# APPLICATION PROGRAMMING INTERFACE (API)

# SMS BROADCAST SYSTEM

**Prepared by:**



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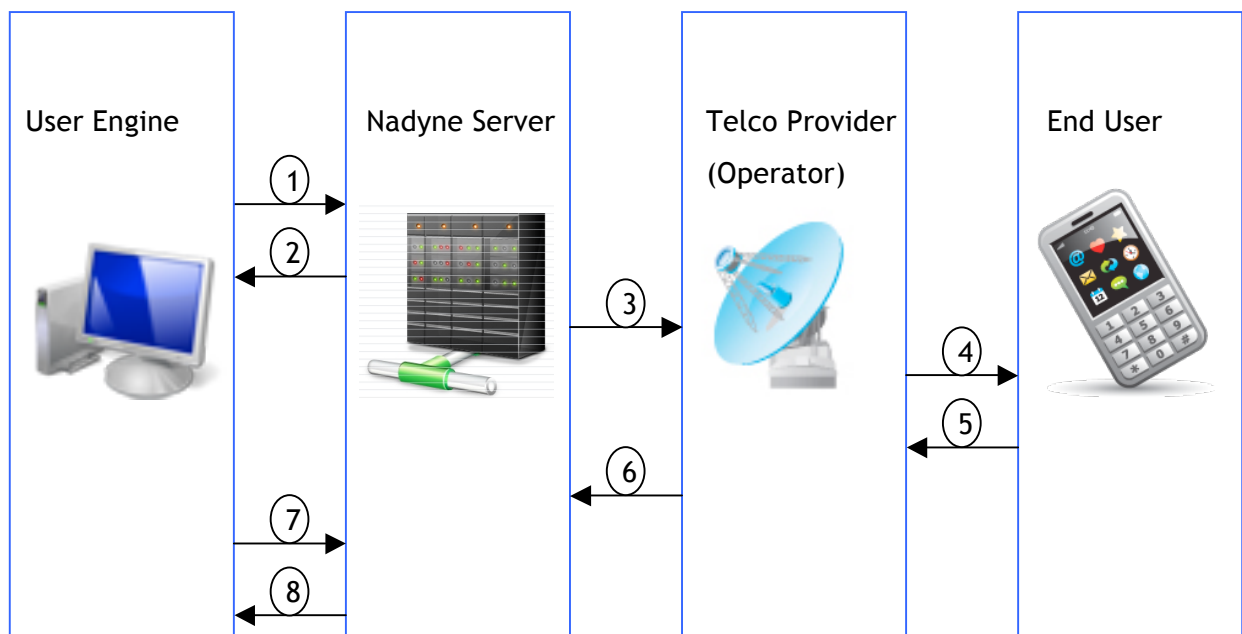P. 62 21 7883-5337  - F. 62 21 7883-5350

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# 1. Explanation

This API is divided into 3 parts, API to send text message, API to get report on daily text messages sent and API to get delivery status.

Flow engine from user :



Explanation

1. User engine hit Nadyne's server based on format given
2. Nadyne's server will give response back, in XML format, whether the text messages will be directed to telco or not
3. If text format is already correct, Nadyne's server will be directed to telco
4. Telco will send text messages to end user
5. Telco will get acknowledgement from end user handset
6. Telco will send delivery status to Nadyne's server
7. User engine request delivery status to Nadyne's server
8. Nadyne's server give delivery status in XML format

# 2. Sending text message

## 2.1. Sending SMS

This link is used when user want to send text message.

Url format:

**http://ipaddress/foldername/file.php&user=[username]&pwd=[password]&sender=[registeredsenderid]&msisdn=[mobilenumber]&message=[shortmessage]**

Explanation :

| No | Parameter | Explanation | Example |
|----|-----------|-------------|---------|
| 1 | user | username given by PT. NADYNE MEDIA TAMA | nmtcoba |
| 2 | pwd | password given by PT. NADYNE MEDIA TAMA | nmt223344 |
| 3 | sender | registered sender id, must be the same with the approved sender id | NADYNE |
| 4 | msisdn | mobile number | 628111111889977 |
| 5 | message | encoded text messages, please make sure it is up to 160 characters only | this+is+your+message |
| | | **We provide concatenate message – let us know should we need to enable it** | |

Example :

**http://broadcast.nadyne.com:11180/send/sms_yourname.php?user=youruser&pwd=psw123&sender=NADYNE&msisdn=628111111&message=trial+sms+routing2**

## 2.2.    Return XML

For every request to send text message coming to Nadyne's server, it will be given XML response, consist of **TrxId(**transaction ID) and **Status(**sending text message status). If the process is correct, Nadyne's server will give non zero TrxId and if the process is not correct, TrxId will be 0 (zero)

1.  Correct format, will be send to telco directly

This XML file does not appear to have any style information associated with it. The document tree is shown below.

```
− <message>
    <TrxID>101+1238444514109784891</TrxID>
    <Status>SENT</Status>
  </message>
```

2.  Rejected text message, sender id is not registered

This XML file does not appear to have any style information associated with it. The document tree is shown below.

```
− <message>
    <TrxID>0</TrxID>
    <Status>SENT FAILED-SENDER ID NOT FOUND</Status>
  </message>
```

3.  Rejected text message, username or password is incorrect

This XML file does not appear to have any style information associated with it. The document tree is shown below.

```
− <message>
    <TrxID>0</TrxID>
    <Status>Invalid Authentication</Status>
  </message>
```

4.  Rejected text message, phone number is not supported

This XML file does not appear to have any style information associated with it. The document tree is shown below.

```
- <message>
    <TrxID>0</TrxID>
    <Status>SENT FAILED-NO ROUTE</Status>
  </message>
```

5.  Rejected text message, token is already run off

This XML file does not appear to have any style information associated with it. The document tree is shown below.

```
- <message>
    <TrxID>0</TrxID>
    <Status>Ordered Token Is non Enough</Status>
  </message>
```

6.  Rejected text message, incomplete parameter

This XML file does not appear to have any style information associated with it. The document tree is shown below.

```
- <message>
    <TrxID>0</TrxID>
    <Status>Invalid Parameter</Status>
  </message>
```

7.  Rejected text message, user IP is not registered at Nadyne's server – this setting is not compulsory

This XML file does not appear to have any style information associated with it. The document tree is shown below.

```
- <message>
    <TrxID>0</TrxID>
    <Status>Invalid IP Address</Status>
  </message>
```

# 3.    Report : Sent Text Messages

User can retrieve report by requesting sent report to Nadyne's server. Nadyne's server will return on detail text messages sent per day

Url format:

**http://ipaddress/foldername/filereport.php?**
**&user=[username]&pwd=[password]&page=[pagenumber]&datefrom=[yyyy-mm-dd]&dateto=[yyyy-mm-dd]**

Explanation :

| No | Parameter | Explanation | Example |
|----|-----------|-------------|---------|
| 1 | user | username given | nmtcoba |
| 2 | pwd | password given | nmt223344 |
| 3 | page | report page | 5 |
| 4 | datefrom | send date – from | 2010-08-21 |
| 5 | dateto | send date - to | 2010-08-25 |

Example :

**http://broadcast.nadyne.com:11180/send/report_mblox.php?user=youruser&pwd=psw123&page=1&datefrom=2007-01-01&dateto=2007-01-31**

## 3.1.    XML Return

Result from requesting send text message report is in XML format, consist of some variables :

- totalpage
- currentpage
- msisdn

- message

- sender_id

- submitdate

- trx_id(transaction id)

Result example from requesting send text message report :

```
This XML file does not appear to have any style information associated with it. The document tree is shown below.

▼<SMSReport>
  <totalpage>1133</totalpage>
  <currentpage>1</currentpage>
 ▼<sms>
    <msisdn               </msisdn>
   ▼<message>
      Pelanggan Yth, status berlangganan atas nama            telah aktif dengan nomor ID 127225143328, 1
    </message>
    <sender_id>    ISION</sender_id>
    <submit_date>2012-02-01 00:00:08</submit_date>
    <status></status>
  </sms>
 ▼<sms>
    <msisdn               </msisdn>
   ▼<message>
      Pelanggan Yth, status berlangganan atas nama      telah aktif dengan nomor ID 127225143329, Paket H1
    </message>
    <sender_id>    ISION</sender_id>
    <submit_date>2012-02-01 00:00:08</submit_date>
    <status></status>
  </sms>
 ▼<sms>
    <msisdn               </msisdn>
   ▼<message>
      Pelanggan Yth, status berlangganan atas nama            telah aktif dengan nomor ID 127225143330,
    </message>
    <sender_id>    ISION</sender_id>
    <submit_date>2012-02-01 00:00:28</submit_date>
    <status></status>
  </sms>
 ▼<sms>
    <msisdn               </msisdn>
   ▼<message>
      Pelanggan Yth, status berlangganan atas nama            telah aktif dengan nomor ID 127226557574, Pake
    </message>
    <sender_id>    ISION</sender_id>
    <submit_date>2012-02-01 08:58:18</submit_date>
    <status></status>
  </sms>
 ▼<sms>
    <msisdn               </msisdn>
   ▼<message>
      Pelanggan Yth, status berlangganan atas nama            telah aktif dengan nomor ID 127202234430, Pa
    </message>
    <sender_id>    ISION</sender_id>
    <submit_date>2012-02-01 09:38:17</submit_date>
    <status></status>
  </sms>
```

# 4.    Report : Delivery Status

To get delivery status from every text message sent, after 2 days, user can send request to Nadyne's server. Server will return XML formated result. Not every telco operator will give delivery status, for example Telkomsel will not give delivery status.

Url format :

**http://ipaddress/foldername/? fa=getreport.main** &trxid=[trxid]

Explanation :

| No | Parameter | Explanation | Contoh |
|----|-----------|-------------|--------|
| 1 | trxid | encoded trx id, where + become %2B | 102%2B13431157636672994200 |

Example :

**1. 1 trx id**

**http://202.182.63.130/sms_report/?fa=getreport.main&trxid=12187799522997754200**

**2. Multiple trx id**

Each trx id is separated by comma (,) and maximum 20 trx id per request

**http://103.39.52.136/sms_report/?fa=getreport.main&trxid=getreport.main&trxid=12053946453535014200,12053946453774864200,12053946454014734200,12053946454254604200,12053946454494464200,12053946454734334200,12053946454969314200**

## 4.1. Return XML

Return XML example

### 1. 1 trx id

This XML file does not appear to have any style information associated with it. The document tree is shown below.

```
- <SMSReport>
  - <sms>
      <TrxId>102+12838518381920924200 </TrxId>
      <DateTime>2010-09-07 16:55:12 </DateTime>
      <SourceAddr> </SourceAddr>
    - <ShortMessage>
        Ibu,dr 1-30 September.Dptkan disc' 50% Poin(dr 1,600 menjd 800 poin)utk penukaran Sepeda roda tiga Bebelac3 diCounter Club Nutricia Medan.Syrt&ketentuan berlaku
      </ShortMessage>
      <DestinationAddr> </DestinationAddr>
      <MessageStatus>DELIVRD </MessageStatus>
      <ErrorCode>000 </ErrorCode>
    </sms>
  </SMSReport>
```

### 2. Multiple trx id

This XML file does not appear to have any style information associated with it. The document tree is shown below.

```
- <SMSReport>
  - <sms>
      <TrxId>102+12838518381920924200 </TrxId>
      <DateTime>2010-09-07 16:55:12 </DateTime>
      <SourceAddr> </SourceAddr>
    - <ShortMessage>
        Ibu,dr 1-30 September.Dptkan disc' 50% Poin(dr 1,600 menjd 800 poin)utk penukaran Sepeda roda tiga Bebelac3 diCounter Club Nutricia Medan.Syrt&ketentuan berlaku
      </ShortMessage>
      <DestinationAddr> </DestinationAddr>
      <MessageStatus>DELIVRD </MessageStatus>
      <ErrorCode>000 </ErrorCode>
    </sms>
  - <sms>
      <TrxId>102+12838518382520504200 </TrxId>
      <DateTime>2010-09-07 16:55:12 </DateTime>
      <SourceAddr> </SourceAddr>
    - <ShortMessage>
        Ibu,dr 1-30 September.Dptkan disc' 50% Poin(dr 1,600 menjd 800 poin)utk penukaran Sepeda roda tiga Bebelac3 diCounter Club Nutricia Medan.Syrt&ketentuan berlaku
      </ShortMessage>
      <DestinationAddr> </DestinationAddr>
      <MessageStatus>DELIVRD </MessageStatus>
      <ErrorCode>000 </ErrorCode>
    </sms>
  - <sms>
      <TrxId>102+12838518383130634200 </TrxId>
      <DateTime>2010-09-07 16:55:12 </DateTime>
      <SourceAddr> </SourceAddr>
    - <ShortMessage>
        Ibu,dr 1-30 September.Dptkan disc' 50% Poin(dr 1,600 menjd 800 poin)utk penukaran Sepeda roda tiga Bebelac3 diCounter Club Nutricia Medan.Syrt&ketentuan berlaku
      </ShortMessage>
      <DestinationAddr> </DestinationAddr>
      <MessageStatus>DELIVRD </MessageStatus>
      <ErrorCode>000 </ErrorCode>
    </sms>
  - <sms>
      <TrxId>2838518383130634200-Entry Not Found</TrxId>
    </sms>
  </SMSReport>
```

3. Trx id not found

This XML file does not appear to have any style information associated with it. The document tree is shown below.

```
− <SMSReport>
    − <sms>
        <TrxId>1103+12753621584981984200-Entry Not Found</TrxId>
    </sms>
  </SMSReport>
```