

# CELLTRUST CORPORATION

20701 N. Scottsdale Rd  
Suite #107-451  
Scottsdale, AZ 85255

Tel: 480.515.5200

support@celltrust.com  
www.celltrust.com

## **CellTrust Java SDK**

### **Developer Manual**

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# 1 INTRODUCTION

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## 1.1 SUMMARY

This document is intended for developers who want to make use of CellTrust Java Software Development Kit. Java SDK is intended to be used for development of Java client applications and it is assumed that the users of this manual are familiar with Java language.

CellTrust Java SDK was developed using J2SE 5.0.

## 1.2 TERMS AND CONDITIONS

Thank you for using the CellTrust APIs service. By using this service ("CellTrust Java SDK") you agree to be bound by the following terms and conditions (the "Terms and Conditions") in Appendix A.

## 1.3 SERVICE FUNCTIONALITY OVERVIEW

CellTrust Java SDK allows fast integration and provides secure way of communication with CellTrust enterprise platform. The toolkit allows to send MT message to any number of phone or email recipients. Some advanced features include using of predefined templates and sending messages to predefined recipient group.

## 2 DEFINITIONS

---

MO – Mobile Originated Message	A single message sent to application from mobile handset
MT – Mobile Terminated Message	Any message sent from an application to a mobile handset
Recipient	Message destination – contains of phone number or email address and optionally first and last name of the person behind this destination
Short Code	Short code is a four or five-digit number to be used to send and receive SMS. It is used vs. Long number (traditional 10 digits number)

## 3 JAVA SDK API

---

### 3.1 OVERVIEW

The whole functionality of sending MT messages through CellTrust platform is wrapped inside single CellTrust class. This class provides interface to the underlying infrastructure and hides all the details of communication with CellTrust server.

CellTrust Java SDK is distributed as single pmclient.jar file. Submission of every message request requires user authentication, and so valid account with CellTrust is required in order to be able to use this package.

CellTrust requires valid CT Gateway server name to submit requests to this server. You can use system parameter pm.server.name to explicitly pass the server name. Alternatively you can use CellTrust(serverName) constructor to manually set server name - this method has higher precedence and will overwrite system parameter setting.

You can send message to any number of recipients or recipient groups, but you can use only one delivery type ( SMS or email ) at a time. By default delivery type is set to SMS. You can modify it passing PMDeliveryType.SMS or PMDeliveryType.EMAIL constants to setDeliveryType( ...) method.

You can reuse the same CellTrust object to send another message ( or to send the same message using different delivery type ). If you need to set different recipients, use clearGroupList() and clearRecipientList() prior to adding new recipients

CellTrust Core system keeps user passwords in encrypted form. The password provided with sendMessage(...) method will be encrypted before it is sent to the server.

Instead of simple text message you can use predefined template ( template must be defined and saved using MyEngage application before the real message is sent ). You can pass template using internal template ID or template name. Using setTemplateParams(...) method you can also pass a set of values for the tags defined inside the template. The Hashtable passed has to include tag-value pairs, where tag represents specific tag defined inside the template, and value is the substitute for this tag

You can send "WAP Push" message - it will arrive as a link to specific web site ( not all cell phones and carriers support this feature ). To set the message to be "WAP Push" message simply add URL using setWapPushUrl(..) method. The message itself will become the link pointing to provided URL.

<p><b>Note:</b> WAP push is not allowed in Canada based on Canadian wireless regulations. Instead of using WAP push, you can put the URL in the body of message and send it as a regular text.</p>
--

If debug mode is set to true using setDebugMode( true) method, some output will be printed to stdout.

You can send message to predefined port on the cell phone – use `setDestPort(..)` method.

You can also send premium messages – use `setPricePointValue(..)` to define price point ( NOTE: price points must be preconfigured in customer account).

You can check the status of the last request that was sent using `getOperationStatus()`. Possible values are `PMDeliveryStatus.ACCEPTED` (1) or `PMDeliveryStatus.FAILURE` (4). In case of failure you can read the message returned by CT Gateway using `getOperationErrorMessage()`

Finally, in order to send the message you must provide valid customer nickname.

## 3.2 API SPECIFICATION

### 3.2.1 addGroupName

```
public void addGroupName( String groupName)
    add contact group by name ( the group has to be predefined using MyEngage application)
```

**Parameters:**

groupName – the name of predefined contact group

---

### 3.2.2 addRecipient

```
public void addRecipient( String firstName,
                           String lastName,
                           int mobileCountryCode,
                           int mobileAreaCode,
                           int mobileNumber)
```

provide full information needed to send SMS

**Parameters:**

firstName - First Name

lastName - Last Name

mobileCountryCode - Mobile phone country code

mobileAreaCode - Mobile phone area code

mobileNumber - Mobile phone number

---

### 3.2.3 addRecipient

```
public void addRecipient( String firstName,  
                          String lastName,  
                          String email)
```

provide full information needed to send Email

**Parameters:**

firstName - First Name

lastName - Last Name

email - email address

---

### 3.2.4

### 3.2.5 clearGroupList

```
public void clearGroupList()
```

Remove all previously added groups

---

### 3.2.6 clearRecipientList

```
public void clearRecipientList()
```

Remove all previously added recipients

---

### 3.2.7

### 3.2.8 getCustomerAbbrev

```
public String getCustomerAbbrev()
```

Customer Abbreviation ( Nickname ) is assigned to every customer upon registration.

**Returns:**

Customer Abbreviation ( Nickname )

---

### 3.2.9 getDeliveryTypeId

```
public int getDeliveryTypeId()
```

Currently supported Delivery Types are 0 ( PMDeliveryType.SMS ) or 1 ( PMDeliveryType.EMAIL )

**Returns:**

Delivery Type

---

### 3.2.10 getDestPort

```
public int getDestPort()
```

returns defined cell phone port

**Returns:**

Destination Port

---

### 3.2.11 getMessageBody

```
public String getMessageBody()
```

**Returns:**

message body to be sent

---

### 3.2.12 getMessageSubject

```
public String getMessageSubject()
```

Message subject is used only if the message is delivered as Email; it is ignored for SMS messages.

**Returns:**

message subject to be sent

---

### 3.2.13 getOperationErrorMessage

```
public String getOperationErrorMessage()
```

Error message is generated by primemessage Engine if send operation failed

**Returns:**

operation error message as returned by primemessage Engine

---

### 3.2.14 getOperationStatus

```
public int getOperationStatus()
```

Operation status of the send operation can be or PMDeliveryStatus.ACCEPTED ( 1 ), or PMDeliveryStatus.FAILURE ( 4).

Note: the ACCEPTED status only means that the request was successfully validated and message is accepted for delivery. It doesn't promise that message is successfully delivered to recipient. To get the final message status use reporting tools ( MyEngage application, or Reporting Module ). Note that it can take up to 24 hours to get final confirmation from the carrier.

**Returns:**

status of the last send operation

---

### 3.2.15 getPricePointValue

```
public int getPricePointValue()
```

Returns defined price point ( Must be preconfigured for customer account)

**Returns:**

price point value

---

### 3.2.16 getSender

```
public String getSender()
```

"From" email address for email messages

**Returns:**

Sender

---

### 3.2.17 getShortcode

```
public String getShortcode()
```

Returns shortcode to be used to send the message ( this parameter is relevant only in case of using dedicated shortcode)

**Returns:**

Shortcode

---

### 3.2.18 getTemplateName

```
public String getTemplateName()
```

The name of template to be used for this message

**Returns:**

Template Name

---

### 3.2.19 getTemplateParams

```
public Hashtable getTemplateParams()
```

Attribute-value pairs to be used to convert template into message

**Returns:**

Hashtable containing attribute-value pairs

---

### 3.2.20 getWapPushUrl

```
public String getWapPushUrl()
```

**Returns:**

URL for WAP Push

---

### 3.2.21 sendMessage

```
public String sendMessage()  
    throws PMException
```

Send message for delivery, user name and password are passed through System parameters . The message will be delivered only if authentication was successful.

**Returns:**

Message Id as assigned by server

**Throws:**

PMException

---

### 3.2.22 sendMessage

```
public String sendMessage(String userName,  
                           String userPasswd)  
    throws PMException
```

Send message for delivery, user name and password are explicitly set. The message will be delivered only if authentication was successful

**Parameters:**

userName - User Name ( used for authentication )

userPasswd - User Password ( used for authentication )

**Returns:**

Message Id as assigned by server

**Throws:**

PMEException

---

### 3.2.23 setCustomerAbbrev

```
public void setCustomerAbbrev( String abbrev)
```

Customer Abbreviation ( Nickname ) is assigned to every customer upon registration. This is mandatory parameter for successful message delivery

**Parameters:**

abbrev – Customer Abbreviation ( Nickname )

---

### 3.2.24 setDeliveryTypeId

```
public void setDeliveryTypeId( int delTypeId)
```

Currently supported Delivery Types are 0 ( PMDeliveryType.SMS ) or 1 ( PMDeliveryType.EMAIL )

**Parameters:**

delTypeId – Delivery Type

---

### 3.2.25 setDebugMode

```
public void setDebugMode(boolean bDebugMode)
```

If true - some debug info will be printed to stdout (default is false)

---

**Parameters:**

bDebugMode – Debug Mode flag

---

### 3.2.26 setDestPort

```
public void setDestPort( int port)
```

Sets cell phone destination port

**Parameters:**

port - Cell phone destination port

---

### 3.2.27 setMessageBody

```
public void setMessageBody( String msg)
```

**Parameters:**

msg – message body to be sent

---

### 3.2.28 setMessageSubject

```
public void setMessageSubject( String subject)
```

Message subject is used only if the message is delivered as Email; it is ignored for SMS messages.

**Parameters:**

subject – message subject to be sent

---

### 3.2.29 setPricePointValue

```
public setPricePointValue( int value)
```

sets price point in cents ( must be preconfigured in the system)

---

**Parameters:**

value – shortcode value ( in cents )

---

### 3.2.30 setSender

```
public void setSender( String sender)
```

"From" email address for email messages

**Parameters:**

sender – message sender

---

### 3.2.31 setShortcode

```
public void setShortcode( String shortcode)
```

Sets shortcode to be used for delivery of this message ( relevant only in case of dedicated shortcode)

**Parameters:**

shortcode – shortcode for message delivery

---

### 3.2.32 setTemplateName

```
public void setTemplateName( String name)
```

The name of template to be used for this message

**Parameters:**

name – Template Name

---

### 3.2.33 setTemplateParams

```
public void setTemplateParams( Hashtable params)
```

---

Attribute-value pairs to be used to convert template into message

**Parameters:**

params – Hashtable containing attribute-value pairs

---

### 3.2.34 setWapPushUrl

```
public void setWapPushUrl( String url)
```

**Parameters:**

url – URL for WAP Push

---

### 3.2.35

## 3.3 EXAMPLE OF USAGE:

Simple example of primemessage usage is shown below:

```
import com.eclerisy.primemessage.sdk.primemessage;
import com.eclerisy.primemessage.common.PMDeliveryType;
import com.eclerisy.primemessage.common.PMDeliveryStatus;

primemessage pm = new primemessage( servername);
pm.setCustomerAbbrev( nickname);
pm.setMessageBody( "Hello");
pm.addRecipient( "Bumpy", "Dumpy", 1, 416, 4321987);
pm.sendMessage( sUSER, sPASSWD);
int status = pm.getOperationStatus();
if( PMDeliveryStatus.ACCEPTED != status)
{
    String msg = pm.getOperationErrorMessage();
    ....
}
```

## 4 PROCESSING MOBILE ORIGINATED (MO) MESSAGES

---

In order to process MO messages from cell phones, you should use Feedback component. Using Feedback component, the message sent from cell phone will be pushed to a URL that you will provide in your CellTrust's account profile. You can process MO messages in your application based on the content of each message.

In order to use Feedback, gateway should be enabled for your account. To do so, please contact your account manager or a sales representative ([sales@celltrust.com](mailto:sales@celltrust.com)).

Once gateway is enabled for your account, you need to set the URL of your application to get the incoming messages. To do so, please login to MyEngage (<http://celltrust.com/members>), go to MyEngage > Account Module and scroll down to see Feedback header. For each available keyword under your account, you can set a URL. Also you can choose format of push for respective URL. Format options are HTTP or XML and based on chosen option, incoming message will be pushed to the defined URL.

Please refer to [Feedback Developer Manual](#) for more information and implementation details.

## 5 REPORTS OF MESSAGES

---

CellTrust Reporting Module provides an effective way of integration with external applications, that allows them to receive different message-related reports such as message status after being sent to the carriers from CellTrust platform. Currently only simple HTTP Request is supported as input for search criteria. For this scenario, an external application submits all the information needed by Reporting Module as a set of HTTP Request parameters. The Reporting Module application processes the request and synchronously sends the query results in xml format to client application.

Please refer to [Reporting Module Developer Manual](#) for more information and implementation details.

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