



# SMS Exchange – Web Services

Open API Version 1.4

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# Introduction

This OpenAPI is used for send SMS and any other contents in a simple method. All requests can pass via internet with a fixed IP by Web Service.

## SMS Sending API

### IP Requirement

Fixed IP and need to register.

### Protocol

Web Services/SOAL

<http://openapi.mdtechcorp.com:21080/OpenAPI/sms?wsdl>

### Function

```
public int send(String destination,  
               String username,  
               String password,  
               String SMS,  
               String origination,  
               int type,  
               String sendDate,  
               int returnMode,  
               int sentDirect,  
               String udh,  
               int dcs,  
               String expireDate,  
               String sendPeriodStart,  
               String sendPeriodEnd,  
               String userRef)
```

## Parameters

No.	Parameter	Details
1	<destination/>(String)	Destination Address of this transaction. Country Code ad area code is necessary. For example, 85298765432 (Hong Kong Mobile). For HTTP protocol, it support multi-address submit at a once by using semicolon “;”. i.e. 85298765432;85291234567.
2	<username/>(String)	Username of your account.
3	<password/>(String)	Password of your account
4	<SMS/>(String)	It is SMS content. For Unicode of each message should be equal or less than 70 characters. For ASCII of each message should be equal or less than 60 characters. If the message is longer than one message length, it will be counted as two messages. All String is standard Unicode String.
5	<origination/>(String)	It is message originating address. It is necessary for a message need for a reply.
6	<type/>(int)	It is transaction type. It set to “1” indicate that it is text message.
7	<sendDate/>(String)	(Optional, for HTTP only) You can schedule the sending time of SMS. The format is “DDMMYYYY hh:mm:ss”, i.e. 04Apr2006 15:30:33. If you not use this parameter, the SMS will send immediately.
8	<returnMode/>(int)	(Optional, default: 0) Accept value 1 or 0. “0” – Return old return code. And return “0” when transaction successfully submitted. “1” – Return New return code. Return “Transaction ID” when transaction successfully submitted. This option only can use with single destination submitting. If multi-destination submitting is used, this option will be ignored and “0” will return when the submission is successful.
9	<sentDirect/>(String)	(Optional, default: 1) Accept value 1 or 0. “0” – Send SMS via buffer and release the request fast

		(less chance or HTTP connection problem, design for sending many HTTP request at once). But the SMS will send with some delay around 30sec to 1min. "1" – Send SMS directly to operator without delay. But it will have more chance for HTTP connection timeout problem occur.
10	<udh/>(String)	(Optional, default: Empty)User Define Header. For Binary SMS message, it must be in binary HEX format. e.g. 05040B8423F0 for WAP push message.
11	<dcs/>(int)	(Optional, default: 0)DCS values for SMS encoding. It is decimal format. e.g. 245 for WAP push message.
12	<expireDate/>(String)	(Optional, for HTTP only. Default: never) You can set expire date of SMS. If SMS cannot send before this date, the SMS will be canceled and will not be sent. The format is "DDMMYYYY hh:mm:ss", i.e. 04Apr2006 15:30:33. If you not use this parameter, the SMS will not expire.
13	<sendPeriodStart/>(String)	(Optional, for HTTP only. Default: Any Time) You can set time period of sending SMS. It must use together with <sendPeriodEnd/>.If SMS cannot send between <sendPeriodStart/> and <sendPeriodEnd/>, the SMS will send on next day between <sendPeriodStart/> and <sendPeriodEnd/> again. The format is "hh:mm:ss", i.e. 15:30:33. If you not use this parameter, the SMS will send at any time base on other parameters. If only set <sendPeriodStart/> without setting <sendPeriodEnd/>, this parameter will be omitted.
14	<sendPeriodEnd/>(String)	(Optional, for HTTP only. Default: Any Time) You can set time period of sending SMS. It must use together with <sendPeriodStart />.If SMS cannot send between <sendPeriodStart/> and <sendPeriodEnd/>, the SMS will send on next day between <sendPeriodStart/> and <sendPeriodEnd/> again. The format is "hh:mm:ss", i.e. 15:30:33. If you not use this parameter, the SMS will send at any time base on other parameters. If only set <sendPeriodEnd/> without setting <sendPeriodStart/>, this parameter will be omitted.

15	<userRef/>(String)	(Optional)User Reference Number. Reference number for user local marking. It is not processed by system, but it can display on result of transaction API. Reference number can be any 20 characters long string. All String is standard Unicode String. For example, reference1. For HTTP protocol, it support multi-reference for multi-destination address submit at a once by using semicolon “;”. i.e. reference1;reference2.
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## Return Code

Code”0” indicates transaction success.

Any other negative indicate transaction failed.

No	Code	Details
1	0	Success
2	-1	Wrong Destination Address
3	-2	Account Information/username/IP/password incorrect.
4	-3	Content ID incorrect
5	-4	Destination Number not all correct
6	-8	Wrong Origination Address
7	-100	Internal Error, please contact support.

## SMS Get Transactions API

### IP Requirement

Fixed IP and need to register.

### Protocol

Web Services/SOAL

<http://openapi.d-information.com:21080/OpenAPI/sms?wsdl>

### Function

```

public String getTransaction(final String username,
    final String password,
    final String startDate,
    final String endDate,
    final int TransID,
    final String userRef)

```

## Parameters

No.	Parameter	Details
1	<username/>(String)	Username of your account.
2	<password/>(String)	Password of your account
3	<startDate/>(String)	(Optional) Transaction Start Reading Date. If not exist or incorrect date is passed. The default date will be used. Default is Today with time "00:00:00"
4	<endDate />(String)	(Optional) Transaction End Reading Date. If not exist or incorrect date is passed. The default date will be used. Default is Today with time "23:59:59"
5	<TransID />(int)	(Optional) TransactionID from Send SMS API
15	<userRef/>(String)	(Optional) User Reference Number. Reference number for user local marking. It is not processed by system, but it can display on result of transaction API. Reference number can be any 20 characters long string. All String is standard Unicode String. For example, reference1. It not supports multi-reference for multi-transaction. If there is more than one identical User Reference, the latest transaction will be returned. Only one at most one transaction record return when using this parameter.

## Return Code

All Transaction will return as XML formal

```
<cdr>
```

```
<record>
```

```
<transactionID>12345678</transactionID>
```

```
<destination>85298765432</destination>
```

```
<message>Message</message>
<SendDate>Mar 2 2010 5:01PM</SendDate>
<AddDate>Mar 2 2010 5:01PM</AddDate>
<ChargeUnit>1</ChargeUnit>
<IsCancel>0</IsCancel>
<UserRef></UserRef>
<remarks>Demo</remarks>
</record>
</cdr>
```

Transaction columns title as below:

*Transaction ID, Destination Address, Message, Report Sent Date from Operator, Add Date, Charge Unit, Is Cancelled, User Refer, Remarks*

*Note: Charge Unit – How many physical SMS will need for that transaction. It also used for billing on SMS. Is Cancelled – Please refer to Cancel Transaction API section.*

Any other negative indicate transaction failed.

No	Code	Details
1	0	Success
2	-2	Account Information/username/IP/password incorrect.
3	-100	Internal Error, please contact support.

# SMS Get Transactions Report API

## Introduction

This API use for getting Delivery Report from operators. But it is not all kind of SMS product has delivery report. It is according to your account settings only.

## IP Requirement

Fixed IP and need to register.



## Protocol

Web Services/SOAL

http://openapi.d-information.com:21080/OpenAPI/sms?wsdl

## Function

```
public String getTransactionReport(final String username,
    final String password,
    final String startDate,
    final String endDate,
    final int TransID,
    final String userRef)
```

or

```
public String getTransactionReport(final String username,
    final String password,
    final String startDate,
    final String endDate,
    final int TransID,
    final String userRef,
    final int type)
```

## Parameters

No.	Parameter	Details
1	<username/>(String)	Username of your account.
2	<password/>(String)	Password of your account
3	<startDate/>(String)	(Optional) Transaction Start Reading Date. If not exist or incorrect date is passed. The default date will be used. Default is Today with time "00:00:00"
4	<endDate />(String)	(Optional) Transaction End Reading Date. If not exist or incorrect date is passed. The default date will be used. Default is Today with time "23:59:59"
5	<TransID />(int)	(Optional) TransactionID from Send SMS API
6	<userRef/>(String)	(Optional) User Reference Number. Reference number for user local marking. It is not processed by system, but

		it can display on result of transaction API. Reference number can be any 20 characters long string. All String is standard Unicode String. For example, reference1. It not supports multi-reference for multi-transaction. If there is more than one identical User Reference, the latest transaction will be returned. Only one at most one transaction record return when using this parameter.
7	<type/>(int)	(Optional) 0=Original, No User Reference; 1= Return User Reference

## Return Code

All Transaction will return as XML formal

```
<cdr>
<record>
<transactionID>12345678</transactionID>
<origination>85298765432</origination>
<destination>85298765432</destination>
<report>Message</report>
<ArriveDate>17/11/2010 15:45:48</ArriveDate>
</record>
</cdr>
```

Transaction columns title as below:

*Transaction ID, Origination Address, Destination Address, Report, Report Date*

*Or if Type equal 1*

```
<cdr>
<record>
<transactionID>12345678</transactionID>
<origination>85298765432</origination>
<destination>85298765432</destination>
<report>Message</report>
<ArriveDate>17/11/2010 15:45:48</ArriveDate>
<userRef>User Reference</ userRef >
</record>
</cdr>
```

Transaction columns title as below:

*Transaction ID, Origination Address, Destination Address, Report, Report Date, User Reference*

Any other negative indicate transaction failed.

No	Code	Details
1	0	Success
2	-2	Account Information/username/IP/password incorrect.
3	-100	Internal Error, please contact support.

## SMS Cancel Transactions API

### IP Requirement

Fixed IP and need to register.

### Protocol

Web Services/SOAL

<http://openapi.d-information.com:21080/OpenAPI/sms?wsdl>

### Function

```
public String setTransactionCancel (final String username,
    final String password,
    final int TransID)
```

### Parameters

No.	Parameter	Details
1	<username/>(String)	Username of your account.
2	<password/>(String)	Password of your account
3	<TransID />(int)	(Optional) TransactionID from Send SMS API

### Return Code

All Transaction will return as XML formal

Return as below:

`<transactionCancel><status>Code</status></transactionCancel>` Any other negative indicate transaction failed.

Code"0" indicates transaction success.

Any other negative indicate transaction failed.

No	Code	Details
1	10	Cancel due to China SMS Network Protocol Error
2	9	Cancel due to China SMS Content Blocked Refer to Remarks for Details. Example Remarks: <b>Content Blocked by Operator. Related Word(预约)</b>
3	8	Cancel due to Invalid destination address
4	7	Cancel due to OFTA List
5	6	Cancel by System due to Number not exist
6	5	Cancel by System due to MVNO not supported
7	4	Cancel by System due to expired
8	3	Cancel Executed
9	2	Cancel Not Executed
10	1	Cancel Pending
11	0	Normal – No Cancel Request Accepted
12	-1	Transaction ID not find/incorrect
13	-2	Account Information/username/IP/password incorrect.
14	-100	Internal Error, please contact support.

## SMS Get User Balance API

### IP Requirement

Fixed IP and need to register.

### Protocol

Web Services/SOAL

<http://openapi.mdtechcorp.com.com:21080/OpenAPI/sms?wsdl>

## Function

```
public String getUserBalance (final String username,
                             final String password,
                             final int type)
```

## Parameters

No.	Parameter	Details
1	<username/>	Username of your account.
2	<password/>	Password of your account
3	<type/>	(Optional) Type=1, it returns user cash balance; Type=2, it returns user SMS balance with details. Default is user cash balance

## Return Code

Balance columns title as below:

### Type 1 – One column

```
<userBalance>
<record>
<balance>10</balance>
<expireDate>2010-06-18 14:59:27.607</expireDate>
<destination>China</destination>
<origination>Any</origination>
</record>
</userBalance>
```

### Type 2 – Four columns

```
<userBalance>
<record>
<balance>10</balance>
<expireDate>2010-06-18 14:59:27.607</expireDate>
<destination>China</destination>
<origination>Any</origination>
```

```
</record>
<record>
<balance>2.0000</balance>
<expireDate>2010-09-03 15:43:50.23</expireDate>
<destination>Hong Kong</destination>
<origination>Any</origination>
</record>
</userBalance>
```

Any other negative indicate transaction failed.

No	Code	Details
1	0	Success
2	-2	Account Information/username/IP/password incorrect.
3	-100	Internal Error, please contact support.

## Version History:

### V1.4 – Oct 2011

1. *Added Wrong Origination Address Code (-8)*

### V1.3 – Nov 2010

2. *Get Transaction Report Function with User Reference Field*

### V1.2 – Nov 2010

1. *Get Transaction Report Function Added*

## **V1.1 – March 2010**

1. *Get User Balance Function Added*
2. *Cancel Transaction Function Added*

## **V1.0 – May 2009**

1. *Send Function*
2. *Transaction Retrieve Function*