

nexTome Location Platform (nLP)
nLP MSG Connector 1.0
September 2007

1 Document Review

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3 Introduction

3.1 Overview nLP

The nLP (nexTOME location Platform) makes possible the production of simple and economical solution for most different detection services over both cell phone triangulation (GSM/GPRS/UMTS) and GPS localization.

The individual modules in the overview:

- nLP LBS Connector (GSM und GPS Localization)
- nLP Content Connector (Content Integration, Neighborhood search)
- nLP Address Connector (Geo-encoding)
- nLP Map Connector
- nLP Route Connector
- nLP Payment Connector
- nLP Privacy Connector (Privacy Management)
- nLP Messaging Connector (SMS/MMS/e-Mail/Fax)
- nLP Voice Connector (Voice enabled LBS)

3.2 Legal Notice

The nLP MAPConnector as well as all connectors described in 3.1 are products of MECOMO AG. The connectors offer to customer's applications the possibility to interface with the nLP platform.

4 nLP – MSG Connector Overview

The purpose of the MSG Connector is to make a interface to send SMS and Email available for the nLP customers.

1.1 Interface

The MSG Connector is available as a Webservice located on Mecomo AG servers.

The URL for the MSG Connector is:

<http://213.252.14.229/nlp/msgconnector/live/msgconnector.asmx>

1.1.1 Protocols

The MSG Connector interface is available through HTTP / SOAP or HTTP / POST.
The syntax of the protocol can be viewed on the following URL:

<http://213.252.14.229/nlp/msgconnector/live/msgconnector.asmx?op=SendMessage>

1.1.1.1 Interface Contract

When using HTTP / SOAP as Protocol you can access the interface contract in WSDL format on the following URL:

<http://213.252.14.229/nlp/msgconnector/live/msgconnector.asmx?wsdl>

1.2 SendMessage() Method

SendMessage() sends 1 – n SMS and/or Emails.

1.2.1 SendMessage() Request

Examples:

Send 1 SMS example:

```
<?xml version="1.0" encoding="utf-8"?>
<MSGRequest version="1.0">
  <Customer name="TestUser" customer_id="1" pwd="Test" />
  <Messages>
    <Message medium="sms" sender="00491601234567" receiver="00491601234567"
senddate="28.02.2007 16:17:00">Hallo Handy</Message>
  </Messages>
</MSGRequest>
```

Send 2 e-mail example:

```
<MSGRequest version="1.0">
  <Customer name="TestUser" customer_id="1" pwd="Test" />
  <Messages>
    <Message medium="email" sender="webmaster@domain.de"
receiver="kunde@firma.com"
senddate="28.02.2007 16:17:00" subject="testmail 1"
sendername="Rolf">Nachricht 1</Message>
    <Message medium="email" sender="beispiel@beispiel.de"
receiver="muster@muster.com"
senddate="28.02.2007 16:17:00" subject="testmail 2"
sendername="Fritz">Nachricht 2</Message>
  </Messages>
</MSGRequest>
```

Description of the fields:

Item	Type	Occurence	Description
MSGRequest	Element	Exactly 1	Wrapper for the Request
Version	Attribute	Mandatory	Interface version, current 1.0.
Customer	Element	Exactly 1	Description of the MSGConnector customer
Name	Attribute	Mandatory	Customer name. (Will be provided by Mecomo AG.)
Customer_id	Attribute	Mandatory	Customer identification (Will be provided by Mecomo AG.)
Pwd	Attribute	Mandatory	Customer password (Will be provided by Mecomo AG.)
Messages	Element	Exactly 1	Wrapper for all messages.
Message	Element	1 - 1000	Body of the message to be sent
medium	Attribute	Mandatory	Channel of communication. Possible values:

			sms email
sender	Attribute	Mandatory	Sender cell phone number or email.
receiver	Attribute	Mandatory	Receiver cell phone number or email.
senddate	Attribute	Mandatory	Date to be sent the message.
subject	Attribute	Optional	Only available for medium „email“. The subject of the email.
sendername	Attribute	Optional	Only available for medium „email“. The sender name.

1.2.2 SendMessage() Response

The response can be sent on 2 different formats: a small format (for general errors like Invalid XML or login invalid) and a big format (errors on each individual message).

1.2.2.1 Small Format Errors

Example:

```
<?xml version="1.0" encoding="utf-8"?>
<MSGResponse version="1.0">
  <Timestamp value="05.03.2007 12:13:20"/>
  <ErrorCode error_id="104">Authentication Failed</ErrorCode>
</MSGResponse>
```

Description of the fields:

Item	Type	Occurence	Description
MSGResponse	Element	Exactly 1	Wrapper for the Response
Version	Attribute	Exactly 1	Interface version, current 1.0.
TimeStamp	Element	Exactly 1	Date and time wrapper.
value	Attribute	Exactly 1	Date and time when the answer was sent.
Error Code	Element	Exactly 1	Error message.
error_id	Attribute	Exactly 1	Error identification.

1.2.2.1.1 Error Codes

Error ID	Error Message	Error Description
102	General Error	General exception thrown.
103	Invalid Xml	The xml sent as request is invalid.
104	Authentication Error	The information for the customer authentication are incorrect. (Cusomter, Customer_ID and Pwd)

1.2.2.2 Long format erros

Example:

```
<?xml version="1.0" encoding="utf-8"?>
<MSGResponse version="1.0">
  <Messages>
    <Message medium="email" sender=" webmaster@domain.de" receiver="
kunde@firma.com" senddate="28.02.2007 16:16:00" subject="testmail 1"
sendername="Rolf" error_id="100"
  error_description="OK">Nachricht 1</Message>
    <Message medium="email" sender="beispiel@beispiel.de"
receiver="muster@muster.com" senddate="28.02.2007 16:16:00"
subject="testmail 2" sendername="Fritz" error_id="100"
  error_description="OK">Nachricht 2</Message>
  </Messages>
</MSGResponse>
```

Description of the fields:

Item	Type	Occurence	Description
MSGResponse	Element	Exactly 1	Wrapper for the Response
Version	Attribute	Exactly 1	Interface version, current 1.0.
Messages	Element	Exactly 1	Wrapper for all messages.
Message	Element	1 - 1000	Body of the message to be sent
medium	Attribute	Mandatory	Channel of communication. Possible values: sms email
sender	Attribute	Mandatory	Sender cell phone number or email.
receiver	Attribute	Mandatory	Receiver cell phone number or email.
senddate	Attribute	Mandatory	Date when the message will be sent.
subject	Attribute	Optional	Only avaiable for medium „email“. The subject of the email.

sendername	Attribute	Optional	Only available for medium „email“. The sender name.
error_id	Attribute	Optional	Error identification
error_description	Attribute	Optional	Error message.

1.2.2.2.1 Error Codes

Error ID	Error Message	Error Description
100	OK	The message was successfully sent.
105	Medium not supported	The medium value is invalid. (different then “sms” or “email”)
106	Incorrect parameters	The parameters on the message are incorrect.
107	General send error	General error when sending the message (from the Mobile Operator)

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