



Winwap Technologies Oy

SMS Client SDK

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REVISION HISTORY

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TO UNDERSTAND THE CONTENTS OF THIS DOCUMENT

The reader should be familiar with at least one of the following in order to fully understand the information given in this document:

Basic programming knowledge in Delphi or C/C++



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1. Scope

This document contains information about Winwap Technologies Oy SMS Client SDK and its API specification.



2. Types, Constants and Structures

2.1. Type definitions

Туре	Relates to
TGD_Error	Integer, 32 bit signed value
TGD_ConnectionHandle	Integer, 32 bit signed value
TGD_LogLevel	Integer, 32 bit signed value
TGD_MessageStore	Integer, 32 bit signed value
TGD_MessageType	Integer, 32 bit signed value

2.2. Error constants

The following error constants have been defined

Constant	Description
TGD_Err_None	The error is used to indicate SUCCESS
TGD_Err_NotConnected	A connection to device has not been established using the Connect() function call.
TGD_Err_AlreadyConnected	A connection to the device is already active.
TGD_Err_InvalidParameters	The parameters for the function are invalid.
TGD_Err_ConnectFailed	A connection to the device failed.
TGD_Err_DisconnectFailed	Disconnection from the device failed.
TGD_Err_NotEnoughMemory	The function could not allocate enough memory.
TGD_Err_COMPortInvalid	The COM port specified is not acceptable.
TGD_Err_WrongPIN	The PIN code is invalid.
TGD_Err_NoSuchSMSIndex	A SMS message with the indicated index does not exist.
TGD_Err_InvalidHandle	The Connection handle is invalid.
TGD_Err_NotInitialized	The library is not initialized.
TGD_Err_CommandNotSupported	The AT command sent is not supported by the device-
TGD_Err_OtherCommandProcessing	Another Command is already being processed.
TGD_Err_TrialExpired	The trial period has expired.
TGD_Err_Unknown	An unknown error has occurred.



2.3. Log level constants

Constant	Description
TGD_LogLevel_None	No logging
TGD_LogLevel_Error	Only errors are logged
TGD_LogLevel_Warning	Errors and Warnings are logged
TGD_LogLevel_Debug	Everything is logged. Use for Debug purposes only

2.4. Message type constants

Constant	Description
TGD_MsgType_Text	The message is a TEXT message
TGD_MsgType_Binary	The message is a BINARY message

2.5. Structures

2.5.1 RGD APIVersionInfo

The version information structure contains the version information about the library.

```
RGD_APIVersionInfo = Record
    MajVersion : Word;
    MinVersion : Word;
    Revision : Word;
    Build : Word;
    Date : Cardinal;
    TrialVersion : Word;
    ExpireDate : Cardinal;
    ReleaseInfo : PChar;
    Copyright : PChar;
```

Field	Туре	Description	
MajVersion	Word	Major version	
MinVersion	Word	Minor version	
Revision	Word	Revision / Release	
Build	Word	Build number	
Date	Cardinal	\$YYYYMMDD formatted 32 bit integer	
TrialVersion	Word	0=No,1=Yes	
ExpireDate	Cardinal	\$YYYYMMDD formatted 32 bit integer	
ReleaseInfo	PChar	Pointer to the Release Information text	
Copyright	PChar	Pointer to the Copyright text	



2.5.2. RGD DeviceInfo

The Device information structure contains information about the device and the SIM card.

Field	Туре	Description	
Manufacturer	PChar	The Manufacturer of the device	
Model	PChar	The Model of the device	
Revision	PChar	The Revision of the Model	
IMEI	PChar	The IMEI code for the device	
IMSI	PChar	The IMSI code for the SIM card	

2.5.3. RGD_ConnectionInfo

A structure that describes the connection information.

End;

Field	Туре	Description	
COMPort	Word	The COM port used	
BPS	Cardinal	Bits Per Second. Normal values are 9600 or 19200	
Bits	Byte	Number of Data bits. Usually 8.	
Flow	Byte	Flow Control. Set this to 0.	
StopBits	Byte	Number of Stop Bits.	
Authenticated	Boolean	True=The PIN code has been entered.	
OpenedTime	Cardinal	Time when the Connection was Opened (Connected).	
TotalDataIn	Cardinal	Bytecount of data received trough the COM port	
TotalDataOut	Cardinal	Bytecount of data send trough the COM port	
DeviceInfo	Pointer	Pointer to the RGD DeviceInfo structure	



2.5.4. RGD_ConnectionsList

2.5.5. RGD_Message

A structure that describes a SMS message.

```
RGD_Message = Record

    MsgIdx : Integer;
    RecvDate : Cardinal;
    RecvTime : Cardinal;
    MSISDM : PChar;
    MsgType : TGD_MessageType;
    SMSText : PChar;
    BINData : Pointer;
    BINDataSize : Integer;
```

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Field	Туре	Description	
Msgldx	Integer	Message Index	
RecvDate	Cardinal	Date when message was received. YYYYMMDD format	
RecvTime	Cardinal	Time when message was recveived. HHMMSS format	
MSISDN	PChar	The senders number	
MsgType	Integer	The type of the message. See TGD_MessageType for details.	
SMSText	PChar	The contents of the SMS message as text. This is NIL if the message is of Binary type.	
BINData	Pointer	Pointer to the contents of the SMS message if it is of Binary data type.	
BINDataSize	Integer	The size of the Binary data.	



2.5.6 RGD_MessageStore

A structure that describes a SMS message. Values available for *Read*, *Send*, *Receive* fields describes in <u>GetMessageStore2</u> notes

RGD_Message = Record

Size : Cardinal;
Read : PChar;
Send : PChar;
Receive : PChar;

End;

Field	Туре	Description
Size	Cardinal	Size of RGD_MessageStore in bytes
Read	PChar	Specifies the storage, which read message from. It always haven't Nil value.
Send	PChar	Specifies the storage to send messages from. Or can have Nil value.
Receive	PChar	Parameter tells the device where to store newly received messages. Can have Nil value if <i>Send</i> parameter have a Nil value too.



3. API Functions

This chapter explains all the API functions. The functions are grouped according to a category.

Category	Description
General functions	These functions do not require a active connection handle
Log function	These functions are related to the Logging of data
Authentication functions	These functions manage authentication of the user for the device
Device Info functions	These functions provide information about the device and SIM card
SMS functions	These functions manage SMS messages and SMS-C related things
Other functions	Functions that are not categorized in any of the other categories

3.1. General functions

The general functions are used for initialization and finalization of the library, as well as version information queries.

3.1.1. Init

Description The Init call is used to initialize the SDK library. This must be the 1st function

to call for the library

Syntax function Init(): <u>TGD_Error</u>;

Parameters None

Result The function returns <u>TGD_Err_None</u> if the library was initialized successfully.

See also Fini



3.1.2. Fini

Description The Fini call is used to finalize the GPRS SDK library. This must be the last

function to call for the library

Syntax function Flni(): <u>TGD_Error</u>;

Parameters None

Result The function returns **TGD_Err_None** if the library was finalized successfully.

See also <u>Init</u>

Notes It is safe to call this function with existing connected connections. The function

automatically handles all cleanup tasks needed to close and free any existing

connections.

3.1.3. GetVersion

Description The GetVersion call is used to retrieve the **RGD APIVersionInfo** structure for

the Library.

Syntax function (Out APIVersionInfo: <u>PGD_APIVersionInfo</u>) <u>TGD_Error</u>;

Parameters Out APIVersionInfo – A pointer to the version information structure

Results The function returns **TGD_Err_None** if the pointer contains a valid value.

See also RGD_APIVersionInfo



3.2. Connection functions

3.2.1. CreateConnection

Description This function creates a virtual connection towards a device. The connection

handle returned is used in all the subsequent functions that need a connection.

Syntax function CreateConnection(COMPort: Word; BaudRate: Integer; Bits, Flow,

StopBits: Byte; Out Handle: TGD_ConnectionHandle): TGD_Error;

Parameters COMPort – Numeric representation of the COM port. COM1=1, COM2=2, etc-

BaudRate – The wanted BaudRate. 19200 is recommended Bits – The number of bits in the data. 8 is recommended Flow – The Flow Control flag. 0=Hardware (recommended)

StopBits – Number of stop bits. 1 is recommended

Out Handle - The variable that will receive the Connection handle

Results TGD_Err_None - The connection was created successfully

TGD Err TrialExpired – The trial period has expired.

TGD Err NotInitialized - The Init() functions has not been called

See also FreeConnection, FreeConnections

3.2.2. FreeConnection

Description This function frees a created connection. It also closes the connection if it is

open.

Syntax function FreeConnection(Handle: <u>TGD_ConnectionHandle</u>): <u>TGD_Error</u>;

Parameters Handle – The Handle of the connection to be freed

Results TGD Err None - The connection was freed successfully

TGD_Err_InvalidHandle – The handle is not a valid connection handle

TGD Err NotInitialized - The Init() functions has not been called

See also CreateConnection, FreeConnections



3.2.3. CloseConnections

Description This function Disconnects all Connected connections.

Note: It does not free the connections.

Syntax function CloseConnections(): <u>TGD_Error</u>;

Parameters None

Results TGD_Err_None - All connected connections have been disconnected

TGD_Err_NotInitialized - The Init() functions has not been called

See also <u>Connect</u>, <u>Disconnect</u>

3.2.4. FreeConnections

Description This function disconnects and frees all connections. It can optionally free only

those connections that are NOT connected.

Syntax function FreeConnections(OnlyDisconnected: Boolean): **TGD Error**;

Parameters OnlyDisconnected – If true, only disconnected connections are freed.

Results TGD_Err_None - All connections where freed

TGD_Err_NotInitialized - The Init() functions has not been called

See also <u>FreeConnection</u>, <u>Disconnect</u>



3.2.5. GetConnections

Description This function returns a list of all the connections that have been created.

Syntax function GetConnections(Out ConnectionsList: **PGD ConnectionsList**):

TGD_Error;

Parameters Out ConnectionsList – A pointer to the first returned Connection Object

Results TGD_Err_None - No errors

TGD_Err_NotInitialized - The Init() functions has not been called

See also <u>Connect</u>, <u>Disconnect</u>

3.2.6. Connect

Description This function attempts to establish a connection to the device. If the connection

is established the function automatically gathers the Device Information from

the device.

Syntax function Connect(Handle: <u>TGD ConnectionHandle</u>): <u>TGD Error</u>;

Parameters Handle – The handle of the connection

Results TGD_Err_None - The connection connected to the device

TGD_Err_NotInitialized - The Init() functions has not been called

<u>TGD_Err_InvalidHandle</u> – The connection handle is invalid <u>TGD_Err_ConnectFailed</u> – The connection attempt failed

See also Disconnect, FreeConnection

Note If the COM port exists, but there is no device present (DSR signal) the function

returns an error.



3.2.7. Disconnect

Description This function disconnects a connected connection from the device.

Syntax function Disconnect(Handle: <u>TGD_ConnectionHandle</u>): <u>TGD_Error</u>;

Parameters Handle – The handle of the connection

Results TGD_Err_None - The connection was disconnected from the device

TGD_Err_NotInitialized - The Init() functions has not been called

TGD_Err_InvalidHandle - The connection handle is invalid

TGD_Err_NotConnected – The connection is not connected to the device

TGD Err DisconnectFailed – Failed to disconnect from device

See also Connect

3.2.8. IsConnected

Description This function checks if the Connection is connected to the device.

Syntax function IsConnected(Handle: TGD ConnectionHandle): TGD Error;

Parameters Handle – The handle of the connection

Results TGD_Err_None - The connection is connected to the device

TGD_Err_NotInitialized - The Init() functions has not been called

TGD_Err_InvalidHandle - The connection handle is invalid

TGD Err NotConnected - The connection is not connected to the device

See also <u>Connect</u>, <u>Disconnect</u>



3.3. Log functions

3.3.1. LogOpen

Description This function opens a logfile for the connection.

Syntax function LogOpen(Handle: <u>TGD_ConnectionHandle</u>; FileName:PChar):

TGD Error;

Parameters Handle – The handle of the connection

Filename – The filename of the logfile (including path)

Results TGD Err None - The log was opened for the connection

TGD_Err_NotInitialized - The Init() functions has not been called

TGD_Err_InvalidHandle - The connection handle is invalid

See also <u>LogClose</u>

3.3.2. LogClose

Description This function closes an open logfile for a connection.

Syntax function LogClose(Handle: <u>TGD ConnectionHandle</u>): <u>TGD Error</u>;

Parameters Handle – The handle of the connection

Results TGD_Err_None - The log was closed for the connection

TGD_Err_NotInitialized - The Init() functions has not been called

TGD_Err_InvalidHandle - The connection handle is invalid

See also <u>LogOpen</u>



3.3.3. LogGetLevel

Description This function gets the logging level for an open logfile.

Syntax function LogGetLevel(Handle: <u>TGD_ConnectionHandle</u>; Out LogLevel:

TGD_LogLevel): TGD_Error;

Parameters Handle – The handle of the connection

LogLevel – The current loglevel

TGD_Err_None - No error

TGD_Err_NotInitialized - The Init() functions has not been called

TGD_Err_InvalidHandle - The connection handle is invalid

See also <u>LogSetLevel</u>

3.3.4. LogSetLevel

Description This function sets the logging level for an open logfile.

Syntax function LogSetLevel(Handle: <u>TGD ConnectionHandle</u>; LogLevel:

TGD LogLevel): TGD Error;

Parameters Handle – The handle of the connection

LogLevel - The wanted logging level

Results TGD_Err_None - The log-level was set successfully

TGD_Err_NotInitialized - The Init() functions has not been called

TGD_Err_InvalidHandle - The connection handle is invalid

See also LogGetLevel



3.4. Authentication functions

3.4.1. **SendPIN**

Description This function is used to authenticate the application towards the Device.

Note: The authentication is needed only once per device power-up.

Syntax function SendPIN(Handle: **TGD_ConnectionHandle**; PIN: PChar):

TGD Error:

Parameters Handle – The handle of the connection

PIN - The PIN number

Results TGD Err None - Authentication successful

TGD_Err_NotInitialized - The Init() functions has not been called

<u>TGD_Err_InvalidHandle</u> – The connection handle is invalid <u>TGD_Err_NotConnected</u> – The connection is not connected

TGD Err WrongPIN - Invalid / Wrong PIN

See also ChangePIN

3.4.2. ChangePIN

Description This function allows the user to change the PIN1 for the device.

Syntax function ChangePIN(Handle: <u>TGD_ConnectionHandle</u>; OldPIN, NewPIN:

PChar): TGD_Error;

Parameters Handle – The handle of the connection

OldPIN – The old PIN number NewPIN – The new PIN number

Results <u>TGD_Err_None</u> - No error

TGD Err NotInitialized - The Init() functions has not been called

<u>TGD Err InvalidHandle</u> – The connection handle is invalid <u>TGD Err NotConnected</u> – The connection is not connected

TGD Err WrongPIN - Invalid / Wrong PIN

See also SendPIN



3.4.3. SendPIN2

Description This function sends the PIN2 to the device.

Syntax function SendPIN2(Handle: <u>TGD_ConnectionHandle</u>; PIN2: PChar):

TGD_Error;

Parameters Handle – The handle of the connection

PIN2 - The PIN2 number

Results TGD_Err_None - Authentication successful

TGD_Err_NotInitialized - The Init() functions has not been called

<u>TGD Err InvalidHandle</u> – The connection handle is invalid <u>TGD Err NotConnected</u> – The connection is not connected

TGD_Err_WrongPIN - Invalid / Wrong PIN2

See also ChangePIN2

3.4.4. ChangePIN2

Description This function changes the PIN2 on the device.

Syntax function ChangePIN2(Handle: **TGD_ConnectionHandle**; OldPIN2, NewPIN2:

PChar): TGD_Error;

Parameters Handle – The handle of the connection

OldPIN2 – The old PIN2 number NewPIN2 – The new PIN2 number

Results TGD_Err_None - No error

TGD_Err_NotInitialized - The Init() functions has not been called

<u>TGD Err InvalidHandle</u> – The connection handle is invalid <u>TGD Err NotConnected</u> – The connection is not connected

TGD_Err_WrongPIN – Invalid / Wrong PIN2

See also SendPIN2



3.5. Device information functions

The Device information functions retrieve information about the device as well as the SIM card.

3.5.1. GetDeviceInfo

Description This function retrieves the device information into a structure. This command is

issued automatically when a connection is connected to a device.

Syntax function GetDeviceInfo(Handle: <u>TGD_ConnectionHandle</u>; Out DeviceInfo:

PGD DeviceInfo): TGD Error;

Parameters Handle – The handle of the connection

DeviceInfo – A pointer to a Device Information structure

TGD_Err_None - No error

TGD Err NotInitialized - The Init() functions has not been called

<u>TGD Err InvalidHandle</u> – The connection handle is invalid <u>TGD Err NotConnected</u> – The connection is not connected

See also <u>Connect</u>



3.5.2. GetSignalQuality

Description This function retrieves the current signal quality that the device reports.

By calling this function consecutively a historical log of signal quality can be

stored.

Syntax function GetSignalQuality(Handle: TGD_ConnectionHandle; Out

SignalQuality: Integer): TGD_Error;

Parameters Handle – The handle of the connection

SignalQuality - The current signal quality.

Results <u>TGD Err None</u> - No error

TGD Err NotInitialized - The Init() functions has not been called

<u>TGD Err InvalidHandle</u> – The connection handle is invalid <u>TGD Err NotConnected</u> – The connection is not connected

See also

Notes The SignalQuality values returned have the following meaning:

0 -113 dBm or less

1 -111 dBm

2...30 -109... -53 dBm

31 -51 dBm or greater

99 not known or not detectable



3.5.3. GetBatteryLevel

Description This function retrieves the current battery charge level for the device.

Note: This function may not be implemented on all Devices.

Syntax function GetBatteryLevel(Handle: **TGD_ConnectionHandle**; Out

BatteryLevel: Integer): TGD_Error;

Parameters Handle – The handle of the connection

BatteryLevel – The current battery level

Results TGD_Err_None - No error

TGD Err NotInitialized - The Init() functions has not been called

<u>TGD Err InvalidHandle</u> – The connection handle is invalid <u>TGD_Err_NotConnected</u> – The connection is not connected

See also

Notes The returned values have the following meaning:

0 Feature not implemented, or no battery info available

3.5.4. GetDevicelmei

Description This function retrieves the IMEI code for the device. The IMEI code is the

product serial number identification and is always unique to the device.

IMEI stands for International Mobile Equipment Identification.

Syntax function GetDeviceIMEI(Handle: **TGD_ConnectionHandle**; Out IMEI: PChar):

TGD_Error;

Parameters Handle – The handle of the connection

IMEI - A pointer to the IMEI string

Results TGD_Err_None - No error

TGD_Err_NotInitialized - The Init() functions has not been called

<u>TGD Err InvalidHandle</u> – The connection handle is invalid <u>TGD Err_NotConnected</u> – The connection is not connected

See also



3.5.5. GetDeviceIMSI

Description This function retrieves the IMSI code for the SIM card in the device. The IMSI

code is always unique for the SIM card, and contains information about the

operator as well as the serial number for the SIM card.

IMSI stands for International Mobile Subscriber Identity.

Syntax function GetDeviceIMSI(Handle: **TGD_ConnectionHandle**; Out IMSI: PChar):

TGD_Error;

Parameters Handle – The handle of the connection

IMSI - A pointer to the IMSI string

TGD Err None - No error

TGD Err NotInitialized - The Init() functions has not been called

TGD_Err_InvalidHandle – The connection handle is invalid

TGD_Err_NotConnected - The connection is not connected

See also

Notes The IMSI is composed of two major parts, the 1st part is the MCC (Mobile

Country Code) + MNC (Mobile Network Code) codes, and the 2nd part is the

IMSI itself.

Example IMSI: 24405xxxxxxxxxx

In the example above the 244 is the MCC country code (Finland) and the 05

(Elisa) is the MNC code for the operator within the country.

For a full list of MCC and MVC codes please visit

http://www.numberingplans.com.

The most common numbering plan that is used for the IMSI codes is ITU-T

Recommendation E.212.



3.6. SMS Functions

3.6.1. GetServiceCentre

Description This function retrieves the stored SMS-C number in the device.

Syntax function GetServiceCentre(Handle: <u>TGD_ConnectionHandle</u>; Out

CentreNumber: PChar): TGD Error;

Parameters Handle – The handle of the connection

CentreNumber – A pointer to the SMS-C Number string

Results <u>TGD_Err_None</u> - No error

TGD_Err_NotInitialized - The Init() functions has not been called

<u>TGD Err InvalidHandle</u> – The connection handle is invalid <u>TGD Err NotConnected</u> – The connection is not connected

See also <u>SetServiceCentre</u>

NotesTo successfully send and receive SMS messages the SMS-C number must be

set.

3.6.2. SetServiceCentre

Description This function sets the SMS-C number for the device.

Syntax function SetServiceCentre(Handle: TGD_ConnectionHandle; CentreNumber:

PChar): TGD_Error;

Parameters Handle – The handle of the connection

CentreNumber – A pointer to the SMS-C Number string

TGD_Err_None - No error

TGD Err NotInitialized - The Init() functions has not been called

<u>TGD Err InvalidHandle</u> – The connection handle is invalid <u>TGD Err NotConnected</u> – The connection is not connected

See also <u>GetServiceCentre</u>



3.6.3. GetMessageStore

Description This function returns the Message Store currently active in for the Device.

Syntax function GetMessageStore(Handle: TGD_ConnectionHandle; Out MSGStore:

PChar): TGD_Error;

Parameters Handle – The handle of the connection

MSGStore - A pointer to the MSGStore name string

Results <u>TGD_Err_None</u> - No error

TGD_Err_NotInitialized - The Init() functions has not been called

<u>TGD Err InvalidHandle</u> – The connection handle is invalid <u>TGD Err NotConnected</u> – The connection is not connected

See also <u>SetMessageStore2</u>, <u>GetMessageStore2</u>, <u>SetMessageStore2</u>

Notes The returned values for the function is one of the following:

SM SIM Card message store

ME Device message store (default)



3.6.4. GetMessageStore2

Description This function returns the list, which consist available Message Stores for the

concrete SMS operation.

Syntax function GetMessageStore(Handle: TGD_ConnectionHandle;

StoreOperationType: Cardinal; Out MSGStore: PChar): TGD_Error;

Parameters Handle – The handle of the connection

StoreOperationType - Operation ID (0 - read messages from, 1 - send

messages from, 2 - where store newly received messages)

MSGStore - A pointer to the MSGStore name string

Results <u>TGD_Err_None</u> - No error

TGD Err NotInitialized - The Init() functions has not been called

<u>TGD Err InvalidHandle</u> – The connection handle is invalid <u>TGD Err NotConnected</u> – The connection is not connected

TGD_Err_InvalidParameters - Wrong StoreOperationType value

See also SetMessageStore, GetMessageStore, SetMessageStore2

Notes The returned value MSGStore is string of types of stores, separated by

commas (for example: "SM,ME,MT"):

SM Read SMS messages from the SIM card. This storage is

supported on every GSM phone, because a SIM card should

always be present.

ME Read SMS messages from the modem or mobile phone memory.

The number of messages that can be stored here depends on the

size of the phones memory.

MT Read SMS messages from all storages on the mobile phone. For

instance when the phone supports "ME" and "SM", the "MT" memory combines the "ME" and "SM" memories as if it was a

single storage.

BM This storage is only used to read stored incoming cell broadcast

messages. It is normally not used to store SMS messages.

SR When you enable status reports when sending SMS messages,

the status reports that are received are stored in this memory. These reports can read the same way as SMS messages.



3.6.5. SetMessageStore

Description

Syntax function SetMessageStore(Handle: <u>TGD_ConnectionHandle</u>; MSGStore:

PChar): TGD_Error;

Parameters Handle – The handle of the connection

MSGStore - A pointer to the MSGStore name string

Results <u>TGD_Err_None</u> - No error

TGD_Err_NotInitialized - The Init() functions has not been called

<u>TGD Err InvalidHandle</u> – The connection handle is invalid <u>TGD Err NotConnected</u> – The connection is not connected

See also <u>SetMessageStore2</u>, <u>GetMessageStore</u>, <u>GetMessageStore2</u>

Notes The values that can be passed for the function is one of the following:

SM SIM Card message store

ME Device message store (default)

3.6.6. SetMessageStore2

Description

Syntax function SetMessageStore(Handle: <u>TGD_ConnectionHandle</u>; MessageStore

: PGD_MessageStore): **TGD_Error**;

Parameters Handle – The handle of the connection

MessageStore – A pointer to the RGD_MessageStore structure

Results <u>TGD_Err_None</u> - No error

TGD_Err_NotInitialized – The Init() functions has not been called

TGD Err InvalidHandle – The connection handle is invalid
TGD Err NotConnected – The connection is not connected
TGD Err InvalidParameters – MessageStore isn't type of

RGD_MessageStore

See also SetMessageStore, GetMessageStore, GetMessageStore2

Notes See **GetMessageStore2** notes for the values that can be passed intro the next

fields: RGD_MessageStore.Read, RGD_MessageStore.Send,

RGD_MessageStore.Receive.



3.6.7. SendSMS

Description This function sends a Text SMS message to another MSISDN number.

Syntax function SendSMS(Handle: <u>TGD_ConnectionHandle</u>; MSISDN, TextMsg:

PChar; Flash: Boolean): TGD_Error;

Parameters Handle – The handle of the connection

MSISDN – A pointer to the MSDISDN (number) that will receive the SMS TextMsg – A pointer to the string to send as a SMS. Max 160 characters Flash –TRUE if the SMS is displayed as a FLASH on the destination device.

Results <u>TGD Err None</u> - No error

TGD Err NotInitialized - The Init() functions has not been called

<u>TGD_Err_InvalidHandle</u> – The connection handle is invalid <u>TGD_Err_NotConnected</u> – The connection is not connected

TGD_Err_InvalidParameters - One of the parameters are invalid

See also

3.6.8. GetNewMessages

Description This function checks the device for any unread received SMS messages, and

retrieves them into the connection InBox.

Syntax function GetNewMessages(Handle: <u>TGD_ConnectionHandle</u>; Out Count:

Cardinal): TGD_Error;

Parameters Handle – The handle of the connection

Count – The number of messages retrieved and stored in the InBox

Results <u>TGD Err None</u> - No error

TGD_Err_NotInitialized - The Init() functions has not been called

<u>TGD Err InvalidHandle</u> – The connection handle is invalid <u>TGD Err NotConnected</u> – The connection is not connected

See also <u>ClearInBox</u>, <u>GetInBoxCount</u>

Note This function deletes the processed messages from the device.



3.6.9. ClearInBox

Description This function clears the connections InBox.

Syntax function ClearInBox(Handle: <u>TGD_ConnectionHandle</u>): <u>TGD_Error</u>;

Parameters Handle – The handle of the connection

TGD_Err_None - No error

TGD_Err_NotInitialized - The Init() functions has not been called

TGD_Err_InvalidHandle - The connection handle is invalid

See also <u>GetInBoxCount</u>

3.6.10. GetInBoxCount

Description This function retrieves the number of messages in the Connection InBox. If no

new messages are available the function returns 0 in Count.

Syntax function GetInBoxCount(Handle: <u>TGD ConnectionHandle</u>; Out Count:

Cardinal): TGD Error;

Parameters Handle – The handle of the connection

Out Count - The number of messages in the InBox

Results TGD_Err_None - No error

TGD_Err_NotInitialized - The Init() functions has not been called

TGD_Err_InvalidHandle - The connection handle is invalid

See also ClearInBox



3.6.11. GetMessage

Description This function retrieves a message from the Connection InBox, based on the

position of the message in the list.

Syntax function GetMessage(Handle: <u>TGD_ConnectionHandle</u>; Position: Integer;

Out MsgRec: PGD_Message): TGD_Error;

Parameters Handle – The handle of the connection

Position – The position of the messages to retrieve. 1st position is 0. Out MsgRec – Will contain a pointer to the Message Structure.

Results <u>TGD Err None</u> - No error

TGD Err NotInitialized - The Init() functions has not been called

TGD_Err_InvalidHandle - The connection handle is invalid

See also DeleteMessage, DeleteMessageByldx

3.6.12. DeleteMessage

Description This function deletes a message from the Connection InBox based on the

position of the message in the list.

Syntax function DeleteMessage(Handle: <u>TGD_ConnectionHandle</u>; Position:

Integer): TGD_Error;

Parameters Handle – The handle of the connection

Position – The position of the messages to delete. 1st position is 0.

Results TGD_Err_None - No error

TGD_Err_NotInitialized - The Init() functions has not been called

TGD Err InvalidHandle – The connection handle is invalid

See also DeleteMessageByldx



3.6.13. DeleteMessageByldx

Description This function deletes a message from the Connection InBox based on the

Index Number of the message. The index number is auto-generated by the

SDK as new messages are placed in the InBox.

Syntax function DeleteMessageByldx(Handle: **TGD_ConnectionHandle**; ldx:

Integer): TGD_Error;

Parameters Handle – The handle of the connection

Idx – The Index of the messages to delete.

TGD Err None - No error

TGD Err NotInitialized - The Init() functions has not been called

TGD_Err_InvalidHandle - The connection handle is invalid

See also <u>DeleteMessage</u>



3.7. Other functions

The other functions are used for generic Device access and uncategorized functions.

3.7.1. **SendCmd**

Description The SendCmd call is used to send any arbitrary AT command to the device.

By using this function the developer may implement any type of functionality

for a specific device.

Syntax function SendCMD(Handle:TGD ConnectionHandle: CMD:PChar: Out

Response: PChar): TGD_Error;

Parameters Handle – The handle to the connection

CMD – A PChar that points to the command to send

OUT Response – A PChar that receives the pointer to the reply for the

command

Results The function returns **TGD_Err_None** if the command was sent successfully.

See also

3.7.2. GetComPortHandle

Description The GetComPortHandle call is used to get COM port handle for current

connection.

Syntax function GetComPortHandle(Handle:TGD ConnectionHandle; Out

ComHandle: Cardinal): TGD_Error;

Parameters Handle – The handle to the connection

ComHandle - A COM port handle.

Results The function returns **TGD Err None** if value was got successfully.

See also



4. Using the SMS Client SDK

In order to successfully use the SDK the application developers need to perform the following tasks to initialize the SDK.

- 1. Load the library
- 2. Call **Init()** to initialize the library
- 3. Create a connection using the **CreateConnection()** function
- 4. Connect the connection to the device using the **Connect()** function

Once the connection is established the developer can access any of the functions that are wanted.

When an application whishes to close/free the DLL the following tasks should be done:

- a) Make sure no ongoing API call is in progress
- b) Call the Disconnect() function
- c) Call the FreeConnection() function
- d) Call the Fini() function
- e) Unload the library

4.1. Decoding MMS Notification Indication messages

In order to decode the MMS Notification Indication (MMS-NI) messages the following tasks need to be performed:

- Initialize the SMS Client SDK using Init()
- Load and Initialize the MMS Stack SDK
- Connect to the device using Connect()
- Call GetNewMessages()
- For each message received do
 - Call GetMessage()
 - Call wsp push message init()
 - Call wsp push message decode()
 - Call wsp_push_message_release()
 - Call mms_message_decode()

At this point the MMS-NI message should be decoded and the download URL should be accessible. For instructions on how to download the actual MMS message please refer to the MMS Stack SDK documentation.