 <p>powered by BIOTEKNO</p>	<b>Document</b>	<b>JETSMS – XML Mesaj Operations Help Document</b>
	<b>Date</b>	<b>15.02.2007</b>
	<b>Version</b>	<b>2.5.0</b>

# Sending Bulk SMS via XML

## SYSTEM PROPERTIES

To send large numbers of different sms from the system (like 20000 sms once), XML format should be used for user comfort.

In this method; the structure of the XML documents that are formed and posted on the system are determined by the operating modes. The system supports two of these operating modes :

1. **SMMGSD** [Single Message - Multi Gsmnos - Single Date] : Single message is sent to multiple numbers at the same date.
2. **MMMGSD** [Multi Messages - Multi Gsmnos - Single Date] : Multiple messages are sent to multiple numbers at the same date.

## 1. COMMON PROPERTIES OF WORKING MODES

### 1.1. Common properties of the operating modes

The operating mode is determined by setting the 'type attribute' of the "<message-context>" element to an appropriate value in the XML document. In this situation, the compatibility between the file structure and the operating mode plays a very important role. In case of incompatibility ; the decode phase of the XML document would be impossible and the system would give an error.

The "<username>" ve "<password>" elements should also be set. Otherwise, there would be an authorization problem.

The user that corresponds to a customer has to have at least the same number of counters as the number of messages he would like to send. If the counters are insufficient; the system will give error code:11.

As a new property of the system, in the 'Sender' tab; instead of numbers, an array that consists of alphanumeric numbers may be given. This values should be set into "<outbox-name>" element. And this value may also be one of the headlines that are already known by the system.

The date format for the messages is in "ddmmyyyyhhmmss" structure. According to this; if we are to give an example, for a message is to be sent at 01st April 2003-12 am. Until 3.30 pm. at the same day..

```
<start-date>01042003120000</start-date>
<expire-date>01042003153000</expire-date>
```

A structure like above should be made. If the messages are to be sent immediately; the "<start-date>" and "<expire-date>" elements should be left blank. In this case the XML structure should be like..

```
<start-date></start-date>
<expire-date></expire-date>
```

URL the XML will be sent: [www.biotekno.biz:8080/SMS-Web/xmlsms](http://www.biotekno.biz:8080/SMS-Web/xmlsms)  
**For testing environment** [www.biotekno.biz/test:8080/SMS-Web-rep/xmlsms](http://www.biotekno.biz/test:8080/SMS-Web-rep/xmlsms)


At the end of data transfer without any error **group id** in 00 04mmdhhmmssmm format is returned. Later on, a report query may be made with the returned **group id**.

<b>Jet SMS</b> powered by BIOTEKNO	<b>Document</b>	<b>JETSMS – XML Mesaj Operations Help Document</b>
	<b>Date</b>	<b>15.02.2007</b>
	<b>Version</b>	<b>2.5.0</b>

[www.biotekno.biz:8080/SMS-Web/xmlreport?username=...&password=...&groupid=...&status=](http://www.biotekno.biz:8080/SMS-Web/xmlreport?username=...&password=...&groupid=...&status=)

Status= 1 (success) 2(waiting) 3(error) 4(time expire) 5(all) codes are used.

As a result of report query; the phone number and the status are returned.

 powered by BIOTEKNO	<b>Document</b>	<b>JETSMS – XML Mesaj Operations Help Document</b>
	<b>Date</b>	<b>15.02.2007</b>
	<b>Version</b>	<b>2.5.0</b>

## 2. Operating Methods

### 2.1. SMMGSD Mod

Single message is sent to multiple numbers at the same date. The structure of the XML document should be like the format in the example below.

#### Example

```
<?xml version="1.0" encoding="iso-8859-9" ?>
<message-context type="smmsgsd">
  <username>myusername</username>
  <password>mypassword</password>
  <outbox-name>company</outbox-name>
  <reference>yourreference</reference>
  <start-date></start-date>
  <expire-date></expire-date>
  <text>test message</text>
  <message>
    <gsmno>90532XXXYYZZ</gsmno>
  </message>
  <message>
    <gsmno>90542AAABBCC</gsmno>
  </message>
  <message>
    <gsmno>90555KKKLLMM</gsmno>
  </message>
</message-context>
```

\*\* Note : The above example is written at separate lines for better understanding. When making your own XML, there should not be any newline characters. All the text should be contiguous in a single line.

 <p><b>Jet SMS</b> powered by BIOTEKNO</p>	<b>Document</b>	<b>JETSMS – XML Mesaj Operations Help Document</b>
	<b>Date</b>	<b>15.02.2007</b>
	<b>Version</b>	<b>2.5.0</b>

### 2.3. MMMGSD Mod

Multiple messages are sent to multiple numbers at the same date. The structure of the XML document should be like the format in the example below.


#### Example

```
<?xml version="1.0" encoding="iso-8859-9" ?>
<message-context type="mmsgsd">
  <username>myusername</username>
  <password>mypassword</password>
  <outbox-name>company</outbox-name>
  <reference>yourreference</reference>
  <start-date></start-date>
  <expire-date></expire-date>
  <message>
    <gsmno>90532XXXYYZZ</gsmno>
    <text>test message one</text>
  </message>
  <message>
    <gsmno>90542AAABBCC</gsmno>
    <text>test message two</text>
  </message>
  <message>
    <gsmno>90555KKKLLMM</gsmno>
    <text>test message three</text>
  </message>
</message-context>
```

\*\* Note : The above example is written at separate lines for better understanding. When making your own XML, there should not be any newline characters. All the text should be contiguous in a single line.

#### ERROR CODES

- 20 Invalid XML file
- 10 Invalid username/password
- 11 Insufficient counter
- 81 Sms limit exceeded
- 90 System error
- 00 Success

 <p>powered by BIOTEKNO</p>	<b>Document</b>	<b>JETSMS – XML Mesaj Operations Help Document</b>
	<b>Date</b>	<b>15.02.2007</b>
	<b>Version</b>	<b>2.5.0</b>

### 3. Queries

#### 3.1 Report Query

The sending status of the messages are queried by the Group id. Report query may be made with the group id that is taken as an answer in the sending phase. It can also be made with the reference in the XML if there is any.

If the query is made with the reference, to state this situation to the system; a 'R' character should be added in front of the reference and should be written after 'groupid='

Example: groupid=**R**yourreference

In the returned report the status code and the state of every single phone number is written.  
[www.biotekno.biz:8080/SMS-Web/xmlreport?username=...&password=...&groupid=...&status=.](http://www.biotekno.biz:8080/SMS-Web/xmlreport?username=...&password=...&groupid=...&status=)

Status=	1	(success)	during the query of the sent messages,
	2	(waiting)	message not transmitted yet,
	3	(error)	invalid phone number
	4	(time exceeded)	message will not be sent
	5	(all)	all the status codes will be returned.

Result of report query: group id , phone number and status are returned.

If there are no records in the desired status ; error code 99 would be returned.

```
04mddhhmmssmm 90542.....x 2
04mddhhmmssmm 90533.....x 1
-
```

If the query is made with the reference;

```
R.....xxxxx 90542.....x 2
R.....xxxxx 90533.....x 1
-
```

the returned answer would be like above.

#### 3.2 Title Query

During message sending; the titles that are registered to the system may be used. In order to query the registered titles in the system, the URL below is used.

<http://biotekno.biz:8080/SMS-Web/examine?username=...&password=...&type=titles>

#### And an answer like:

```
xxxxx
yyyyyyyyy is returned.
```


#### 3.3 Current Limit/counter Query

To query the limit and the current remaining counters, the URL below is used.

<http://biotekno.biz:8080/SMS-Web/examine?username=....&password=....&type=charge>

#### and an answer like

```
1856 is returned.
```

 powered by BIOTEKNO	Document	JETSMS – XML Mesaj Operations Help Document
	Date	15.02.2007
	Version	2.5.0

# Receiving messages that are sent with XML to long/short service

## 4. Receiving Messages

The messages that are sent to the service numbers are kept in the databases of Biotekno in crypted forms. The informations that are submitted by http are converted to XML format and kept in XML file..

The preferred format for compatibility in different platforms and for user comfort is XML.

For realtime transmission of messages taken directly from GSM operator : [xmlimport?](#)

By this method; the messages are stored in a single XML file and sent to Biotekno which are then stored in databases and maybe imported again later on if desired.

For test platform: **-rep**

[www.biotekno.biz:8080/SMS-Web-rep/xmlimport?username=.....&password=.....&serviceno=3838](http://www.biotekno.biz:8080/SMS-Web-rep/xmlimport?username=.....&password=.....&serviceno=3838)

For prod platform:

[www.biotekno.biz:8080/SMS-Web/xmlimport?username=.....&password=.....&serviceno=3838](http://www.biotekno.biz:8080/SMS-Web/xmlimport?username=.....&password=.....&serviceno=3838)

For transmission of received messages taken from GSM operator a while ago : [xmlexport?](#)

! Collected messages are sent to the XML file and marked as sent by Biotekno and **they will not be sent again at later queries.**

For test platform: **-rep**

[www.biotekno.biz:8080/SMS-Web-rep/xmlexport?username=.....&password=.....&serviceno=3838](http://www.biotekno.biz:8080/SMS-Web-rep/xmlexport?username=.....&password=.....&serviceno=3838)

For prod platform :

[www.biotekno.biz:8080/SMS-Web/xmlexport?username=.....&password=.....&serviceno=3838](http://www.biotekno.biz:8080/SMS-Web/xmlexport?username=.....&password=.....&serviceno=3838)

In a query like this; the sms's that are sent to service numbers(in the example it's 3838) are converted to XML format and sent to the firm.

### Necessary Parameters:

“username” : Username  
Username of the firm

“password” : Password  
Password for authorization.

“serviceno” : Service Number  
The service number the messages will be sent to.


<b>Document</b>	JETSMS – XML Mesaj Operations Help Document
<b>Date</b>	15.02.2007
<b>Version</b>	2.5.0

## 4. 1. The DTD of XML format for the received messages

```
<!--
  -- definitions of elements --
  number-of-messages : number of messages accumulated since the last retrieval
  message : message-structure; a document may contain 0 or more messages
  message-sequence : sequence of the delivered message
  message-id : unique, numeric id of each message
  message-date : format of the date is ddmmyyyyhhmiss
  sender-gsm : gsm number of the client e.g. '905425425425'
  message-body : content of the message
-->
<!DOCTYPE message-context [
  <!ELEMENT message-context (number-of-messages,message*)>
  <!ELEMENT number-of-messages (#PCDATA)>
  <!ELEMENT message (message-sequence,message-id,message-date,sender-gsm,message-body) -
->
  <!ELEMENT message-sequence (#PCDATA)>
  <!ELEMENT message-id (#PCDATA)>
  <!ELEMENT message-date (#PCDATA)>
  <!ELEMENT sender-gsm (#PCDATA)>
  <!ELEMENT message-body (#PCDATA)>
]>
```

## 4. 2. Example XML File

```
<?xml version="1.0" encoding="iso-8859-9" ?>
<message-context>
  <number-of-messages>3</number-of-messages>
  <message>
    <message-sequence>1</message-sequence>
    <message-id>3</message-id>
    <message-date>27032004113014</message-date>
    <sender-gsm>905421111111</sender-gsm>
    <message-body>deneme 1</message-body>
  </message>
  <message>
    <message-sequence>2</message-sequence>
    <message-id>6</message-id>
    <message-date>27032004141300</message-date>
    <sender-gsm>905422222222</sender-gsm>
    <message-body>deneme 2</message-body>
  </message>
  <message>
    <message-sequence>3</message-sequence>
    <message-id>7</message-id>
    <message-date>27032004144023</message-date>
    <sender-gsm>905423333333</sender-gsm>
    <message-body>deneme 3</message-body>
  </message>
</message-context>
```

 <b>Jet SMS</b> <i>powered by BIOTEKNO</i>	<b>Document</b>	<b>JETSMS – XML Mesaj Operations Help Document</b>
	<b>Date</b>	<b>15.02.2007</b>
	<b>Version</b>	<b>2.5.0</b>

<message-id> is added as a unique numeric number to allow checking the sending status of the messages by the firm.