

**nexTome Location Platform (nLP)**  
***nLP Content Connector 3.0***  
**November 2008**

## 1 Document Review

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## 3 Introduction

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### 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 Content Connector 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.

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## 4 nLP – Content Connector Overview

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The purpose of the Content Connector is to provide an interface to make location content information available to the customers.

### 4.1 Interface

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

The URL for the Content Connector is:

<http://213.252.14.229/nLP/ContentConnector/v3/live/ContentConnector.asmx>

#### 4.1.1 Protocols

The Content 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/ContentConnector/v3/live/ContentConnector.asmx?op=GetContent>

##### 4.1.1.1 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/ContentConnector/v3/live/ContentConnector.asmx?wsdl>

### 4.2 GetContent() Method

GetContent() gets the information about one type of content form the MECOMO AG database. The input is mainly a position point and a radius and the output is a list of POIs in this area.

## 4.2.1 GetContent () Request

Example:

```
<?xml version="1.0" encoding="utf-8"?>
<ContentRequest version="1.0" transaction_id="WQQDQWERSDFVSD">
  <Customer name="TestUser" customer_id="1" pwd="test"/>
  <Contents>
    <Content Content_id="10" Content_FieldType="5" GEO="1" XCO="11,580213"
    RAD="10" YCO="48,139126" ENC="1" NAME="aral"/>
  </Contents>
</ContentRequest>
```

Description of the fields:

Item	Type	Occurrence	Description
<b>ContentRequest</b>	Element	Exactly 1	Wrapper for the Request
Version	Attribute	Mandatory	Interface version, current 1.0.
<b>Customer</b>	Element	Exactly 1	Description of the ContentConnector 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.)
<b>Contents</b>	Element	Exactly 1	Wrapper for all content requests.
<b>Content</b>	Element	1 - 1000	Information for the content.
Content_ID	Attribute	Mandatory	Identification of the content, will be provided by MECOMO AG
Content_FieldType	Attribute	Mandatory	Identification of the fields to be included on the response: 1= all information 2= address and POI name 3= 2 & opening hours 4= 3 & contact information 5= 4 & coordinates
Page_Size	Attribute	Optional	Number of occurrences to be displayed on each page.
Page_Number	Attribute	Optional	Number of the page to be retrieved.
GEO	Attribute	Mandatory	Identification of the format for the Geocode. Default 1 = WGS84 (no other formats currently supported)
XCO	Attribute	Mandatory	X-coordinate
YCO	Attribute	Mandatory	Y-coordinate
RAD	Attribute	Optional	Radius (in kilometers) of the search around x,y. Default = 1 Km, Limit = 50 km

ENC	Attribute	Optional	XML Encoding 1 = UTF-8 (Default) 2 = windows-1252
NAME	Attribute	Optional	POI-Filter. Usage in NAMESHORT. Only the POIs which match this filter will be returned. Note: For <b>BIOWeather</b> NAME is Bundesland.
PLZ	Attribute	Optional	PLZ
CITY	Attribute	Optional	CITY
STR	Attribute	Optional	STR
HNR	Attribute	Optional	HNR
FRMT	Attribute	Optional	FRMT
Emergency hrs	Attribute	Optional	For <b>pharmacys</b> : "" – default "1" – returns closest 7 pharmacies
CAT	Attribute	Optional	For <b>GST_DE</b> : Example. "1,2,3,4"  For <b>Weather</b> : "" or "1" – BIOWeather "2" – 3 days weather- and pollenprognosis  For <b>MED_DE</b> : "" or "1" for doctors w/o Dentists (default) "2" for vets "3" for hospitals "4" for Dentists

## 4.2.2 GetContent () 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 - or success - on each individual message).

Example:

```
<?xml version="1.0" encoding="utf-8"?>
<ContentResponse version="1.0" transaction_id="WQQDQWERSDFVSD">
  <Customer name="TestUser" customer_id="1" />
  <Contents>
    <Content fieldcount="25" error_id="100" error_description="OK"
    Content_ID="10" Content_FieldType="235" NAME="Aral" GEO="1" XCO="11,580213"
    YCO="48,139126" RAD="10" ENC="1">
      <Fields>
        <Field ID="6931" STR="Kapuzinerstraße 46" ZIP="80469"
        CITY="München" PHONE1="+49/89/761224" FAX1="+49/89/763117" MOBILE1=""
        URL1="" EMAIL1="" NAMESHORT="Aral" NAMELONG="Aral" X_WGS="11,56444"
        Y_WGS="48,1239" BHS="MO-SO, FEI 00:00-24:00" />
        <Field ID="6934" STR="Landshuter Allee 163" ZIP="80637"
        CITY="München" PHONE1="+49/89/156225" FAX1="+49/89/153114" MOBILE1=""
        URL1="" EMAIL1="daniel.vaduva@tankstelle.de" NAMESHORT="Aral"
        NAMELONG="Aral" X_WGS="11,53758" Y_WGS="48,16233" BHS="MO-SO, FEI 00:00-
        24:00" />
        <Field ID="6937" STR="Nymphenburger Straße 205" ZIP="80639"
        CITY="München" PHONE1="+49/89/160379" FAX1="+49/89/1675242" MOBILE1=""
        URL1="" EMAIL1="" NAMESHORT="Aral" NAMELONG="Aral" X_WGS="11,52857"
        Y_WGS="48,15748" BHS="MO-SA 06:00-22:00, SO, FEI 07:00-22:00" />
      </Fields>
    </Content>
  </Contents>
</ContentResponse>
```

```

    </Fields>
  </Content>
</Contents>
</ContentResponse>

```

Description of the fields:

Item	Type	Description
<b>ContentResponse</b>	Element	Wrapper for the Response
Version	Attribute	Interface version, current 1.0.
<b>Customer</b>	Element	Description of the ContentConnector customer
Name	Attribute	Customer name.
customer_id	Attribute	Customer identification
<b>Contents</b>	Element	Wrapper for all content Response.
Content	Element	Information for the content.
fieldcount	Attribute	Anzahl der gelieferten Datensätzen
error_id	Attribute	Fehler Code
error_description	Attribute	Fehler Beschreibung
Content_ID	Attribute	Identification of the content
Content_FieldType	Attribute	Identification of the fields to be included on the response: 1= all information 2= address and POI name 3= 2 & opening hours 4= 3 & contact information 5= 4 & coordinates
Page_Size	Attribute	Number of occurrences displayed on each page.
Page_Number	Attribute	Number of the page retrieved.
BUNDESLAND	Attribute	BUNDESLAND (for <b>BIOWeather</b> )
GEO	Attribute	Identification of the format for the Geocode. Example 1 = WGS84
XCO	Attribute	X-coordinate of the request
YCO	Attribute	Y-coordinate of the request
RAD	Attribute	Radius (in meters) of the search around x,y. Default = 1000m
ENC	Attribute	XML Encoding 1 = UTF-8 2 = windows-1252

NAME	Attribute	POI-Filter. Only the POIs which has a substring which match this filter will be returned.
PLZ	Attribute	PLZ ( für <b>Wetter</b> )
STR	Attribute	STR
HNR	Attribute	HNR
CITY	Attribute	CITY
FRMT	Attribute	FRMT
Emergency	Attribute	Emergency (for pharmacies)
CAT	Attribute	CAT ( für restaurants and weather)
<b>Fields</b>	Element	Wrapper for all field response of one content.
Field	Element	Information for one PO.
ID	Attribute	POI identification number.
STR	Attribute	Street.
ZIP	Attribute	ZIP Code
CITY	Attribute	City
DISTANCE	Attribute	Distance from this POI to the searched point.
PHONE1	Attribute	Phone number
FAX1	Attribute	Fax number
URL1	Attribute	Web site
EMAIL1	Attribute	E-mail
NAMESHORT	Attribute	Short name
NAMELONG	Attribute	Full name
X_WGS	Attribute	X-coordinate
Y_WGS	Attribute	Y-coordinate
BHS	Attribute	Opening hours
<Extra Fields>		Each content has content specific fields, please contact MECOMO for detailed information
<b>Attributes for MED_DE</b>		
zPOSTFACH	Attribute	zPOSTFACH

zP_PLZ	Attribute	zP_PLZ
zP_ORT	Attribute	zP_ORT
zNAME_INSTITUT	Attribute	Name des Instituts
zARZTTYP	Attribute	Arzttyp
zGRAD	Attribute	Grad
zVORNAME	Attribute	Vorname
zNAME	Attribute	Name
zHAUPTFACH	Attribute	Hauptfach
<b>Attribute nur für Wetter</b>		
BIOWETTER	Attribute	BIOWETTER (für Bundesland)
WEATHER_TODAY	Attribute	WEATHER_TODAY
WEATHER_NEXTDAY	Attribute	WEATHER_NEXTDAY
WEATHER_NEXTDAYS	Attribute	WEATHER_NEXTDAYS
NIGHTTEMP_TODAY	Attribute	NIGHTTEMP_TODAY
NIGHTTEMP_NEXTDAY	Attribute	NIGHTTEMP_NEXTDAY
NIGHTTEMP_NEXTDAYS	Attribute	NIGHTTEMP_NEXTDAYS
DAYTEMP_TODAY	Attribute	DAYTEMP_TODAY
DAYTEMP_NEXTDAY	Attribute	DAYTEMP_NEXTDAY
DAYTEMP_NEXTDAYS	Attribute	DAYTEMP_NEXTDAYS
RAIN_TODAY	Attribute	RAIN_TODAY
RAIN_NEXTDAY	Attribute	RAIN_NEXTDAY
RAIN_NEXTDAYS	Attribute	RAIN_NEXTDAYS
BELASTUNGSSTUFE_TODAY	Attribute	BELASTUNGSSTUFE_TODAY
BELASTUNGSSTUFE_NEXTDAY	Attribute	BELASTUNGSSTUFE_NEXTDAY
BELASTUNGSSTUFE_NEXTDAYS	Attribute	BELASTUNGSSTUFE_NEXTDAYS
POLLENARTEN	Attribute	POLLENARTEN
DATUM	Attribute	DATUM

#### 4.2.2.1 Small Format Errors

Example:

```
<?xml version="1.0" encoding="utf-8" ?>
  <ContentResponse version="1.0">
    <Timestamp value="17.09.2007 16:45:42" />
    <ErrorCode error_id="103">Error parsing XML Input</ErrorCode>
  </ContentResponse>
```

Description of the fields:

Item	Type	Occurence	Description
ContentResponse	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.

##### 4.2.2.1.1 Error Codes

Error ID	Error Message	Error Description
101	Requested version not supported	The version requested is not supported.
102	General Error	General Exception thrown
103	Error parsing XML Input	The xml sent as request is invalid.
104	CustomerNotAuthorised	The information for the customer authentication are incorrect. (Customer, Customer_ID and Pwd)

#### 4.2.2.2 Long format errors

Example:

```
<?xml version="1.0" encoding="utf-8" ?>
<ContentResponse version="1.0" transaction_id="WQQDQWERSDFVSD">
  <Customer name="TestUser" customer_id="1" />
  <Contents>
    <Content error_id="109" error_description="Content issued Error"
Content_FieldType="235" Content_id="20" timestamp="17.09.2007 17:27:27" />
  </Contents>
</ContentResponse>
```

##### 4.2.2.2.1 Error Codes

Error ID	Error Message	Error Description
105	Customer is not allowed to call content from this Area	-
106	Requested Content Id is unknown	-
107	Operation Timeout	-
108	Internal Error	-
109	Content issued Error	Mecommos content not available.
110	Requested content doesn't exist	No content found for the request parameters gefunden.

## 5 Contact:

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