BluStar for PC
Configuration Parameters

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BluStar for PC Client Configuration Parameters
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1 INTRODUCTION

This document describes the configuration parameters used in the system, model and user specific configuration files of BluStar client.

1.1 CONFIGURATION FILES LOCAL STORAGE LOCATION

The configuration files are stored within the %APPDATA% folder of the current Windows user:

Win 7/8: %APPDATA%\Roaming\Aastra\BluStar

1.2 SYSTEM CONFIGURATION FILE (AASTRA.CFG)

The system configuration file is either provided during installation of the client or downloaded from the configuration server after the user has provided appropriate login credentials and a configuration server URI.

The local file is modified with user name, password and configuration server URI (if available) as entered by the user. The rest of the settings are overwritten with contents from the downloaded system configuration file, if available.

1.3 MODEL CONFIGURATION FILE (BSCPC.CFG)

The model specific configuration file contains client settings that either serve as defaults for user-definable settings or which are proprietary for BluStar for PC. It is provided by the configuration server only and is therefore not present on clients that do not use a configuration server.

1.4 USER READ-ONLY CONFIGURATION FILE (BSCPC_<USER>.CFG)

This file contains read-only user specific settings that are to be shared across all BluStar for PC clients the respective user uses, regardless of the physical PC each client runs on. The file is linked to the user by the user login ID <user> being part of the filename.

The file is provided by the configuration server only and is therefore not present on clients that do not use a configuration server.

On start up, the client will try to retrieve the file from the configuration server. If successful, the local file will be replaced by the downloaded file.

1.5 USER CONFIGURATION FILE (BSCPC_<USER>_LOCAL.CFG)

This file contains user specific settings which were defined by the user and which are to be shared across all BluStar for PC clients the respective user uses, regardless of the physical PC each client runs on. The file is linked to the user by the user login ID <user> being part of the filename.

The file is uploaded to the configuration server after changes to user defined settings.

Note: upload of user specific files is not supported for MiVoice 5000

On startup, the client will try to retrieve the file from the configuration server. If successful, the local file will be replaced by the downloaded file.

1.6 USER PREFERENCES FILE (BSCPC_PREFS_<USER>.CFG)

This file is an extension of the user configuration file BSCpc_<user>.cfg, containing complex data (contacts, call history entries, directory images) in compressed XML format. It is handled in the same way as the user configuration file.

Due to possible large file size, down- and upload can be prevented if necessary in order to save configuration server disk space.

Note: upload of user specific files is not supported for MiVoice 5000

1.7 USER LOCAL PREFERENCES FILE (BSCPC_MYPREFERENCES_<USER>.CFG)

The local preferences file contains user defined, workstation-dependent settings (audio/video devices settings, window positions on screen, etc.) that cannot be shared across different PCs.

This file is not down- or uploaded but only stored locally. The contents of this file are not subject of this documentation as they are not intended to be changed directly by administrators or users.

1.8 ORDER OF PRECEDENCE

System and model settings are predefined by an administrator and cannot be changed by the user. However, user defined settings can override corresponding system and model defaults.

In general, any configuration file from aastra.cfg to BSCpc_<user> cfg can contain any setting. However, if a setting occurs in multiple files, it is considered in a bottom-up priority order, ignoring further occurrences in the other files:

```
BSCpc_<user>_local.cfg overrides BSCpc_<user>.cfg overrides
BSCpc.cfg overrides aastra.cfg
```

1.9 PARAMETER LOCKING AND PARAMETER OVERRIDING

1.9.1 PARAMETER LOCKING

The exclamation mark character ("!") can be prefixed to a parameter name in order to mark it as locked, i. e. the user will not be able to change it. GUI elements for the manipulation of locked parameters will be disabled.

If a parameter is locked in one of the configuration files, it is considered locked for all files, even if a higher ranking file in the order of precedence (see 1.8 Order of precedence) contains the same parameter in unlocked state.

Example: !configuration server uri : http://blustar.acme.com

1.9.2   PARAMETER OVERRIDING

Parameter overriding is indicated by the caret character ("^") and has an effect only on user configuration files. A parameter marked in this way will overwrite the values of other occurrences of the same parameter of higher order of precedence (see 1.8 Order of precedence) in the user files. However, the overridden parameters will not be deleted from the affected file(s).

Example: ^configuration server uri : http://blustar.acme.com

2   LOG FILES

The BluStar client logs its activities in 3 categories of files

- "BluStar_<yymmtt>.log"

- "MSRP_<yymmtt>.log"

- "sipLog.txt" / "sipLog1.txt"

The log files are located in the directory: %LOCALAPPDATA%\Aastra\BluStar\Log (Windows 7/8)

2.1   LOG FILES "BLUSTAR_<YYMMTT>.LOG" AND "MSRP_<YYMMTT>.LOG"

- The BluStar application creates one log file each for every day

- The BluStar application deletes log files older than 4 days on application start (only)

- The log level can be adjusted using the configuration file parameter <log module user interface>

    o The default value of <log module user interface> is "6"

    o The maximum value of <log module user interface> is "9"

    o If the option "Detailed logging" in the configuration dialog is not checked ("General → Advanced → Maintenance") the value of the parameter <log module user interface> is decreased to "3". Note that "Detailed logging" is "on" by default.

2.2   LOG FILES "SIPLOG.TXT" AND "SIPLOG1.TXT"

- The BluStar application checks if the file „sipLog.txt" is larger than 8 MB on start-up and every 20 minutes. If the file is larger than 8 MB further logging information is written to the file „sipLog1.txt"

- If the file „sipLog1.txt" exceeds 8 MB the logging changes back to the file „sipLog.txt" which will be deleted before writing new information

- So the total file size of both "sipLog.txt" and "sipLog1.txt" will not exceed 16 MB (temporarily it may exceed this value a little bit when switching between both files)

- The log level can be adjusted using the configuration file parameter <log module sip>

    o The default value of <log module sip> is "3"

    o The maximum value of <log module sip> is "9"

    o If the option "Detailed logging" in the configuration dialog is not checked ("General → Advanced → Maintenance") the value of the parameter <log module sip> is decreased to "0". Note that "Detailed logging" is "on" by default.

3 CONFIGURATION PARAMETERS

3.1 CONFIGURATION SERVER SETTINGS

3.1.1 CONFIG USER NAME

Description	User name for configuration server if retrieval of configuration files is accomplished via HTTP or FTP
Recommended in	aastra.cfg
Data type	String
Value range	n/a
Default value	(none)

3.1.2 CONFIG PASSWORD

Description	User's login password for configuration server
Recommended in	aastra.cfg
Data type	String
Value range	n/a
Default value	(none)

3.1.3 FORCE CONFIG URL CREDENTIALS

Description	Force usage of provided inline authentication credentials also for client/user configuration files
Recommended in	aastra.cfg
Data type	Integer
Value range	0 or 1
Default value	0

3.1.4 CONFIGURATION SERVER URI

Description	Configuration server for client/user configuration files
Recommended in	aastra.cfg, BSCpc_<user>.cfg, BSCpc_<user>_local.cfg
Data type	String
Value range	Full URL including protocol identifier and directory path
Default value	(none)
Remark	• If **user config url** is defined, user configuration files will be retrieved from/uploaded to the location indicated there • The supported protocols are FTP and HTTP

Remark for FTP	FTP URLs can use inline authentication credentials:
	ftp://<ftp username>:<ftp password>@<server>
	The inline credentials are used to load global configuration files <aastra.cfg> and <BSCpc.cfg>.
	The inline credentials interfere with the client's user login credentials in the following way:
	• *FTP credentials defined and no user login password entered*: FTP credentials are used for login to configuration server
	• *user login credentials available*: FTP credentials are ignored
	• *user login password missing and no FTP credentials*: anonymous FTP login

3.1.5 USER CONFIG URL

Description	Storage location of user configuration files if different from system and model configuration file location
Recommended in	BSCpc.cfg
Data type	String
Value range	Full URL including protocol identifier and directory path
Default value	(none)
Remark	• If not defined, the user configuration files will be retrieved from/uploaded to the location defined by configuration server uri
	• The supported protocols are FTP and HTTP

3.1.6 HTTPS VALIDATE CERTIFICATES

Description	Defines whether a server certificate is to be validated when using an SSL connection
Recommended in	aastra.cfg
Data type	Integer
Value range	0 (no), 1 (yes)
Default value	1
Remark	• If set to 0, an invalid or missing certificate will be ignored and the client will continue with authentication and configuration file download.
	• If set to 1 (default) and the certificate is invalid or missing, the client will not authenticate towards the configuration server and will not download configuration files. Further download attempts will be discarded.

3.1.7 USER CONFIG UPLOAD

Description	Defines the interval (in seconds) for checking whether changes in configuration files occurred. In case of changes, an upload to the configuration server is triggered.
Recommended in	aastra.cfg, BSCpc.cfg, BSCpc_<user>.cfg
Data type	Integer
Value range	0 - 16400
Default value	3600 (1 hr)
Remark	• A value of 0 disables the periodic check. Configuration files are then uploaded to the configuration server only when the client is being closed.
	• Values beyond the defined value range result in the default value becoming effective.

3.1.8   DISABLE USER PREFERENCES FILE TRANSFER

Description	Indicates whether BSCpc_prefs_<user>.cfg shall be downloaded from and uploaded to the configuration server
Recommended in	aastra.cfg, BSCpc.cfg
Data type	Boolean (string or integer representation)
Value range	True (1), False (0)
Default value	False
Remark	Set the value to *False* if large file size has negative impact on configuration server performance or disk space.

3.1.9   FORCE AUTOMATIC CONFIGURATION

Description	Forcing automatic configuration file handling for the client
Recommended in	aastra.cfg
Data type	Integer
Value range	0 or 1
Default value	0
Remark	Setting the value to 1 will disable the checkbox "Automatic configuration" in the Options dialog.

3.2   SERVER, SIP AND SERVICES CONNECTION SETTINGS

3.2.1   SIP USER NAME

Description	SIP login user name as required by the PBX (can be directory/Windows user name, extension number, etc.)
Recommended in	(aastra.cfg,) BSCpc_<user>.cfg, BSCpc_<user>_local.cfg
Data type	String
Value range	n/a
Default value	(none)
Remark	Also stored in aastra.cfg if **config user name** is not explicitly defined

3.2.2   SIP PASSWORD

Description	User's login password for PBX
Recommended in	(aastra.cfg,) BSCpc_<user>.cfg, BSCpc_<user>_local.cfg
Data type	String
Value range	n/a
Default value	(none)
Remark	Must not be encrypted on the configuration server side Also stored in aastra.cfg if **config password** is not explicitly defined

3.2.3 SIP PROXY IP

Description	SIP proxy (call manager) IP address/host name
Recommended in	BSCpc.cfg, BSCpc_<user>.cfg, BSCpc_<user>_local.cfg
Data type	String
Value range	n/a
Default value	(none)
Remark	When using TLS/SRTP (**sip transport protocol : 4**) you have to use the FQDN of the call manager as it is used in the certificate

3.2.4 SIP PROXY PORT

Description	SIP proxy (call manager) port
Recommended in	BSCpc.cfg, BSCpc_<user>.cfg, BSCpc_<user>_local.cfg
Data type	Integer
Value range	Valid IP port number (1024-65535)
Default value	5060
Remark	When using TLS/SRTP (**sip transport protocol : 4**) the value needs to be changed accordingly (most likely to 5061)

3.2.5 SIP BACKUP PROXY IP

Description	Backup SIP proxy (call manager) IP address/host name
Recommended in	BSCpc.cfg
Data type	String
Value range	n/a
Default value	(none)

3.2.6 SIP BACKUP PROXY PORT

Description	Backup SIP proxy (call manager) port
Recommended in	BSCpc.cfg
Data type	Integer
Value range	Valid IP port number (1024-65535)
Default value	5060

3.2.7 SIP OUTBOUND PROXY

Description	Outbound SIP proxy IP address/host name
Recommended in	BSCpc.cfg, BSCpc_<user>.cfg, BSCpc_<user>_local.cfg
Data type	String
Value range	n/a
Default value	(none)

3.2.8 SIP OUTBOUND PROXY PORT

Description	Outbound SIP proxy port
Recommended in	BSCpc.cfg, BSCpc_<user>.cfg, BSCpc_<user>_local.cfg
Data type	Integer
Value range	Valid IP port number (1024-65535)
Default value	5060

3.2.9 SIP BACKUP OUTBOUND PROXY

Description	Backup outbound SIP proxy IP address/host name
Recommended in	BSCpc.cfg
Data type	String
Value range	n/a
Default value	(none)

3.2.10 SIP BACKUP OUTBOUND PROXY PORT

Description	Backup outbound SIP proxy port
Recommended in	BSCpc.cfg
Data type	Integer
Value range	Valid IP port number (1024-65535)
Default value	5060

3.2.11 SIP PRESENCE SERVER

Description	BluStar Server IP address/host name
Recommended in	BSCpc.cfg, BSCpc_<user>.cfg, BSCpc_<user>_local.cfg
Data type	String
Value range	n/a
Default value	(none)

3.2.12 SIP PRESENCE PORT

Description	BluStar Server port
Recommended in	BSCpc.cfg, BSCpc_<user>.cfg, BSCpc_<user>_local.cfg
Data type	Integer
Value range	Valid IP port number (1024-65535)
Default value	5060

3.2.13   SIP PRESENCE OUTBOUND PROXY

Description	BluStar Server outbound proxy IP address/host name
Recommended in	BSCpc.cfg, BSCpc_<user>.cfg, BSCpc_<user>_local.cfg
Data type	String
Value range	n/a
Default value	(none)

3.2.14   SIP PRESENCE OUTBOUND PROXY PORT

Description	BluStar Server outbound SIP proxy port
Recommended in	BSCpc.cfg, BSCpc_<user>.cfg, BSCpc_<user>_local.cfg
Data type	Integer
Value range	Valid IP port number (1024-65535)
Default value	5060

3.2.15   SIP PRESENCE USER NAME

Description	User's e-mail address as used by the Presence Server to uniquely identify the user.
Recommended in	BSCpc_<user>.cfg, BSCpc_<user>_local.cfg
Data type	String
Value range	Valid e-mail address
Default value	(none)

3.2.16   SIP PRESENCE SERVER USER NAME

Description	Active Directory user name used to authenticate the user to the Presence Server
Recommended in	BSCpc_<user>.cfg, BSCpc_<user>_local.cfg
Data type	String
Value range	n/a
Default value	(currently logged on Windows user name)

3.2.17   SIP PRESENCE SERVER USER PASSWORD

Description	Active Directory password used to authenticate the user to the Presence Server
Recommended in	BSCpc_<user>_local.cfg
Data type	String
Value range	n/a
Default value	(none)

3.2.18   SIP PRESENCE USER PASSWORD SAVE

Description	Indicates whether the **sip presence user password** is to be saved to file for permanent use, or if the user is to be prompted for it on each client launch again
Recommended in	aastra.cfg, BSCpc.cfg, BSCpc_<user>.cfg, BSCpc_<user>_local.cfg
Data type	Integer
Value range	0 (no), 1 (yes)
Default value	1 (yes)

3.2.19   SIP LOCAL PORT

Description	Local port for SIP connections
Recommended in	BSCpc.cfg
Data type	Integer
Value range	Valid IP port number (1024-65535)
Default value	0
Remark	With value 0 a random port between 49152 and 65535 will be used.

3.2.20   SIP TRANSPORT PROTOCOL

Description	SIP transport protocol
Recommended in	aastra.cfg, BSCpc.cfg, BSCpc_<user>.cfg
Data type	Enumeration (Integer)
Value range	0 = UDP or TCP 1 = UDP 2 = TCP 4 = TLS
Default value	0
Remark	If the parameter value is 0, UDP is used in the first place. If UDP fails, the client automatically switches to TCP.

3.2.21   SIP SRTP MODE

Description	Enable / force using SRTP for audio (SRTP for video is not supported)
Recommended in	aastra.cfg, BSCpc.cfg, BSCpc_<user>.cfg
Data type	Integer
Value range	0 = SRTP disabled 1 = SRTP preferred 2 = SRTP only – will not serve non-SRTP connections
Default value	0

3.2.22   SIPS TRUSTED CERTIFICATES

Description	URL where the certificate for validation of the call server will be downloaded from. Supported protocols: ftp, http, https
Recommended in	aastra.cfg, BSCpc.cfg, BSCpc_<user>.cfg
Data type	String
Value range	n/a
Default value	(none)
Remark	sftp is not supported, https is recommended. Example: *ftp://ftp:sesam123!@10.103.173.66/commxone-CA.pem*

3.2.23   TLS VALIDATE CERTIFICATES

Description	Defines whether a server certificate is to be validated when using an TLS connection
Recommended in	aastra.cfg
Data type	Integer
Value range	0 (no), 1 (yes)
Default value	1
Remark	If set to 0, an invalid or missing certificate will be ignored and the client will continue.

3.2.24   SIP REGISTRATION TIMEOUT RETRY TIMER

Description	SIP session duration (in seconds)
Recommended in	BSCpc.cfg
Data type	Integer
Value range	(not defined)
Default value	3600

3.2.25   SIP URI DIAL DIRECT

Description	Enable or disable direct dialing to SIP URI targets. If enabled, the device will dial directly to the SIP URI target. Otherwise, if disabled, the device will dial via the PBX.
Recommended in	aastra.cfg, BSCpc.cfg, BSCpc_<user>.cfg
Data type	Integer
Value range	0 (disabled), 1 (enabled)
Default value	1

3.2.26 SIP URI DIAL DIRECT EXCLUSION DOMAIN LIST

Description	Defines an exclusion list of domains which have to be dialed via the PBX. Only applicable with <sip uri dial direct : 1>.
Recommended in	aastra.cfg, BSCpc.cfg, BSCpc_<user>.cfg
Data type	String
Value range	List of domains, separated by semicolon
Default value	(none)

3.2.27 TOS RTP

Description	Differentiated Services Code Point (DSCP) for audio RTP packets
Recommended in	BSCpc.cfg
Data type	String: Hexadecimal number prepended by "0x" - or - Integer value
Value range	0-255
Default value	Hex: 0x00 / Int: 0
Remark	Application-controlled DSCP is deprecated since Windows 7. DSCP must be set by local or global QoS group policy instead.

3.2.28 TOS RTP VIDEO

Description	Differentiated Services Code Point (DSCP) for video RTP packets
Recommended in	BSCpc.cfg
Data type	String: Hexadecimal number prepended by "0x" - or - Integer value
Value range	0-255
Default value	Hex: 0x00 / Int: 0
Remark	Application-controlled DSCP is deprecated since Windows 7. DSCP must be set by local or global QoS group policy instead.

3.2.29 TOS SIP

Description	Differentiated Services Code Point (DSCP) for SIP packets
Recommended in	BSCpc.cfg
Data type	String: Hexadecimal number prepended by "0x" - or - Integer value
Value range	0-255
Default value	Hex: 0x00 / Int: 0
Remark	Application-controlled DSCP is deprecated since Windows 7. DSCP must be set

by local or global QoS group policy instead.

3.2.30   SIP RTP PORT

Description	Port range base for RTP audio transmissions
Recommended in	BSCpc.cfg
Data type	Integer
Value range	Valid IP port number (1024-65535) Must be an even number
Default value	40000
Remark	The size of the port range is defined by **sip rtp port range**

3.2.31   SIP RTP PORT RANGE

Description	Size of the port range for RTP audio transmissions
Recommended in	BSCpc.cfg
Data type	Integer
Value range	n/a
Default value	2000

3.2.32   SIP RTP VIDEO PORT

Description	Port range base for RTP video transmissions
Recommended in	BSCpc.cfg
Data type	Integer
Value range	Valid IP port number (1024-65535) Must be an even number
Default value	40000
Remark	The size of the port range is defined by **sip rtp video port range**

3.2.33   SIP RTP VIDEO PORT RANGE

Description	Size of the port range for RTP video transmissions
Recommended in	BSCpc.cfg
Data type	Integer
Value range	n/a
Default value	2000

3.2.34   MSRP MESSAGE TIMEOUT

Description	Timeout for an MSRP message after which the contacted client is considered unreachable (in milliseconds)
Recommended in	BSCpc.cfg
Data type	Integer
Value range	None

Default value	10000
Remark	A message will be displayed and the MSRP session will be closed.

3.2.35   UPDATE URL

Description	Source directory for client updates. Can be a local directory, network share, or HTTP/HTTPS URL
Recommended in	aastra.cfg
Data type	String
Value range	n/a
Default value	(none)
Remark	When using a SSL connection, parameter **https validate certificate** might be required, depending on the provided certificate.

3.2.36   UPDATE USER NAME

Description	User name for client update download authentication when **update url** is a web URL
Recommended in	aastra.cfg
Data type	String
Value range	n/a
Default value	(none)

3.2.37   UPDATE USER PASSWORD

Description	User password for client update download authentication when **update url** is a web URL
Recommended in	aastra.cfg
Data type	String
Value range	n/a
Default value	(none)
Remark	Password needs to be encrypted by the configuration server.

3.2.38   UPDATE INTERVAL

Description	Interval (in days) for checking for the availability of a new client update
Recommended in	aastra.cfg
Data type	Integer
Value range	>= -1
Default value	-1 (disabled)
Remark	-1: check for updates disabled 0: check for updates on each client launch > 0: check for updates every <n> days Parameter **last update check** defines the base for the calculation for when the next check is due.

3.2.39   LAST UPDATE CHECK

Description	Date and time of the last check for availability of client updates
Recommended in	aastra.cfg
Data type	String (date and time representation)
Value range	(a valid date and time value)
Default value	01.01.2000
Remark	The value gets modified by the client after each check for updates in local aastra.cfg. This parameter is not intended to be preset by a configuration server based definition.

3.2.40   UPDATE LOCAL

Description	Indicates if a previously downloaded, but not yet installed, update package is locally available for installation. This setting only applies to update packages downloaded from a web resource.
Recommended in	aastra.cfg
Data type	Boolean (integer representation)
Value range	0 (not available), 1 (available)
Default value	0 (not available)
Remark	The value gets modified by the client in local aastra.cfg according to the user's choice after a remotely available update was downloaded. This parameter is not intended to be preset by a configuration server based definition.

3.3   CTI SERVER SETTINGS

3.3.1   CTI SERVER

Description	CTI server IP address or host name
Recommended in	BSCpc.cfg
Data type	String
Value range	n/a
Default value	(none)

3.3.2   CTI SERVER PORT

Description	CTI server port
Recommended in	BSCpc.cfg
Data type	Integer
Value range	Valid IP port number (1024-65535)
Default value	5070

3.3.3   CTI SECONDARY SERVER

Description	Backup CTI server IP address or host name
Recommended in	BSCpc.cfg
Data type	String
Value range	n/a
Default value	(none)

3.3.4   CTI SECONDARY SERVER PORT

Description	Backup CTI server port
Recommended in	BSCpc.cfg
Data type	Integer
Value range	Valid IP port number (1024-65535)
Default value	5070

3.3.5   CTI EXTENSION

Description	User's extension number on CTI server
Recommended in	BSCpc_<user>.cfg, BSCpc_<user>_local.cfg
Data type	String
Value range	n/a
Default value	(none)

3.3.6   CTI PBX

Description	PBX link number to start <cti extension> on
Recommended in	BSCpc_<user>.cfg, BSCpc_<user>_local.cfg
Data type	String
Value range	Numerical value > 0
Default value	1

3.4   LICENSING SETTINGS

These parameters are used as part of the X-Aastra-Id header during SIP registration to allow MItel equipment to correctly identify the clients.

3.4.1   X AASTRA ID MODEL

Description	Identifies the model to be used by the BluStar client. This may depend on the licenses available.	
Recommended in	BSCpc_<user>.cfg	
Data type	String	
Value range	02	(Standard Softphone)
	04	(Video Softphone)

Default value   04

3.4.2   X AASTRA ID OPTIONS

Description	Identifies the option to be used by the BluStar client. This may depend on the licenses available.
Recommended in	BSCpc_<user>.cfg
Data type	String
Value range	01 (Plug-in MS Lync)
	04 (Video)
Default value	04

3.5   CLIENT FEATURES

3.5.1   SIP DISPLAY NAME

Description	User name to be displayed in the client GUI
Recommended in	BSCpc_<user>.cfg
Data type	String
Value range	n/a
Default value	(none)
Remark	This name is used for display if the user's name could not be found in the local contacts and configured directories.

3.5.2   SIP SCREEN NAME

Description	User name to be displayed in the client GUI
Recommended in	BSCpc_<user>.cfg
Data type	String
Value range	n/a
Default value	(none)
Remark	This name is used for display in the caption, if not set <sip display name> or <sip user name> will be displayed.

3.5.3   SIP VMAIL

Description	User's voice mail number
Recommended in	BSCpc.cfg, BSCpc_<user>.cfg, BSCpc_<user>_local.cfg
Data type	String
Value range	n/a
Default value	(none)

3.5.4 LANGUAGE

Description	Client language
Recommended in	BSCpc_<user>.cfg, BSCpc_<user>_local.cfg
Data type	String
Value range	Valid ISO 2-letter language name abbreviation:

de	(German)
en	(English)
es	(Spanish)
fr	(French)
it	(Italian)
nl	(Dutch)
pt-BR	(Brazil)
ru	(Russian)
sv	(Swedish)

(none)   - use current operating system language if one of the above, else "en" (English) is used automatically

Default value	(none) = currently set operating system language if supported, else English

3.5.5 TELEPHONY CODECS

Description	List of available telephony codecs
Recommended in	BSCpc.cfg
Data type	String (list of enumeration members)
Value range	Comma-separated list of enumeration members (as string representations):

PCMU
PCMA
G722
G729AB (only available in local markets)
ILBC

Default value	(none)

3.5.6 DEFAULT MEDIA TYPE

Description	Defines the standard media type to be used when invoking communication
Recommended in	BSCpc.cfg, BSCpc_<user>.cfg, BSCpc_<user>_local.cfg
Data type	String (Enumeration)
Value range	Audio

IM
Video
Email
ScreenShare
None

Default value	Audio

3.5.7 MAX H264 RX RATE

Description	Video stream reception (downstream) maximum allowed bitrate, in 1000 bit/s
Recommended in	aastra.cfg, BSCpc.cfg
Data type	Integer
Value range	128, 384, 768, 2304
Default value	2304
Remark	Overridden by **video max kbitrate** if defined
	Overrides bitrate defined by **video quality** and limits the selection of available video modes to those that use a less or equal bitrate
	Applies both to LAN and wireless settings

3.5.8 MAX H264 TX RATE

Description	Video stream transmission (upstream) maximum allowed bitrate, in 1000 bit/s
Recommended in	aastra.cfg, BSCpc.cfg
Data type	Integer
Value range	128, 384, 768, 2304
Default value	2304
Remark	Overridden by **video max kbitrate** if defined
	Overrides bitrate defined by **video quality** and limits the selection of available video modes to those that use a less or equal bitrate
	Applies both to LAN and wireless settings

3.5.9 VIDEO QUALITY

Description	Video stream resolution, framerate and bitrate
Recommended in	aastra.cfg, BSCpc.cfg, BSCpc_<user>.cfg, BSCpc_<user>_local.cfg
Data type	Enumeration (String representation)
Value range	Q160x90f30 (160x90 px, 30 fps, 128000 kbit/s)
	Q320x180f30 (320x180 px, 30 fps, 384000 kbit/s)
	Q640x360f30 (640x360 px, 30 fps, 768000 kbit/s)
	Q1280x720f30 (1280x720 px, 30 fps, 2304000 kbit/s)
Default value	Q640x360f30
Remark	The bitrate is overridden by **max h264 tx rate** if defined

3.5.10 VIDEO DISABLED

Description	Disable all video functionality
Recommended in	BSCpc.cfg
Data type	Integer (Boolean)

Value range	0 (false), 1 (true)
Default value	0 (enabled)

3.5.11   IM DISABLED

Description	Disable all IM functionality
Recommended in	BSCpc.cfg
Data type	Integer (Boolean)
Value range	0 (false), 1 (true)
Default value	0 (enabled)

3.5.12   CALL TRANSFER FEATURE CODE

Description	Access code for call transfers
Recommended in	BSCpc.cfg
Data type	String
Value range	n/a
Default value	(none)

3.5.13   CALL CONFERENCE FEATURE CODE

Description	Access code for conferences
Recommended in	BSCpc.cfg
Data type	String
Value range	n/a
Default value	(none)

3.5.14   SIP DTMF FEATURE CODE

Description	Access code (digit) for DTMF dialing mode
Recommended in	BSCpc.cfg
Data type	String
Value range	n/a
Default value	(none)

3.5.15   SIP DTMF METHOD

Description	Type of DTMF tone to be used		
Recommended in	BSCpc.cfg		
Data type	Enumeration (String or integer)		
Value range	Info	0	
	PCM	1	(not used)
	RFC2833	2	
Default value	0		
Remark	Value PCM (1) is not used with BSC.		

3.5.16   SIP IGNORE STATUS CODE

Description	Defines the response code that the client sends when rejecting a call
Recommended in	aastra,cfg, BSCpc.cfg
Data type	Integer
Value range	603 (rejected)
	486 (busy)
Default value	603

3.5.17   CALL CHANNEL TYPE

Description	Defines the channel type used for communication
Recommended in	BSCpc.cfg, BSCpc_<user>.cfg, BSCpc_<user>_local.cfg
Data type	String (Enumeration)
Value range	SIP
	CSTA
	SIP_8000i
	CSTA_8000i
Default value	SIP

3.5.18   HOTKEY CLICK2DIAL

Description	Defines the global hotkey for dialing a number from a selected text in any application
Recommended in	BSCpc_<user>.cfg, BSCpc_<user>_local.cfg
Data type	String
Value range	Modifier key(s) and key in the format
	<Modifier(s)>:<Key>
	Represented as numeric (enumeration) values.
	Modifier keys:
	Control 2
	Shift 4
	Control and Shift modifier can be combined by addition of their respective numeric value.
	For the key codes, the enumeration of System.Windows.Forms.Keys in .NET Framework does apply.
	Examples: D0 – D9: 48 – 57
	A – Z: 65 – 90
	F1 – F12: 112 – 123
Default value	(none)

3.5.19   HOTKEY ENDCALL

Description	Defines the global hotkey for ending a call
Recommended in	BSCpc_<user>.cfg, BSCpc_<user>_local.cfg
Data type	String
Value range	n/a
Default value	None

3.5.20   VISUAL ENHANCEMENT

Description	Enable or disable visual aid for the presence color status bar. User will be able to differentiate the status by color and/or icon.
Recommended in	aastra.cfg, BSCpc.cfg, BSCpc_<user>.cfg , BSCpc_<user>_local.cfg
Data type	Integer
Value range	0 (disabled), 1 (enabled)
Default value	0

3.5.21   DO NOT CONFIRM CLIENT CLOSING

Description	Defines whether the user is to be prompted for confirmation when he closes the client
Recommended in	BSCpc_<user>_local.cfg
Data type	Boolean (String representation)
Value range	True, False
Default value	False (show message prompt)

3.5.22   EXTERNAL CMD <N>

Description	Command to call an external application via hotkey
Recommended in	BSCpc_<user>_local.cfg
Data type	String
Value range	n/a
Default value	(none)

3.5.23   EXTERNAL CMD HOTKEY <N>

Description	Hotkey to call an external application
Recommended in	BSCpc_<user>_local.cfg
Data type	String
Value range	n/a
Default value	(none)
	More information about possible values can be found under <hotkey click2dial>

3.5.24   EXTERNAL CMD PARAMETER <N>

Description	Optional parameter for external application call
Recommended in	BSCpc_<user>_local.cfg
Data type	String
Value range	n/a
Default value	(none)

Example for calling external commands via a hotkey (the tag <ANUM_CLIP> can be used during an offered or established incoming call to be replaced by the clip of the remote party):

```
external cmd 1 : C:\Program Files\Aastra\test.bat
external cmd 2 : www.google.de/search?q=EXTERNAL_CMD_PARAM
external cmd 3 : notepad.exe ANUM_CLIP.txt
external cmd hotkey 1 : 2:121
external cmd hotkey 2 : 6:121
external cmd hotkey 3 : 6:120
external cmd param 2 : ptest
```

3.5.25 WEB URL <N>

Description	URL to be displayed in the integrated web panel
Recommended in	BSCpc.cfg, BSCpc_<user>.cfg
Data type	String
Value range	n/a
Default value	(none)

3.5.26 WEB NAME <N>

Description	Display name for the URL to be displayed in the integrated web panel
Recommended in	BSCpc.cfg, BSCpc_<user>.cfg
Data type	String
Value range	n/a
Default value	(none)

3.5.27 WEB TYPE <N>

Description	Defines whether the URL will be displayed in the integrated web panel or launched by the default web browser
Recommended in	BSCpc.cfg, BSCpc_<user>.cfg
Data type	Integer
Value range	1 or 2
Default value	1 (integrated web panel)

Example for usage of web URLs (the tag <ANUM_CLIP> can be used during an offered or established call to be replaced by the clip of the remote party):

```
web name 1 : Aastra
web name 2 : Mitel
web name 3 : Google
web name 4 : BluStar Web
web type 3 : 2
web url 1 : www.aastra.com
web url 2 : www.mitel.com
web url 3 : www.google.de/search?q=ANUM_CLIP
web url 4 : sebsw.aastra.com/bswmobile/quickactivities
```

3.6   TELEPHONY FEATURES

3.6.1   TELEPHONY AUTOMATIC ECHO CANCELLATION

Description	Enables automatic echo cancellation for all audio output devices
Recommended in	BSCpc.cfg
Data type	Boolean (String representation)
Value range	True (enabled), False (disabled)
Default value	True

3.6.2   TELEPHONY AUTOMATIC GAIN CONTROL

Description	Enables automatic gain control for all audio input devices
Recommended in	BSCpc.cfg, BSCpc_<user>.cfg, BSCpc_<user>_local.cfg
Data type	Boolean (String representation)
Value range	True (enabled), False (disabled)
Default value	False

3.6.3   TELEPHONY SOUND FILE BUSY

Description	Sound file for busy signal
Recommended in	BSCpc_<user>.cfg, BSCpc_<user>_local.cfg
Data type	String
Value range	n/a
Default value	busyix.wav
Remark	File "busyix.wav" in the client's program folder is intended for this purpose.

3.6.4   TELEPHONY SOUND FILE CALLING

Description	Sound file for call signal
Recommended in	BSCpc_<user>.cfg, BSCpc_<user>_local.cfg
Data type	String
Value range	n/a
Default value	ringout.wav
Remark	File "ringout.wav" in the client's program folder is intended for this purpose.

3.6.5   TELEPHONY SOUND FILE RINGING

Description	Sound file for ringing signal
Recommended in	BSCpc_<user>.cfg, BSCpc_<user>_local.cfg
Data type	String
Value range	n/a
Default value	ringit.wav
Remark	File "ringit.wav" in the client's program folder is intended for this purpose.

3.6.6 FEATURE CODE <N>

Description	Feature code or phone number to dial via a button
Recommended in	BSCpc.cfg, BSCpc_<user>.cfg, BSCpc_<user>_local.cfg
Data type	String
Value range	All pbx specific feature codes or phone numbers
Default value	(none)

3.6.7 FEATURE NAME <N>

Description	Label of the button to call the feature code
Recommended in	BSCpc.cfg, BSCpc_<user>.cfg, BSCpc_<user>_local.cfg
Data type	String
Value range	n/a
Default value	(none)

3.6.8 ENABLE FEATURE CONFIGURATION

Description	Allows the user to configure feature code buttons from the GUI if set to 1
Recommended in	BSCpc.cfg, BSCpc_<user>.cfg
Data type	Integer
Value range	0 or 1
Default value	1

3.7 NUMBER TRANSLATION

3.7.1 NUMBER TRANSLATION ENABLE

Description	Enable number translation
Recommended in	aastra.cfg, BSCpc.cfg
Data type	Integer (Boolean)
Value range	0 (false), 1 (true)
Default value	0

3.7.2 NUMBER TRANSLATION NEW COUNTRY CODE

Description	String to replace country code with
Recommended in	aastra.cfg, BSCpc.cfg
Data type	String
Value range	n/a
Default value	(none)

3.7.3   NUMBER TRANSLATION HOME AREA CODE

Description	Area code to be ignored in dialed numbers
Recommended in	aastra.cfg, BSCpc.cfg
Data type	String
Value range	n/a
Default value	(none)

3.7.4   NUMBER TRANSLATION HOME COUNTRY CODE

Description	Country code to be ignored in dialed numbers
Recommended in	aastra.cfg, BSCpc.cfg
Data type	String
Value range	n/a
Default value	(none)

3.7.5   NUMBER TRANSLATION INTERNATIONAL FEATURE CODE

Description	Access code for international calls
Recommended in	aastra.cfg, BSCpc.cfg
Data type	String
Value range	n/a
Default value	(none)

3.7.6   NUMBER TRANSLATION LONG DISTANCE FEATURE CODE

Description	Access code for long distance calls
Recommended in	aastra.cfg, BSCpc.cfg
Data type	String
Value range	n/a
Default value	(none)

3.7.7   NUMBER TRANSLATION TRUNK FEATURE CODE

Description	Trunk access code for external calls
Recommended in	aastra.cfg, BSCpc.cfg
Data type	String
Value range	n/a
Default value	(none)

3.7.8 NUMBER TRANSLATION MINIMUM DIGITS

Description	Maximum (!) number of digits of internal numbers
Recommended in	aastra.cfg, BSCpc.cfg
Data type	Integer
Value range	n/a
Default value	0

3.7.9 NUMBER TRANSLATION NUMBER FORMAT

Description	Type of dialing plan used for number translation	
Recommended in	aastra.cfg, BSCpc.cfg	
Data type	Enumeration (Integer)	
Value range	Standard	0
	Tapi	1
	NorthAmerican	2
Default value	0	

3.7.10 NUMBER TRANSLATION TRUNK EXCEPTIONS <N>

Description	Element of a list of number prefixes not requiring a trunk access code
Recommended in	aastra.cfg, BSCpc.cfg
Data type	String
Value range	n/a
Default value	(none)
Remark	Multiple list items possible, <n> is the consecutively numbered element index starting with 1

3.7.11 NUMBER TRANSLATION EXTENSION LENGTH

Description	Number of digits for internal extension
Recommended in	aastra.cfg, BSCpc.cfg
Data type	Integer
Value range	n/a
Default value	0

3.7.12 NUMBER TRANSLATION INTERNAL PREFIXES <N>

Description	Element of a list of number prefixes that can be added to an internal extension number to define an external phone number
Recommended in	aastra.cfg, BSCpc.cfg
Data type	String
Value range	n/a
Default value	(none)
Remark	Multiple list items possible, <n> is the consecutively numbered element index starting with 1

3.8 GENERAL DIRECTORY SETTINGS

3.8.1 DIRECTORY OUTLOOK ENABLED

Description	Enables use of Outlook directory
Recommended in	BSCpc.cfg, BSCpc_<user>.cfg, BSCpc_<user>_local.cfg
Data type	Boolean (String representation)
Value range	True, False
Default value	True

3.8.2 DIRECTORY OUTLOOK PROFILE

Description	Outlook directory profile name
Recommended in	BSCpc.cfg, BSCpc_<user>.cfg, BSCpc_<user>_local.cfg
Data type	String
Value range	n/a
Default value	(none)

3.8.3 DIRECTORY CACHE UPDATE INTERVAL

Description	Interval for updating directory cache (in seconds)
Recommended in	BSCpc.cfg
Data type	Integer
Value range	>= 0
Default value	86400 (1 day)

3.8.4 DIRECTORY CACHE DELETE INTERVAL

Description	Interval for deleting the directory cache (in milliseconds)
Recommended in	BSCpc.cfg
Data type	Integer
Value range	>= 0
Default value	900

3.8.5 RESET IMAGE CACHE

Description	With this parameter set to 1 the local image cache can be forced to be deleted on every client shutdown.
Recommended in	BSCpc.cfg
Data type	Integer
Value range	0 or 1
Default value	0

3.9 LDAP DIRECTORIES

Configuration can contain up to 5 directories. Directory parameters are numbered with the same index number <n> for each directory; the different directories are consecutively numbered starting with 1.

For n = 1, the index number can be omitted, which makes the parameters compatible with 8000i and iOS client settings.

3.9.1 LDAP <N> NAME

Description	Directory name displayed in BluStar client
Recommended in	aastra.cfg, BSCpc.cfg
Data type	String
Value range	n/a
Default value	(none)
Remark	Shared with 8000i but differing by index number

3.9.2 LDAP <N> SERVER

Description	LDAP directory host
Recommended in	aastra.cfg, BSCpc.cfg
Data type	String
Value range	User ID, password, host name and port combined in the expression `<user ID>:<password>@<host name>:<port>`
Default value	Port: 389 Others: (none)
Remark	Shared with 8000i but differing by index number. User ID and password are optional. User ID and password (if applicable) need to be encrypted (use Mitel's SeC encryption tool). The directory will be discarded if this parameter is empty.

3.9.3 LDAP <N> VERSION

Description	LDAP database version
Recommended in	aastra.cfg, BSCpc.cfg
Data type	Integer
Value range	Valid database version number
Default value	3

3.9.4   LDAP<N> BASE DN

Description	LDAP search base
Recommended in	aastra.cfg, BSCpc.cfg
Data type	String
Value range	n/a
Default value	(none)
Remark	Shared with 8000i but differing by index number.

3.9.5   LDAP<N> FIELD DEPARTMENT SEARCH

Description	Specifies the LDAP attribute name to search in for department name	
Recommended in	aastra.cfg, BSCpc.cfg	
Data type	Integer	
Value range	0	(attribute <department>)
	1	(attribute <departmentName>)
	2	(attribute <organizationalUnitName>)
	3	(attribute <organizationName>)
Default value	0	

3.9.6   LDAP<N> ACTIVEDIRECTORY

Description	Indicates whether directory is an AD directory
Recommended in	aastra.cfg, BSCpc.cfg
Data type	Integer (Boolean)
Value range	0 (false), 1 (true)
Default value	0

3.9.7   LDAP<N> FIELD ID

Description	Specifies the LDAP attribute name of the field to use to uniquely identify the directory items	
Recommended in	aastra.cfg, BSCpc.cfg	
Data type	String	
Value range	n/a	
Default value	<distinguishedName>	(for standard LDAP)
	<objectGUID>	(for Active Directory)

3.9.8   LDAP<N> SEARCH FILTER

Description	Overwrites the default LDAP search filter for retrieving all LDAP entries
Recommended in	aastra.cfg, BSCpc.cfg
Data type	String
Value range	n/a
Default value	(objectClass=person (*for standard LDAP*) (&(objectClass=Person)(!(userAccountControl:1.2.840.113556.1.4.803:=2)) (!(MSExchHideFromAddressLists=TRUE))) (*forActive Directory*)

3.9.9   LDAP<N> FIELD LAST MODIFIED

Description	Field containing the dataset's last modification date and time
Recommended in	aastra.cfg, BSCpc.cfg
Data type	String
Value range	n/a
Default value	(none)

3.9.10   LDAP<N> MAX TIME VARIANCE

Description	Time (in minutes) after which a cached entry is considered outdated
Recommended in	aastra.cfg, BSCpc.cfg
Data type	Integer
Value range	n/a
Default value	15

3.9.11   LDAP<N> IMAGE SERVER URI

Description	URL to access pictures of users in the LDAP directory
Recommended in	aastra.cfg, BSCpc.cfg
Data type	String
Value range	A valid URL
Default value	(none)

3.9.12   LDAP<N> PICTURE EXTENSION

Description	extension of user picture files
Recommended in	aastra.cfg, BSCpc.cfg
Data type	String
Value range	A valid image file extension (e. g. jpg, png, etc.) without "."
Default value	(none)

3.9.13 LDAP\<N\> FIRST NAME ATTRIBUTE LIST

Description	Defines the *first name* attribute
Recommended in	aastra.cfg, BSCpc.cfg
Data type	String
Value range	n/a
Default value	givenName

3.9.14 LDAP\<N\> LAST NAME ATTRIBUTE LIST

Description	Defines the *last name* attribute
Recommended in	aastra.cfg, BSCpc.cfg
Data type	String
Value range	n/a
Default value	sn

3.9.15 LDAP\<N\> JOB TITLE ATTRIBUTE LIST

Description	Defines the *job title* attribute
Recommended in	aastra.cfg, BSCpc.cfg
Data type	String
Value range	n/a
Default value	title

3.9.16 LDAP\<N\> EMPLOYEE ID ATTRIBUTE LIST

Description	Defines the *employee ID* attribute
Recommended in	aastra.cfg, BSCpc.cfg
Data type	String
Value range	n/a
Default value	employeeID

3.9.17 LDAP\<N\> BUSINESS PHONE 1 ATTRIBUTE LIST

Description	Defines the *business phone number* attribute
Recommended in	aastra.cfg, BSCpc.cfg
Data type	String
Value range	n/a
Default value	telephoneNumber

3.9.18   LDAP<N> MOBILE PHONE ATTRIBUTE LIST

Description	Defines the *mobile phone number* attribute
Recommended in	aastra.cfg, BSCpc.cfg
Data type	String
Value range	n/a
Default value	mobileTelephoneNumber

3.9.19   LDAP<N> HOME PHONE 1 ATTRIBUTE LIST

Description	Defines the *home telephone number* attribute
Recommended in	aastra.cfg, BSCpc.cfg
Data type	String
Value range	n/a
Default value	homePhone

3.9.20   LDAP<N> OTHER PHONE ATTRIBUTE LIST

Description	Defines the *other telephone number* attribute
Recommended in	aastra.cfg, BSCpc.cfg
Data type	String
Value range	n/a
Default value	otherTelephone

3.9.21   LDAP<N> BUSINESS FAX ATTRIBUTE LIST

Description	Defines the *business fax number* attribute
Recommended in	aastra.cfg, BSCpc.cfg
Data type	String
Value range	n/a
Default value	facsimile

3.9.22   LDAP<N> PAGER ATTRIBUTE LIST

Description	Defines the *pager number* attribute
Recommended in	aastra.cfg, BSCpc.cfg
Data type	String
Value range	n/a
Default value	pager

3.9.23 LDAP<N> EMAIL 1 ATTRIBUTE LIST

Description	Defines the *e-mail address* attribute
Recommended in	aastra.cfg, BSCpc.cfg
Data type	String
Value range	n/a
Default value	mail

3.9.24 LDAP<N> WEB ADDRESS ATTRIBUTE LIST

Description	Defines the *WWW homepage* attribute
Recommended in	aastra.cfg, BSCpc.cfg
Data type	String
Value range	n/a
Default value	wwwHomePage

3.9.25 LDAP<N> COMPANY ATTRIBUTE LIST

Description	Defines the *company name* attribute
Recommended in	aastra.cfg, BSCpc.cfg
Data type	String
Value range	n/a
Default value	company

3.9.26 LDAP<N> ROOM NUMBER ATTRIBUTE LIST

Description	Defines the *room number* attribute
Recommended in	aastra.cfg, BSCpc.cfg
Data type	String
Value range	n/a
Default value	roomNumber

3.9.27 LDAP<N> BUSINESS STREET ATTRIBUTE LIST

Description	Defines the business street address attribute
Recommended in	aastra.cfg, BSCpc.cfg
Data type	String
Value range	n/a
Default value	streetAddress

3.9.28   LDAP<N> BUSINESS POSTAL CODE ATTRIBUTE LIST

Description	Defines the *business postal code* attribute
Recommended in	aastra.cfg, BSCpc.cfg
Data type	String
Value range	n/a
Default value	postalCode

3.9.29   LDAP<N> BUSINESS CITY ATTRIBUTE LIST

Description	Defines the *business city* attribute
Recommended in	aastra.cfg, BSCpc.cfg
Data type	String
Value range	n/a
Default value	postalAddress

3.9.30   LDAP<N> BUSINESS STATE ATTRIBUTE LIST

Description	Defines the *business state* attribute
Recommended in	aastra.cfg, BSCpc.cfg
Data type	String
Value range	n/a
Default value	st

3.9.31   LDAP<N> BUSINESS COUNTRY ATTRIBUTE LIST

Description	Defines the *business country* attribute
Recommended in	aastra.cfg, BSCpc.cfg
Data type	String
Value range	n/a
Default value	co

3.9.32   LDAP<N> HOME STREET ATTRIBUTE LIST

Description	Defines the *home street address* attribute
Recommended in	aastra.cfg, BSCpc.cfg
Data type	String
Value range	n/a
Default value	homeStreetAddress

3.9.33   LDAP<N> HOME POSTAL CODE ATTRIBUTE LIST

Description	Defines the *home postal code* attribute
Recommended in	aastra.cfg, BSCpc.cfg
Data type	String
Value range	n/a
Default value	homePostalCode

3.9.34   LDAP<N> HOME CITY ATTRIBUTE LIST

Description	Defines the *home city* attribute
Recommended in	aastra.cfg, BSCpc.cfg
Data type	String
Value range	n/a
Default value	homePostalAddress

3.9.35   LDAP<N> HOME STATE ATTRIBUTE LIST

Description	Defines the *home state* attribute
Recommended in	aastra.cfg, BSCpc.cfg
Data type	String
Value range	n/a
Default value	homeState

3.9.36   LDAP<N> HOME COUNTRY ATTRIBUTE LIST

Description	Defines the *home country* attribute
Recommended in	aastra.cfg, BSCpc.cfg
Data type	String
Value range	n/a
Default value	homeCountry

3.10 MITEL 5000 DIRECTORIES

Configuration can contain up to 5 directories. Directory parameters are numbered with the same index number <n> for each directory; the different directories are consecutively numbered starting with 1.

For n = 1, the index number can be omitted.

3.10.1 A5000<N> NAME

Description	Directory name displayed in BluStar client
Recommended in	aastra.cfg, BSCpc.cfg
Data type	String
Value range	n/a
Default value	(none)
Remark	Shared with 8000i but differing by index number.

3.10.2 A5000<N> SERVER

Description	Mitel 5000 server
Recommended in	aastra.cfg, BSCpc.cfg
Data type	String
Value range	User ID, password, host name and port combined in the expression `<user ID>:<password>@<host name>:<port>`
Default value	(none)
Remark	User ID and password are optional.
	User ID and password (if applicable) need to be encrypted (use Mitel's SeC encryption tool).
	The directory will be discarded if this parameter is empty.

3.10.3 A5000<N> MULTI-SITE

Description	Enable Mitel 5000 multi-site feature
Recommended in	aastra.cfg, BSCpc.cfg
Data type	Integer (Boolean)
Value range	0 (false), 1 (true)
Default value	0

3.10.4 A5000<N> MULTI-SITE NAME

Description	Multi-site installation name
Recommended in	aastra.cfg, BSCpc.cfg
Data type	String
Value range	n/a
Default value	(none)

3.10.5 A5000<N> FIELD ID

Description	Field containing the dataset ID
Recommended in	aastra.cfg, BSCpc.cfg
Data type	String
Value range	n/a
Default value	(none)

3.10.6 A5000<N> FIELD LAST MODIFIED

Description	Field containing the dataset's last modification date and time
Recommended in	aastra.cfg, BSCpc.cfg
Data type	String
Value range	n/a
Default value	(none)

3.10.7 A5000<N> MAX TIME VARIANCE

Description	Time (in minutes) after which a cached entry is considered outdated
Recommended in	aastra.cfg, BSCpc.cfg
Data type	Integer
Value range	n/a
Default value	(none)

3.10.8 A5000<N> IMAGE SERVER URI

Description	URL to access pictures of users in the A5000 database
Recommended in	aastra.cfg, BSCpc.cfg
Data type	String
Value range	A valid URL
Default value	(none)

3.10.9 A5000<N> PICTURE EXTENSION

Description	extension of user picture files (could be jpeg, png, ...)
Recommended in	aastra.cfg, BSCpc.cfg
Data type	String
Value range	A valid image file extension (e. g. jpg, png, etc.) without "."
Default value	(none)

3.11 LOGGING

3.11.1 LOG MODULE SIP

Description	SIP client log detail level
Recommended in	BSCpc.cfg, BSCpc_<user>.cfg, BSCpc_<user>_local.cfg
Data type	Integer
Value range	0..9
Default value	3

3.11.2 LOG MODULE USER INTERFACE

Description	Client log detail level	
Recommended in	BSCpc.cfg, BSCpc_<user>.cfg, BSCpc_<user>_local.cfg	
Data type	Integer	
Value range	0..10	
	0	Error
	1	Warning
	2	Success
	3	Trace
	4	Extended trace 4
	5	Extended trace 5
	7	Extended trace 6
	8	Extended trace 7
	9	Extended trace 8
	10	Extended trace 9
Default value	3	

3.11.3 MAX LOG FILES

Description	Maximum number of log files
Recommended in	BSCpc.cfg, BSCpc_<user>.cfg, BSCpc_<user>_local.cfg
Data type	Integer
Value range	>= 0
Default value	10

3.12   ERROR REPORTING

3.12.1   UPLOAD SYSTEM INFO EMAIL

Description	The mail address to send the error report to
Recommended in	aastra.cfg, BSCpc.cfg
Data type	String
Value range	A valid e-mail address
Default value	(none)
Remark	When using MAPI some clients require 'SMTP:' as prefix for mail addresses

3.12.2   UPLOAD SYSTEM INFO EMAIL METHOD

Description	Specifies the e-mail send method
Recommended in	aastra.cfg, BSCpc.cfg
Data type	Enumeration (String)
Value range	None SMTP MAPI
Default value	(none) or "None"
Remark	If left empty or set to "None", the error reporting feature will not be available. If "SMTP" is used, the **upload system info smtp server** setting must be entered as well.

3.12.3   UPLOAD SYSTEM INFO SMTP SERVER

Description	SMTP server IP address or host name
Recommended in	aastra.cfg, BSCpc.cfg
Data type	String
Value range	n/a
Default value	(none)
Remark	Only required if **upload system info email method** is set to "SMTP".

3.12.4   UPLOAD SYSTEM INFO SMTP SERVER PORT

Description	SMTP server port
Recommended in	aastra.cfg, BSCpc.cfg
Data type	Integer
Value range	Valid IP port number (0-65535)
Default value	0
Remark	Only required if **upload system info email method** is set to "SMTP".

3.12.5   UPLOAD SYSTEM INFO SMTP ENCRYPTION

Description	Specifies if a SSL (encrypted) connection is to be used when connecting to the SMTP server
Recommended in	aastra.cfg, BSCpc.cfg
Data type	Integer (Boolean)
Value range	0 (false), 1 (true)
Default value	0
Remark	Only required if **upload system info email method** is set to "SMTP".

3.12.6   UPLOAD SYSTEM INFO SMTP AUTH ENABLED

Description	Specifies if the SMTP server requires authentication. If configured, the user ID and password fields must be set.
Recommended in	aastra.cfg, BSCpc.cfg
Data type	Integer (Boolean)
Value range	0 (false), 1 (true)
Default value	0
Remark	Only required if **upload system info email method** is set to "SMTP".

3.12.7   UPLOAD SYSTEM INFO SMTP AUTH NAME

Description	The user identity needed to authenticate with the SMTP server
Recommended in	aastra.cfg, BSCpc.cfg
Data type	String
Value range	n/a
Default value	(none)
Remark	Only required if **upload system info email method** is set to "SMTP". Needs to be encrypted (use Mitel's SeC encryption tool).

3.12.8   UPLOAD SYSTEM INFO SMTP AUTH PASSWORD

Description	Password to authenticate with the SMTP server
Recommended in	aastra.cfg, BSCpc.cfg
Data type	String
Value range	n/a
Default value	(none)
Remark	Only required if **upload system info email method** is set to "SMTP". Must be encrypted (use Mitel's SeC encryption tool).