Mitel MiContact Center Enterprise

SMS GATEWAY USER GUIDE Release 9.3



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MiContact Center SMS Gateway User Guide Release 9.3 – February 2018

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INTRODUCTION

The Short Message Service (SMS) Gateway provides a solution for managing SMS messages in the MiCC Enterprise system. The SMS Gateway service interacts with one or more SMS modems, or an SMS Center, to send and receive SMS messages.

MiCC Enterprise and standalone Script Manager can use the Gateway to send and receive SMS messages independent of which message center the gateway is using. Using MiCC Enterprise Script Manager, it is possible to make routing decisions for incoming SMS messages just like any other media type. SMS messages can be handled in Script Manager by the script or routed to a SMS Service Group to select a suitable agent to handle the SMS message.

SYSTEM ARCHITECTURE AND COMPONENTS

The SMS Gateway is installed by running the SMS Gateway installation. SMS Gateway can be installed on a server separate from the MiCC Enterprise or Script Manager server. It is also possible to install SMS Gateway together with one or both MiCC Enterprise and Script Manager on the same server.



See Figure 1 for an overview of the system architecture and components.

Figure 1: SMS Gateway Architecture.

SMS GATEWAY COMPONENTS

SMS Gateway consists of two services, one database, and a configuration application.

SMS GATEWAY CONFIGURATION SERVICE

The SMS Gateway Configuration Service provides the configuration data to the configuration application as well as to the SMS Gateway Service.

SMS GATEWAY SERVICE

SMS Gateway Service is the core service, interacting with the SMS modem or the SMS Center. Based on the configuration of the SMS-G provided by the SMS Gateway Configuration Service, it interacts with a SMS modem(s) or a SMS Center. Only one configuration can be used at a time, and this is based on the installed license.

SMS GATEWAY DATABASE

SMS Gateway database is created during installation. The database is used to maintain the list of SMS messages that have not yet been handled by the application. This enables the SMS Gateway Service to recover SMS messages in case the system goes down before the SMS messages are answered.

SMS GATEWAY CONFIGURATION APPLICATION

SMS Gateway Configuration Application allows the user to configure the SMS Gateway Service. The configuration application is installed on the same server as the SMS Gateway services. It allows the user to configure the SMS Center and SMS modems. Both configurations are allowed, but only the configuration with licenses installed will be able to receive SMS messages at run time. See *SMS Gateway Configuration* for details.

COMPATIBILITY

The system requirements for the MiCC Enterprise SMS Gateway are the following:

- MiCC Enterprise (Script Manager optional).
- SMS Gateway services installed on Windows Server (refer to Note below for version compatibility).
- SQL Server (refer to Note below for version compatibility).
- One or more SMS modems or a SMS Center.



Note: For the latest information on compatibility data regarding MiCC Enterprise and software please refer to the MiCC Enterprise Compability Matrix, available in the CPI library and on the Info Channel

LICENSE REQUIREMENT

The SMS Gateway Service uses the Enterprise License Manager (ELM) to manage licenses. ELM can only be installed on one PC in the network. Refer to the *Enterprise License Manager* for details.

SMS MODEM

If the SMS Gateway Service uses SMS modems to send and receive SMS messages, it requires one modem port license per SMS modem.



Note: If both SMS-C and SMS modem licenses are installed in the system, only the SMS-C configuration will take effect. The user must remove the SMS-C license for the SMS Gateway to use the SMS modem configuration.

SMS-C

If the SMS Gateway Services uses a SMS Center to send and receive SMS messages, a SMS Center site license is required.

INSTALLATION

The MiCC Enterprise SMS Gateway Server is installed separately from the MiCC Enterprise installation. The SMS Gateway installation can be found on the MiCC Enterprise DVD in the SMSG folder. To integrate the SMS feature to MiCC Enterprise or standalone Script Manager, the location of the SMS Gateway Server must be entered during MiCC Enterprise installation. Otherwise, the SMS Gateway Server name can be updated via the MiCC Enterprise Setup utility. For standalone Script Manager, the SMS Gateway Server name can be updated via Script Manager Configuration.



Note: In order for the SMS Gateway Service to run properly, either the SMS Service Center site license or SMS modem port licenses must be installed.

HARDWARE CONFIGURATION

When software installation is complete, it is necessary to configure the hardware to be used by the SMS Gateway Server. You should determine if the SMS Gateway Service will be using SMS modem(s) or a SMS Center.

SUPPORTED SMS MODEMS

Any SMS modem that supports SMS AT command set in PDU mode can be used. Text mode is not supported. The SMS modem should either have a COM port serial port interface or a virtual COM port via USB.

The SMS modems must be connected to the PC where the SMS Gateway Server is running. Refer to the modem manual for the hardware installation.

SIM CARD

You are provided a SIM (Subscriber Identity Module) card from your network operator. The SIM card contains, for example, information about your telephone number and the services included in your subscription. The Service Center Address can be obtained from your service provider. You will need both the telephone number and Service Center Address to configure the SMS Gateway Server. For instructions on installation of the SIM card in the SMS modem, refer to the modem manual.



WARNING: The FCT must be powered off before inserting or removing a SIM card.

TESTING THE SMS MODEM

The light indicators on the modem will indicate the connectivity status and the network signal strength. Refer to your modem manual regarding how to interpret the light indicators.

SMS SERVICE CENTER

A service agreement must be made with the SMS Service Center. The location / IP address, port number, system ID and password must be provided from the service center. All the SMS addresses configured in the SMS Gateway configuration must be associated with the same system ID and password.

The SMS Service Center must support the SMPP V3.4, V4.0 or V5.0 protocol.

SMS GATEWAY CONFIGURATION APPLICATION

To use the SMS Gateway Configuration application, do the following:

- 1. From the Windows Start menu, select **Programs**, **Mitel SMS Gateway** and **Configuration**. The **SMS Gateway Properties** dialog box appears, consisting of three tabs; **General**, **SMS Center** and **GSM Modems**
- **2.** The General tab appears by default, see Figure 2. Configure database settings and other properties. See Table 1 for a description of the fields on this tab.

SMS Gateway Properties			
General SMS Center GSM Modems			1
Database Settings			
Data Source Name:	SMS-Gateway		
Login Name:	smsuser		
Password:	****		
Maximum wait time for unanswered m	nessages (hours):	168	
Maximum queue time for outgoing messages (minutes):			
Maximum number of outgoing messages per minute:		0	
Data Coding:		7 BIT	•
	ОК	Cancel	Арріу

Figure 2: General Tab

OBJECT	DESCRIPTION
Data Source Name text box	The data source name of the SMS Gateway database. This is configured during installation and it is disabled for input.
Login Name text box	The login name for the SQL database server.
Password text box	The password to login to the SQL database server.
Maximum wait time for unanswered messages (hours) text box	The maximum wait time in hours that an incoming SMS will wait for a reply. The SMS Gateway will retain the incoming SMS messages until there is a reply or the message is deleted by the application.
	The default is 7 days (168 hours).
Maximum queue time for outgoing messages (minutes) text box	The maximum number of minutes that an outgoing SMS will be queued before it is discarded.
Maximum number of outgoing messages per minute text box	The maximum number of outgoing messages that can be sent in one minute. This is the throttle rate from your provider. Check with your service provider for the throttle rate. The default is set to 0. This means the throttle rate is not used.
Data Coding drop-down list	Data Coding of the SMS messages. Valid values are:
	7 BIT
	8 BIT
	UNICODE
	The default is 7 BIT.

Table 1: Fields on General Tab

- 3. Complete the necessary information. Click **OK** to save new settings.
- **4.** If using SMS Center, select **SMS Center** tab, to configure the connection parameters. See Figure 3 and Table 2 for a description. Check with your SMS Center to obtain the configuration information.

SMS Gateway P	roperties		X
General SMS Ce	enter GSM Modems		
- SMSC			
Location:		1	
Port:		0	
System Id:			
Password:			
Altorpato Dr	acciucy Suctors Idu		
Alternate Re	eceiver bystein Iu:		
Alternate Re	eceiver Password:		
T-f-un-shine ()			
-Information U	sea when binding with Simi		
Type Of Nur	mber:	Unknown	
Numbering F	Plan Indicator:	Unknown	
System Type	e:		
- Information L	Jsed When Sending Messag	e	
Auto Del	tect Destination Address		
Service Type	e:		
	MS Message Texts		
onsapporcea :	ind nessage rext.		
Status Check I	interval (ms):	30000	
		OK Cancel Apply	

Figure 3: SMS Center Tab

OBJECT	DESCRIPTION	
Location text box	The SMS Center IP address or server name.	
Port text box	The port number used for connecting to the SMS Center.	
System ID text box	An identification of the SMS Center.	
Password text box	The password for connecting to the SMS Center. A maximum of 8 characters can be entered.	
Alternate Receiver System ID text box	Used to authenticate the connection to an SMS- C. Enter the System Id if the SMS-C requires a separate System Id for receiving SMS messages.	
Alternate Receiver Password text box	Enter the password for receiving SMS messages. A maximum of 8 characters can be entered.	
Type of Number drop-down list	The type of number. Valid values are:	
	0 – Unknown	
	1 - International	
	2 - National	
	3 – Network Specific	
	4 – Subscriber Number	
	5 - Alphanumeric	
	6 - Abbreviated	
	The default is Unknown.	
Numbering Plan Indicator drop- down list	The Numbering Plan Indicator. Valid values are:	
	0 – Unknown	
	1 – ISDN (E163/E164)	
	3 – Data (X.121)	
	4 - Telex (F.69)	
	5 – Land Mobile (E.212)	
	8 - National	
	9 - Private	
	10 - ERMES	
	13 - Internet (IP)	
	18 – WAP Client Id (to be defined by	
	WAP Forum)	
	The default is Unknown.	
System Type text box	The type of external short message entity (ESME) that is binding to the SMS center. This field is optional. Some SMS Centers may not require the ESME to provide this information. In this case, this field can be left blank. Check with your SMS Center whether this field is needed. The default value is blank.	
Auto Detect Destination Address option box	Automatically detects the number type and numbering plan. The default is unchecked.	

Table 2: Fields on SMS Center Tab

OBJECT	DESCRIPTION	
Service Type text box	This parameter can be used to indicate the SMS application service associated with the message. This field is optional. The default is blank.	
	The following generic services are defined:	
	"CMT" - Cellular messaging	
	"CPT" - Cellular Paging	
	"VMN" - Voice Mail Notification	
	"VMA" - Voice Mail Alerting	
	"WAP" – Wireless Application Protocol	
	"USSD" - Unstructured Supplementary Services Data	
	"CBS" – Cell Broadcast Service	
	"GUTS" - Generic UDP Transport Service	
Unsupported SMS Message Text text box	If an SMS is received with formatting that is unsupported, the SMS Gateway will forward the SMS sender's number to the agent along with the text defined in the Unsupported SMS Message Text field. If no text is entered, the following text will be used : Unsupported message received	
Status Check Interval (ms) text box	The interval in milliseconds that the SMS Gateway checks the connection to the SMS Center. This value should be less than the time out value from the SMS Center. Check with your provider for the time out value. The default value is 30000 ms.	

5. Complete the necessary information, and click **OK** to save the settings.

- 6. Click on the **GSM Modems** tab if you are using SMS modems, to configure the connection parameters. See Figure 4 and Table 3 for a description. Check with your network service provider to obtain the configuration information.
- 7. Complete the necessary information, and click **OK** to save the settings.

General SMS Center GSM Modems Modems 17144255043 New Modem	
Modems 17144255043 New Modem	
Modems 17144255043 New Modem	
Delete Modem	
Modem Details	
Modem Address: 17144255043	
COM Port: COM1	
Baud Rate: 115200	
Vendor: Ericsson	
Model: T610	
Carrier: AT&T	
Type Of Number:	
Numbering Plan Indicator:	
Service Center Address: +13123149810	
OK Cancel Apply	

Figure 4: GSM ModemsTab

Table 3: Fields on GSM Modems Tab

OBJECT	DESCRIPTION
Modems list box	The Modems list box lists the modems that have been configured.
Modem Address text box	The phone number of the SIM card installed on the SMS modem.
COM Port drop-down list	A list of available COM ports. Select the COM port that is connected to the SMS modem.

OBJECT	DESCRIPTION	
Baud Rate drop-down list	A list of available baud rates. The baud rates depend on operator services.	
	For Wavecom Fastrack Supreme and Maestro, the baud rate is 115200.	
Vendor text box	Enter the name of the modem vendor. This is to identify the specific modem and it is an optional parameter.	
Model text box	Enter the model name of the modem. This is to identify the specific modem and it is an optional parameter.	
Carrier text box	Enter the name of the network operator. This is for the user to identify the network operator and it is an optional parameter.	
	The default is blank.	
Type of Number drop-down list	The type of number. Valid values are:	
	0 – Unknown	
	1 - International	
	2 – National	
	3 – Network Specific	
	4 – Subscriber Number	
	5 - Alphanumeric	
	6 - Abbreviated	
	The default is Unknown.	
Numbering Plan Indicator drop-down list	Configures the type of numbering plan used. Valid values are:	
	0 – Unknown	
	1 – ISDN (E163/E164)	
	3 – Data (X.121)	
	4 - Telex (F.69)	
	5 - Land Mobile (E.212)	
	8 – National	
	9 – Private	
	10 - ERMES	
	13 – Internet (IP)	
	18 – WAP Client Id (to be defined by	
	WAP Forum)	
	The default is Unknown.	
Service Center Address text box	The SMS center address provided from your network operator. Check with your network operator to obtain the Service Center Address.	

CAPACITY

The SMS Gateway supports up to 4 SMS modems. It has been verified to receive and send 50 SMS messages per minute.

LOG FILES

The SMS Gateway Service logs status and errors to the Windows Event Log, which can be viewed through the Event Viewer. Additionally, an error log file is maintained with warnings and errors. The log is named smsgsvc.log, and is located at:

For 32 bit (x86) Windows OS:

C:\Program Files\Mitel\MiCC Enterprise\SMSG\Log\

assuming the C drive is the installation drive.

For 64 bit Windows OS:

C:\Program Files (x86)\Mitel\MiCC Enterprise \SMSG\Log\

assuming the C drive is the installation drive.

See section 2.2, Compatibility, for supported Windows OS.

REGISTRY SETTINGS

The registry entries in Table 4 are used by the SMS Gateway Service. For 32 bit (x86) Windows OS, all entries are located under the

key:HKEY LOCAL MACHINE\SOFTWARE\Mitel\SMSG\Server

For 64 bit Windows OS, all entries are located under the key:

HKEY_LOCAL_MACHINE\SOFTWARE\Wow6432Node\Mitel\SMSG\ Server

See section 2.2, Compatibility, for supported Windows OS.

ENTRY	TYPE	DEFAULT	DESCRIPTION
CfgSvc\LogFilter	DWORD	0	Log filter for SMS Gateway Configuration Service.
CfgSvc\Port	DWORD	2771	TCP/IP port of the SMS Gateway Configuration Service
SMSGSvc\LogFilter	DWORD	0	Log filter for SMS Gateway Service
SMSGSvc\Port	DWORD	2770	TCP/IP port of the SMS Gateway Service

Table 4: Registry Entries



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