



www.smscenter.co.il

SMSCenter

**Multi Messaging Software Server
SMS / IVR (Voice calls)**

SMSCenter API



SMSCenter API

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Date	Change Description
02-May-2010	Added support for SendMessagesV2 Method
02-May-2010	Added support for SendMMS Method
02-May-2010	Added support for SendIVR Voice Messages Method
20-Sep-2011	Added Support in SendIVR Voice Messages & Method Response MessageID
25-Dec-2013	Added support for SendMessagesReturnMessageID & Check Prepaid Users & Company
10-Mar-2015	Delivery Notifications back to source / originate system
09-Nov-2015	In the module 'Customer Notification delivery' repaired the Token from '{Date}' to '{DLR_DDMMYYYYHHMMSS}' and format to 'DDMMYYYYHHMMSS'
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Purpose of this document

The SMSCenter system accepts incoming requests to send SMS / IVR messages in a variety of ways. This document will list these ways.

SSL Support

Although this document refers to http access on all of the URL's, SSL only is supported and must be used in every URL that is listed in this document.

About SMSCenter

SMSCenter software server enables various types of bi-directional messages includes SMS / IVR communication for various business needs.

The SMSCenter platform provides web users with rich functionality to organize distribution lists, view sent messages, edit predefined messages and define users permissions.

System can be installed at service providers hosting or within customers infrastructure to be connected and integrated to various IT legacy systems need to send a receive SMS messages.

The SMSCenter system contains state of the art billing platform, and management system for the service administrator.

Besides the ability to send SMS to a group of recipients, software supports also incoming messages as a replay to previously outgoing messages sent to same subscribers or supports new income messages sent by mobile handsets to the system.

System equipped with reports and statistics enables service providers to control SMS and IVR traffic.

SMSCenter – The ultimate Messaging Solution:

- WEB based system for sending SMS / IVR.
- Supports various communication protocols (APIs) for sending SMS automatically through the SMSCenter Gateway,
- Enable Email to SMS, Email to WAP enhance messages
- Supports events based messaging with various triggers like : Incoming SMS, Http, incoming Email, File monitoring
- Bulk SMS publications with personal content to every recipient
- Interactive SMS for survey and for collect information from subscribers by SMS / IVR mechanism
- Option to upload automatically various lists of subscribers
- Various reports and messages statistics.
- SMSCenter Outlook®/Excel® Add-In for sending and receive SMS from MS-Office ® applications without any need to browse the main SMScenter web site.
- Friendly interface to all kind of users {i.e. business, private users}
- Send SMS after XX time or at particular date & time.
- Send automatic SMS base on constants rules {i.e. Birth date, Special condition}
- Send Personalize SMS to each recipient contains specific text or data from customer Data Base to each subscriber

HTTPS POST or GET

The server can accept incoming messages through POST or GET to the following URL :

[https://www.smscenter.co.il/Web/pushsms.aspx?
UserName=USERNAME&Password=PASSWORD&Sender=SENDERNAME&ToPhoneNumber=T
ARGETPHONENUMBER&Message=MESSAGETEXT&EnableChaining=ENABLECHAINING](https://www.smscenter.co.il/Web/pushsms.aspx?UserName=USERNAME&Password=PASSWORD&Sender=SENDERNAME&ToPhoneNumber=TARGETPHONENUMBER&Message=MESSAGETEXT&EnableChaining=ENABLECHAINING)

The parameters which are included in the URL are:

Parameter	Description
Username	The username at the SMSCenter Site
Password	An encrypted password that should be received from the SMSCenter support team. This is NOT the password you use to login into the SMSCenter web site!
Sender	The Signature of the sender of the SMS Message
ToPhoneNumber	The telephone number of the recipient. Can be in the following formats: +97254123456 054-123456 054123456 More formats might be supported. Ask the SMSCenter support for more details.
Message	The SMS Message to send.
EnableChaining	to sending long message, more than 70 characters in Hebrew and in English more then 160 characters. You have to add this parameter and send "1".

Notes:

The URL must contain all of these parameters.

Each request to the server can be used to send only one message. To send multiple messages make multiple requests.

Encoded HTTP POST or GET

This method is the same as the HTTP POST or GET method mentioned before except for the following:

The URL contains an additional parameter ENC=1

The Username, Password and Message are encrypted using an ActiveX DLL created by OfficeCore.

All other settings are the same as the HTTP POST or GET definitions

Server Response

The server will respond to an HTTP request with one of the following responses:

Response	Meaning
OK	Message Queued for delivery
Invalid Username or Password.	Invalid Username or Password sent.
The message cannot be empty.	You have tried sending an empty message. The server cannot send an empty message
The Sender cannot be empty.	You did not specify a sender. A sender must be specified
The Recipient Phone Number cannot be empty	You did not specify a recipient for the message.
Company Has No Permission To Send to the specified Operator.	You tried sending a message to an operator which you do not have permissions to send SMS messages to or the provider is unknown.
Company is Disabled.	The company is disabled.
User is disabled or deleted.	The user is disabled or has been deleted.
Company is not allowed to push more messages through URL or MAIL	You are not allowed to send any more messages using any means other than the SMSCenter web site.

WEB Service – Send SMS

The server exposes a Web Service for sending SMS Messages to a single recipient or multiple recipients. The Web Service is located at the URL

<https://www.smscenter.co.il/Web/WebServices/SendMessage.aspx>

SendMessagesV2 Method

The SendMessagesV2 Method allows sending a SMS message to multiple recipients. This method allows defining The Message Option Regular or Concatenated or Reply and the price for the Reverse Billing send method.

Parameter	Data Type	Description
Username	String	The username at the SMSCenter Site
Password	String	An encrypted password that should be received from the SMSCenter support team. This is NOT the password you use to login into the SMSCenter web site!
SenderName	String	The Signature of the sender of the SMS Message
SendToPhoneNumbers	String	Recipient phone numbers, separated by comma in the following supported formats: +972541234567 054-1234567 0541234567 More formats might be supported. Ask the SMSCenter support for more details.
CCToEmail	String	Recipient Emails address to send the Message to apart from the SMS, separated by comma.
Message	String	The SMS Message to send
SMSOperation	Enumerator or Int32	Can be one of the following: <ul style="list-style-type: none"> • Push – Sends the message to the recipient as a normal SMS • Pull – Sends the message to the recipient with special codes that enable the recipient to return an answer to the sender. <p>Notes:</p> <ul style="list-style-type: none"> ▪ The SenderName parameter is ignored and a special virtual number is instead of it. ▪ Your company must be enabled for Pull messages in order to send these kinds of messages. Contact the SMSCenter support for more details. • ReverseBilling – Sends the message to the recipient for reverse billing (The recipient pays for the SMS). <p>Notes:</p> <ul style="list-style-type: none"> ▪ Your company must be enabled for Reverse Billing messages in order to send these kinds of messages. Contact the SMSCenter support for more details.
DeliveryDelayInMinutes	Int64	Defines the delay in minutes that the server has to wait before sending the message. Use 0 for immediate delivery
ExpirationDelayInMinutes	Int64	Defines the date and time after which the SMSCenter server will expire the message and will not attempt delivery
MessageOption	Enumerator or Int32	Regular ,Concatenated or Reply
Price	Double	The price for the message. Notes: Because of mobile provider limitations, You must check with the SMSCenter support team that The price is supported.

SendMessageReturnMessageID

The SendMessageV2 Method is also allows sending a SMS similar to the method SendMessageV2.

The Difference is only in response this method return the messageID.

Response

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <SendMessageReturnMessageIDResponse xmlns="http://www.smscenter.co.il/">
      <SendMessageReturnMessageIDResult>
        <Response> OK or InvalidUserNameOrPassword or </Response>
        <MessageID>long</MessageID>
      </SendMessageReturnMessageIDResult>
    </SendMessageReturnMessageIDResponse>
  </soap:Body>
</soap:Envelope>
```

Parameter	Data Type	Description
Response	String	The status Call - See SMS status table
MessageID	String	The MessageID in SmsCenter

SMS Status table

Response	Meaning
OK	Message Queued for delivery
Invalid Username or Password.	Invalid Username or Password sent.
CompanyNotAllowedToSendToSpecifiedProvider	
SomeMessagesSent	You did not specify a sender. A sender must be specified
NoMessagesSent	You did not specify a recipient for the message.
InternalError	
InvalidPhoneNumber	You tried sending a message to an operator which you do not have permissions to send SMS messages to or the provider is unknown.
ThePhoneNumberListMustContainAtLeastOneNumber	
Company is Disabled.	The company is disabled.
User is disabled or deleted.	The user is disabled or has been deleted.
InvalidIPAddress	
MessageCanNotBeEmpty	

WEB Service – SendIVR Voice Messages (Voice calls)

<https://www.smscenter.co.il/Web/WebServices/SendIVRMessage.aspx>

The SendIVRMessages Method allows sending IVR pre-defined (recorded) voice message to multiple recipients by automatic voice calls of the SMSCenter server to recipients.

WEB Service Parameters:

Parameter	Data Type	Description
Username	String	The username at the SMSCenter Site
Password	String	An encrypted password that should be received from the SMSCenter support team. This is NOT the password you use to login into the SMSCenter web site!
SenderName	String	The Signature of the sender of the SMS Message
RecordID	Int	The Code of the IVR Message
SendToPhoneNumbers	String	Recipient phone numbers, separated by comma in the following supported formats: +972541234567 054-1234567 0541234567 More formats might be supported. Ask the SMSCenter support for more details.
Message	String	The SMS Message to send
DeliveryDelayInMinutes	Int64	Defines the delay in minutes that the server has to wait before sending the message. Use 0 for immediate delivery
ExpirationDelayInMinutes	Int64	Defines the date and time after which the SMSCenter server will expire the message and will not attempt delivery

SMSCenter Server Response XML :

```
<SendMessageV2ReturnMessageID xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns="http://www.smscenter.co.il/">
  <MessageID></MessageID>
  <Response>Response See IVR Login Status table</Response>
</SendMessageV2ReturnMessageID>
```

Get Messages Response By MessageID

<https://www.smscenter.co.il/Web/WebServices/SendIVRMessage.aspx>

The GetMessagesResponseByMessageID WEB Method allows pull answers by MessageID includes all recipient numbers and info about each target number
The response based on XML info by return

Parameter	Data Type	Description
Username	String	The username at the SMSCenter Site
Password	String	An encrypted password that should be received from the SMSCenter support team. This is NOT the password you use to login into the SMSCenter web site!
MessageID	Int	Message ID

Response:

```
<?xml version="1.0" encoding="UTF-8"?>
-<IVRMessagesReturnResponse xmlns="http://tempuri.org/" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <Login>OK</Login>
  -<ArrIVRMessagesReturnResponse>
    -<IVRMessageReturnResponse>
      <Mobile>972547123456</Mobile>
      <Status>IVRCallSuccess</Status>
      <SendDate>31/08/2011 09:57:23</SendDate>
      <CallLength>8</CallLength>
      <Response>2</Response>
    >
  </IVRMessageReturnResponse>
</ArrIVRMessagesReturnResponse>
</IVRMessagesReturnResponse>
```

Parameter	Data Type	Description
Login	String	The status login - See IVR login status table
Mobile	String	An encrypted password that should be received from the SMSCenter support team. This is NOT the password you use to login into the SMSCenter web site!
Status	Int	The status Call. See Status IVRMessage table
SendDate	DateTime	
CallLength	int	Actual message length
Response	String	In case recipient press a response

IVR Login Status

Response	Meaning
OK	Message Queued for delivery
Invalid Username or Password.	Invalid Username or Password sent.
CompanyNotAllowedToSendToSpecifiedProvider	
SomeMessagesSent	You did not specify a sender. A sender must be specified
NoMessagesSent	You did not specify a recipient for the message.
InvalidPhoneNumber	You tried sending a message to an operator which you do not have permissions to send SMS messages to or the provider is unknown.
ThePhoneNumberListMustContainAtLeastOneNumber	
Company is Disabled.	The company is disabled.
User is disabled or deleted.	The user is disabled or has been deleted.
Company is not allowed to push more IVR messages through URL or MAIL	You are not allowed to send any more messages using any means other than the SMSCenter web site.
InvalidIPAddress	
RecordIsNotAllowed	

IVRMessage Status table

Response	Meaning
NewCall	Outgoing Call
Sent	Message Sent
CompanyDisabled	Company or Customer Disabled
MobileEmpty	Mobile number Empty or Not Valid
NotEnoughIVRSecondsAvailable	Not Enough IVR Seconds Available for the customer
NoPermissionToSendToProvider	No Permission to company to Send To Provider
MessageDeleted	Message Deleted
MessageExpired	Message Expired
Queued	Queued – In Process
UserIsDisabledOrDeleted	User Disabled Or Deleted
DelayedMessage	Delayed or Planned Message
NumberBlackListedForCompany	Number exist Black Listed For Company
IVRCallSuccess	IVR Call Success
IVRCallNotSuccess	IVR Call Not Success
ExceededtheNumberOfTries	Exceeded the Number of call tries
Calling	Calling status
FailedCall	Failed Call
Connected	Connected
Disconnected	Disconnected
Expired	IVR Expired
InConference	In Conference
Undefined	Undefined error
RestrictHours	Restrict Hours
RestrictDate	Restrict Date
ProviderNotFound	Provider Not Found
FailedWithResponse	Failed With Response
FailedWithoutResponse	Failed Without Response

Check PrePaid User & Company

<https://www.smscenter.co.il/web/webservices/CheckPrePaid.asmx>

CheckCompanyPrePaid Method

The CheckCompanyPrePaidWEB Method allows back office administrator to resolve Prepaid balance of the whole company in the SMSCenter system

The response based on XML info by return

Parameter	Data Type	Description
Username	String	The username at the SMSCenter Site
Password	String	An encrypted password that should be received from the SMSCenter support team. This is NOT the password you use to login into the SMSCenter web site!

Response:

```
<?xml version="1.0" encoding="utf-8" ?>
-<CheckPrePaidResult xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns="http://www.smscenter.co.il/Web/WebServices/">
  <SMS>1813</SMS>
  <IVRSeconds>162516</IVRSeconds>
  <MMS>845</MMS>
  <Result>OK</Result>
</CheckPrePaidResult>
```

Response Parameters	Data Type	Description
SMS	String	
IVRSeconds	String	
MMS	String	
Result	String	

CheckUsersPrePaid Method

The CheckUsersPrePaid WEB Method allows back office administrator to resolve Prepaid balance of specific user or for all users defined for a specific company in the SMSCenter system

The response based on XML info by return

Parameter	Data Type	Description
Username	String	The username at the SMSCenter Site
Password	String	An encrypted password that should be received from the SMSCenter support team. This is NOT the password you use to login into the SMSCenter web site!
Mode	Enumerator or Int32	AllUsers or ThisUser

Response:

```
<?xml version="1.0" encoding="utf-8" ?>
- <UsersPrePaidResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns="http://www.smscenter.co.il/Web/WebServices/">
  <CompanyWorkingInUserPrepaidMode>true</CompanyWorkingInUserPrepaidMode>
- <Items>
- <UserPrePaid>
  <UserName>Developers</UserName>
  <SMS>1350</SMS>
  <UserWorkingInPrePaidMode>false</UserWorkingInPrePaidMode>
</UserPrePaid>
</Items>
<ReturnValues>OK</ReturnValues>
</UsersPrePaidResponse>
```

Response Parameters	Data Type	Description
CompanyWorkingInUserPrepaidMode	String	True Or False
ReturnValues	String	

Items of the Response parameters

Parameter	Data Type	Description
UserName	String	
SMS	String	
UserWorkingInPrePaidMode	Enumerator or Int32	

Customer Notification Delivery

The server can send notifications to a customer's server (back office originate system) for SMS sent by the SMSCenter and for delivery events that have been responded from providers following mobile device Responses. SMSCenter server will deliver these notifications via HTTP (or HTTPS) to a URL given by the customer.

The server supports Get methods.

A typical URL will look like this:

https://server/page.asp?MSISDN={MSISDN}&MessageID={MsgID}&Date={Dlr_ddmmyyyhhmmss}&Status={StatusDes}&StatusCode={StatusCode}&Description={Des}&DescriptionCode={DesCode}

Possible / available Tokens for the URL Notification (GET) are :

Token	Description
{MsgID}	Message ID response from WS.
{MSISDN}	Msisdn number who send the message.
{StatusCode}	See Status Codes table for possible values
{StatusDes}	Details status reason.
{ReasonCode}	See Status IDs table for possible values.
{ReasonDes}	Description
{Dlr_ddmmyyyhhmmss}	The message delivery in the format ddmmyyyhhmmss

Customer Server Response upon SMSCenter notification :

Customer web page that receives the notification, must respond with a text that contains the string "_OK_" (without the quotes). If the response of the server does not contain this string SMSCenter server will consider the delivery a failure and will queue it up for retry later on.

Errors while sending a notification : If SMSCenter server encounters an error while accessing the URL or the Customer server not response according to the above mentioned specification, then the delivery report will be held for up to 3 days and will be retried at the following intervals: Every 5 minutes on the first hour; after that every hour

Status Codes for the Delivery notifications :

Token	Description	Token
200	Failed	Failed to sent from SMSCenter to Cellular provider
300	Accepted	Message (that sent from SMSCenter to cellular provider) accepted by Cellular provider
400	Rejected	Message rejected by cellular provider
500	Buffered	Message in Buffer of cellular provider servers
600	Delivered	Message delivered to the mobile device according to cellular operator info
700	Undeliver	Message finally not delivered to the mobile device according to cellular operator info

Reason Codes & Description

Reason Code	Reason Description
204	ProviderNotFound
205	CompanyDisabled
206	MobileEmpty
207	NotEnoughSMSMessagesAvailable
208	NoPermissionToSendToProvider
210	MessageExpired
212	UserIsDisabledOrDeleted
214	NumberBlackListedForCompany
215	RestrictHours
216	RestrictDate
217	ExceededtheNumberOfTries
218	TargetMobileCanNotStartWithNumberZero
301	Accepted
401	Message rejected by provider
402	Black List
501	Buffered
601	Message delivered
701	Message EXPIRED/ SMSC Error: Message validity period has expired
702	Invalid Dest Addr
703	Unknown subscriber
704	Message is in a rejected state
705	Provision block
706	SMSC: Invalid Source Address
707	Routing Error
999	Send the provider message

Email 2 SMS

The SMSCenter server can accept email messages and send them as SMS messages. To use the Email 2 SMS feature send an email using the following specifications:

Email Field	Description
From	The 'From' field defines the Signature of the sender of the SMS. If the 'From' Field is not defined the senders email address will be used.
To	<p>The 'To' field defines the recipients of the SMS. Each recipient must be defined as <mobile number>@smscenter.co.il. (e.g. 0541234567@smscenter.co.il)</p> <p>The mobile number can be in the following formats: +972541234567 054-1234567 0541234567</p> <p>The email can contain multiple recipients.</p> <p>More formats might be supported. Ask the SMSCenter support for more details.</p>
Subject	<p>The 'Subject' field includes your Username and Password.</p> <p>Notes: The password is an encrypted password that should be received from the SMSCenter support team. This is NOT the password you use to login into the SMSCenter web site!</p>
Body	The 'Body' field of the Email is used as the contents of the SMS message.

For users of SMSCenter that cannot comply to this email format, The SMSCenter server can also accept emails in various other formats. Contact the SMSCenter support for more information.

