Android APIs API level: 20

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Classes

CellIdentityCdma
CellIdentityGsm
CellIdentityLte
CellIdentityWcdr
CellInfo
CellInfoCdma
CellInfoGsm
CellInfoLte
CellInfoWcdma
CellLocation
CellSignalStreng
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SmsManager
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Enums

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Use Tree Navigation

public final class

SmsManager

extends Object

Summary: Constants | Methods | Inherited Methods | [Expand All]
Added in API level 4

java.lang.Object
    android.telephony.SmsManager

Class Overview

Manages SMS operations such as sending data, text, and pdu SMS messages. Get this object by calling the static method getDefault().

For information about how to behave as the default SMS app on Android 4.4 (API level 19) and higher, see Telephony.

Summary

Constants		
int	RESULT_ERROR_GENERIC_FAILURE	Generic failure cause
int	RESULT_ERROR_NO_SERVICE	Failed because service is currently unavailable
int	RESULT_ERROR_NULL_PDU	Failed because no pdu provided
int	RESULT_ERROR_RADIO_OFF	Failed because radio was explicitly turned off
int	STATUS_ON_ICC_FREE	Free space (TS 51.011 10.5.3 / 3GPP2 C.S0023 3.4.27).
int	STATUS_ON_ICC_READ	Received and read (TS 51.011 10.5.3 / 3GPP2 C.S0023 3.4.27).
int	STATUS_ON_ICC_SENT	Stored and sent (TS 51.011 10.5.3 / 3GPP2 C.S0023 3.4.27).
int	STATUS_ON_ICC_UNREAD	Received and unread (TS 51.011 10.5.3 / 3GPP2 C.S0023 3.4.27).
int	STATUS_ON_ICC_UNSENT	Stored and unsent (TS 51.011 10.5.3 / 3GPP2 C.S0023 3.4.27).

Public Methods	
ArrayList<String>	divideMessage (String text) Divide a message text into several fragments, none bigger than the maximum SMS message size.
static SmsManager	getDefault () Get the default instance of the SmsManager
void	sendDataMessage (String destinationAddress, String scAddress, short destinationPort, byte[] data, P Send a data based SMS to a specific application port.
void	sendMultipartTextMessage (String destinationAddress, String scAddress, ArrayList<String> parts, Arr Send a multi-part text based SMS.
void	sendTextMessage (String destinationAddress, String scAddress, String text, PendingIntent sentInter Send a text based SMS.

Inherited Methods [Expand]
From class java.lang.Object

Constants

public static final int RESULT_ERROR_GENERIC_FAILURE

Added in API level 4

Generic failure cause

Constant Value: 1 (0x00000001)

public static final int RESULT_ERROR_NO_SERVICE

Added in API level 4

Failed because service is currently unavailable

Constant Value: 4 (0x00000004)

public static final int RESULT_ERROR_NULL_PDU

Added in API level 4

Failed because no pdu provided

Constant Value: 3 (0x00000003)

public static final int RESULT_ERROR_RADIO_OFF

Added in API level 4

Failed because radio was explicitly turned off

Constant Value: 2 (0x00000002)

public static final int STATUS_ON_ICC_FREE

Added in API level 4

Free space (TS 51.011 10.5.3 / 3GPP2 C.S0023 3.4.27).

Constant Value: 0 (0x00000000)

public static final int STATUS_ON_ICC_READ

Added in API level 4

Received and read (TS 51.011 10.5.3 / 3GPP2 C.S0023 3.4.27).

Constant Value: 1 (0x00000001)

public static final int STATUS_ON_ICC_SENT

Added in API level 4

Stored and sent (TS 51.011 10.5.3 / 3GPP2 C.S0023 3.4.27).

Constant Value: 5 (0x00000005)

public static final int STATUS_ON_ICC_UNREAD

Added in API level 4

Received and unread (TS 51.011 10.5.3 / 3GPP2 C.S0023 3.4.27).

Constant Value: 3 (0x00000003)

public static final int STATUS_ON_ICC_UNSENT

Added in API level 4

Stored and unsent (TS 51.011 10.5.3 / 3GPP2 C.S0023 3.4.27).

Constant Value: 7 (0x00000007)

Public Methods

public ArrayList<String> divideMessage (String text)

Added in API level 4

Divide a message text into several fragments, none bigger than the maximum SMS message size.

Parameters

text the original message. Must not be null.

Returns

an ArrayList of strings that, in order, comprise the original message

Throws

IllegalArgumentException if text is null

public static SmsManager getDefault ()

Added in API level 4

Get the default instance of the SmsManager

Returns

the default instance of the SmsManager

public void sendDataMessage (String destinationAddress, String scAddress, short destinationPort, byte[] data, PendingIntent sentIntent, PendingIntent deliveryIntent)

Added in API level 4

Send a data based SMS to a specific application port.

> **Note:** Using this method requires that your app has the SEND_SMS permission.

Parameters

destinationAddress	the address to send the message to
scAddress	is the service center address or null to use the current default SMSC
destinationPort	the port to deliver the message to
data	the body of the message to send
sentIntent	if not NULL this PendingIntent is broadcast when the message is successfully sent, or failed. The result code will be Activity.RESULT_OK for success, or one of these errors: RESULT_ERROR_GENERIC_FAILURE RESULT_ERROR_RADIO_OFF RESULT_ERROR_NULL_PDU For RESULT_ERROR_GENERIC_FAILURE the sentIntent may include the extra "errorCode" containing a radio technology specific value, generally only useful for troubleshooting. The per-application based SMS control checks sentIntent. If sentIntent is NULL the caller will be checked against all unknown applications, which cause smaller number of SMS to be sent in checking period.
deliveryIntent	if not NULL this PendingIntent is broadcast when the message is delivered to the recipient. The raw pdu of the status report is in the extended data ("pdu").

Throws

IllegalArgumentException if destinationAddress or data are empty

public void sendMultipartTextMessage (String destinationAddress, String scAddress, ArrayList<String> parts, ArrayList<PendingIntent> sentIntents, ArrayList<PendingIntent> deliveryIntents)

Added in API level 4

Send a multi-part text based SMS. The callee should have already divided the message into correctly sized parts by calling divideMessage.

> **Note:** Using this method requires that your app has the SEND_SMS permission.

> **Note:** Beginning with Android 4.4 (API level 19), if *and only if* an app is not selected as the default SMS app, the system automatically writes messages sent using this method to the SMS Provider (the default SMS app is always responsible for writing its sent messages to the SMS Provider). For information about how to behave as the default SMS app, see Telephony.

Parameters

destinationAddress	the address to send the message to
scAddress	is the service center address or null to use the current default SMSC
parts	an ArrayList of strings that, in order, comprise the original message
sentIntents	if not null, an ArrayList of PendingIntents (one for each message part) that is broadcast when the corresponding message part has been sent. The result code will be Activity.RESULT_OK for success, or one of these errors: RESULT_ERROR_GENERIC_FAILURE RESULT_ERROR_RADIO_OFF RESULT_ERROR_NULL_PDU For RESULT_ERROR_GENERIC_FAILURE each sentIntent may include the extra "errorCode" containing a radio technology specific value, generally only useful for troubleshooting. The per-application based SMS control checks sentIntent. If sentIntent is NULL the caller will be checked against all unknown applications, which cause smaller number of SMS to be sent in checking period.
deliveryIntents	if not null, an ArrayList of PendingIntents (one for each message part) that is broadcast when the corresponding message part has been delivered to the recipient. The raw pdu of the status report is in the extended data ("pdu").

Throws

IllegalArgumentException	if destinationAddress or data are empty

public void sendTextMessage (String destinationAddress, String scAddress, String text, PendingIntent sentIntent, PendingIntent deliveryIntent)

Added in API level 4

Send a text based SMS.

> **Note:** Using this method requires that your app has the SEND_SMS permission.

> **Note:** Beginning with Android 4.4 (API level 19), if *and only if* an app is not selected as the default SMS app, the system automatically writes messages sent using this method to the SMS Provider (the default SMS app is always responsible for writing its sent messages to the SMS Provider). For information about how to behave as the default SMS app, see Telephony.

Parameters

destinationAddress	the address to send the message to
scAddress	is the service center address or null to use the current default SMSC
text	the body of the message to send
sentIntent	if not NULL this PendingIntent is broadcast when the message is successfully sent, or failed. The result code will be Activity.RESULT_OK for success, or one of these errors: RESULT_ERROR_GENERIC_FAILURE RESULT_ERROR_RADIO_OFF RESULT_ERROR_NULL_PDU For RESULT_ERROR_GENERIC_FAILURE the sentIntent may include the extra "errorCode" containing a radio technology specific value, generally only useful for troubleshooting. The per-application based SMS control checks sentIntent. If sentIntent is NULL the caller will be checked against all unknown applications, which cause smaller number of SMS to be sent in checking period.
deliveryIntent	if not NULL this PendingIntent is broadcast when the message is delivered to the recipient. The raw pdu of the status report is in the extended data ("pdu").

Throws

IllegalArgumentException	if destinationAddress or text are empty