

# Mitel 6800i Series SIP Phones

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RELEASE 4.0.0 SP1 TR-069 CONFIGURATION GUIDE

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Welcome . . . . .	1
TR-069 Protocol Support . . . . .	1
Pre-Staging SIP Phones . . . . .	1
TR-069 Functionality Support . . . . .	2
Limitations . . . . .	2
Behaviors . . . . .	3
TR-069 Parameter Descriptions . . . . .	3
Support for Getting Capabilities, General Profiles, and Other Static Parameters . . . . .	6
Voice Profile . . . . .	6
Handling Dynamic Parameters . . . . .	6
TR-111 . . . . .	7
Periodic Inform Support . . . . .	7
Configuring Periodic Inform Using the Configuration Files . . . . .	7
Inform Upon Receipt of SIP NOTIFY Check-Sync Support . . . . .	8
Configuring the Inform Upon Receipt of SIP NOTIFY Check-Sync Feature Using the Configuration Files . . . . .	9
Configuration Backup and Restore . . . . .	9
Log File Download from CPE . . . . .	10
Firmware Management . . . . .	10
Passive and Active Notification . . . . .	11
Secured Connection Support . . . . .	12
privateKey.pem Example . . . . .	13
Factory Reset . . . . .	14
Device Data Model Support . . . . .	14
OUI and Product Class . . . . .	14
Appendix A - Sample Configuration . . . . .	15
Appendix B - XML Data Model Schema . . . . .	16
Appendix C - Standard Supported TR-069 Parameters . . . . .	20

## WELCOME

This document provides information about Technical Report (TR)-069 protocol support for the 6800i Series (6863i, 6865i, 6867i, and 6869i) SIP IP Phones.

## TR-069 PROTOCOL SUPPORT

The IP Phones support the TR-069 protocol. This protocol is a bi-directional HTTP-based protocol that provides a means of communication between Customer-Premises Equipment (CPE) (e.g. IP phones) and Auto Configuration Servers (ACSs) over DSL/broadband connections. It includes both safe auto configuration and the control of other CPE management functions within an integrated framework.



**Note:** Implementation of the TR-069 protocol follows TR-104 and TR-106 standards to the extent of data sets applicable to SIP IP phones.

Service providers can, through TR-069, use one common platform to manage (through the internet) all of their customer premise devices, regardless of the device or manufacturer. If TR-069 is enabled on the phones, when the remote ACS boots the phones, they contact the ACS and establish the configuration automatically.

In addition to configuring the phone with TR-069, you can also do the following:

- Reboot the phone
- Reset to factory defaults
- Update the firmware of the device
- Backup/restore configuration
- Upload the log file

An Administrator can configure the TR-069 parameters using the configuration files only. For more information about the TR-069 parameters, see [“TR-069 Parameter Descriptions”](#) on [page 3](#).

## PRE-STAGING SIP PHONES

There are two options available to enable TR-069 support for the phones:

- a. An Administrator can provide a configuration file (that can be taken from the TFTP site or during RCS provisioning) with parameters that are specified in [“TR-069 Parameter Descriptions”](#) on [page 3](#).
- b. The phones can be branded and the branded default configuration file can contain all the necessary parameters.

After phones (with correct firmware) receive this configuration file, they will start a bootstrap procedure and connect to the ACS server.

## TR-069 FUNCTIONALITY SUPPORT

XML-Remote Procedure Call (RPC) is a protocol which uses XML to encode its calls and HTTP as a transport mechanism to make requests to Internet-based servers. The following table identifies the XML-RPC methods supported for the TR-069 functionality on the phones in Release 4.0.0 SP1.

XML-RPC METHOD	CPE REQUIREMENT	SUPPORTED IN THIS RELEASE 4.0.0 SP1
GetRPCMethods	Required	Yes
SetParameterValues	Required	Limited to parameters specified in <a href="#">"TR-069 Parameter Descriptions"</a> on page 3.  <b>Note:</b> Users are limited to parameters that are specified by Mitel. Please contact Mitel for a list of these parameters.
GetParameterValues	Required	Limited to parameters specified in <a href="#">"TR-069 Parameter Descriptions"</a> on page 3.
GetParameterNames	Required	Yes
SetParameterAttributes	Required	Yes
GetParameterAttributes	Required	Yes
AddObject	Required	No
DeleteObject	Required	No
Reboot	Required	Yes
Download	Required	Yes
Upload	Optional	Yes
FactoryReset	Optional	Yes
GetQueuedTransfers	Optional	No
GetAllQueuedTransfers	Optional	No
ScheduleInform	Optional	No
SetVouchers	Optional	No
GetOptions	Optional	No

## LIMITATIONS

The following is a list of limitations with TR-069:

- TR-111 Part 1 is not supported (only Part 2 - STUN)
- The current release does not have support for the following RPC function calls:
  - AddObject
  - DeleteObject
  - GetQueuedTransfers
  - GetAllQueuedTransfers
  - ScheduleInform

- SetVouchers
- GetOptions
- Inform Retry Policy with increasing intervals is not supported (only constant intervals are supported)
- Active Notification is supported only for limited list of parameters
- A subset of Mitel configuration parameters are supported through TR-069
- Only a TR-069 active session is supported (single IP address)
- CPE Identification is made based on OUI + Product Class + MAC (not serial number)
- Each Voice Profile has only 1 line
- VoiceService.X\_Aastra\_GlobalVoiceProfile corresponds to Mitel Sip Global Settings and has only 1 line object
- VoiceService.1.VoiceProfile.{1} corresponds to Mitel SIP settings per line i and has only 1 line object
- Constant number of lines mapped to the number of Voice Profile (profile remove is not supported)

## BEHAVIORS

The following is a list of behaviors with TR-069:

- Web and phone UI are still available for configuration and can override what was configured through TR-069
- The phones will notify ACS through the Active notification process for a limited subset of parameters (as defined)
- Loading of new configuration through TR-069 will require a CPE reboot

## TR-069 PARAMETER DESCRIPTIONS

An Administrator can enable/disable and configure the TR-069 protocol using the following parameters in the configuration files:

- tr69
- tr69 server
- tr69 server port
- tr69 server path
- tr69 username
- tr69 password
- tr69 connection request path
- tr69 connection request port

Each of these parameters are described as follows:

<b>PARAMETER –</b>	<b>CONFIGURATION FILES</b>
<i>tr69</i>	startup.cfg, mac.cfg
<b>DESCRIPTION</b>	Enables/disables TR-069 communication.
<b>FORMAT</b>	Boolean
<b>DEFAULT VALUE</b>	0
<b>RANGE</b>	0-1 0 (disabled) 1 (enabled)
<b>EXAMPLE</b>	tr69: 1

<b>PARAMETER –</b>	<b>CONFIGURATION FILES</b>
<i>tr69 server</i>	startup.cfg, mac.cfg
<b>DESCRIPTION</b>	Specifies the IP or domain name of the TR-069 Auto-Configuration Server (ACS). This is the server to which the phone sends TR-069 messages. Contact your System Administrator for the applicable server to specify for this parameter.
<b>FORMAT</b>	String
<b>DEFAULT VALUE</b>	Empty
<b>RANGE</b>	Not Applicable
<b>EXAMPLE</b>	tr69 server: http://10.30.105.127

<b>PARAMETER –</b>	<b>CONFIGURATION FILES</b>
<i>tr69 server port</i>	startup.cfg, mac.cfg
<b>DESCRIPTION</b>	Specifies the server port of the TR-069 Auto-Configuration Server (ACS). This is the server to which the phone sends TR-069 messages. Contact your System Administrator for the applicable port to specify for this parameter.
<b>FORMAT</b>	String
<b>DEFAULT VALUE</b>	Empty
<b>RANGE</b>	Not Applicable
<b>EXAMPLE</b>	tr69 server port:10301

<b>PARAMETER –</b>	<b>CONFIGURATION FILES</b>
<i>tr69 server path</i>	startup.cfg, mac.cfg
<b>DESCRIPTION</b>	Specifies the server path of the TR-069 Auto-Configuration Server (ACS). This is the path to which the phone sends TR-069 messages. Contact your System Administrator for the applicable path to specify for this parameter.
<b>FORMAT</b>	String
<b>DEFAULT VALUE</b>	Empty
<b>RANGE</b>	Not Applicable
<b>EXAMPLE</b>	tr69 server path: acs/

<b>PARAMETER –</b>	<b>CONFIGURATION FILES</b>
<i>tr69 username</i>	startup.cfg, mac.cfg
<b>DESCRIPTION</b>	Username for HTTP authentication against the ACS
<b>FORMAT</b>	String
<b>DEFAULT VALUE</b>	Empty
<b>RANGE</b>	Not Applicable
<b>EXAMPLE</b>	tr69 username: Joe

<b>PARAMETER –</b>	<b>CONFIGURATION FILES</b>
<i>tr69 password</i>	startup.cfg, mac.cfg
<b>DESCRIPTION</b>	Password for HTTP authentication against the ACS
<b>FORMAT</b>	String
<b>DEFAULT VALUE</b>	Empty
<b>RANGE</b>	Not Applicable
<b>EXAMPLE</b>	tr69 password: 12345

<b>PARAMETER –</b>	<b>CONFIGURATION FILES</b>
<i>tr69 connection request path</i>	startup.cfg, mac.cfg
<b>DESCRIPTION</b>	Path for tr69 connection url
<b>FORMAT</b>	String
<b>DEFAULT VALUE</b>	tr69
<b>RANGE</b>	Not Applicable
<b>EXAMPLE</b>	tr69 connection request path: mitel



PARAMETER –	CONFIGURATION FILES
<i>tr69 connection request port</i>	sstartup.cfg, mac.cfg
DESCRIPTION	Port for tr69 connection url
FORMAT	Integer
DEFAULT VALUE	7547
RANGE	Not Applicable
EXAMPLE	tr69 connection request port:12345

The following subsections provide additional information and parameters that are requirements for the TR-069.

## SUPPORT FOR GETTING CAPABILITIES, GENERAL PROFILES, AND OTHER STATIC PARAMETERS

When the phone boots up for the first time, it will send an Inform message with the event code BOOTSRAP to the ACS server. The ACS server will ask for the supporting parameters on the phone. After this initial contact, the ACS server can read or write parameters on the phone.

### VOICE PROFILE

There is one global Voice Profile called X\_Aastra\_GlobalVoiceProfile that corresponds to the global line on the phone. For example:

Device.VoiceService.X\_Aastra\_GlobalVoiceProfile corresponds to Global on the Mitel Web UI

Depending on the phone model, there are also up to 9 other Voice Profiles that correspond to a specific line on the phone. They are always located on the VoiceService SubTree, and on each line a SIP account can be configured. For example:

Device.VoiceService.VoiceProfile.1 corresponds to Line 1 on the Mitel Web UI.

Once a SIP account is fully configured, the line will be registered. Administrators also have the option to delete the Voice Profile. When a Voice Profile is deleted, the corresponding line is restored to the default.

### HANDLING DYNAMIC PARAMETERS

If the ACS modifies a parameter, the SIP line is automatically configured and will register to the server.

## TR-111

The phones support the TR-111 protocol as a requirement for TR-069. TR-111 applies the TR-069 to remote manage home networking devices (i.e. it can access a phone that is inside a private network from a server outside). The TR-111 standard defines two ways of managing CPE located behind Network Address Translation (NAT) routers. The parameters are automatically configured for the Administrator.

## PERIODIC INFORM SUPPORT

The TR069 stack provides a function that sets up periodic inform support. On the phone, the periodic inform is done so that the phone can periodically send an inform message to the ACS server. For example, for passive notification, the phone will inform the ACS server that one or more parameters is/are modified and will send the new value in the inform message.

### CONFIGURING PERIODIC INFORM USING THE CONFIGURATION FILES

PARAMETER –	CONFIGURATION FILES
<i>tr69 periodic inform enable</i>	startup.cfg, mac.cfg
DESCRIPTION	Enable or disable the periodic inform functionality.
FORMAT	Boolean
DEFAULT VALUE	Empty
RANGE	0 - 1 0 (Disable) 1 (Enable)
EXAMPLE	tr69 periodic inform enable: true

PARAMETER –	CONFIGURATION FILES
<i>tr69 periodic inform interval</i>	startup.cfg, mac.cfg
DESCRIPTION	The duration in seconds of the interval for which the CPE must attempt to connect with the ACS and call the inform method.
FORMAT	Integer
DEFAULT VALUE	Empty
RANGE	Not Applicable
EXAMPLE	tr69 periodic inform interval: 600

PARAMETER –	CONFIGURATION FILES
<i>tr69 periodic inform time</i>	startup.cfg, mac.cfg
DESCRIPTION	An absolute time reference in UTC to determine when the CPE will initiate the periodic inform method calls.
FORMAT	String
DEFAULT VALUE	1970-01-01T00:00:00
RANGE	The STRING is specified in the following form: “YYYY-MM-DDThh:mm:ss” where: <ul style="list-style-type: none"> <li>• YYYY (year)</li> <li>• MM (month)</li> <li>• DD (day)</li> <li>• T (start of the required time section)</li> <li>• hh (hour)</li> <li>• mm (minute)</li> <li>• ss (second)</li> </ul>
EXAMPLE	tr69 periodic inform time: 0001-01-01T00:00:00

## INFORM UPON RECEIPT OF SIP NOTIFY CHECK-SYNC SUPPORT

Configuration parameters are available allowing Administrators the ability to specify the behavior of the phones when they receive a SIP NOTIFY containing a check-sync event. In such scenarios, the phones can be configured to behave in one of the following ways:

- Check the configuration files and reboot if changes are detected.
- Redirect the SIP NOTIFY with the check-sync event to the ACS to perform a TR-069 request.
- Redirect the SIP NOTIFY with the check-sync event to the ACS to perform a TR-069 request and trigger an HTTP GET to a defined Action URI (allowing some settings to be changed via XML that cannot be changed through TR-069). A Job ID can be specified as well, allowing the ACS to link the HTTP GET to the initiated TR-069 request.

## CONFIGURING THE INFORM UPON RECEIPT OF SIP NOTIFY CHECK-SYNC FEATURE USING THE CONFIGURATION FILES

PARAMETER –	CONFIGURATION FILES
<i>tr69 check sync</i>	startup.cfg, mac.cfg
DESCRIPTION	Specifies the behavior of the phone when it receives a SIP NOTIFY containing a check-sync event.
FORMAT	Integer
DEFAULT VALUE	0
RANGE	0 (When a SIP NOTIFY containing a check-sync event is received the phone will check the configuration files and reboot if changes are detected). 1 (When a SIP NOTIFY containing a check-sync event is received the phone will redirect the SIP NOTIFY with the check-sync event to the ACS to perform a TR-069 request. 2 (When a SIP NOTIFY containing a check-sync event is received the phone will redirect the SIP NOTIFY with the check-sync event to the ACS to perform a TR-069 request and trigger an HTTP GET to the URI configured via the “action uri tr69 check sync” parameter.
EXAMPLE	tr69 check sync: 2

PARAMETER –	CONFIGURATION FILES
<i>action uri tr69 check sync</i>	startup.cfg, mac.cfg
DESCRIPTION	Specifies the URI to be called when the “tr69 check sync” parameter is defined as “2”. A Job ID can be specified allowing the ACS to link the HTTP GET to the initiated TR-069 request.
FORMAT	HTTP(s) server path or Fully Qualified Domain Name
DEFAULT VALUE	Not Applicable
RANGE	Not Applicable
EXAMPLE	action uri tr69 check sync: https://acs.example.com/test.php?JobID=\$\$JOBID\$\$

## CONFIGURATION BACKUP AND RESTORE

Administrators can backup and restore the TR-069 configuration on the ACS server. The ACS server makes a request for a configuration file upload and the phone responds to the request.

For a configuration file upload, the server sends the following parameters:

- URL
- File type
- Username
- Password

When the phone receives the request to backup, it uploads the local.cfg or server.cfg file to the server depending on the FileType argument defined (i.e. "1 Vendor Configuration File" = local.cfg, "X\_Aastra Server Configuration File" = server.cfg). The protocol supported for configuration file upload from the CPE are HTTP, TFTP, and FTP.

## LOG FILE DOWNLOAD FROM CPE

The ACS server can make a request for a log file upload. For a log file upload, the server sends the following parameters:

- URL
- File type
- Username
- Password

When the phone receives this request, it will send the file to the server with the name "**MACADDRESS\_TIME\_crash.log**". The protocol supported for log file upload from CPE are HTTP, TFTP, and FTP.

## FIRMWARE MANAGEMENT

At any point, the ACS can trigger the CPE to upgrade its firmware image. The ACS sends asynchronous connection requests, triggering the CPE to establish a transaction session to receive a download method to upgrade its firmware. The ACS is only responsible for sending the download RPC and retrieving the TransferComplete RPC. The actions taken by the CPE itself depend on the firmware upgrade mechanism, which is not defined by TR-069.

The Administrator can schedule a firmware upgrade from the ACS by properly configuring the ACS server. Once the ACS server is configured, the phone will automatically upgrade the firmware.

The following is the process of how the phone upgrades the firmware:

- The phone receives a download RPC from the ACS.
- If the FileType argument is set to "1Firmware Upgrade Image", a firmware upgrade is started
- The phone checks the version of firmware:
  - If the version is identical to the actual version, the phone will abort the firmware upgrade
  - If the version is different of the actual version, the phone will upgrade/downgrade the firmware
- If the firmware upgrade is successful, a reboot is initiated

## PASSIVE AND ACTIVE NOTIFICATION

The phones support active and passive notification. If a parameter is configured to "Active notification", when this parameter is modified through the Mitel Web UI, an inform message with the new value of the parameter is sent to the ACS (the phone does not wait for the periodic inform).

If a parameter is configured to "Passive notification", when this parameter is modified through the Mitel Web UI, the new value of the parameter is sent to the ACS with the periodic inform.

If there is no notification set, no inform message is sent to inform the ACS when the value of the parameter is modified.

For any parameter, the notification type (Active, Passive, or None) is set on the ACS server.

Active and Passive notification is currently supported for the following parameters:

- Global parameters:
  - sip user name
  - sip proxy ip
  - sip proxy port
  - sip registrar ip
  - sip registrar port
  - sip auth name
  - sip password
  - sip stun ip
  - sip stun port
  - dhcp
  - ip
- Parameters for Line 0 to 9 (where N is the line number):
  - sip lineN user name
  - sip lineN proxy ip
  - sip lineN proxy port
  - sip lineN registrar ip
  - sip lineN registrar port
  - sip lineN auth name
  - sip lineN password

## SECURED CONNECTION SUPPORT

The following parameters are available allowing Administrators the ability configure a secure connection between the CPE and ACS:

- tr69 trusted certificates
- tr69 private key
- tr69 server authentication required

Each of these parameters are described as follows:

PARAMETER –	CONFIGURATION FILES
<i>tr69 trusted certificates</i>	startup.cfg, mac.cfg
<b>DESCRIPTION</b>	Specifies a file name for a .PEM file located on the configuration server. This file contains the User-provided certificates in PEM format. These certificates are used to validate peer certificates.  <b>Note:</b> The parameter “tr69 server authentication required” must be enabled in order for the phone to do a Client-authenticated TLS handshake.
<b>FORMAT</b>	Alphanumeric String
<b>DEFAULT VALUE</b>	Empty
<b>RANGE</b>	Not Applicable
<b>EXAMPLE</b>	tr69 trusted certificates: ftp://admin:admin!@1.2.3.4:50/path/tr69CA.pem  <b>Note:</b> In the above example, “path” represents the directory and “tr69CA.pem” represents the filename.

PARAMETER –	CONFIGURATION FILES
<i>tr69 private key</i>	startup.cfg, mac.cfg
<b>DESCRIPTION</b>	Specifies the file to download. This file contains the private key and the associated certificate.  <b>Note:</b> Refer to “ <a href="#">privateKey.pem Example</a> ” on <a href="#">page 13</a> for an example of what is contained in the privateKey.pem file.
<b>FORMAT</b>	Alphanumeric String
<b>DEFAULT VALUE</b>	Empty
<b>RANGE</b>	Not Applicable
<b>EXAMPLE</b>	tr69 private key: ftp://admin:admin!@1.2.3.4:50/path/privateKey.pem

PARAMETER –	CONFIGURATION FILES
<i>tr69 server authentication required</i>	startup.cfg, mac.cfg
DESCRIPTION	If this parameter is set to 0, Simple TLS handshake will be enabled. If this parameter is set to 1, Client-authenticated TLS handshake will be enabled..
FORMAT	Boolean
DEFAULT VALUE	0
RANGE	0 - 1 0 (Simple TLS handshake) 1 (Client-authenticated TLS handshake)
EXAMPLE	tr69 server authentication required: 1

### PRIVATEKEY.PEM EXAMPLE

The following is an example of the contents of a privateKey.pem file:

```
-----BEGIN CERTIFICATE-----
MIICnTCCAgYCCQCH6qZc+3EIAzANBgkqhkiG9w0BAQUFADCBkjELMAkGA1UEBhMCQ0
ExEDA0BgNVBAAgTB09udGFyaW8xEDA0BgNVBAAcTB1Rvcn9udG8xDzANBgNVBAoTBk
Fhc3RyYTEQMA4GA1UECzMHSXBQaG9uZTEPMA0GA1UEAxMGYWFzZDhJhMSswKQYJ
KoZlHvcNAQkBFHxndWlsbGF1bWUuaG9ycmVhdUBhYXN0cmEuY29tMB4XDTEyMTExOT
E5MzI0OVoXDTEyMTExOTE5MzI0OVowZlIxZmVhZC9uZTEPMA0GA1UEAxMGYWFzZDhJ
PbnRhcmlvMRAwDgYDVQQHEwdU3JvbnRvMQ8wDQYDVQQKEwZBYXN0cmExEDA0BgNV
gNVBAsTB0lwUGhvbmlvU3JvbnRvMQ8wDQYDVQQKEwZBYXN0cmExEDA0BgNVBAsTB0lw
VpbGxhdW1lLmhhcnVhZDhJhLmNvbTCBnzANBgkqhkiG9w0BAQEFAAOBjQAwgYkCgY
YEAwFpG4OPqk4IFQqgNKu2fSkEnCkvJNbhHGioKitQhb8wABrepOoEccPbvsRmctw/P
9u3J1G5Jl1FwYm2zAdP31O+yj+6bwXxFozJVqn1gahuj1eQyHW9PHbkxtlhH5/ikzP
RZwXBdcjSwyHsa+uCnvXRilH3tkYi1ZixtcZmxLkCAwEAATANBgkqhkiG9w0BAQUFAA
OBgQC0HSOeLvMSQ6em1Sp8zry1FhXFDxcbcQJB0H/pHn7qJQ1xluXmV831cvfHkqYf
Sk9b1rVULlmgslwZaWkKP4Hf5KMT4ACdyEBFufkVMg/HL4yPKAZeZ95oksxbNIBamXo
5950djinlan55HbwX5c7xc23oGR+8oM95BtdocEorvsw==
-----END CERTIFICATE-----
-----BEGIN RSA PRIVATE KEY-----
MIICXglBAAKBgQDAWkbg4+qTggVBCA0q7Z9KQScKS8k1scaKgqK1CFvzAAGt6k6gR
xw9u+xGZy3D8/27cnUbkkiPUXBibbMB0/fU77KP7pvBfEWjMIWqfWBqG6PV5DIdb08
duTG2WEfn+KTOIFnBcF1yNLDIexr64Ke/FGWliHe2RiLVmLG1xmbEuQIDAQABAoGB
ALDYDwQh5v+48VWprlMcyAmnvtjndVjtWejsU+T2i3rszZ50pdcLqbZEOOU9ZUE
b6HJWt74jip1dNWL5EjOjCtZdGUH49+/wp1Nr/uc8TkAPE3vUhiVlpOWXpXO8402YDAI
ZJ4mOnENXvxeMSJhdLlb4D/KbNOWfrGnbTnQZUOXRAkEA599AUyX/8FeKlgOirGe4
+oRvJ+p3df+CVJ/QGdjLQbWft7AuGQDyB2ru2itgjlfQS5Do3KHvi4KUWo2Nsm15
QJBANReSHbSyX5WUVNqj/UH2Zn75rmNLhHpFFKfVC2lr2bO3W8y8L3dLQn4HdHu
Urgn89PyBUoDU7DfUKCyJxZ5kUCQQCKjnOnvBtWiVkd9D2sTzt9Qg/bQSWGdV1
OQMfdumpwPvfHk090h0IlyMPLACGs2U7Eth/HPJ89Jq8VqpSdEUgCpAkAY0LOS/
uqAksGKB7uHjFVGQJlJWHXrrdqsfOrlxYKluT/ncBo3PActDgPSrFTghQLnjKEKp
9V2QK2gWfvrGS4pAkEAkA7sttPqPFAM6NtYbZFjbvIADCoZOEKigfypgpK2pYy9
sYcexvkk4ZiySQtomGnvzyVqMMF1pUfR4m4xWsumOA==
-----END RSA PRIVATE KEY-----
```



## FACTORY RESET

The purpose of a factory reset is to restore the configuration to default when it is requested by the ACS server. From the ACS server, make a “factory reset” request. This will set all the parameters to the default value.



**Note:** A factory reset will result in the phone clearing out all configured parameters, including the TR-069 configured settings.

## DEVICE DATA MODEL SUPPORT

For this release, the phones support only the configuration parameters listed in the section, “[TR-069 Functionality Support](#)” on [page 2](#), for remote management through the TR-069 Protocol. Some ACSs (e.g. a specific home management device) requires a vendor-specific device data model in XML format before the IP phones can connect to it. See “[Appendix B - XML Data Model Schema](#)” for an example of an XML data model schema.

As defined in this data structure, some parameters have write privileges and can be changed remotely (e.g. DNSServer). However, you may have to reboot the phone in order for the change to take effect.

## OUI AND PRODUCT CLASS

The above data structure is common across all the TR-069 supported Mitel SIP phones. The table below summarizes the supported phones and their corresponding OUI and Product Class.

SUPPORTED MITEL MODELS	OUI	PRODUCT CLASS
6863i	00085D	6863i
6865i	00085D	6865i
6867i	00085D	6867i
6869i	00085D	6869i

## APPENDIX A - SAMPLE CONFIGURATION

The following is an example detailing how the TR-069 parameters can be defined within the configuration files:

```
# enable tr69
tr69: 1

#username and password for the ACS
tr69 username: ACS1234
tr69 password: ACS1234
#to modify the path, add the two following parameter
tr69 connection request path: mitel
tr69 connection request port: 12345

#TR-069 ACS URL for secured connection
tr69 server: https://10.10.10.2
tr69 server port: 443
tr69 server path: acs/
#private key, this must contain the private key and the certificate
tr69 private key: http://10.10.10.2/private.key
tr69 trusted certificates: tftp://10.10.10.5/asterisk/ca.crt

tr69 server authentication required: 1
```

## APPENDIX B - XML DATA MODEL SCHEMA

The following is a schema that can be used as a template for a customized XML data model:

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<xsi:tr69model xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <entry xsi:type="tr69Object" write="" mode="1">
    <name>Device.</name>
    <description></description>
    <parameter write="" mode="1">
      <name>DeviceSummary</name>
      <description></description>
    </parameter>
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        <name>HardwareVersion</name>
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        <name>Manufacturer</name>
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        <name>ProductClass</name>
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      </parameter>
    </child>
  </entry>
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```

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      <description></description>
    </parameter>
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      <name>TotalPacketsSent</name>
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</child>
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```

```
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</entry>
</xsi:tr69model>
```

## APPENDIX C - STANDARD SUPPORTED TR-069 PARAMETERS

The following is a list of the standard supported TR-069 parameters. This list includes the Mitel specific set of extended parameters that Mitel supports (for example, X\_Aastra\_RTCP\_Report).

PARAMETER	READ/WRITE	TYPE	SIZE	RANGE
Device				
Device.DeviceSummary	R	string	1024	-
Device.DeviceInfo				
Device.DeviceInfo.Manufacturer	R	string	64	-
Device.DeviceInfo.ManufacturerOUI	R	string	6	-
Device.DeviceInfo.ProductClass	R	string	64	-
Device.DeviceInfo.SerialNumber	R	string	64	-
Device.DeviceInfo.HardwareVersion	R	string	64	-
Device.DeviceInfo.SoftwareVersion	R	string	64	-
Device.DeviceInfo.Description	R	string	256	-
Device.DeviceInfo.ModelName	R	string	64	-
Device.DeviceInfo.SpecVersion	R	string	64	-
Device.DeviceInfo.ProvisioningCode	R	string	64	-
Device.ManagementServer				
Device.ManagementServer.URL	R/W	string	256	-
Device.ManagementServer.Username	R/W	string	256	-
Device.ManagementServer.Password	R/W	string	256	-
Device.ManagementServer.PeriodicInformEnable	R/W	boolean	-	-
Device.ManagementServer.PeriodicInformInterval	R/W	int	-	-
Device.ManagementServer.PeriodicInformTime	R/W	string	256	-
Device.ManagementServer.ParameterKey	R/W	string	256	-
Device.ManagementServer.ConnectionRequestURL	R	string	256	-

PARAMETER	READ/WRITE	TYPE	SIZE	RANGE
Device.ManagementServer.ConnectionRequestUsername	R/W	string	256	-
Device.ManagementServer.ConnectionRequestPassword	R/W	string	256	-
Device.ManagementServer.STUNEnable	R/W	boolean	-	-
Device.ManagementServer.STUNServerAddress	R/W	string	256	-
Device.ManagementServer.STUNServerPort	R/W	int	-	-
Device.ManagementServer.NATDetected	R/W	boolean	-	-
Device.ManagementServer.UDPConnectionRequestAddress	R/W	string	256	-
Device.LAN				
Device.LAN.AddressingType	R/W	string	256	-
Device.LAN.IPAddress	R/W	string	256	-
Device.LAN.SubnetMask	R/W	string	256	-
Device.LAN.DefaultGateway	R/W	string	256	-
Device.LAN.DNSServers	R/W	string	256	-
Device.LAN.MACAddress	R	string	256	-
Device.Services				
Device.Services.VoiceServiceNumberOfEntries	R	int	-	-
Device.Services.VoiceService				
Device.Services.VoiceService.1				
Device.Services.VoiceService.1.VoiceProfileNumberOfEntries	R	int	-	-
Device.Services.VoiceService.1.Capabilities				
Device.Services.VoiceService.1.Capabilities.MaxProfileCount	R	int	-	-
Device.Services.VoiceService.1.Capabilities.MaxLineCount	R	int	-	-
Device.Services.VoiceService.1.Capabilities.MaxSessionsPerLine	R	int	-	-
Device.Services.VoiceService.1.Capabilities.MaxSessionCount	R	int	-	-
Device.Services.VoiceService.1.Capabilities.Regions	R	string	256	-
Device.Services.VoiceService.1.Capabilities.RTCP	R	boolean	-	-



## Appendix C - Standard Supported TR-069 Parameters

PARAMETER	READ/WRITE	TYPE	SIZE	RANGE
Device.Services.VoiceService.1.Capabilities.SRTP	R	boolean	-	-
Device.Services.VoiceService.1.Capabilities.SRTPKeyingMethods	R	string	256	-
Device.Services.VoiceService.1.Capabilities.SRTPEncryptionKeySizes	R	string	256	-
Device.Services.VoiceService.1.Capabilities.RTPRedundancy	R	boolean	-	-
Device.Services.VoiceService.1.Capabilities.DSCPCoupled	R	boolean	-	-
Device.Services.VoiceService.1.Capabilities.EthernetTaggingCoupled	R	boolean	-	-
Device.Services.VoiceService.1.Capabilities.PSTNSoftSwitchOver	R	boolean	-	-
Device.Services.VoiceService.1.Capabilities.FaxT38	R	boolean	-	-
Device.Services.VoiceService.1.Capabilities.FaxPassThrough	R	boolean	-	-
Device.Services.VoiceService.1.Capabilities.ModemPassThrough	R	boolean	-	-
Device.Services.VoiceService.1.Capabilities.ToneGeneration	R	boolean	-	-
Device.Services.VoiceService.1.Capabilities.ToneDescriptionsEditable	R	boolean	-	-
Device.Services.VoiceService.1.Capabilities.PatternBasedToneGeneration	R	boolean	-	-
Device.Services.VoiceService.1.Capabilities.FileBasedToneGeneration	R	boolean	-	-
Device.Services.VoiceService.1.Capabilities.RingGeneration	R	boolean	-	-
Device.Services.VoiceService.1.Capabilities.RingDescriptionsEditable	R	boolean	-	-
Device.Services.VoiceService.1.Capabilities.PatternBasedRingGeneration	R	boolean	-	-
Device.Services.VoiceService.1.Capabilities.RingPatternEditable	R	boolean	-	-
Device.Services.VoiceService.1.Capabilities.FileBasedRingGeneration	R	boolean	-	-
Device.Services.VoiceService.1.Capabilities.DigitMap	R	boolean	-	-
Device.Services.VoiceService.1.Capabilities.NumberingPlan	R	boolean	-	-
Device.Services.VoiceService.1.Capabilities.ButtonMap	R	boolean	-	-
Device.Services.VoiceService.1.Capabilities.X_Aastra_RTCP_Report	R	boolean	-	-
Device.Services.VoiceService.1.Capabilities.SIP				
Device.Services.VoiceService.1.Capabilities.SIP.Role	R	int	-	-
Device.Services.VoiceService.1.Capabilities.SIP.Transports	R	string	-	-

## Mitel 6800i Series SIP Phones Release 4.0.0 SP1 TR-069 Configuration Guide

PARAMETER	READ/WRITE	TYPE	SIZE	RANGE
Device.Services.VoiceService.1.Capabilities.SIP.EventSubscription	R	boolean	-	-
Device.Services.VoiceService.1.Capabilities.SIP.ResponseMap	R	boolean	-	-
Device.Services.VoiceService.1.Capabilities.SIP.TLSAuthenticationProtocols	R	string	256	-
Device.Services.VoiceService.1.Capabilities.SIP.TLSAuthenticationKeySizes	R	string	256	-
Device.Services.VoiceService.1.Capabilities.SIP.TLSEncryptionProtocols	R	string	256	-
Device.Services.VoiceService.1.Capabilities.SIP.TLSEncryptionKeySizes	R	string	256	-
Device.Services.VoiceService.1.Capabilities.SIP.TLSKeyExchangeProtocols	R	string	256	-
Device.Services.VoiceService.1.X_Aastra_GlobalVoiceProfile				
Device.Services.VoiceService.1.X_Aastra_GlobalVoiceProfile.Enable	R/W	string	-	-
Device.Services.VoiceService.1.X_Aastra_GlobalVoiceProfile.Reset	R/W	boolean	-	-
Device.Services.VoiceService.1.X_Aastra_GlobalVoiceProfile.NumberOfLines	R/W	int	-	-
Device.Services.VoiceService.1.X_Aastra_GlobalVoiceProfile.Name	R/W	string	64	-
Device.Services.VoiceService.1.X_Aastra_GlobalVoiceProfile.STUNEnable	R/W	boolean	-	-
Device.Services.VoiceService.1.X_Aastra_GlobalVoiceProfile.STUNServer	R/W	string	256	-
Device.Services.VoiceService.1.X_Aastra_GlobalVoiceProfile.X_Aastra_STUNServerPort	R/W	int	-	-
Device.Services.VoiceService.1.X_Aastra_GlobalVoiceProfile.X_Aastra_DTMFMethod	R/W	int	-	-
Device.Services.VoiceService.1.X_Aastra_GlobalVoiceProfile.X_Aastra_DTMFOutBand	R/W	int	-	-
Device.Services.VoiceService.1.X_Aastra_GlobalVoiceProfile.SIP				
Device.Services.VoiceService.1.X_Aastra_GlobalVoiceProfile.SIP.ProxyServer	R/W	string	256	-
Device.Services.VoiceService.1.X_Aastra_GlobalVoiceProfile.SIP.ProxyServerPort	R/W	int	-	0-65535
Device.Services.VoiceService.1.X_Aastra_GlobalVoiceProfile.SIP.RegistrarServer	R/W	string	256	-
Device.Services.VoiceService.1.X_Aastra_GlobalVoiceProfile.SIP.RegistrarServerPort	R/W	int	-	0-65535
Device.Services.VoiceService.1.X_Aastra_GlobalVoiceProfile.SIP.UserAgentDomain	R	string	256	-
Device.Services.VoiceService.1.X_Aastra_GlobalVoiceProfile.SIP.OutboundProxy	R/W	string	256	-
Device.Services.VoiceService.1.X_Aastra_GlobalVoiceProfile.SIP.OutboundProxyPort	R/W	int	-	0-65535
Device.Services.VoiceService.1.X_Aastra_GlobalVoiceProfile.SIP.X_Aastra_BackupProxyServer	R/W	string	256	-

## Appendix C - Standard Supported TR-069 Parameters

PARAMETER	READ/WRITE	TYPE	SIZE	RANGE
Device.Services.VoiceService.1.X_Aastra_GlobalVoiceProfile.SIP.X_Aastra_BackupProxyServerPort	R/W	int	-	0-65535
Device.Services.VoiceService.1.X_Aastra_GlobalVoiceProfile.SIP.X_Aastra_BackupOutboundProxySupport	R/W	int	-	-
Device.Services.VoiceService.1.X_Aastra_GlobalVoiceProfile.SIP.X_Aastra_BackupOutboundProxy	R/W	string	256	-
Device.Services.VoiceService.1.X_Aastra_GlobalVoiceProfile.SIP.X_Aastra_BackupOutboundProxyPort	R/W	int	-	0-65535
Device.Services.VoiceService.1.X_Aastra_GlobalVoiceProfile.SIP.X_Aastra_mode	R/W	int	-	-
Device.Services.VoiceService.1.X_Aastra_GlobalVoiceProfile.SIP.X_Aastra_centralizedConference	R/W	string	256	-
Device.Services.VoiceService.1.X_Aastra_GlobalVoiceProfile.SIP.X_Aastra_listUri	R/W	string	256	-
Device.Services.VoiceService.1.X_Aastra_GlobalVoiceProfile.SIP.TimerT1	R/W	int	-	0-65535
Device.Services.VoiceService.1.X_Aastra_GlobalVoiceProfile.SIP.TimerT2	R/W	int	-	0-65535
Device.Services.VoiceService.1.X_Aastra_GlobalVoiceProfile.SIP.ReInviteExpires	R/W	int	-	0-65535
Device.Services.VoiceService.1.X_Aastra_GlobalVoiceProfile.SIP.RegisterExpires	R/W	int	-	0-65535
Device.Services.VoiceService.1.X_Aastra_GlobalVoiceProfile.SIP.DSCPMark	R/W	int	-	0-63
Device.Services.VoiceService.1.X_Aastra_GlobalVoiceProfile.SIP.X_Aastra_SymmetricUDPSignaling	R/W	int	-	0-65535
Device.Services.VoiceService.1.X_Aastra_GlobalVoiceProfile.SIP.X_Aastra_SIPTransportProtocol	R/W	int	-	0-65535
Device.Services.VoiceService.1.X_Aastra_GlobalVoiceProfile.SIP.X_AastraUseBasicCodecs	R/W	int	-	0-65535
Device.Services.VoiceService.1.X_Aastra_GlobalVoiceProfile.SIP.X_AastraCustomizedCodecs	R/W	string	256	-
Device.Services.VoiceService.1.X_Aastra_GlobalVoiceProfile.SIP.X_AastraTaggingEnabled	R/W	int	-	-
Device.Services.VoiceService.1.X_Aastra_GlobalVoiceProfile.SIP.X_AastraTOSPriorityMap	R/W	string	256	-
Device.Services.VoiceService.1.X_Aastra_GlobalVoiceProfile.RTP				
Device.Services.VoiceService.1.X_Aastra_GlobalVoiceProfile.RTP.DSCPMark	R/W	int	-	0-63
Device.Services.VoiceService.1.X_Aastra_GlobalVoiceProfile.RTP.VLANIDMark	R/W	int	-	-
Device.Services.VoiceService.1.X_Aastra_GlobalVoiceProfile.RTP.EthernetPriorityMark	R/W	int	-	-
Device.Services.VoiceService.1.X_Aastra_GlobalVoiceProfile.RTP.RTCP				
Device.Services.VoiceService.1.X_Aastra_GlobalVoiceProfile.RTP.RTCP.Enable	R/W	boolean	-	-
Device.Services.VoiceService.1.X_Aastra_GlobalVoiceProfile.RTP.RTCP.LocalCName	R/W	string	64	-
Device.Services.VoiceService.1.X_Aastra_GlobalVoiceProfile.RTP.RTCP.X_AastraRTCPDSCPMark	R/W	int	-	0-64

## Mitel 6800i Series SIP Phones Release 4.0.0 SP1 TR-069 Configuration Guide

PARAMETER	READ/WRITE	TYPE	SIZE	RANGE
Device.Services.VoiceService.1.X_Aastra_GlobalVoiceProfile.RTP.RTCP.X_AastraRTCPPort	R/W	int	-	0-127
Device.Services.VoiceService.1.X_Aastra_GlobalVoiceProfile.RTP.RTCP.SRTP				
Device.Services.VoiceService.1.X_Aastra_GlobalVoiceProfile.RTP.RTCP.SRTP.X_Aastra_SRTP_mode	R/W	int	-	-
Device.Services.VoiceService.1.X_Aastra_GlobalVoiceProfile.Line				
Device.Services.VoiceService.1.X_Aastra_GlobalVoiceProfile.Line.1				
Device.Services.VoiceService.1.X_Aastra_GlobalVoiceProfile.Line.1.X_Aastra_ScreenName	R/W	string	256	-
Device.Services.VoiceService.1.X_Aastra_GlobalVoiceProfile.Line.1.X_Aastra_ScreenName2	R/W	string	256	-
Device.Services.VoiceService.1.X_Aastra_GlobalVoiceProfile.Line.1.SIP				
Device.Services.VoiceService.1.X_Aastra_GlobalVoiceProfile.Line.1.SIP.AuthUserName	R/W	string	128	-
Device.Services.VoiceService.1.X_Aastra_GlobalVoiceProfile.Line.1.SIP.AuthPassword	R/W	string	128	-
Device.Services.VoiceService.1.X_Aastra_GlobalVoiceProfile.Line.1.SIP.URI	R	string	389	-
Device.Services.VoiceService.1.X_Aastra_GlobalVoiceProfile.Line.1.CallingFeatures				
Device.Services.VoiceService.1.X_Aastra_GlobalVoiceProfile.Line.1.CallingFeatures.Enable	R/W	boolean	-	-
Device.Services.VoiceService.1.X_Aastra_GlobalVoiceProfile.Line.1.CallingFeatures.CallerIDName	R/W	string	256	-
Device.Services.VoiceService.1.X_Aastra_GlobalVoiceProfile.Line.1.CallingFeatures.MWIEnable	R/W	boolean	-	-
Device.Services.VoiceService.1.X_Aastra_GlobalVoiceProfile.Line.1.-Ringer				
Device.Services.VoiceService.1.X_Aastra_GlobalVoiceProfile.Line.1.-Ringer.X_Aastra_RingTone	R	int	-	-
Device.Services.VoiceService.1.VoiceProfile				
Device.Services.VoiceService.1.VoiceProfile.i (see note on <a href="#">page 28</a> )				
Device.Services.VoiceService.1.VoiceProfile.i.Enable	R	boolean	-	-
Device.Services.VoiceService.1.VoiceProfile.i.Reset	R	boolean	-	-
Device.Services.VoiceService.1.VoiceProfile.i.NumberOfLines	R	int	-	-
Device.Services.VoiceService.1.VoiceProfile.i.Name	R/W	string	64	-
Device.Services.VoiceService.1.VoiceProfile.i.STUNEnable	R	boolean	-	-
Device.Services.VoiceService.1.VoiceProfile.i.STUNServer	R	string	256	-
Device.Services.VoiceService.1.VoiceProfile.i.X_Aastra_STUNServerPort	R	int	-	0-65535

Appendix C - Standard Supported TR-069 Parameters

PARAMETER	READ/WRITE	TYPE	SIZE	RANGE
Device.Services.VoiceService.1.VoiceProfile.i.X_Aastra_DTMFMethod	R/W	int	-	-
Device.Services.VoiceService.1.VoiceProfile.i.X_Aastra_DTMFOutBand	R	int	-	-
Device.Services.VoiceService.1.VoiceProfile.i.SIP				
Device.Services.VoiceService.1.VoiceProfile.i.SIP.ProxyServer	R/W	string	256	-
Device.Services.VoiceService.1.VoiceProfile.i.SIP.ProxyServerPort	R/W	int	-	0-65535
Device.Services.VoiceService.1.VoiceProfile.i.SIP.RegistrarServer	R/W	string	256	-
Device.Services.VoiceService.1.VoiceProfile.i.SIP.RegistrarServerPort	R/W	int	-	0-65535
Device.Services.VoiceService.1.VoiceProfile.i.SIP.UserAgentDomain	R	string	256	-
Device.Services.VoiceService.1.VoiceProfile.i.SIP.OutboundProxy	R/W	string	256	-
Device.Services.VoiceService.1.VoiceProfile.i.SIP.OutboundProxyPort	R/W	int	-	0-65535
Device.Services.VoiceService.1.VoiceProfile.i.SIP.X_Aastra_BackupProxyServer	R/W	string	-	-
Device.Services.VoiceService.1.VoiceProfile.i.SIP.X_Aastra_BackupProxyServerPort	R/W	int	-	0-65535
Device.Services.VoiceService.1.VoiceProfile.i.SIP.X_Aastra_BackupOutboundProxySupport	R	int	-	-
Device.Services.VoiceService.1.VoiceProfile.i.SIP.X_Aastra_BackupOutboundProxy	R/W	string	256	-
Device.Services.VoiceService.1.VoiceProfile.i.SIP.X_Aastra_BackupOutboundProxyPort	R/W	int	-	0-65535
Device.Services.VoiceService.1.VoiceProfile.i.SIP.X_Aastra_mode	R/W	int	-	-
Device.Services.VoiceService.1.VoiceProfile.i.SIP.X_Aastra_centralizedConference	R/W	string	256	-
Device.Services.VoiceService.1.VoiceProfile.i.SIP.X_Aastra_listUri	R	string	256	-
Device.Services.VoiceService.1.VoiceProfile.i.SIP.TimerT1	R	int	-	0-65535
Device.Services.VoiceService.1.VoiceProfile.i.SIP.TimerT2	R	int	-	0-65535
Device.Services.VoiceService.1.VoiceProfile.i.SIP.ReInviteExpires	R	int	-	0-65535
Device.Services.VoiceService.1.VoiceProfile.i.SIP.DSCPMark	R	int	-	0-63
Device.Services.VoiceService.1.VoiceProfile.i.SIP.X_Aastra_SymmetricUDPSignaling	R	int	-	0-65535
Device.Services.VoiceService.1.VoiceProfile.i.SIP.X_Aastra_SIPTransportProtocol	R	int	-	0-65535
Device.Services.VoiceService.1.VoiceProfile.i.SIP.X_AastraUseBasicCodecs	R	int	-	0-65535
Device.Services.VoiceService.1.VoiceProfile.i.SIP.X_AastraCustomizedCodecs	R	string	256	-

## Mitel 6800i Series SIP Phones Release 4.0.0 SP1 TR-069 Configuration Guide

PARAMETER	READ/WRITE	TYPE	SIZE	RANGE
Device.Services.VoiceService.1.VoiceProfile.i.SIP.X_AastraTaggingEnabled	R	int	-	-
Device.Services.VoiceService.1.VoiceProfile.i.SIP.X_AastraTOSPriorityMap	R	string	256	-
Device.Services.VoiceService.1.VoiceProfile.i.RTP				
Device.Services.VoiceService.1.VoiceProfile.i.RTP.DSCPMark	R	int	-	0-63
Device.Services.VoiceService.1.VoiceProfile.i.RTP.VLANIDMark	R	int	-	-
Device.Services.VoiceService.1.VoiceProfile.i.RTP.EthernetPriorityMark	R	int	-	-
Device.Services.VoiceService.1.VoiceProfile.i.RTP.RTCP				
Device.Services.VoiceService.1.VoiceProfile.i.RTP.RTCP.Enable	R/W	boolean	-	-
Device.Services.VoiceService.1.VoiceProfile.i.RTP.RTCP.LocalCName	R/W	string	64	-
Device.Services.VoiceService.1.VoiceProfile.i.RTP.RTCP.X_AastraRTCPDSCPMark	R	int	-	0-63
Device.Services.VoiceService.1.VoiceProfile.i.RTP.RTCP.X_AastraRTCPPort	R/W	int	-	0-127
Device.Services.VoiceService.1.VoiceProfile.i.RTP.RTCP.SRTP				
Device.Services.VoiceService.1.VoiceProfile.i.RTP.RTCP.SRTP.X_Aastra_SRTP_mode	R/W	int	-	-
Device.Services.VoiceService.1.VoiceProfile.i.Line				
Device.Services.VoiceService.1.VoiceProfile.i.Line.1				
Device.Services.VoiceService.1.VoiceProfile.i.Line.1.X_Aastra_ScreenName	R/W	string	256	-
Device.Services.VoiceService.1.VoiceProfile.i.Line.1.X_Aastra_ScreenName2	R/W	string	256	-
Device.Services.VoiceService.1.VoiceProfile.i.Line.1.SIP				
Device.Services.VoiceService.1.VoiceProfile.i.Line.1.SIP.AuthUserName	R/W	string	128	-
Device.Services.VoiceService.1.VoiceProfile.i.Line.1.SIP.AuthPassword	R/W	string	128	-
Device.Services.VoiceService.1.VoiceProfile.i.Line.1.SIP.URI	R	string	389	-
Device.Services.VoiceService.1.VoiceProfile.i.Line.1.CallingFeatures				
Device.Services.VoiceService.1.VoiceProfile.i.Line.1.CallingFeatures.Enable	R	boolean	-	-
Device.Services.VoiceService.1.VoiceProfile.i.Line.1.CallingFeatures.CallerIDName	R/W	string	256	-
Device.Services.VoiceService.1.VoiceProfile.i.Line.1.CallingFeatures.MWIEnable	R	boolean	-	-
Device.Services.VoiceService.1.VoiceProfile.i.Line.1.-Ringer				

PARAMETER	READ/WRITE	TYPE	SIZE	RANGE
Device.Services.VoiceService.1.VoiceProfile.i.Line.1.-Ringer.X_Aastra_RingTone	R	int	-	-



**Note:** With parameters containing VoiceProfile.i, the “i” indicates the Voice Profile number. Depending on the phone model, there are up to 9 Voice Profiles corresponding to a specific line on the phone. See [“Voice Profile”](#) on [page 6](#) more information

