API Guide

CommzGate Enterprise v6

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1 Introduction

CommzGate Enterprise is a powerful SMS messaging system packaged into an integrated appliance form. You can integrate CommzGate for your website and applications, or use it as a standalone Intranet Portal system to send and receive mobile messages worldwide.

The CommzGate Enterprise API is implemented using simple HTTP POST or GET requests. Each API request is authenticated by a secret API token generated via the CommzGate Enterprise Web Interface. If you are a API user with no administrator access, please get your API token from your server administrator.

2 How to use the API

To make a HTTP request, make use of the HTTP library provided by your language SDK (eg. HttpURLConnection in Java, cURL in PHP)

The format of a request is

POST X.X.X.X:8080/commzgate/servlet/commz.httpapi.<API Name>?<list of argument-value pairs>

where X.X.X.X is either the IP address or DNS name of the machine on which the CommzGate resides, and YY is the port number that the CommzGate server is using.

The value of <API Name> depends on the API that is being used. For example, if the API *SendMsg* is to be used, then <API Name> = *SendMsg*

The value of <list of argument-value pairs> depends on the API being called. Different APIs require a different set of arguments. This is discussed in detail in section 3.

Once the request has been made, and if the CommzGate server is online, a HTTP 200 status code respond code will be returned with the HTTP body of the respond containing a CommzGate status code describing the result of the request.

Depending on the API being called, the meaning of the CommzGate Status Code will be specific to the API. *Appendix A* provides a detailed listing and explanation of all Return Codes.

A source code example in Java is given on the next page.

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```java
//This is a simple demo that shows the SendMsg API being called
//Java code is illustrated in this example

package com.commzgate.samplecode;
import java.net.*;
import java.io.*;

public class test
{

    public static void main ( String arg[] )
    {
        try
        {
                String strReturnCode = "";
                String strLine ="";

                //enter the url of the CommzGate server
                URL objURL = new
                URL("http://192.168.3.33:8080/commzgate/servlet/commz.ser
                vlet.SendMsg?token=demo&mobile=659234234&message=testing+
                one+two+three&tag=test&type=a");

                URLConnection objURLConnection = objURL.openConnection();
                objURLConnection.setDoOutput(true);

                BufferedReader objBufferedReader = new BufferedReader(new
                InputStreamReader(objURLConnection.getInputStream()));

                int i = 0;
                while ((strLine = objBufferedReader.readLine()) != null)
                  {
                        strReturnCode += strLine;
                        if (i > 20000)
                                break;
                                i++;
                  }

                objBufferedReader.close();
                System.out.println("strReturnCode "+strReturnCode);

                //the contents of the return string are in strFeedback.
                //You can parse this variable to fetch the individual
                //components

        }
        catch(Exception e)
            {
                    System.out.println("Exception "+e);
            }
    }
}
```

3 API Details

This section defines the API, their parameters, and return values. Note that parameter names are *case sensitive*. Also, none of the parameter values that are passed in should contain the pipe "|" character. The standard URL encoding rules must be used when passing text as parameters. The examples shown in this section assume that URL encoding has been used by the calling application.

3.1 Messaging API

3.1.1 SendMsg

POST	*/commzgate/servlet/commz.servlet.SendMsg*
Description	Sends a message to the specified mobile number, or list of mobile numbers, or mobile number group

Variable	Description
token	API Authentication Token
mobile	List of short message recipient mobile phone numbers. Single recipient: <number> Multiple recipients: <number1>,<number2>,…,<numberN> **Note:** All mobile phone numbers must contain the Country Code. Only numeric values are allowed.
group	Name of recipient group created by the API *AddGroup*. When the group name is used, the message will be sent to all recipients that belong to the group.
message	Message text, 1 to 160 characters long.
tag	A short description (50 chars max) of the calling program.

Return String	Description
Success Code	The success/error acknowledgement of the API call. Refer to ***Appendix A***
Message ID List	This is a comma-delimited list of numeric Message IDs associated with each message that has been sent. If the message is sent to 10 recipients, then 10 Message IDs will be returned. If the message was sent to a mobile number list (parameter *n*) AND a mobile number group (parameter *g*), the message IDs of the mobile number list will be returned FIRST, followed by the message IDs for the individual recipients in the mobile number group. In order to query the system to map a particular message ID to a specific mobile number group recipient, use the API *GetMsgDetail*.

Important Note to user upgrading from CommzGate version prior to v4
The success code for the *SendMsg* API has changed; please update your application code

A) Example for single recipient request

Access Token	653638dc73
Mobile Number List	65911111
Message Text	Happy Birthday to you
Tag	CRM module
CommzGate IP:Portnum	192.168.3.45:8080

The calling application posts the following request:

POST
192.168.3.45:8080*/commzgate/servlet/commz.servlet.**SendMsg**?**token**=653638dc73&**mobile**=65911111&&**message**=Happy+Birthday+to+you&**tag**=CRM*

The following return string is returned:
01010, CG1API_60_1284992609698

B) Example for multiple-recipient request

Access Token	653638dc73
Mobile Number List	65911111,6591111112
Message Text	Happy Birthday to you
Description	CRM module
CommzGate IP:Portnum	192.168.3.45:8080

The calling application posts the following request:

POST
192.168.3.45:8080*/commzgate/servlet/commz.servlet.****SendMsg****?****token****=653638dc73&****mobile****=65911111,6591111112&****message****=Happy+Birthday+to+you&****tag****=From+CRM+module*

The following return string is returned:
01010, CG1API_60_1284992609698, CG1API_60_1284992609701

The return string values are mapped as follows:

Result Code	*01010 (Success)*
Message ID for recipient 6590000000	*CG1API_60_1284992609698*
Message ID for recipient 6590000001	*CG1API_60_1284992609701*

C) Example for recipient group request

Access ID	653638dc73
Mobile Group Name	testgroup
Message Text	Happy Birthday to you
Description	CRM module
CommzGate IP:Portnum	192.168.3.45:8080

The calling application posts the following request:

POST
192.168.3.45:8080*/commzgate/servlet/commz.servlet.****SendMsg****?****token****=653638dc73&****g****=testgroup&****message****=Happy+Birthday+to+you&****tag****=From+CRM+module*

The following return string is returned:
01010, CG1API_60_1284992609698, CG1API_60_1284992609701

The return string values are mapped as follows:

Result Code	*01010 (Success)*
Message ID for recipient 6590000000	*CG1API_60_1284992569823*
Message ID for recipient 6590000001	*CG1API_60_1284992569825*

Regarding carriage return
If you need to include a carriage return/line feed (CRLF) in the **msg** variable, you will need to use the code **%0D%0A** to specify this. This is the URL encoding format for CRLF.

3.1.2   GetMsgStat

POST   /commzgate/servlet/commz.httpapi.GetMsgStat
Description   Returns the status of a message based on the specified message ID

Variable	Description
token	Access Token
msgid	The message ID or comma-delimited list of message IDs for which the status is to be polled

Return String	Description
Message Status List	This is a comma-delimited list of message statuses, returned in the same order as the message IDs that were submitted.

Example

Access ID   653638dc73
Message ID   *CG1API_60_1284992569823*
CommzGate IP:Portnum   192.168.3.45:8080

The calling application posts the following request:

POST
192.168.3.45:8080*/commzgate/servlet/commz.httpapi.****GetMsgStat****?****token****=653638dc73&****msgid****=*CG1API_60_1284992569823*

The following return string is returned:
010

The return string values are mapped as follows:
Message Status for Message ID *CG1API_60_1284992569823*   *010 (Sent)*

3.1.3   RcvMsg

POST   /commzgate/servlet/commz.httpapi.RcvMsg
Description   Retrieves received messages by the CommzGate server

Variable	Description
token	Access Token
mode	This specifies the type of message to be retrieved, and takes on one of two possible values: 'n' this specifies (normal) messages that are not used by the App Gateway 'a' this specifies messages that are sent as commands to the App Gateway

Return String	Description
Sender Mobile Number	The message sender's mobile number.
Message Timestamp	The timestamp of the message. The format is: YY/MM/DD HH:MM:SS+32
Message Text	The message content.

The return string is available to be read from the HTTP port, and is returned as a pipe('|')-delimited string.

Each time this API is called, ONE message will be returned. To retrieve all messages, the API should be called repeatedly until return value 030 (for mode = 'n') or return value 040 (for mode = 'a') is returned. This means that there are no more messages left.

Example

Access Token	653638dc73
mode	n (normal messages)
CommzGate IP:Portnum	192.168.3.45:8080

The calling application posts the following request:

POST
192.168.3.45:8080*/commzgate/servlet/commz.httpapi.****RcvMsg****?****token****=*
653638dc73&***mode***=n

The following return values are returned:
6590234567|01/05/22 18:55:30+32|This is a test message

The values are mapped as follows:
Message Sender's Mobile Number	*6590234567*
Timestamp	*01/05/22 18:55:30+32*
Received Message Text	*This is a test message*

3.1.4   AddSchedMsg

POST	*/commzgate/servlet/commz.httpapi.AddSchedMsg*
Description	Sends a message to the specified mobile number, or list of mobile numbers, or mobile number group as specified by the API *AddGroup*, at a pre-set time. The functionality of this API is the same as *SendMsg*, with the added scheduling capability.

Variable	Description
token	Access Token
date	Format:yyyyMMdd Example:20111120
time	Format: HH:mm Example: 17:20 (24 Hrs)
n	List of short message recipient mobile phone numbers. Single recipient: <number> Multiple recipients: <number1>,<number2>,…,<numberN> **Note:** All phone numbers must contain the Country Code. Only numeric values are allowed.
g	Name of recipient group created by the API *AddGroup*. When the group name is used, the message will be sent to all recipients that belong to the group.
msg	Message text, 1 to 160 characters long.
desc	A short description (50 chars max) of the calling program.

Return String	Description
Success Code	The success/error acknowledgement of the API call. Refer to the Result Code table for details.
Message ID List	This is a comma-delimited list of numeric Message IDs associated with each message that has been scheduled. If the message is scheduled for 10 recipients, then 10 Message IDs will be returned. If the message was scheduled for a mobile number list (parameter *n*) AND a mobile number group (parameter *g*), the message IDs of the mobile number list will be returned FIRST, followed by the message IDs for the individual

	recipients in the mobile number group. For scheduled messages, it will not be possible to use *GetMsgStat* and *GetMsgDetail* until the message schedule deadline has been reached and the system has attempted to send the message. To query the details of the scheduled messages before the scheduled deadline has been reached, use *ListSchedMsg*.

Example

Access ID	653638dc73
Date to send mesage	20111101
Time to send message	15:30
Mobile Number List	6598765432,6597863542,97783456
Mobile Group Name	testgroup
msg	Happy Birthday to you
desc	CRM module
CommzGate IP:Portnum	192.168.3.45:8080

The calling application posts the following request:

POST
192.168.3.45:8080*/commzgate/servlet/commz.httapi.**AddSchedMsg**?**token**=*
653638dc73&***n***=6598765432,6597863542,97783456&***g***=testgroup&***msg***=Happy Birthday to you&***desc***=CRM module&***date***=20111101&***time=***15:30*

The following return string is returned:
00110,55,56,57,58,59,60

The return string values are mapped as follows:

Result Code	*00110 (Success)*
Message ID for 6598765432	*55*
Message ID for 6597863542	*56*
Message ID for 6597783456	*57*
Message ID for recipient 1 in *testgroup*	*58*
Message ID for recipient 2 in *testgroup*	*59*
Message ID for recipient 3 in *testgroup*	*60*

3.1.5   DelSchedMsg

POST	*/commzgate/servlet/commz.httpapi.DelSchedMsg*
Description	Deletes a scheduled message based on the message ID that is passed in

Variable	Description
id	Access ID
msgid	This is the Message ID by which the scheduled message is identified.

Return String	Description
Success Code	The success/error acknowledgement of the API call. Refer to the Result Code table for details.

Example

Access ID	653638dc73
msgid	55
CommzGate IP:Portnum	192.168.3.45:8080

The calling application posts the following request:

*POST **192.168.3.45:8080**/commzgate/servlet/commz.servlet.**DelSchedMsg**?**id**=653638dc73 **&msgid**=55*

The following return string is returned:
00210

The return string values are mapped as follows:

Success Code   *00210 (Success)*

3.1.6   ListSchedMsg

POST	*/commzgate/servlet/commz.httpapi.ListSchedMsg*
Description	This is used to check which UNSENT scheduled messages are in the system. To enhance the query, several optional parameters can be passed to narrow down the desired results.

Variable	Description
id	Access ID
[df]	***Optional.*** Query 'from' (start) date. Format:YYYYMMDD
[dt]	***Optional.*** Query 'to' (end) date. Format:YYYYMMDD
[msg]	***Optional.*** Messages containing this substring are valid. Not case-sensitive.
[desc]	***Optional.*** Descriptions containing this substring are valid. Not case-sensitive.

Return String	Description
Message ID	The message ID of the scheduled message.
The scheduled date and time that the message is to be sent	The format is: YYYY-MM-DD HH:MM:SS

Recipient Mobile Number	The mobile number of the message recipient.
Description	Description of the calling application.
The timestamp of when this scheduled message was created	The format is: YYYY-MM-DD HH:MM:SS
Message Text	The message content.

The return string is available to be read from the HTTP port, and is returned as a pipe('|')-delimited string.

Example

Access ID	653638dc73
Query Start Date (Optional)	20011121
Query End Date (Optional)	20011231
Message Substring (Optional)	test
Description Substring (Optional)	external
CommzGate IP:Portnum	192.168.3.45:8080

The calling application posts the following request:

POST
192.168.3.45:80*/commzgate/servlet/commz.httapi.****ListSchedMsg****?****id****=653638dc73&****df****=2011 0101&****dt****=20111231&****msg****=test&****desc****=external*

The following return string is returned:

40|2011-11-25 13:30:00|6596946175|External Application|2011-11-21 12:53:43|testing
40|2011-11-25 13:30:00|6596489766|External Application|2011-11-21 12:53:43|testing
41|2011-11-26 13:30:00|6596946175|External Application|2011-11-21 12:53:47|testing
41|2011-11-26 13:30:00|6596489766|External Application|2011-11-21 12:53:47|testing
44|2011-11-27 13:30:00|6596489766|External Application|2011-11-21 12:54:31|testing

The return string values are mapped as follows (using the first row as example):

Message ID	*40*
Send Time and Date	*2011-01-01 13:30:00*
Recipient Mobile Number	*6590234567*
Description	*External Application*
Timestamp	*2011-11-21 12:53:43*
Message Text	*testing*

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3.2 Non-Message Sending API

3.2.1 AddGroup

POST	*/commzgate/servlet/commz.httpapi.AddGroup*
Description	Add a recipient group that comprises of a list of recipient mobile numbers. A group CANNOT contain another sub-group.

Variable	Description
id	Access ID
g	Name of the group to be created.
n	List of short message recipient mobile phone numbers to be put into the group. Single recipient: <number> Multiple recipients: <number1>,<number2>,…,<numberN> Example: 659644345,6597863044,6598755254 **Note:** All phone numbers must contain the Country Code. Only numeric values are allowed.
desc	A short description (50 chars max) of the calling application.

Return String	Description
Success Code	The success/error acknowledgement of the API call. Refer to the Result Code table for details.

Example

Access ID	t653638dc73
Group Name	friends
Mobile Number list	6598765432,6597863542,97783456
Description	My External Application
CommzGate IP:Portnum	192.168.3.45:80

The calling application posts the following request:

POST
192.168.3.45:8080/commzgate/servlet/commz.httpapi.**AddGroup***?**id**=653638dc73p&**g**=friends&**n**=6598765432,6597863542,97783456&**desc**=MyExternalApplication*

The following return string is returned:
00410

The return string values are mapped as follows:
Success Code   *00410 (Success)*

3.2.2   DelGroup

POST   */commzgate/servlet/commz.httpapi.DelGroup*
Description   Delete a mobile number group that was created by *AddGroup*

Variable	Description
id	Access ID
g	Name of the group to be deleted.

Return String	Description
Success Code	The success/error acknowledgement of the API call. Refer to the Result Code table for details.

Example

Access ID   653638dc73
Group Name   friends
CommzGate IP:Portnum   192.168.3.45:8080

The calling application posts the following request:

POST
192.168.3.45:8080*/commzgate/servlet/commz.httpapi.**DelGroup***?**id**=653638dc73&g=friends*

The following return string is returned:
00510

The return string values are mapped as follows:
Success Code   *00510 (Success)*

3.2.3   ListGroup

GET	*/commzgate/servlet/commz.httpapi.ListGroup*
Description	This allows you to check which groups exist. To enhance the query, two optional parameters can be specified. If they are not specified, then all the groups will be returned.

Variable	Description
id	Access ID
[g]	***Optional.*** Name of the group
[n]	***Optional.*** Mobile number. All groups that contain this mobile number will be returned.

Return String	Description
Group Name	The name of the group
Description	The description of the group
Date and Time that the group was created	The format is: YYYY-MM-DD HH:MM:SS

The return string is available to be read from the HTTP port, and is returned as a pipe('|')-delimited string.

Example

Access ID	653638dc73
Mobile Number	6598765432
CommzGate IP:Portnum	192.168.3.45:80

The calling application posts the following request:

POST
192.168.3.45:8080*/commzgate/servlet/commz.httpapi.**ListGroup***?**id**=653638dc73&**n**=65987 65432*

The following return string is returned:
programmer|this is description |2011-11-16 10:34:09
designer|this is description |2011-11-20 16:12:43

The return string values are mapped as follows:

Group name	*programmer*
Description	*this is description*
Timestamp	2011-11-16 10:34:09

Each returned record is displayed in a new line.

3.2.4 ListGroupDetail

GET	*/commzgate/servlet/commz.httpapi.ListGroupDetail*
Description	This allows you to check the group details. To enhance the query, two optional parameters can be specified. If they are not specified, then the details of all groups will be returned.

Variable	Description
id	Access ID
[g]	***Optional.*** Name of the group
[n]	***Optional.*** Mobile number. All groups that contain this mobile number will be returned.

Return String	Description
Group Name	The name of the group
Mobile Number	The mobile number that belongs to this group
Date and Time that the mobile number was added into the group	Date and Time that the mobile number was added into the group The format is: YYYY-MM-DD HH:MM:SS
Machine Name	The Machine Name that added this Mobile Number
IP Address	The IP address of the machine that added this Mobile Number

Example

Access ID	653638dc73
Mobile Number	6598765432
CommzGate IP:Portnum	192.168.3.45:8080

The calling application posts the following request:

POST
192.168.3.45:8080/commzgate/servlet/commz.httpapi.**ListGroupDetail**?**id**=653638dc73&**n**=
6598765432

The following return string is returned:
programmer|6598765432|2011-11-15 15:41:43| CommzGate_Server
|127.0.0.1

The return string values are mapped as follows:

Group name	*programmer*
Mobile No	*6598765432*
Timestamp when mobile number was added	*2011-11-15 15:41:43*
Machine Name	*CommzGate_Server*
IP Address	*127.0.0.1*

3.2.5   AddToGroup

POST   */commzgate/servlet/commz.httpapi.AddToGroup*
Description   Add a mobile number or list of mobile numbers to an existing
                              recipient group.

Variable	Description
id	Access ID
g	Name of the group to which the mobile number(s) is to be added
n	Mobile Number or comma-delimited list of mobile numbers

Return String	Description
Success Code	The success/error acknowledgement of the API call. Refer to the Result Code table for details.

Example

Access ID   653638dc73
Group Name   programmer
Mobile Number List   6598765432,6597863542,6597783456
CommzGate IP:Portnum   192.168.3.45:8080

The calling application posts the following request:

POST
192.168.3.45:8080*/commzgate/servlet/commz.httpapi.**AddToGroup***?**id**=653638dc73&**g**=pro
grammer**&n**=6598765432,6597863542,6597783456*

The following return string is returned:
00810

The return string values are mapped as follows:
Result Code   *00810 (Success)*

3.2.6   DelFromGroup

POST   */commzgate/servlet/commz.httpapi.DelFromGroup*
Description   Delete a mobile number or list of mobile numbers from an existing
                                recipient group.

Variable	Description
id	Access ID
g	Name of the group from which the mobile number(s) is to be deleted.
n	Mobile Number or comma-delimited list of mobile numbers.

Return String	Description
Success Code	The success/error acknowledgement of the API call. Refer to the Result Code table for details.

Example

Access ID   653638dc73
Group Name   programmers
Mobile Number List   6598765432
CommzGate IP:Portnum   192.168.3.45:8080

The calling application posts the following request:

POST
192.168.3.45:8080*/commzgate/servlet/commz.httpapi.**DelFromGroup***?**id**=653638dc73&**g**=pr
ogrammers&**n**=6598765432*

The following return string is returned:
00910

The return string values are mapped as follows:
Success Code   *00910 (Success)*

Appendix A: List of API Return Codes

All result codes start with the number '0'. This is to ensure that they are not mixed up with message IDs that are returned.

Result Code	Relevant API	Meaning
000	GetMsgStat	Network Delivery Report Confirmation received.
010	GetMsgStat	Message Status = Sent
01010	SendMsg	Message has been inserted into message queue.
01011	SendMsg	Request format is invalid
011	GetMsgStat	Message Status = Pending
015	GetMsgStat	Message Status = Service not running
015	SendMsg	CommzGate background service is not running, and therefore unable to send the message(s)
016	GetMsgStat	Message Status = Modem Not Working
016	SendMsg	Modem is not working and therefore unable to send messages.
017	GetMsgStat	Modem Error
018	GetMsgStat	Message Status = Not Allowed
018	SendMsg	The system does not allow messages to be sent to this number, due to the message routing rules. Check that the message routing rules take care of this number, or that a Default Modem has been configured.
019	GetMsgStat	Recipient mobile number is unreachable.
020	GetMsgStat	The message ID that is passed in does not exist.
020	SendMsg	Group Name cannot be found.
030	RcvMsg	No more normal (mode = 'n') or Gateway (mode = 'a') messages to retrieve
030	SendMsg	Group Name does not contain any mobile.
060	SendMsg RcvMsg GetMsgStat	Invalid Access ID (*id*) or IP Address of calling application has not been granted API access by Administrator
074	RcvMsg	Invalid *mode*. Check that this is either 'a' or 'n'
075	GetMsgStat	Invalid *msgid*. Check that this is a numeric value.
075	SendMsg	Invalid *n*. Check that this is a numeric value. 20 characters allow.
080	SendMsg RcvMsg GetMsgStat	Internal processing error. If this persists, contact supportdesk@commzgate.com immediately
081	SendMsg RcvMsg GetMsgStat	Access ID (*id*) is missing
084	RcvMsg	*mode* is missing
084	SengMsg	*msg is missing*
085	GetMsgStat	*msgid* is missing
086	SendMsg	*n* or *g* is missing
090	SendMsg RcvMsg GetMsgStat	The HTTP API feature is disabled on the CommzGate Mobile Messaging Server. Unable to receive requests. Need to enable this by logging in as Administrator, then going to *API Access* screen to enable HTTP APIs.

Result Code	Relevant API	Meaning
091	SendMsg RcvMsg GetMsgStat	*id* is null (empty value)
094	RcvMsg	*mode* is null (empty value)
094	SendMsg	*msg* is null (empty value)
095	GetMsgStat	*msgid* is null (empty value)
095	SendMsg	*n* or *g* is null (empty value)
00110	AddSchedMsg	Scheduled message successfully added.
00130	AddSchedMsg	Group Name does not exist.
00140	AddSchedMsg	The scheduled date has already passed.
00160	AddSchedMsg	Invalid Access ID (*id*) or IP Address of calling application has not been granted API access by Administrator
00174	AddSchedMsg	Invalid *g*. Check that this is an alphanumeric value. Symbols (including blank space) are not allowed. Up to 20 characters allowed.
00175		Invalid *n*. Check that this is a numeric value. 20 characters allow.
00176	AddSchedMsg	Invalid *desc*. Pipe "|" character is not allowed.
00178	AddSchedMsg	Invalid *date*.Format:YYYYMMDD Example:20011120
00179	AddSchedMsg	Invalid *time*. Format: HH:mm Example: 07:20
00180	AddSchedMsg	Internal processing error. If this persists, contact supportdesk@commzgate.com immediately.
00181	AddSchedMsg	*id* is missing
00184	AddSchedMsg	*n* or *g* is missing
00186	AddSchedMsg	*desc* is missing
00187	AddSchedMsg	*msg* is missing
00188	AddSchedMsg	*date* is missing
00189	AddSchedMsg	*time* is missing
00190	AddSchedMsg	The HTTP API feature is disabled on the CommzGate Mobile Messaging Server. Unable to receive requests. Need to enable this by logging in as Administrator, then going to *API Access* screen to enable HTTP APIs.
00191	AddSchedMsg	*id* is null (empty value)
00194	AddSchedMsg	*g* is null (empty value)
00195	AddSchedMsg	*n* is null (empty value)
00196	AddSchedMsg	*desc* is null (empty value)
00197	AddSchedMsg	*msg* is null (empty value)
00198	AddSchedMsg	*date* is null (empty value)
00199	AddSchedMsg	*time* is null (empty value)
00210	DelSchedMsg	Scheduled message successfully deleted.
00230	DelSchedMsg	*msgid* does not exist.
00260	DelSchedMsg	Invalid Access ID (*id*) or IP Address of calling application has not been granted API access by Administrator
00274	DelSchedMsg	Invalid *msgid*. Check that this is a numeric value.
00280	DelSchedMsg	Internal processing error. If this persists, contact supportdesk@commzgate.com immediately
00281	DelSchedMsg	*id* is missing
00284	DelSchedMsg	*msgid* is missing
00290	DelSchedMsg	The HTTP API feature is disabled on the

Result Code	Relevant API	Meaning
		CommzGate Mobile Messaging Server. Unable to receive requests. Need to enable this by logging in as Administrator, then going to *API Access* screen to enable HTTP APIs.
00291	DelSchedMsg	*id* is null (empty value)
00294	DelSchedMsg	*msgid* is null (empty value)
00360	ListSchedMsg	Invalid Access ID (*id*) or IP Address of calling application has not been granted API access by Administrator
00370	ListSchedMsg	No record found.
00374	ListSchedMsg	Invalid *df*. Format:YYYYMMDD Example:20011120
00375	ListSchedMsg	Invalid *dt*. Format:YYYYMMDD Example:20011120
00376	ListSchedMsg	Invalid *desc*. Pipe "|" character is not allowed.
00380	ListSchedMsg	Internal processing error. If this persists, contact supportdesk@commzgate.com immediately.
00381	ListSchedMsg	*id* is missing
00390	ListSchedMsg	The HTTP API feature is disabled on the CommzGate Mobile Messaging Server. Unable to receive requests. Need to enable this by logging in as Administrator, then going to *API Access* screen to enable HTTP APIs.
00391	ListSchedMsg	*id* is null (empty value)
00410	AddGroup	Group has been successfully added.
00420	AddGroup	Group Name already exists
00460	AddGroup	Invalid Access ID (*id*) or IP Address of calling application has not been granted API access by Administrator
00474	AddGroup	Invalid *g*. Check that this is an alphanumeric value. Symbols (including blank space) are not allowed. Up to 20 characters allowed.
00475	AddGroup	Invalid *n*. Check that this is a numeric value. 20 characters allow.
00476	AddGroup	Invalid *desc*. Pipe"|" character is not allowed. Up to 50 characters allowed.
00480	AddGroup	Internal processing error. If this persists, contact supportdesk@commzgate.com immediately
00481	AddGroup	*id* is missing
00484	AddGroup	*g* is missing
00485	AddGroup	*n* is missing
00486	AddGroup	*desc* is missing
00490	AddGroup	The HTTP API feature is disabled on the CommzGate Mobile Messaging Server. Unable to receive requests. Need to enable this by logging in as Administrator, then going to *API Access* screen to enable HTTP APIs.
00491	AddGroup	*id* is null (empty value)
00494	AddGroup	*g* is null (empty value)
00495	AddGroup	*n* is null (empty value)
00496	AddGroup	*desc* is null (empty value)
00510	DelGroup	Group has been successfully deleted.
00530	DelGroup	Group Name does not exist.
00560	DelGroup	Invalid Access ID (*id*) or IP Address of calling application has not been granted API access by Administrator
00574	DelGroup	Invalid *g*. Check that this is an alphanumeric value

Result Code	Relevant API	Meaning
		(up to 20 characters) and does not contain any symbols (including blank space).
00580	DelGroup	Internal processing error. If this persists, contact supportdesk@commzgate.com immediately
00581	DelGroup	*id* is missing
00584	DelGroup	*g* is missing
00590	DelGroup	The HTTP API feature is disabled on the CommzGate Mobile Messaging Server. Unable to receive requests. Need to enable this by logging in as Administrator, then going to *API Access* screen to enable HTTP APIs.
00591	DelGroup	*id* is null (empty value)
00594	DelGroup	*g* is null (empty value)
00660	ListGroup	Invalid Access ID (*id*) or IP Address of calling application has not been granted API access by Administrator
00670	ListGroup	No record found.
00674	ListGroup	Invalid *g*. Check that this is an alphanumeric value (up to 20 characters) and does not contain any symbols (including blank space).
00675	ListGroup	Invalid *n*. Check that this is a numeric value. Up to 20 characters allowed.
00680	ListGroup	Internal processing error. If this persists, contact supportdesk@commzgate.com immediately.
00681	ListGroup	*id* is missing
00690	ListGroup	The HTTP API feature is disabled on the CommzGate Mobile Messaging Server. Unable to receive requests. Need to enable this by logging in as Administrator, then going to *API Access* screen to enable HTTP APIs.
00691	ListGroup	*id* is null (empty value)
00760	ListGroupDetail	Invalid Access ID (*id*) or IP Address of calling application has not been granted API access by Administrator
00770	ListGroupDetail	No record found.
00774	ListGroupDetail	Invalid *g*. Check that this is an alphanumeric value (up to 20 characters) and does not contain any symbols (including blank space).
00775	ListGroupDetail	Invalid *n*. Check that this is a numeric value. Up to 20 characters allowed.
00780	ListGroupDetail	Internal processing error. If this persists, contact supportdesk@commzgate.com immediately.
00781	ListGroupDetail	*id* is missing
00790	ListGroupDetail	The HTTP API feature is disabled on the CommzGate Mobile Messaging Server. Unable to receive requests. Need to enable this by logging in as Administrator, then going to *API Access* screen to enable HTTP APIs.
00791	ListGroupDetail	*id* is null (empty value)
00810	AddToGroup	Successfully added mobile number(s).
00830	AddToGroup	Group Name does not exist.
00840	AddToGroup	Mobile Number already exists in the Group.
00860	AddToGroup	Invalid Access ID (*id*) or IP Address of calling application has not been granted API access by Administrator

Result Code	Relevant API	Meaning
00874	AddToGroup	Invalid *g*. Check that this is an alphanumeric value (up to 20 characters) and does not contain any symbols (including blank space).
00875	AddToGroup	Invalid *n*. Check that this is a numeric value. Up to 20 characters allowed.
00880	AddToGroup	Internal processing error. If this persists, contact supportdesk@commzgate.com immediately
00881	AddToGroup	*id* is missing
00884	AddToGroup	*g* is missing
00885	AddToGroup	*n* is missing
00890	AddToGroup	The HTTP API feature is disabled on the CommzGate Mobile Messaging Server. Unable to receive requests. Need to enable this by logging in as Administrator, then going to *API Access* screen to enable HTTP APIs.
00891	AddToGroup	*id* is null (empty value)
00894	AddToGroup	*g* is null (empty value)
00895	AddToGroup	*n* is null (empty value)
00910	DelFromGroup	Successfully deleted mobile number(s)
00930	DelFromGroup	Group Name does not exist.
00950	DelFromGroup	Mobile Number(s) does not exist.
00960	DelFromGroup	Invalid Access ID (*id*) or IP Address of calling application has not been granted API access by Administrator
00974	DelFromGroup	Invalid *g*. Check that this is an alphanumeric value (up to 20 characters) and does not contain any symbols (including blank space).
00975	DelFromGroup	Invalid *n*. Check that this is a numeric value. Up to 20 characters allowed.
00980	DelFromGroup	Internal processing error. If this persists, contact supportdesk@commzgate.com immediately.
00981	DelFromGroup	*id* is missing
00985	DelFromGroup	*n* is missing
00990	DelFromGroup	The HTTP API feature is disabled on the CommzGate Mobile Messaging Server. Unable to receive requests. Need to enable this by logging in as Administrator, then going to *API Access* screen to enable HTTP APIs.
00991	DelFromGroup	*id* is null (empty value)
00994	DelFromGroup	*g* is null (empty value)
00995	DelFromGroup	*n* is null (empty value)
01030	GetMsgDetail	*msgid* does not exist
01060	GetMsgDetail	Invalid Access ID (*id*) or IP Address of calling application has not been granted API access by Administrator
01075	GetMsgDetail	Invalid *msgid*. Check that this is a numeric value.
01080	GetMsgDetail	Internal processing error. If this persists, contact supportdesk@commzgate.com immediately.
01081	GetMsgDetail	*id* is missing
01085	GetMsgDetail	*n* is missing
01090	GetMsgDetail	The HTTP API feature is disabled on the CommzGate Mobile Messaging Server. Unable to receive requests. Need to enable this by logging in as Administrator, then going to *API Access* screen to enable HTTP APIs.
01091	GetMsgDetail	*id* is null (empty value)

Result Code	Relevant API	Meaning
01095	GetMsgDetail	*msgid* is null (empty value)

Appendix B: List of Country Codes

Country Code	Country
af	Afghanistan
al	Albania
dz	Algeria
ar	Argentina
aa	American Samoa
an	Andorra
am	Antigua
ai	Armenia
au	Australia
at	Austria
az	Azerbaijan
ba	Bahrain
bd	Bangladesh
bc	Belarus
be	Belgium
bn	Benin
bh	Bosnia-Herzegovina
bo	Botswana
bz	Brazil
br	Brunei
bg	Bulgaria
bf	Burkina Faso
bu	Burundi
cb	Cambodia
cc	Cameroon
ca	Canada
cp	Cape Verde
cl	Chile
cn	China
cf	Congo
co	Colombia
cr	Costa Rica
ct	Croatia
cg	Central Africa Republic
cy	Cyprus
cz	Czech Republic
dk	Denmark
ec	Ecuador
eg	Egypt
ef	El Salvador
eq	Equatorial Guinea
es	Estonia
et	Ethiopia
fa	Faeroe Islands
fj	Fiji Islands
fi	Finland
fr	France
fp	French Polynesia
ga	Gabon
go	Georgia
ge	Germany

Country Code	Country
gh	Ghana
gi	Gibraltar
gr	Greece
gl	Greenland
gu	Guinea
hk	Hong Kong
hu	Hungary
ic	Iceland
in	India
id	Indonesia
ir	Iran
ie	Ireland
il	Israel
it	Italy
iv	Ivory Coast
jp	Japan
jo	Jordan
ka	Kazakhstan
ke	Kenya
kr	Korea, South
kr	Krgyz
ku	Kuwait
la	Lao
lb	Lebanon
le	Lesotho
lf	Liberia
lg	Libya
lh	Liechtenstein
li	Lithuania
lu	Luxemburg
ma	Macau
mb	Macedonia
md	Madagascar
ml	Malawi
my	Malaysia
mm	Maldives
mn	Malta
mo	Mauritius
mp	Moldova
mq	Monaco
mr	Mongolia
mx	Mexico
ms	Mongolia
mt	Morocco
mu	Mozambique
na	Namibia
nb	Nepal
nl	Netherlands
nc	New Caledonia
nz	New Zealand
ni	Nigeria
no	Norway
om	Oman
pk	Pakistan
pa	Papua New Guinea
pg	Paraguay

Country Code	Country
pe	Peru
ph	Philippines
pl	Poland
pt	Portugal
pr	Puerto Rico
qa	Qatar
re	Reunion Island
ro	Romania
rw	Rwanda
ru	Russia
sa	Saudi Arabia
se	Senegal
sf	Seychelles
sh	Sierra Leone
sg	Singapore
sl	Slovakia
so	Slovenia
sm	Somalia
sa	South Africa
sp	Spain
sk	Sri Lanka
sm	Sudan
sn	Swaziland
se	Sweden
sw	Switzerland
sy	Syria
tw	Taiwan
tb	Tanzania
th	Thailand
tc	Togo
td	Tunisia
tr	Turkey
tu	Turkmenistan
ua	Uganda
ub	Ukraine
uc	United Arab Emirates
uk	United Kingdom
uz	Uzbekistan
us	United States of America
ve	Venezuela
vi	Vietnam
yu	Yugoslavia
za	Zaire
zb	Zambia
zc	Zimbabwe

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