 18, opti-Point 410 advance (only possible for normal function keys)
Value	*96	Access code for "stop hunt" and "make line busy" in HiPath 8000
Example	<Item name="feature-toggle-code:" Index="1004">*96</Item>	
Notes	Only possible if the key has been configured with "Feature toggle"	

3.3.13.8 Feature toggle – description

Parameter	feature-toggle-desc	WEB
Index	1 to 18	Normal function keys 1 to 18, opti-Point 410 advance (only possible for normal function keys)
Value	AaBbC1234545	Alphanumeric
Example	<Item name="feature-toggle-desc" Index="1004">make line busy</Item>	
Notes	Only possible if the key has been configured with "Feature toggle"	

3.3.13.9 Line – Primary line

Parameter	line-primary	WEB
Index	1 to 18	Normal function keys 1 to 18, opti-Point 410 advance
Index	101 to 116	Normal function keys 1 to 16, key module 1
Index	201 to 216	Normal function keys 1 to 16, key module 2
Index	301 to 313	Normal function keys 1 to 13, self labeling key module 1
Index	401 to 413	Normal function keys 1 to 13, self labeling key module 2
Value	true, false	Set primary line flag (true or false)
Example	<Item name="line-primary" Index="6">true</Item>	
Notes	Only possible if the key has been configured with "line"	

3.3.13.10 Line – Ring

Parameter	line-ring	WEB
Index	1 to 18	Normal function keys 1 to 18, opti-Point 410 advance
Index	101 to 116	Normal function keys 1 to 16, key module 1
Index	201 to 216	Normal function keys 1 to 16, key module 2
Index	301 to 313	Normal function keys 1 to 13, self labeling key module 1
Index	401 to 413	Normal function keys 1 to 13, self labeling key module 2
Value	true, false	Line rings when called
Example	<Item name="line-ring" Index="6">true</Item>	
Notes	Only possible if the key has been configured with "line"	

3.3.13.11 Line – Hunt ranking

Parameter	line-hunt-sequence	WEB
Index	1 to 18	Normal function keys 1 to 18, opti-Point 410 advance
Index	101 to 116	Normal function keys 1 to 16, key module 1
Index	201 to 216	Normal function keys 1 to 16, key module 2
Index	301 to 313	Normal function keys 1 to 13, self labeling key module 1
Index	401 to 413	Normal function keys 1 to 13, self labeling key module 2
Value	0 to 10	Automatic line hunt sequence (0 = no selection)
Example	<Item name="line-hunt-sequence" Index="6">1</Item>	
Notes	Only possible if the key has been configured with "line"	

3.3.13.12 Line – Address of record

Parameter	line-sip-uri	WEB
Index	1 to 18	Normal function keys 1 to 18, opti-Point 410 advance
Index	101 to 116	Normal function keys 1 to 16, key module 1
Index	201 to 216	Normal function keys 1 to 16, key module 2
Index	301 to 313	Normal function keys 1 to 13, self labeling key module 1
Index	401 to 413	Normal function keys 1 to 13, self labeling key module 2
Value	AaBbcde123456	AoR (Address of Record) e.g. phone number (alphanumeric)
Example	<Item name="line-sip-uri" Index="6">3015553009</Item>	
Notes	Only possible if the key has been configured with "line"	

3.3.13.13 Line – Realm

Parameter	line-sip-realm	WEB
Index	1 to 18	Normal function keys 1 to 18, opti-Point 410 advance
Index	101 to 116	Normal function keys 1 to 16, key module 1
Index	201 to 216	Normal function keys 1 to 16, key module 2
Index	301 to 313	Normal function keys 1 to 13, self labeling key module 1
Index	401 to 413	Normal function keys 1 to 13, self labeling key module 2
Value	AaBbcde123456	SIP registration (alphanumeric)
Example	<Item name="line-sip-realm" Index="6">as.broadworks.net</Item>	
Notes	Only possible if the key has been configured with "line"	

3.3.13.14 Line – User ID

Parameter	line-sip-user-id	WEB
Index	1 to 18	Normal function keys 1 to 18, opti-Point 410 advance
Index	101 to 116	Normal function keys 1 to 16, key module 1
Index	201 to 216	Normal function keys 1 to 16, key module 2
Index	301 to 313	Normal function keys 1 to 13, self labeling key module 1
Index	401 to 413	Normal function keys 1 to 13, self labeling key module 2
Value	AaBbcde123456	SIP user ID (alphanumeric)
Example	<Item name="line-sip-user-id" Index="6">3015553009</Item>	
Notes	Only possible if the key has been configured with "line"	

3.3.13.15 Line – Password

Parameter	line-sip-pwd	WEB
Index	1 to 18	Normal function keys 1 to 18, opti-Point 410 advance
Index	101 to 116	Normal function keys 1 to 16, key module 1
Index	201 to 216	Normal function keys 1 to 16, key module 2
Index	301 to 313	Normal function keys 1 to 13, self labeling key module 1
Index	401 to 413	Normal function keys 1 to 13, self labeling key module 2
Value	AaBbcde123456	SIP password (alphanumeric)
Example	<Item name="line-sip-pwd" Index="6">0dskmwefd</Item>	
Notes	Only possible if the key has been configured with "line"	

3.3.13.16 Line – Shared type

Parameter	line-shared-type	WEB
Index	1 to 18	Normal function keys 1 to 18, opti-Point 410 advance
Index	101 to 116	Normal function keys 1 to 16, key module 1
Index	201 to 216	Normal function keys 1 to 16, key module 2
Index	301 to 313	Normal function keys 1 to 13, self labeling key module 1
Index	401 to 413	Normal function keys 1 to 13, self labeling key module 2
Value	0, 1, 2	Multiline type (0 = shared, 1 = private, 2 = unknown); Integer
Example	<Item name="line-shared-type" Index="6">0</Item>	
Notes	Only possible if the key has been configured with "line"	

3.3.13.17 Line – Hot line

Parameter	line-hld-active	WEB
Index	1 to 18	Normal function keys 1 to 18, opti-Point 410 advance
Index	101 to 116	Normal function keys 1 to 16, key module 1
Index	201 to 216	Normal function keys 1 to 16, key module 2
Index	301 to 313	Normal function keys 1 to 13, self labeling key module 1
Index	401 to 413	Normal function keys 1 to 13, self labeling key module 2
Value	true, false	Hot-Line on or off
Example	<Item name="line-hld-active" Index="6">true</Item>	
Notes	Only possible if the key has been configured with "line"	

3.3.13.18 Line – Hot line dial string

Parameter	line-hld	WEB
Index	1 to 18	Normal function keys 1 to 18, opti-Point 410 advance
Index	101 to 116	Normal function keys 1 to 16, key module 1
Index	201 to 216	Normal function keys 1 to 16, key module 2
Index	301 to 313	Normal function keys 1 to 13, self labeling key module 1
Index	401 to 413	Normal function keys 1 to 13, self labeling key module 2
Value	AaBbcde123456	Target phone URI for hot line (alphanumeric)
Example	<Item name="line-hld" Index="6">123456789</Item>	
Notes	Only possible if the key has been configured with "line"	

3.3.13.19 Line – Intrusion allowed

Parameter	line-int-allow	WEB
Index	1 to 18	Normal function keys 1 to 18, opti-Point 410 advance
Index	101 to 116	Normal function keys 1 to 16, key module 1
Index	201 to 216	Normal function keys 1 to 16, key module 2
Index	301 to 313	Normal function keys 1 to 13, self labeling key module 1
Index	401 to 413	Normal function keys 1 to 13, self labeling key module 2
Value	true, false	Show secondary or group conversation on or off
Example	<Item name="line-int-allow" Index="6">true</Item>	
Notes	Only possible if the key has been configured with "line"	

3.3.13.20 Line – Short description

Parameter	line-short-desc	WEB
Index	1 to 18	Normal function keys 1 to 18, optiPoint 410 advance
Index	101 to 116	Normal function keys 1 to 16, key module 1
Index	201 to 216	Normal function keys 1 to 16, key module 2
Index	301 to 313	Normal function keys 1 to 13, self labeling key module 1
Index	401 to 413	Normal function keys 1 to 13, self labeling key module 2
Value	AaBbcde123456	Brief description of the optiPoint display module (alphanumeric)
Example	<Item name="line-short-desc" index="6">Primary line</Item>	
Notes	Only possible if the key has been configured with "line"	

3.3.13.21 Line – Overview position on DSM

Parameter	line-mlo-pos	WEB
Index	1 to 18	Normal function keys 1 to 18, optiPoint 410 advance
Index	101 to 116	Normal function keys 1 to 16, key module 1
Index	201 to 216	Normal function keys 1 to 16, key module 2
Index	301 to 313	Normal function keys 1 to 13, self labeling key module 1
Index	401 to 413	Normal function keys 1 to 13, self labeling key module 2
Value	1	Position of line in the optiPoint display module line overview (numeric)
Example	<Item name="line-mlo-pos" Index="6">1</Item>	
Notes	Only possible if the key has been configured with "line"	

3.3.13.22 Line – Show on DSM

Parameter	line-hidden	WEB
Index	1 to 18	Normal function keys 1 to 18, opti-Point 410 advance
Index	101 to 116	Normal function keys 1 to 16, key module 1
Index	201 to 216	Normal function keys 1 to 16, key module 2
Index	301 to 313	Normal function keys 1 to 13, self labeling key module 1
Index	401 to 413	Normal function keys 1 to 13, self labeling key module 2
Value	true, false	Show line in line overview on or off
Example	<Item name="line-hidden" Index="6">false</Item>	
Notes	Only possible if the key has been configured with "line"	

3.3.13.23 DSS – Address of record

Parameter	dss-sip-uri	WEB
Index	1 to 18	Normal function keys 1 to 18, opti-Point 410 advance (only possible for normal function keys)
Value	URI	<Direct@<SIP Server IP> (e.g. direct@172.16.127.95 or domain name
Example	<Item name="dss-sip-uri" Index="4">URI</Item>	
Notes	Only possible if the key has been configured with "DSS".	

3.3.13.24 DSS – Realm

Parameter	dss-sip-realm	WEB
Index	1 to 18	Normal function keys 1 to 18, opti-Point 410 advance (only possible for normal function keys)
Value	ABCDabcd1234	String (max. 93; Alphanumeric)
Example	<Item name="dss-sip-realm" Index="4">as.broadworks.net</Item>	
Notes	Only possible if the key has been configured with "DSS".	

3.3.13.25 DSS – User ID

Parameter	dss-sip-user-id	WEB
Index	1 to 18	Normal function keys 1 to 18, opti-Point 410 advance (only possible for normal function keys)
Value	AaBbCc12345	DSS SIP user ID (alphanumeric)
Example	<Item name="dss-sip-user-id" Index="4">user</Item>	
Notes	Only possible if the key has been configured with "DSS".	

3.3.13.26 DSS – Password

Parameter	dss-sip-pwd	WEB
Index	1 to 18	Normal function keys 1 to 18, opti-Point 410 advance (only possible for normal function keys)
Value	AaBbCc12345	DSS SIP password (alphanumeric)
Example	<Item name="dss-sip-pwd" Index="4">password</Item>	
Notes	Only possible if the key has been configured with "DSS".	

3.3.13.27 Forwarding – Forward type

Parameter	forwarding-type	WEB
Index	1 to 18	Normal function keys 1 to 18, opti-Point 410 advance (only possible for normal function keys)
Index	101 to 116	Normal function keys 1 to 16, key module 1
Index	201 to 216	Normal function keys 1 to 16, key module 2
Index	301 to 313	Normal function keys 1 to 13, self labeling key module 1
Index	401 to 413	Normal function keys 1 to 13, self labeling key module 2
Value	0,1,2	0=unconditional 1=on no reply 2=on busy
Example	<Item name="forwarding-type" Index="1006">2</Item>	
Notes	Only possible if the key has been configured with "Forwarding".	

3.3.13.28 Forwarding – Dial string

Parameter	forwarding-dest	WEB
Index	1 to 18	Normal function keys 1 to 18, opti-Point 410 advance (only possible for normal function keys)
Index	101 to 116	Normal function keys 1 to 16, key module 1
Index	201 to 216	Normal function keys 1 to 16, key module 2
Index	301 to 313	Normal function keys 1 to 13, self labeling key module 1
Index	401 to 413	Normal function keys 1 to 13, self labeling key module 2
Value	123ABCabc	Alphanumeric 255
Example	<Item name="forwarding-dest" Index="1006">2</Item>	
Notes	Only possible if the key has been configured with "Forwarding".	

3.3.14 Dial Plan

3.3.14.1 Dial Plan – Name

Parameter	dial-plan-id	WEB
Index	–	
Value	!ABCabc123	Dial plan identifier. Must start with the ! character (alphanumeric).
Example	<Item name="dial-plan-id">!interop</Item>	
Notes	Dial plan should be configured	

3.3.14.2 Dial Plan – Status

Parameter	dial-plan-error	WEB
Index	–	
Value	1 to 48	"Read only" Identification of dial plan errors: 1 = No error 0 = General dial plan error 2 to 48 = Dial plan error lines (numeric)
Example	<Item name="dial-plan-error">1</Item>	
Notes	Dial plan should be configured	

3.3.14.3 Dial Plan – Action

Parameter	dial-plan-enabled	WEB
Index	–	
Value	true, false	Boolean, on or off
Example	<Item name="dial-plan-enabled">false</Item>	
Notes	Dial plan should be configured	

3.3.14.4 Dial Plan – Digit string

Parameter	dial-plan-entry	WEB
Index	1 to 48	
Value	ABCabc123	The corresponding URI must be entered immediately after the dial plan (alphanumeric).
Example	<Item name="dial-plan-entry "Index="6">+4989123456789</Item>	
Notes	Dial plan should be configured	

3.3.15 Dialling Properties

3.3.15.1 External Access Code

Parameter	canonical-dialing-external-access	WEB
Index	–	
Value	9	External access code (numeric)
Example	<Item name="dial-access-cde">9</Item>	
Notes	For LDAP-compatible phones only	

3.3.15.2 International Dial Prefix

Parameter	canonical-dialing-international-prefix	WEB
Index	–	
Value	00	International dial prefix (numeric)
Example	<Item name="dial-intntl-prfx">00</Item>	
Notes	Currently only possible for LDAP-compatible phones	

3.3.15.3 Local Country Code

Parameter	canonical-dialing-local-country-code	WEB
Index	–	
Value	1 to 9999	International country code (numeric)
Example	<Item name="dial-cntry-cde">43</Item>	
Notes	Currently only possible for LDAP-compatible phones	

3.3.15.4 National Dial Prefix

Parameter	canonical-dialing-national-prefix	WEB
Index	–	
Value	0	National dial prefix (numeric)
Example	<Item name="dial-nat-prfx">0</Item>	
Notes	Currently only possible for LDAP-compatible phones	

3.3.15.5 Local Area Code

Parameter	canonical-dialing-local-area-code	WEB
Index	–	
Value	89 (for example)	Local area code (numeric)
Example	<Item name="dial-domain-cde">89</Item>	
Notes	Currently only possible for LDAP-compatible phones	

3.3.15.6 Local District Code

Parameter	canonical-dialing-local-district-code	WEB
Index	–	
Value	600 (for example)	Local district code for a company, for example (numeric)
Example	<Item name="dial-location-cde">600</Item>	
Notes	Currently only possible for LDAP-compatible phones	

3.3.16 Feature Access

3.3.16.1 Feature Access

Parameter	feature-availability	WEB
Index	0 to 23	Index = function number: 0=call hold (explicit) 1=call deflection 2=call forwarding 3=log forwarded calls 4=call duration 5=call waiting 6=call transfer 7=call join 8=call display by name 9=call display by number 10=music on hold 11=do not disturb 12=message waiting 13=local conference 14=auto-answer 15=auto-re-connect 16=WAP browser on DSM 17=LDAP on DSM 18=telephony on DSM 19=voice recognition on DSM 20=speed dial on DSM 21=ENB on DSM 22=call park 23=call pick-up
Value	true, false	Boolean, on or off
Example	<Item name="feature-availability" "Index="2">true</Item>	
Notes	Function must be available for the relevant phone	

3.3.16.2 Callback – busy allow (only HiPath 8000)

Parameter	callback-busy-allow	WEB
Index	–	
Value	true, false	Boolean, on or off
Example	<item name="callback-busy-allow">true</item>	
Notes	Must be set up in HiPath 8000	

3.3.16.3 Callback – no reply allow (only HiPath 8000)

Parameter	callback-ring-allow	WEB
Index	–	
Value	true, false	Boolean, on or off
Example	<item name="callback-ring-allow">false</item>	
Notes	Must be set up in HiPath 8000	

3.3.16.4 Hot keypad dialing

Parameter	hot-keypad-dialing	WEB
Index	–	
Value	0.1	0=Context, 1=Hot keypad; integer; Default=0.
Example	<Item name="hot-keypad-dialing">1</Item>	
Notes		

3.3.17 Configuration management settings

3.3.17.1 Deployment Service (DLS)

Use with DLS is not supported – WEB

3.3.17.2 HTTPS – IP address or DNS name

Parameter	config-https-addr	WEB
Index	–	
Value	0.0.0.0	IP address
Example	<Item name="config-https-addr">192.186.1.148</Item>	
Notes	If secure configuration download is used	

3.3.17.3 HTTPS – Port

Parameter	config-https-port	WEB
Index	–	
Value	0 to 65535	Integer; default: 443
Example	<Item name="config-https-port">443</Item>	
Notes	If secure configuration download is used	

3.3.17.4 HTTPS – File path for URL

Parameter	config-https-path	WEB
Index	–	
Value	AaBbcdef12345	Path where the configuration file is saved (alphanumeric)
Example	<Item name="config-https-path">/</Item>	
Notes	If secure configuration download is used	

3.3.17.5 HTTPS – Use secure configuration Download

Parameter	Function activated when the HTTPS IP address is entered	WEB
Index	–	
Notes	If HTTPS download is used	

3.3.17.6 FTP – IP address or DNS name

Parameter	config-ftp-addr	WEB
Index	–	
Value	0.0.0.0	IP address
Example	<Item name="config-ftp-addr">192.186.1.148</Item>	
Notes	If non-secure configuration download is used	

3.3.17.7 FTP - Port

Parameter	config-ftp-port	WEB
Index	–	
Value	0 to 65535	Integer; default: 20
Example	<Item name="config-ftp-port">20</Item>	
Notes	If non-secure configuration download is used	

3.3.17.8 FTP – Use non-secure configuration Download

Parameter	Function activated when the FTP IP address is entered	WEB
Index	–	
Value		
Example		
Notes	If FTP download is used	

3.3.17.9 FTP – FTP account name

Parameter	config-ftp-account	WEB
Index	–	
Value	AaBbcdef12345	Account, if necessary (alphanumeric)
Example	<Item name=="config-ftp-account">downloads</Item>	
Notes	If non-secure configuration download is used	

3.3.17.10 FTP – FTP User Name

Parameter	config-ftp-User Name	WEB
Index	–	
Value	AaBbcdef12345	User name, if necessary (alphanumeric)
Example	<Item name="config-ftp-User Name">anonymous</Item>	
Notes	If non-secure configuration download is used	

3.3.17.11 FTP – New FTP password

Parameter	config-ftp-password	WEB
Index	–	
Value	AaBbcdef12345	User password, if necessary (alphanumeric)
Example	<Item name="config-ftp-password">123456</Item>	
Notes	If non-secure configuration download is used	

3.3.17.12 FTP – FTP path

Parameter	config-ftp-path	WEB
Index	–	
Value	AaBbcdef12345	Path where the files are stored (alphanumeric)
Example	<Item name="dconfig-ftp-path">\</Item>	
Notes	If non-secure configuration download is used	

3.3.17.13 HTTPS/FTP – Configuration Filename

Parameter	config-filename	WEB
Index	–	
Value	AaBbcdef12345	Configuration file name (alphanumeric)
Example	<Item name="config-filename">config</Item>	
Notes	If HTTPS or FTP is used	

3.3.17.14 HTTPS/FTP – Configuration File Type

Parameter	config-filetype	WEB
Index	–	
Value	AaBbcdef12345	Configuration file extension (alphanumeric)
Example	<Item name="config-filename">xml</Item>	
Notes	If HTTPS or FTP is used	

3.3.17.15 HTTPS/FTP – After registration, check for updates every

Parameter	config-periodic-timer	WEB
Index	–	
Value	0 to 7200	Time in seconds; 0 = don't check;
Example	<Item name="config-periodic-timer">3600</Item>	
Notes	If HTTPS or FTP is used	

3.3.17.16 HTTPS/FTP – If registration fails, check for updates every

Parameter	config-retry-timer	WEB
Index	–	
Value	0 to 720	Time in seconds; 0 = don't check;
Example	<Item name="config-retry-timer">360</Item>	
Notes	If HTTPS or FTP is used	

3.3.17.17 HTTPS/FTP – Authentication enabled

Parameter	config-authentication-enabled	WEB
Index	–	
Value	true, false	Boolean, on or off
Example	<Item name="config-authentication-enabled">false</Item>	
Notes		

3.3.18 Applications

3.3.18.1 Directory – LDAP server address

Parameter	ldap-server-address	WEB
Index	–	
Value	0.0.0.0	IP address
Example	<Item name="ldap-server-address">192.186.1.148</Item>	
Notes	For LDAP-compatible phones only (optiPoint display module should be available)	

3.3.18.2 Directory – Port

Parameter	ldap-server-port	WEB
Index	–	
Value	0 to 65535	Integer; default: 389
Example	<Item name="ldap-server-port">389</Item>	
Notes	For LDAP-compatible phones only (optiPoint display module should be available)	

3.3.18.3 Address Book – Phone Book server address

Parameter	dl-ftp-enb-addr	WEB
Index	–	
Value	0.0.0.0	IP address
Example	<Item name="dl-ftp-enb-addr">192.186.1.148</Item>	
Notes	For ENB-compatible phones only (optiPoint display module should be available)	

3.3.18.4 Address Book – FTP account name

Parameter	dl-ftp-enb-account	WEB
Index	–	
Value	AaBbcdef12345	Account, if necessary (alphanumeric)
Example	<Item name=="dl-ftp-enb-account">downloads</Item>	
Notes	For ENB-compatible phones only (optiPoint display module should be available)	

3.3.18.5 Address Book – FTP User Name

Parameter	dl-ftp-enb-User Name	WEB
Index	–	
Value	AaBbcdef12345	User name, if necessary (alphanumeric)
Example	<Item name="dl-ftp-enb-User Name">anonymous</Item>	
Notes	For ENB-compatible phones only (optiPoint display module should be available)	

3.3.18.6 Address Book – New FTP password

Parameter	dl-ftp-enb-password	WEB
Index	–	
Value	AaBbcdef12345	User password, if necessary (alphanumeric)
Example	<Item name="dl-ftp-enb-password">123456</Item>	
Notes	For ENB-compatible phones only (optiPoint display module should be available)	

3.3.18.7 Address Book – FTP path

Parameter	dl-ftp-enb-path	WEB
Index	–	
Value	AaBbcdef12345	Path where the text file is saved (alphanumeric)
Example	<Item name="dl-ftp-enb-path">\</Item>	
Notes	For ENB-compatible phones only (optiPoint display module should be available)	

3.3.18.8 Address Book – Filename

Parameter	dl-ftp-enb-filename	WEB
Index	–	
Value	AaBbcdef12345	Text file name (alphanumeric)
Example	<Item name="dir-ftp-name">enbdata.csv</Item>	
Notes	For ENB-compatible phones only (optiPoint display module should be available)	

3.3.18.9 WAP Settings – WAP Server address

Parameter	wap-gateway-addr	WEB
Parameter	wap-gateway-name	WEB
Index	–	
Value	0.0.0.0	IP address
Value	ABCDabcd1234	Host name
Example	<Item name="wap-gateway-addr">192.186.1.128</Item>	
Example	<Item name="wap-gateway-name">ProviderHost</Item>	
Notes	For WAP-compatible phones only (optiPoint display module should be available)	

3.3.18.10 WAP Settings – Port

Parameter	wap-port	WEB
Index	–	
Value	0 to 65535	Integer; default: 9200
Example	<Item name="wap-port">9200</Item>	
Notes	For WAP-compatible phones only (optiPoint display module should be available)	

3.3.18.11 WAP Settings – WAP mode

Parameter	wap-xcon-type	WEB
Index	–	
Value	0, 1	Integer; 0 = HTTP 1 = WSP
Example	<Item name="wap-xcon-type">0</Item>	
Notes	For WAP-compatible phones only (optiPoint display module should be available)	

3.3.18.12 WAP Settings – WAP proxy User Name

Parameter	wap-User Name	WEB
Index	–	
Value	AaBbcdef12345	WAP proxy username, if necessary; (alphanumeric)
Example	<Item name="wap-User Name">anonymous</Item>	
Notes	For WAP-compatible phones only (optiPoint display module should be available)	

3.3.18.13 WAP Settings – New WAP proxy password

Parameter	wap-password	WEB
Index	–	
Value	AaBbcdef12345	WAP user password, if necessary; (alphanumeric)
Example	<Item name="wap-password">123456</Item>	
Notes	For WAP-compatible phones only (optiPoint display module should be available)	

3.3.18.14 WAP Settings – Help internet URL

Parameter	wap-help-url	WEB
Index	–	
Value	ABCDabcd1234	URL (alphanumeric)
Example	<Item name="wap-help">www.enomaet.com</Item>	
Notes	For WAP-compatible phones only (optiPoint display module should be available)	

3.3.18.15 WAP Settings – Home page

Parameter	wap-homepage	WEB
Index	–	
Value	ABCDabcd1234	URL (alphanumeric)
Example	<Item name="wap-homepage">www.enomaet.com</Item>	
Notes	For WAP-compatible phones only (optiPoint display module should be available)	

3.3.19 Change administrator password

Parameter	admin-pwd	WEB
Index	–	
Value	12345	New administrator password, default = 123456; numeric, six digits
Example	<Item name="admin-pwd">123456</item>	
Notes	Changes current password	

3.3.20 Survivability

3.3.20.1 Survivability – Backup IP address or DNS name

Parameter	backup-addr	WEB
Index	–	
Value	0.0.0.0 or DNS name	IP address or DNS name
Example	<Item name="backup-addr">192.168.1.148</item>	
Notes	Failure system must be in place	

3.3.20.2 Survivability – Backup port

Parameter	backup-port	WEB
Index	–	
Value	0 to 65535	Max. 5 characters
Example	<Item name="backup-port">111</item>	
Notes	Failure system must be in place	

3.3.20.3 Survivabilty – Backup Registration

Parameter	backup-registration	WEB
Index	–	
Value	true, false	Boolean, on or off
Example	<Item name="backup-registration">true</Item>	
Notes	Failure system must be in place	

3.3.20.4 Survivabilty – Backup Registration timer value

Parameter	backup-reg-timer	WEB
Index	–	
Value	0 to 9999	Characters (numeric) in seconds
Example	<Item name="backup-reg-timer">3600</Item>	
Notes	Failure system must be in place	

3.3.20.5 Survivabilty – Backup Transport

Parameter	backup-transport	WEB
Index	–	
Value	0.1	0=UDP 1=TCP
Example	<Item name="backup-transport">0</Item>	
Notes	Failure system must be in place	

3.3.20.6 Survivability – Backup Outbound Proxy

Parameter	backup-outbound-proxy	WEB
Index	–	
Value	true, false	Boolean, on or off
Example	<Item name="backup-outbound-proxy">false</Item>	
Notes	Failure system must be in place	

3.3.21 QoS Data Collection

3.3.21.1 Send QDC Traps to QCU

Parameter	qdc-qcu-active	WEB
Index	–	
Value	true, false	Option on or off
Example	<Item name="qdc-qcu-active">true</Item>	
Notes		

3.3.21.2 QDC Address

Parameter	qdc-collection-unit-addr	WEB
Index	–	
Value	0.0.0.0	IP address
Example	<Item name="qdc-collection-unit-addr">172.16.127.2</Item>	
Notes		

3.3.21.3 QDC Port

Parameter	qdc-collection-unit-port	WEB
Index	–	
Value	0 to 65535	Port address; Integer
Example	<Item name="qdc-collection-unit-port">162</Item>	
Notes		

3.4 User Tags

The sequence of tags described in this section is based on the sequence in WBM and its dialogs.

3.4.1 Change user password

Parameter	user-pwd	WEB
Index	–	
Value	ABCDabcd1234	New user password; default = 000000; alphanumeric, up to 25 characters
Example	<Item name="user-pwd">abcdefg</Item>	
Notes	Changes current password	

3.4.2 Country Settings

Parameter	country	WEB
Index	–	
Value	0 to 8	Integer 0=USA 1=Great Britain 2=Germany 3=France 4=Italy 5=Spain 6=Austria 7=Switzerland 8=Belgium
Example	<Item name="country">2</Item>	
Notes		

3.4.3 Language Settings

Parameter	language	WEB
Index	–	
Value	0,1,2,3,4,6,6	Integer; the following languages are available: 0=English 1=German 2=French 3=Spanish 4=Italian 5=Portuguese 6=Dutch
Example	<Item name="language">1</Item>	
Notes		

3.4.4 Configuration menu

3.4.4.1 Lock/unlock configuration menu

Parameter	default-locked-config-menus	-
Index	-	-
Value	true, false	Boolean false=user menu not locked true=user menu locked
Example	<Item name="default-locked-config-menus">False</Item>	
Notes	The user is allowed to use the configuration menu on the phone	

3.4.4.2 Lock/unlock functions in the configuration menu selectively

Parameter	locked-config-menus	-
Index	01 to 55	Index = function number: 1=Regional settings 2=Language 3=Date/Time 4=Call deflection 5=Call forwarding 7=Call duration 8=Call waiting 9=Transfer 10=Connect 11=Contrast 12=Dial mode 13=Show caller ID 14=Daylight saving 15=Dial delay 16=CFNR delay 17=Time for call-on-hold reminder 18=Music on hold 19=Do not disturb 20=Message waiting 21=Call-on-hold reminder signal 22=Conference 23=Local conference 32=CTI Call acceptance 33=Call acceptance signal 34=Auto. Reconnect 35=Reconnection signal 36=Ready status 38=Time limit for Inacti 39=DSM call view 40=USB keyboard type 43=Forwarding destination 44=Line settings 45=Icons call view 46=Park call 47=Unpark call 48=Dial in standby mode 49=Callback on Busy 50=Callback on No Reply 51=Missed call message 52=Busy on Dialing 53=Hang up on ringing 54=Mobility Flash LED 55=Call Recording

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Value	true, false	Boolean false=Function not locked true=Function locked
Example	<Item name="locked-config-menus" "Index="1">true</Item>	
Notes	The user is allowed/not allowed to use individual functions of the configuration menu.	

3.4.5 Local functions

3.4.5.1 Lock/unlock local functions menu

Parameter	default-locked-local-function-menus	-
Index	-	-
Value	true, false	Boolean false=Menu not locked true=Menu locked
Example	<Item name="default-locked-local-function-menus">False</Item>	
Notes	The user is allowed to use the "local functions" menu	

3.4.5.2 Lock/unlock functions in the local menu selectively

Parameter	locked-local-function-menus	-
Index	1 to 4	1=Speed dial 2=User password 3=Lock phone 4=Memory
Value	true, false	Boolean false=Function locked true=Function not locked
Example	<Item name="locked-local-function-menus" "Index="3">False</Item>	
Notes	The user is allowed to use the "local functions" menu	

3.4.6 Function keys

3.4.6.1 Lock/unlock function keys

Parameter	default-locked-function-keys	-
Index	-	-
Value	true, false	Boolean false=Menu locked true=Menu not locked
Example	<Item name="default-locked-function-keys">False</Item>	
Notes	User can assign the function keys	

3.4.6.2 Lock/unlock function keys selectively

Parameter	locked-local-function-menus	-
Index	1 to 45	1=Delete 2=Repertory dial 3=Speed dial 4=Redial 5=Caller list 6=Messages 7=Divert call 8=Loudspeaker 9=Microphone off 10=Call tone off 11=Call hold 12=Alternate 13=Transfer 14=Connect 15=Divert 16=Configuration menu 17=Room echoing 18=Room muffled 19=Shift key 20=Notebook 21=Settings 22=Lock phone 23=Conference 24=Local conference 25=Headset 26=Do not disturb 30=Accept call Team 31=Extended repertory dial 32=Line 33=Shift 34=Park 35=Unpark 36=Display change 37=Cancel 38=Confirm 39=Direct call 40=Consult/transfer 41=Callback 42=Delete callbacks 43=State Key 44=Mobility 45=Call Recording

Value	true, false	Boolean false=Key not locked true=Key locked
Example	<Item name="locked-local-function-menus" "Index="3">False</Item>	
Notes	User can assign the function keys	

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4 Web interface

4.1 Creating a Phone Connection

The Web interface can be used to check and configure individual device and network settings for optiPoint 410/420 S phones.

You can access the Web interface via the following browser:

Microsoft Internet Explorer (latest version recommended).

Proceed as follows to access the Web interface:

Open a Web browser and enter the URL of the phone as follows:

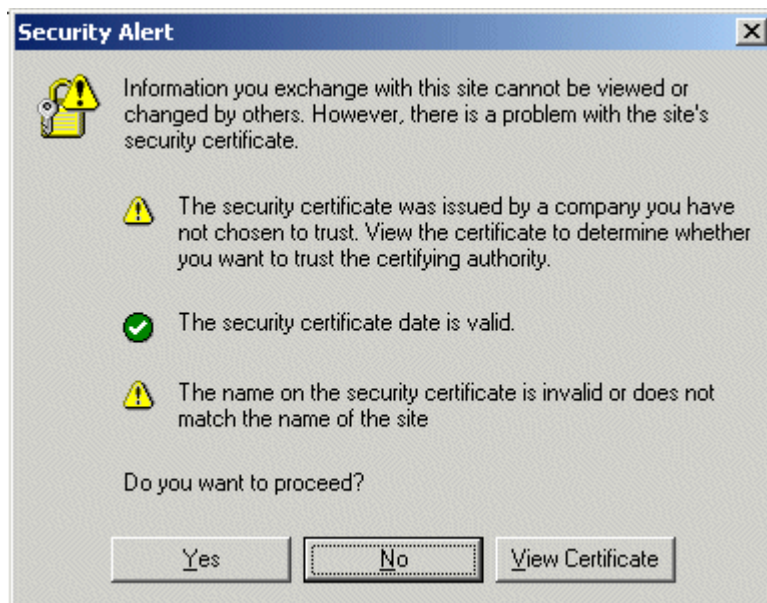
https://[address]

Here, [address] represents the phone's IP address or host name.

Example: The Web interface URL for a phone with the IP address 192.168.1.137 is entered as follows:

"https://192.168.1.137".

The following dialog appears:

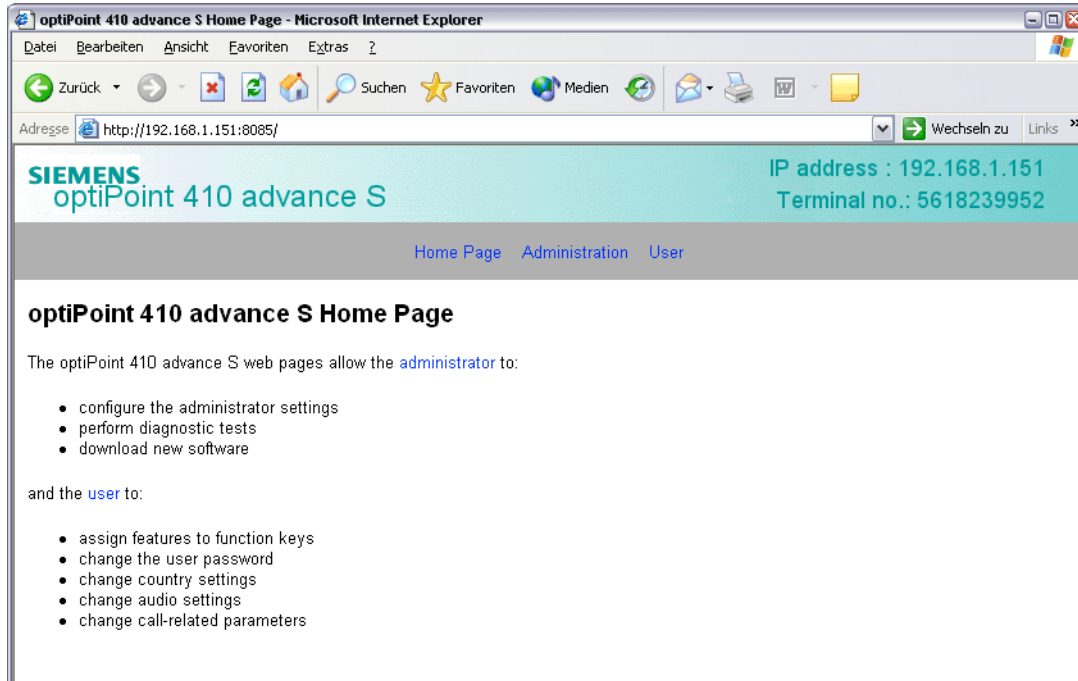


Confirm the "Security Alert" by selecting "Yes".

Web interface

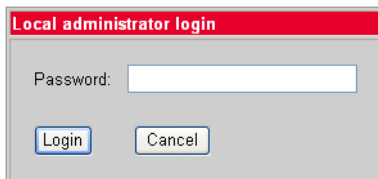
Accessing the Administrator Menu

A home page similar to the following appears:



4.2 Accessing the Administrator Menu

1. Click "Administration". The following dialog appears:



2. Enter the password (Default: "123456") and confirm.

4.2.1 The Administrator Menu

Administrator menu

- General Information
- [Network IP address and routing](#)
- System
 - [SIP environment](#)
 - [SIP features](#)
- Quality of service
- [File transfer and phone Download settings](#)
- Time and Date
- [SNMP](#)
- Speech
- [Ringer Settings](#)
- [LAN Port Settings](#)
- [Multiline operation](#)
- Function keys...
 - [Phone](#)
 - [Key module 1](#)
 - [Key module 2](#)
 - [Key module SLK 1](#)
 - [Key module SLK 2](#)
- [Dial plan](#)
- [Dialing properties](#)
- [Feature Access](#)
- User Mobility
- Configuration Management...
 - [settings](#)
 - Check for updates
 - [Error log](#)
- Applications...
 - [Directory](#)
 - [Address Book](#)
 - [WAP](#)
- Upload/Download...
 - Upload configuration
 - Download application
 - Download configuration
 - Download hold music
- Diagnostics and statistics...
 - Non user-assisted tests
 - User-assisted tests
 - RTP Statistics
 - [QoS Data Collection](#)
 - Fault investigation
 - Simplified trace page
- Restart terminal
- Reset user password
- [Change admin password](#)
- Clear all user data
- Restore factory setting
- Port Control
- FPN Port Settings
- [Survivability](#)

[Home](#)

Web interface

Configuration Menus for Administration

4.3 Configuration Menus for Administration

4.3.1 Network IP Address and Routing

For a description of the XML tags, see

Network IP Address and Routing

 **WARNING**
If you make changes to the fields marked with an asterisk (*) you will have to restart the terminal manually before they take effect.

DHCP ☒ *

Terminal IP address: *

Terminal mask: *

Primary DNS IP address:

Secondary DNS IP address:

Default Route:

Domain Name:

Terminal hostname: *

IP Routing:

Route 1:

Route 2:

Gateway 1:

Gateway 2:

Mask 1:

Mask 2:

Submit

Reset

4.3.2 SIP Environment

For a description of the XML tags, see

SIP Environment

**WARNING**
If you make changes to the fields marked with an asterisk (*) you will have to restart the terminal manually before they take effect.

Terminal details:

Phone number: 9954 *

Phone name: Office-14 *

Register by name: ☐ *

Display ID: *

Use Display ID: ☐ *

SIP details:

SIP routing: Server *

Registrar IP address or DNS name: 192.168.1.148 *

Port: 5060 *

Server IP address or DNS name: 192.168.1.148 *

Port: 5060 *

Gateway IP address or DNS name: 0.0.0.0 *

Port: 5060 *

SIP port: 5060 *

RTP Base port: 5004 *

Outbound proxy: ☐ *

Default OBP domain name: *

SIP transport: UDP *

SIP server type: HiQ8000 *

SIP session timer enabled: ☐ *

SIP session timer value: 3600 seconds *

Registration timer value: 3600 seconds *

SIP realm: *

SIP user ID: *

New SIP password: *

Confirm SIP password: *

Miscellaneous:

Message Waiting IP address or DNS name:

Emergency number:

Voicemail number:

Branding/identity name: SIP 6.0.49

Submit

Reset

Web interface

Configuration Menus for Administration

4.3.3 SIP features

For a description of the XML tags, see

SIP Features

Call handling options

Auto answer: ☐ Off

Beep on auto answer: ☒ On

Refuse call feature enabled: ☒ On

Allow Join in conference: ☒ On

Auto reconnect: ☐ Off

Beep on auto reconnect: ☒ On

Allow transfer on ringing: ☒ On

Group pickup

Group pickup URI:

Hot line/warm line working

Phone type:

Default dial string:

Initial digit timer

Initial digit timer value: seconds (1 to 120)

Station-controlled conference

Conference server URI:

Call park URI:

Call pickup URI:

Callback

Callback - busy URI:

Callback - no reply URI:

Cancel callbacks URI:

Call Recorder

Number:

Audible indication: ☒ On

Submit

Reset

4.3.4 Quality of Service

For a description of the XML tags, see .

Quality of Service (QoS)

**WARNING**
If you make changes to any of the fields on this page you will have to restart the terminal manually before they take effect.

Layer 2	Layer 3
Required: ☐	☐
Voice: 5	46
Signalling: 5	26
Default: 0	
VLAN Discovery: Manual ▼	
Manual VLAN id: 0	
Submit	Reset

Web interface

Configuration Menus for Administration

4.3.5 File transfer

For a description of the XML tags, see

FTP Settings and Phone Downloads

**WARNING**
Note that file transfers to and from the download server will take place over an insecure link.

FTP Server Address: 192.168.1.148

FTP account name:

FTP username: optipoint600

New FTP password:

Confirm new FTP password:

FTP path: .

Application filename: 420adv_Sip_4_1_16.app

Configuration filename: opti420c

Hold music filename: opti420.moh

Logo filename: logo.bmp

Java Program filename: SpeedDialApplet.jad

LDAP template filename: template.txt

DSM firmware filename:

Action on submit: No transfer

Submit Reset

4.3.6 Time and Date

For a description of the XML tags, see

Time & date

SNTP server IP address:

Entering a blank (or invalid) address will cause the SNTP client to listen for broadcasts.

Timezone offset (hours):

This is the number of hours by which time sourced via SNTP (UTC) must be adjusted to give local time. Valid range is -12 to +12.

☐ Daylight saving

Local Time (hh:mm): :

Date (day, month, year):

Date Format:

Note - If SNTP is being used, a user-specified value for Time & Date will be overwritten when an SNTP update next occurs.

Web interface

Configuration Menus for Administration

4.3.7 SNMP

For a description of the XML tags, see

SNMP Settings

Send trap on unauthorised logoff attempt: ☐

Trap delay (0 - 600 seconds):

Management Center Address:

Management Center Port:

Send Generic Traps to Management Center: ☐

Send QDC Traps to Management Center: ☐

The password fields must be left blank unless you want to change the password.

New Query password:

Confirm new Query password:

Queries Allowed: ☒ [Modifiable via Port Control](#)

Submit

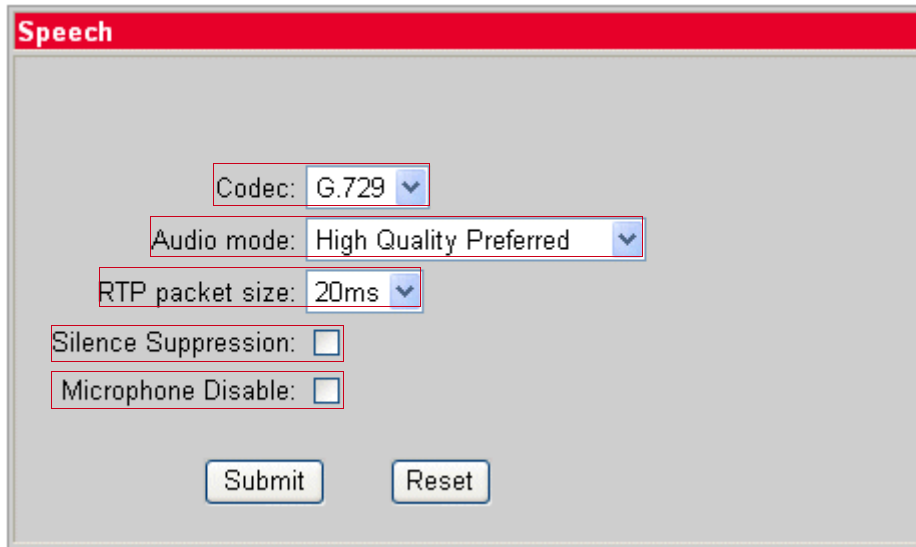
Reset

SNMP MIB2 errors:

Discarded inbound packets:	0
Invalid inbound packets:	0
Discarded outbound packets:	0
Invalid outbound packets:	0

4.3.8 Speech

For a description of the XML tags, see



The screenshot shows a web interface window titled "Speech" with a red header bar. The window contains several configuration options, each enclosed in a red rectangular box:

- Codec:** A dropdown menu currently showing "G.729".
- Audio mode:** A dropdown menu currently showing "High Quality Preferred".
- RTP packet size:** A dropdown menu currently showing "20ms".
- Silence Suppression:** A checkbox that is currently unchecked.
- Microphone Disable:** A checkbox that is currently unchecked.

At the bottom of the window, there are two buttons: "Submit" and "Reset".

4.3.9 Ringer Settings

For a description of the XML tags, see

Ringer Settings

This page allows you to set up interworking with other IP phone systems that support distinctive ringing

Alert indication	Melody (0 = off, or 1 to 8)	Tone (1 to 3)	Duration (sec)
http://127.0.0.1/Bellcore	7	3	60

Submit

Reset

4.3.10 LAN port settings

For a description of the XML tags, see

LAN Port Settings

**WARNING**
If you make changes to any of the fields on this page you will have to restart the terminal manually before they take effect.

Select the settings for LAN ports 1 and 2 on the terminal:

LAN port 1 (LAN)	LAN port 2 (PC)
☒ Auto	☒ Auto
☐ 10 Mb/s Full duplex	☐ 10 Mb/s Full duplex
☐ 10 Mb/s Half duplex	☐ 10 Mb/s Half duplex
☐ 100 Mb/s Full duplex	☐ 100 Mb/s Full duplex
☐ 100 Mb/s Half duplex	☐ 100 Mb/s Half duplex

Web interface

Configuration Menus for Administration

4.3.11 Multiline operation

For a description of the XML tags, see

Multiline Operation

Originating line preference: Idle line

Terminating line preference: Ringing line

Line key operation mode: Hold

Rollover type: Alert beep

Rollover volume: 2

Registration LEDs: ☒

Show focus: ☒

Use LED to indicate Remote Forwarding: ☐

Reservation timer: 60 seconds

Note: set reservation timer to 0 to disable line reservation

Submit

Reset

4.3.12 Function keys

For a description of the XML tags, see .

Phone function key assignments			
Key	Normal function		Shifted function
1:	Loudspeaker	Edit	Edit
2:	Repeat dialing	Edit	Edit
3:	Headset	Edit	Edit
4:	Voice Messages	Edit	Edit
5:	Selected dialing	Edit	Selected dialing Edit
6:	Line	Edit	Edit
7:	Line	Edit	Edit
8:	Phone lock	Edit	Edit
9:	Deflect	Edit	Edit
10:	Alternate	Edit	Edit
11:	Transfer Call	Edit	Edit
12:	Join	Edit	Edit
13:	Do not disturb	Edit	Edit
14:	Hold	Edit	Edit
15:	Mute	Edit	Edit
16:	Settings	Edit	Edit
17:	Quit	Edit	Edit
18:	Shift	Edit	Shift Edit

Parameters	
Parameters for function 'Selected dialing' assigned to Key 5	
Name	Value
Dial string	3019
Key Label	Phone3 3019

Web interface

Configuration Menus for Administration

4.3.12.1 "Selected dialing" Function Key

For a description of the XML tags, see or

For information on function key assignment, see

"Selected dialing" can be programmed on normal and shifted function keys.

Assign a function to key 3

Select a function: Selected dialing

Parameter for function 'Selected dialing'

Locked by administrator: ☐ Off

Dial string: 0049123456789 27 chars left

Apply Cancel

4.3.12.2 "Line" Function Key

For a description of the XML tags, see .
For information on function key assignment, see

Assign a function to key 6

Select a function: Line

Parameters for function 'Line'

Key Label: 3009

Primary line: ☒ On

Ring: ☒ On

Hunt ranking: 1

Address of record: 3015553009 * (max 48 char)

Realm: as.broadworks.net * (max 48 char)

User ID: 3015553009 * (max 48 char)

Password: ***** * (max 48 char)

Confirm password: ***** *

Shared type: Shared

Hot line: ☐ Off

Hot line dial string:

Intrusion allowed: ☐ Off

Short description:

Overview position on DSM:

Show on DSM: ☒ On

Apply Cancel

Web interface

Configuration Menus for Administration

4.3.12.3 "Phone lock" Function Key

For a description of the XML tags, see .

For information on function key assignment, see

Assign a function to key 9

Select a function: Phone lock

Parameter for function 'Phone lock'

Locked by administrator: ☐ Off

Dial string: 123456789101112 25 chars left

Apply Cancel

4.3.12.4 "Feature toggle" Function Key

For a description of the XML tags, see .

For information on function key assignment, see

Assign a function to key 6

Select a function: Feature toggle

Parameters for function 'Feature toggle'

Locked by administrator: ☐ Off

Feature Code: 48 chars left

Description:

Apply Cancel

4.3.12.5 "Repertory dial" Function Key

For a description of the XML tags, see [or](#)

For information on function key assignment, see

"Repertory dial" can be programmed on normal and shifted function keys.

Assign a function to key 8

Select a function: Repertory dial

Parameter for function 'Repertory dial'

Locked by administrator: ☐ Off

Dial string: <\$T> 5618239954| 29 chars left

Append codes: OK Clear Consult Pause

Apply Cancel

4.3.12.6 Function key „DSS“

For a description of the XML tags, see [or](#)
For information on function key assignment, see
"DSSI" can **only** be assigned to the first key level.

Assign a function to key 15

Select a function: DSS

Parameters for function 'DSS'

Key Label:

Address of record: (max 48 char)

Realm: (max 48 char)

User ID: (max 48 char)

Password: (max 48 char)

Confirm password: *

Apply Cancel

4.3.12.7 Function key "Forwarding"

For a description of the XML tags, see [or](#)

Assign a function to key 8

Select a function: Forwarding

Parameter for function 'Forwarding'

Locked by administrator: Off

Forward Type: On busy

Dial string: 0004121951 30 chars left

Apply Cancel

4.3.13 Dial plan

For a description of the XML tags, see

Dial Plan

Name:

Status:

Displaying:

Action:

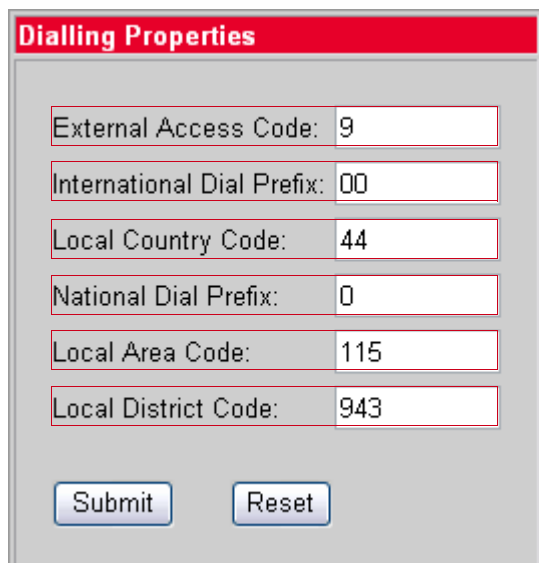
Digit string	C/S	Min	Max	Tmr	Trm
--------------	-----	-----	-----	-----	-----

Web interface

Configuration Menus for Administration

4.3.14 Dialling Properties

For a description of the XML tags, see



The screenshot shows a web interface titled "Dialling Properties" in a red header bar. Below the header, there are six input fields, each with a label and a value:

External Access Code:	9
International Dial Prefix:	00
Local Country Code:	44
National Dial Prefix:	0
Local Area Code:	115
Local District Code:	943

At the bottom of the form, there are two buttons: "Submit" and "Reset".

4.3.15 Feature Access

For a description of the XML tags, see.

Feature access

This page allows you to control which features are available to the User on this phone.

Checking the Status box allows the user to access the feature, but the feature may also need enabling at the phone for it to become active.

Feature	Status
Auto answer - CTI	☐
Callback - busy	☒
Call deflect	☒
Call display by number	☒
Call forwarding	☒
Call join	☒
Call pickup	☒
Call waiting	☒
DSM - Contacts	☒
DSM - Speed dial	☒
DSM - Voice recognition	☒
Hot keypad dialing	☒
Log forwarded calls	☒
Music on hold	☒

Feature	Status
Auto reconnect - CTI	☐
Callback - no reply	☐
Call display by name	☒
Call duration	☒
Call hold (explicit)	☒
Call park	☐
Call transfer	☐
Do not disturb	☒
DSM - Address book	☒
DSM - Call control	☒
DSM - WAP browser	☒
Local conference	☒
Message waiting	☒

Web interface

Configuration Menus for Administration

4.3.16 User Mobility

Use with DLS is not supported.

User Mobility

Send trap on unauthorised logoff attempt: ☐

Trap delay (0 - 600 seconds):

Number of local failed logoffs:

Number of remote failed logouts:

Medium Priority peg count threshold (1 - 999):

Timeout before saving medium priority user data (1 - 999 seconds):

Timeout before saving high priority user data (0 - 999 seconds):

User Mobility feature status: This phone is mobility-enabled

DLS Managed profile: ☐

Force logoff to basic user: ☐

4.3.17 Configuration Management

4.3.17.1 Configuration management settings

For a description of the XML tags, see

Configuration management settings



DHCP has been turned off or has failed, so the download mechanism needs to be configured manually. You will have to enter values into the fields marked with an asterisk (*) for the required mechanism(s), click on the corresponding check box and click the Submit button.

Deployment service (DLS) (Not in use)
IP address or DNS name: *
Port: *
Use deployment service ☐

Secure configuration download (HTTPS) (Not in use)
IP address or DNS name: *
Port: *
File path for URL:
Use secure configuration download ☐

Non-secure configuration download (FTP) (Not in use)
IP address or DNS name: *
Port: *
Use non-secure configuration download ☐
FTP account name:
FTP username:
New FTP password:
Confirm new FTP password:
FTP path:

Common settings (HTTPS and FTP)
Configuration file name:
Configuration file type:
After registration, check for updates every: seconds (0 = don't check)
If registration fails, check for updates every: seconds
Authentication enabled: ☒

Web interface

Configuration Menus for Administration

4.3.17.2 Error log

This log file shows errors if occur while using XML for configuration.

Configuration Management Log file

This page displays the contents of the configuration management error log

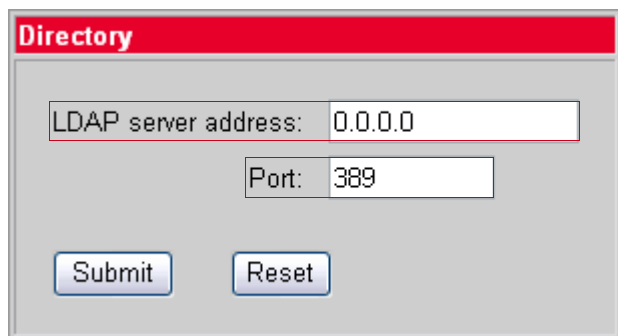
Empty log file

There is no log file.

4.3.18 Applications

4.3.18.1 Directory

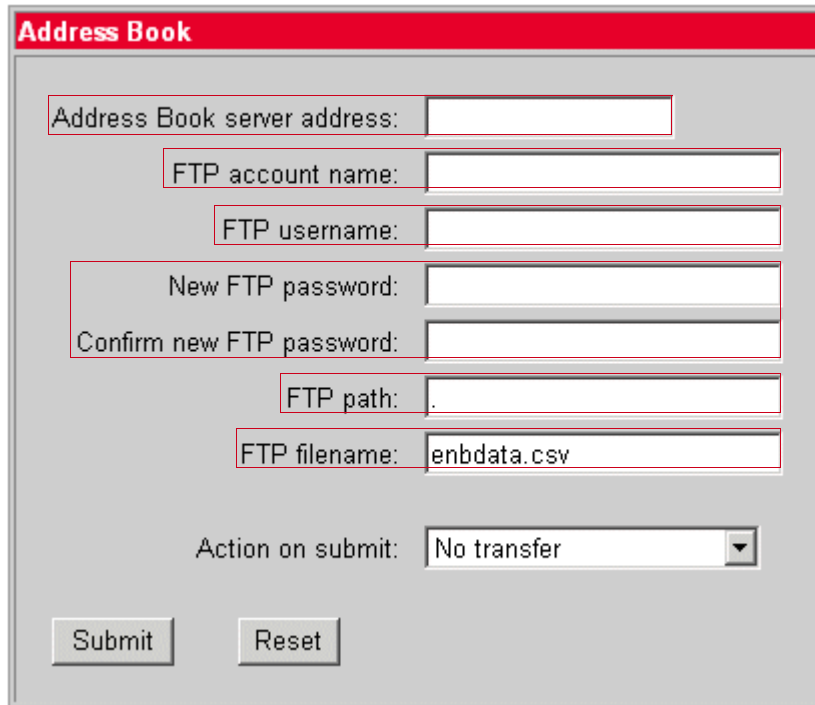
For a description of the XML tags, see



The screenshot shows a web form titled "Directory" with a red header bar. Below the header, there are two input fields: "LDAP server address:" with the value "0.0.0.0" and "Port:" with the value "389". At the bottom of the form, there are two buttons: "Submit" and "Reset".

4.3.18.2 Address Book

For a description of the XML tags, see



The screenshot shows a web interface titled "Address Book" with a red header bar. Below the header, there are several input fields and a dropdown menu, each with a red rectangular highlight. The fields are: "Address Book server address:", "FTP account name:", "FTP username:", "New FTP password:", "Confirm new FTP password:", "FTP path:", and "FTP filename:". The "FTP filename:" field contains the text "enbdata.csv". Below these fields is a dropdown menu labeled "Action on submit:" with the selected option "No transfer". At the bottom left, there are two buttons: "Submit" and "Reset".

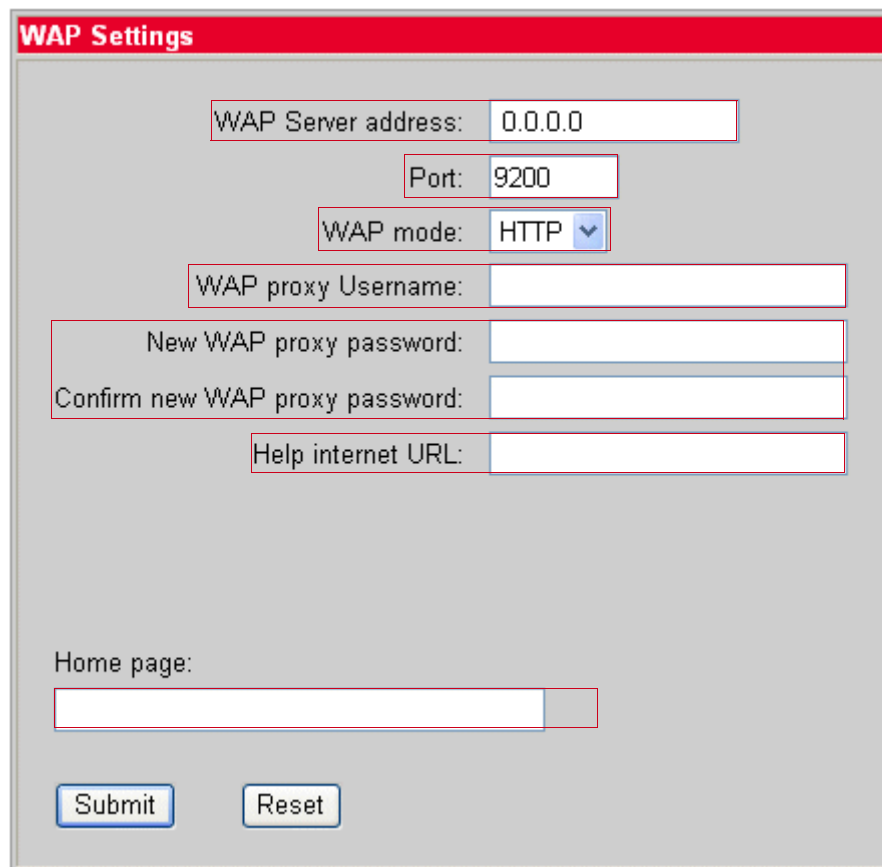
Address Book	
Address Book server address:	
FTP account name:	
FTP username:	
New FTP password:	
Confirm new FTP password:	
FTP path:	
FTP filename:	enbdata.csv
Action on submit:	No transfer
Submit Reset	

Web interface

Configuration Menus for Administration

4.3.18.3 WAP

For a description of the XML tags, see



The image shows a web interface titled "WAP Settings" with a red header bar. The form contains several input fields and buttons:

- WAP Server address:** A text input field containing "0.0.0.0".
- Port:** A text input field containing "9200".
- WAP mode:** A dropdown menu with "HTTP" selected and a downward arrow.
- WAP proxy Username:** A text input field.
- New WAP proxy password:** A text input field.
- Confirm new WAP proxy password:** A text input field.
- Help internet URL:** A text input field.
- Home page:** A text input field.
- Submit** and **Reset** buttons at the bottom left.

4.3.19 Change administrator Password

For a description of the XML tags, see

Change administrator password

Current password:

New password:

Confirm new password:

Note: To be valid the password must consist of exactly six numeric digits

4.3.20 Survivability

For a description of the XML tags, see

Survivability

 **WARNING**
If you make changes to the fields marked with an asterisk (*) you will have to restart the terminal manually before they take effect.

Backup details:

Backup IP address or DNS name:

Port:

Backup Registration: ☒

Backup Outbound proxy: ☐

Backup SIP transport: *

Backup Registration timer value: seconds

Web interface

Configuration Menus for Administration

4.3.21 Diagnostics

4.3.21.1 QoS Data Collection

For a description of the XML tags, see

QoS Data Collection

Send QoS Reports to QCU: ☐

QCU home address:

QCU port number:

Report mode:

Report interval: seconds

Observation interval: seconds

Minimal session length: * 100 milliseconds

Codec Independent Threshold Values

Max jitter threshold: milliseconds

Avg round trip delay threshold: milliseconds

Non-compressing Codec Threshold Values

Lost packet thresholds: per 1000 packets

Consecutive lost packets:

Consecutive good packets:

Compressing Codec Threshold Values

Lost packet thresholds: per 1000 packets

Consecutive lost packets:

Consecutive good packets:

Session data: [Click here](#)

Submit

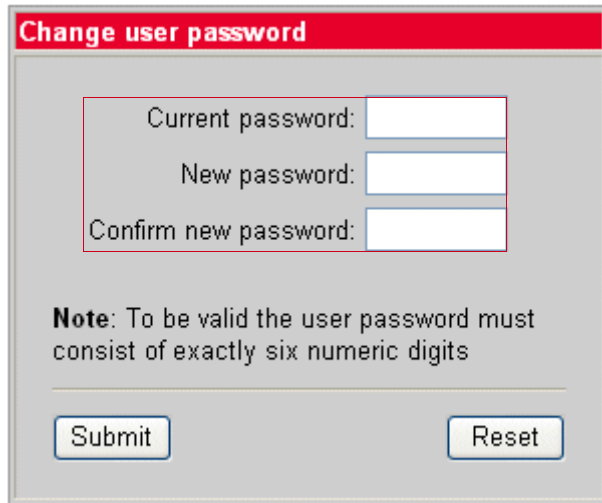
Reset

Submit & Resend Last Reports

4.4 Configuration Menus for Users

4.4.1 Change user password

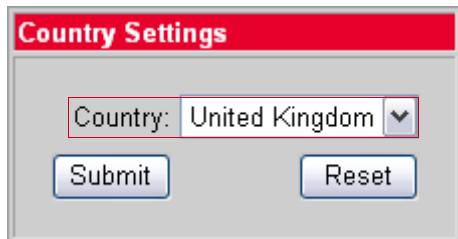
For a description of the XML tags, see



The form has a red header bar with the text "Change user password". Below the header, there are three text input fields labeled "Current password:", "New password:", and "Confirm new password:". Below these fields is a note: "Note: To be valid the user password must consist of exactly six numeric digits". At the bottom of the form are two buttons: "Submit" and "Reset".

4.4.2 Country Settings

For a description of the XML tags, see



The form has a red header bar with the text "Country Settings". Below the header, there is a dropdown menu labeled "Country:" with "United Kingdom" selected. Below the dropdown are two buttons: "Submit" and "Reset".

Web interface

Configuration Menus for Users

4.4.3 Language Settings

For a description of the XML tags, see



Language Settings

Language: English

Submit

- German
- English
- French
- Italian
- Dutch
- Spanish
- Portuguese

5 Sample Configurations

5.1 System Configuration

To provide a better overview, the items in the following table are highlighted gray. The column on the right contains a reference to the WEB interface where the parameters are manually entered.

For example, **op420adv_conf.xml**

Element or description	WBM
<?xml version = "1.0" encoding = "utf-8" ?>	
- <Message>	
<Action>WriteItems</Action>	
<ItemList>	
<!-- Caution!! Empty attribute entries will delete associated data. -->	
<!-- If you do not want to configure an attribute, -->	
<!-- the element must be deleted in the XML file. -->	
<!-- The system configuration version attribute should be the first element. -->	
<!-- -->	
<!-- The value should have the format "2005.01 12:00 GMT" and be -->	
<!-- assigned to the attribute name with the keyword " system-config-version ". -->	
<!-- The expression should be entered between the <Item ...> start tag and the -->	
<!-- </Item> end tag. -->	
<!-- -->	
<!-- For example, <Item name = "system-config-version">2005.01 12:00 GMT</Item> -->	
<!--Make sure you enter spaces before and after the "=" sign -->	
<Item name = "system-config-version">2005.07.19 05:39 GMT</Item>	
<!-- Use the "Item" start tag and the "name" attribute -->	
<!-- to enter system-specific information. -->	
<!-- The following is a list of default elements. -->	
<!-- Normally, attributes are entered between the <Item ...> start tag and -->	
<!-- the </Item> end tag. -->	
<!-- Administrator password (six characters) -->	
<Item name = "admin-pwd">424242</Item>	→ page 4-5
<!-- System description up to 24 characters long (for four-line display) -->	

Sample Configurations

System Configuration

Element or description	WBM
<Item name = "system-description">Siemens Communications</Item>	→ page 4-5
<!-- The DNS domain name, e.g. ust.local -->	
<Item name = "dns-domain-name">ust.local</Item>	→ page 4-4
<!-- The default and second DNS server IP address -->	
<Item name = "dns-server-addr">172.16.127.2</Item>	→ page 4-4
<Item name = "dns-server-addr2">172.16.127.3</Item>	→ page 4-4
<!-- Describes the LAN port operation mode (0 = auto, 1 = 10 Mbps, 2 = 100 Mbps) -->	
<Item name = "port1">0</Item>	→ page 4-13
<Item name = "port2">0</Item>	→ page 4-13
<!-- Registration time (in seconds) before reregistration is necessary, e.g. 3600 -->	
<Item name = "reg-ttl">3600</Item>	→ page 4-5
<!-- Registrar IP address or domain name -->	
<Item name = "registrar-addr">as.broadworks.net</Item>	→ page 4-5
<!-- SIP server IP address or domain name -->	
<Item name = "reg-addr">as.broadworks.net</Item>	→ page 4-5
<!-- SIP server type (1=HiQ8000, 2=BroadSoft, 3=Sylantro, 4=other) -->	
<Item name = "server-type">2</Item>	→ page 4-5
<!-- Session timer enabled (true or false) -->	
<Item name = "session-timer">>false</Item>	→ page 4-5
<!-- Session duration e.g. 3600 -->	
<Item name = "session-duration">3600</Item>	→ page 4-5
<!-- Gateway IP address (if used) -->	
<Item name = "sgnl-gateway-addr">0.0.0.0</Item>	→ page 4-5
<!-- Routing type (0 = server router, 2 = gateway routed) -->	
<Item name = "sgnl-route">0</Item>	→ page 4-5
<!-- Transport protocol, (0 = UDP, 1 = TCP, 2 = TLS) -->	
<Item name = "sip-transport">0</Item>	→ page 4-5
<!-- Outbound proxy (true/false) -->	
<Item name = "outbound-proxy">>true</Item>	→ page 4-5
<!-- Default outbound proxy domain -->	
<Item name = "default-domain">as.broadworks.net</Item>	→ page 4-5
<!-- Country setting, (0 = US, 1 = UK, 2 = DE, 3 = FR, 4 = IT, 5 = ES, 6 = AT, -->	
<!-- 7= CH, 8=BE) -->	

Element or description	WBM
<Item name="country">0</Item>	→ page 4-31
<!-- Language (0 = English, 1 = German, 2 = French, 3 = Spanish, 4 = Italian) -->	
<Item name="language">0</Item>	→ page 4-32
<!-- SNTP server IP address or domain name -->	
<Item name="sntp-addr">172.16.127.2</Item>	→ page 4-9
<!-- SNTP time zone offset in minutes -->	
<Item name="sntp-tz-offset">60</Item>	→ page 4-9
<!-- Daylight saving (true false) -->	
<Item name="daylight-save">true</Item>	→ page 4-9
<!-- Ringer setting (alert type^melody^tone^duration) -->	
<Item name="alert" index="1">http://127.0.0.1/Bellcore-dr2^7^3^60</Item>	→ page 4-12
<Item name="alert" index="2">http://127.0.0.1/Bellcore-dr3^8^2^60</Item>	→ page 4-12
<Item name="alert" index="3">http://127.0.0.1/Bellcore-dr4^4^2^60</Item>	→ page 4-12
<Item name="alert" index="4">http://127.0.0.1/Bellcore-dr5^1^1^60</Item>	→ page 4-12
<!-- Dial plan settings -->	
<!-- Dial plan ID (!Identifier) -->	
<Item name="dial-plan-id">!Interop</Item>	→ page 4-21
<!-- Dial plan entries (digits^C S^min^max^timer^limitation^B E^comment^)-->	
<Item name="dial-plan-entry" index="1">3^S^^4^^#^B^4 digit bypass extension^</Item>	→ page 4-21
<Item name="dial-plan-entry" index="2">561^S^^10^^#^^10 digit number^</Item>	→ page 4-21
<Item name="dial-plan-entry" index="3">911^S^3^3^^E^emergency number^</Item>	→ page 4-21
<Item name="dial-plan-entry" index="4">0^S^^15^^#^^national calls^</Item>	→ page 4-21
<Item name="dial-plan-entry" index="5">1^S^^15^^#^^trunk 1^</Item>	→ page 4-21
<Item name="dial-plan-entry" index="6">2^S^^15^^#^^trunk 2^</Item>	→ page 4-21
<Item name="dial-plan-entry" index="7">4^S^^15^^#^^trunk 4^</Item>	→ page 4-21
<Item name="dial-plan-entry" index="8">6^S^^15^^#^^trunk 6^</Item>	→ page 4-21
<Item name="dial-plan-entry" index="9">7^S^^15^^#^^trunk 7^</Item>	→ page 4-21
<Item name="dial-plan-entry" index="10">81^S^^15^^#^^international calls^</Item>	→ page 4-21
<!-- Dial plan enabled (true false) -->	
<Item name = "dial-plan-enabled">true</Item>	→ page 4-21
<!-- Audio mode (0=high quality preferred, 1=low bandwidth preferred -->	
<!-- 2=low bandwith only, 3=G.711 preferred) -->	
<Item name = "audio-mode">0</Item>	→ page 4-11

Sample Configurations

System Configuration

Element or description	WBM
<!-- Compression (0 = G.729, 1 = G.723) -->	
<Item name = "audio-compression">0</Item>	→ page 4-11
<!-- Audio packet size (0 = 10 ms, 1= 20 ms, 2 = auto) -->	
<Item name = "audio-packet-size">1</Item>	→ page 4-11
<!-- After registration, check for updates, e.g. every 7200 seconds; 0 = don't check -->	
<Item name = "config-periodic-timer">7200</Item>	→ page 4-25
<!-- If registration fails, check for updates, e.g. every 360 seconds. -->	
<Item name = "config-retry-timer">360</Item>	→ page 4-25
<!-- Voicemail number -->	
<Item name = "voice-mail-e164">3020</Item>	→ page 4-5
<!-- Emergency number -->	
<Item name = "emergency-e164">911</Item>	→ page 4-5
<!-- -->	
<!-- Function key definition. The element with the <item start tag is used -->	
<!-- to define attributes. The Index attribute is used to select a -->	
<!-- function key and assign it a value. -->	
<!-- -->	
<!-- The format depends on the attribute and is entered between -->	
<!-- the <Item ...> start tag and the </Item> end tag. -->	
<!-- -->	
<!-- Multiple attributes can be used to create -->	
<!-- a complete configuration. -->	
<!-- Assign "Headset" to function key 3 -->	
<Item name = "function-key-def" index = "3">24</Item>	→ page 4-15
<!-- Assign "Voice Messages" to function key 4 -->	
<Item name = "function-key-def" index = "4">5</Item>	→ page 4-15
<!-- Assign "Repertory dial" to function key 5 -->	
<Item name = "function-key-def" index = "5">1</Item>	→ page 4-16
<!-- Assign "Key label" to function key 5 (optiPoint 420 only) -->	
<Item name = "key-label" index = "5">Phone3 3019</Item>	→ page 4-16
<!-- Enter destination for function key 5 -->	
<Item name = "select-dial" index = "5">3019</Item>	→ page 4-16
<!-- Assign "Repertory dial" to shifted function key 5 -->	

Element or description	WBM
<Item name = "function-key-def" index = "1005">1</Item>	→ page 4-16
<!-- Assign "Key label" to shifted function key 5 (optiPoint 420 only) -->	
<Item name = "key-label" index = "1005">Phone1 3009</Item>	→ page 4-16
<!-- Enter destination for shifted function key 5 -->	
<Item name = "select-dial" index = "1005">3009</Item>	→ page 4-16
<!-- Assign a line to function key 6 -->	
<Item name = "function-key-def" index = "6">31</Item>	→ page 4-15
<!-- Assign a line to function key 7 -->	
<Item name = "function-key-def" index = "7">31</Item>	→ page 4-15
<!-- Assign "Phone lock" to function key 8 -->	
<Item name = "function-key-def" index = "8">21</Item>	→ page 4-15
<!-- Assign "Deflect call" to function key 9 -->	
<Item name = "function-key-def" index = "9">14</Item>	→ page 4-15
<!-- Assign "Feature toggle" to function key 10 -->	
<Item name = "function-key-def" index = "10">11</Item>	→ page 4-15
<!-- Assign "Transfer" to function key 11 -->	
<Item name = "function-key-def" index = "11">12</Item>	→ page 4-15
<!-- Assign "Join" to function key 12 -->	
<Item name = "function-key-def" index = "12">13</Item>	→ page 4-15
<!-- Assign "Do not disturb" to function key 13 -->	
<Item name = "function-key-def" index = "13">25</Item>	→ page 4-15
<!-- Assign "Hold" to function key 14 -->	
<Item name = "function-key-def" index = "14">10</Item>	→ page 4-15
<!-- Assign "Mute" to function key 15 -->	
<Item name = "function-key-def" index = "15">8</Item>	→ page 4-15
<!-- Assign "Setup menu" to function key 16 -->	
<Item name = "function-key-def" index = "16">15</Item>	→ page 4-15
</ItemList>	
</Message>	

5.1.1 Assignment for Function Key Definition

The following table lists the possible functions and assignments as they should be entered in the XML element.

Assignment	Function
1	Selected dialing
2	Abbreviated dialing
3	Repeat dialing
4	Missed calls
5	Voice Messages
6	Forwarding
7	Loudspeaker
8	Mute
9	Ringer off
10	Hold
11	Alternate
12	Transfer call
13	Join
14	Deflect
15	Setup menu
16	Room echoing
17	Room muffled
18	Shift
19	Notebook
20	Settings
21	Phone lock
22	Conference
23	Local conference
24	Headset
25	Do not disturb
26	Deflect
27	Setup menu
28	Room echoing
29	Group pickup
30	Repertory dial
31	Line

5.2 Device Configuration for Multiline

To provide a better overview, the items in the following table are highlighted gray. The column on the right contains a reference to the WEB interface where the parameters are manually entered. The following example shows the device configuration for an optiPoint 420 advance, configured as a multiline phone.

Device configuration file **op420adv_conf0001e323eea1.xml**

Element or description	WBM
<?xml version = "1.0" encoding = "utf-8" ?>	
- <Message>	
<Action>WriteItems</Action>	
- <ItemList>	
<!-- Caution!! Empty attribute entries will delete associated data. -->	
<!-- If you do not want to configure an attribute, -->	
<!-- the element must be deleted in the XML file. -->	
<!-- The device configuration version attribute should be the first element. -->	
<!-- -->	
<!-- The value should have the format "2005.01 12:00 GMT" and be -->	
<!-- assigned to the attribute name with the keyword " device-config-version ". -->	
<!-- The expression should be entered between the <Item ...> start tag and the -->	
<!-- </Item> end tag. -->	
<!-- -->	
<!-- For example, <Item name = "device-config-version">2005.01 12:00 GMT</Item> -->	
<!--Make sure you enter spaces before and after the "=" sign -->	
<Item name = "device-config-version">2005.07.19 06:09 GMT</Item>	
- <!-- Terminal number -->	
<Item name = "e164">3015553005</Item>	→ page 4-5
- <!-- Terminal name -->	
<Item name = "sip-name">John Doe</Item>	→ page 4-5
- <!-- Register by name (true or false) -->	
<Item name = "register-by-name">>false</Item>	→ page 4-5
<!-- Configuration for primary line on function key 6 -->	
<!-- Enter AoR (Address of Record) e.g. phone number -->	
<Item name = "line-sip-uri" index = "6">3015553009</Item>	→ page 4-17
<!-- Set primary line flag (true or false) -->	

Sample Configurations

Device Configuration for Multiline

Element or description	WBM
<Item name = "line-primary" index = "6">true</Item>	→ page 4-17
<!-- Automatic line hunt sequence (0 to 10, 0 = not selected) -->	
<Item name = "line-hunt-sequence" index = "6">1</Item>	→ page 4-17
<!-- Line shared type (0=shared, 1=private, 2=unknown) -->	
<Item name = "line-shared-type" index = "6">0</Item>	→ page 4-17
- <!-- SIP registration -->	
<Item name = "line-sip-realm" index = "6">as.broadworks.net</Item>	→ page 4-17
- <!-- SIP user ID -->	
<Item name = "line-sip-user-id" index = "6">3015553009</Item>	→ page 4-17
- <!-- SIP password -->	
<Item name = "line-sip-pwd" index = "6">0dskmwefd</Item>	→ page 4-17
<!-- Key label (optiPoint 420 only) -->	
<Item name = "key-label" index = "6">3009</Item>	→ page 4-17
<!-- Configuration for primary line on function key 7 -->	
<!-- Enter AoR (Address of Record) e.g. phone number -->	
<Item name = "line-sip-uri" index = "7">3015553019</Item>	→ page 4-17
<!-- Set primary line flag (true or false) -->	
<Item name = "line-primary" index = "7">>false</Item>	→ page 4-17
<!-- Automatic line hunt sequence (0 to 10, 0 = not selected) -->	
<Item name = "line-hunt-sequence" index = "7">2</Item>	→ page 4-17
<!-- Line shared type (0=shared, 1=private, 2=unknown) -->	
<Item name = "line-shared-type" index = "7">0</Item>	→ page 4-17
- <!-- SIP registration -->	
<Item name = "line-sip-realm" index = "7">as.broadworks.net</Item>	→ page 4-17
- <!-- SIP user ID -->	
<Item name = "line-sip-user-id" index = "7">3015553019</Item>	→ page 4-17
- <!-- SIP password -->	
<Item name = "line-sip-pwd" index = "7">9rijo4nmf</Item>	→ page 4-17
<!-- Key label (optiPoint 420 only) -->	
<Item name = "key-label" index = "7">3019</Item>	→ page 4-17
<!-- Feature access (true or false) -->	
<!-- Specifies which features are available on a user's phone. -->	
- <!-- True means that the feature is released. -->	

Element or description	WBM
<!-- Call hold -->	
<Item name = "feature-availability" index = "0">true</Item>	→ page 4-23
<!-- Call deflection -->	
<Item name = "feature-availability" index = "1">true</Item>	→ page 4-23
<!-- Call forwarding -->	
<Item name = "feature-availability" index = "2">true</Item>	→ page 4-23
<!-- Log forwarded calls -->	
<Item name = "feature-availability" index = "3">true</Item>	→ page 4-23
<!-- Call duration -->	
<Item name = "feature-availability" index = "4">true</Item>	→ page 4-23
<!-- Call waiting -->	
<Item name = "feature-availability" index = "5">true</Item>	→ page 4-23
<!-- Call transfer -->	
<Item name = "feature-availability" index = "6">true</Item>	→ page 4-23
<!-- Call join -->	
<Item name = "feature-availability" index = "7">true</Item>	→ page 4-23
<!-- Call display by name -->	
<Item name = "feature-availability" index = "8">true</Item>	→ page 4-23
<!-- Call display by number -->	
<Item name = "feature-availability" index = "9">true</Item>	→ page 4-23
<!-- Music on hold -->	
<Item name = "feature-availability" index = "10">true</Item>	→ page 4-23
<!-- Do not disturb -->	
<Item name = "feature-availability" index = "11">true</Item>	→ page 4-23
<!-- Message waiting -->	
<Item name = "feature-availability" index = "12">true</Item>	→ page 4-23
<!-- Local conference -->	
<Item name = "feature-availability" index = "13">true</Item>	→ page 4-23
<!-- Auto answer – CTI -->	
<Item name = "feature-availability" index = "14">true</Item>	→ page 4-23
<!-- Auto reconnect – CTI -->	
<Item name = "feature-availability" index = "15">true</Item>	→ page 4-23
<!-- WAP browser on DSM -->	

Sample Configurations

Device Configuration for Multiline

Element or description	WBM
<Item name = "feature-availability" index = "16">false</Item>	→ page 4-23
<!-- optiPoint display module - LDAP on DSM -->	
<Item name = "feature-availability" index = "17">false</Item>	→ page 4-23
<!-- Telephony on DSM -->	
<Item name = "feature-availability" index = "18">false</Item>	→ page 4-23
<!-- Voice recognition on DSM -->	
<Item name = "feature-availability" index = "19">false</Item>	→ page 4-23
<!-- Speed dial on DSM -->	
<Item name = "feature-availability" index = "20">false</Item>	→ page 4-23
<!-- ENB on DSM -->	
<Item name = "feature-availability" index = "21">false</Item>	→ page 4-23
<!-- Call park (Sylantro only) -->	
<Item name = "feature-availability" index = "22">false</Item>	→ page 4-23
<!-- Call pickup -->	
<Item name = "feature-availability" index = "23">false</Item>	→ page 4-23
<!-- End key assignment -->	
- <!-- FTP download parameters -->	
<Item name = "dl-ftp-addr">172.16.127.3</Item>	→ page 4-8
<Item name = "dl-ftp-username">anonymous</Item>	→ page 4-8
<Item name = "dl-ftp-password">123456</Item>	→ page 4-8
<Item name = "dl-ftp-path">v4.1.31a/420 advance</Item>	→ page 4-8
<Item name = "dl-ftp-firmware-filename">420adv.app</Item>	→ page 4-8
</ItemList>	
</Message>	

5.3 Device Configuration for Single Line

To provide a better overview, the items in the following table are highlighted gray. The column on the right contains a reference to the WEB interface where the parameters are manually entered. The following example shows the device configuration for an optiPoint 410 economy, configured as a single line phone.

Device configuration file **op410eco_conf0001e322e68c.xml**

Element or description	WBM
<?xml version = "1.0" encoding = "utf-8" ?>	
- <Message>	
<Action>WriteItems</Action>	
- <ItemList>	
<!-- Caution!! Empty attribute entries will delete associated data. -->	
<!-- If you do not want to configure an attribute, -->	
<!-- the element must be deleted in the XML file. -->	
<!-- The device configuration version attribute should be the first element. -->	
<!-- The value should have the format "2005.01 12:00 GMT" and be -->	
<!-- assigned to the attribute name with the keyword " device-config-version ". -->	
<!-- The expression should be entered between the <Item ...> start tag and the -->	
<!-- </Item> end tag. -->	
<!-- For example, <Item name = "device-config-version">2005.07.06 08:40 GMT</Item> -->	
<!--Make sure you enter spaces before and after the "=" sign -->	
<Item name = "device-config-version">2005.07.06 08:40 GMT</Item>	
- <!-- Phone number -->	
<Item name = "e-164">3015553006</Item>	→ page 4-5
- <!-- Terminal Name -->	
<Item name = "sip-name">John Doe jr.</Item>	→ page 4-5
- <!-- Register by name (true or false) -->	
<Item name = "register-by-name">>false</Item>	→ page 4-5
<!-- SIP realm -->	
<Item name = "realm">as.broadworks.net</Item>	→ page 4-5
<!--SIP user ID -->	
<Item name = "sip-user-id">3015553006</Item>	→ page 4-5
<!-- SIP password -->	
<Item name = "sip-pwd">dfg04go6t</Item>	→ page 4-17

Sample Configurations

Device Configuration for Single Line

Further element descriptions are identical or similar to those provided for multiline phones on page 5-7, from the feature **access** section **onwards**.

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