

Business SMS

SMS Gateway | SMTP Interface

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VERSION

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0.2	Martin Mrvka	22.10.2004	Long message support
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1 INTRODUCTION

sms.at operates a sms gateway system which is directly connected to all Austrian mobile network operators and international sms carriers.

2 PURPOSE OF THIS DOCUMENT

This document describes the interface provided to third parties requiring connectivity to the sms.at sms gateway system.

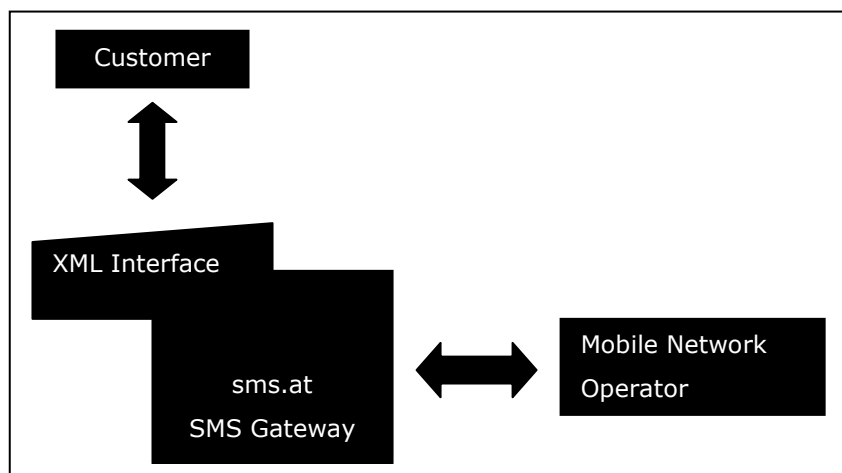
It is intended for development staff to attach the third parties infrastructure in order to send sms messages to the mobile network operators and carriers connected to the sms.at sms gateway system.

3 TERMS OF USE

No part of this document may be disclosed orally or in writing, including by reproduction, to any third party without the prior written consent sms.at mobile internet services gmbh. This document, its associated appendices and any attachments remain the property of sms.at and shall be returned upon request.

4 INTERFACE SPECIFICATION

4.1 SYSTEM OVERVIEW



4.2 INTERFACE LOCATION

The Interface is located at:

<msisdn>@gateway.sms.at (e.g. 436761234567@gateway.sms.at)

4.3 INTERFACE ACCESS

The Interface is used by sending plain text emails to <msisdn>@gateway.sms.at. For example, if a sms should be sent to the mobile number 436761234567, a email to 436761234567@gateway.sms.at has to be generated.

The different ways of authentication and message formats are described in the next chapter.

4.4 SENDIG MT MESSAGES

Once the message has been accepted by the SMTP system, the message will be forwarded to the mobile number. If an error occurs while forwarding, a notification email will be sent to the originator of the original message, defined by the SMTP head field „return-path“.

4.4.1 AUTHENTICATION

Each msgw SMTP account is identified by an email address which can also be provided by the customer. This email address, called Account Login is used for authentication purposes.

4.4.1.1 AUTHENTICATION USING SUBJECT

To find the proper msgw account, the AccountLogin can be provided with the subject of the SMTP message.

Example: „Subject: SMSGW-Auth: example@customer.com

To prevent abuse, it is mandatory that the msgw account has access restrictions configured in order to grant access to the SMTP interface from allowed client systems only. Additionally the subject may hold a combination of the AccountLogin and the AccountPass, separated by a „:“. In this case, the access restrictions are not mandatory, but optional.

Example: „Subject: SMSGW-Auth: example@customer.com:mypass“

4.4.1.2 AUTHENTICATION USING ORIGINATOR

If it is not possible to add the account information to the subject of the SMTP Message, the authentication can also be done by using the originating address. In this case, the incoming SMTP message needs to be sent from the email address which is configured as AccountLogin for the msgw account. To prevent abuse, it is mandatory that the msgw account has access restrictions configured in order to grant access to the SMTP interface from allowed client systems only.

4.4.2 ACCESS CONTROL

Since elements of email messages can be faked, access restrictions help to prevent abuse.

4.4.2.1 ORIGINATOR

The customer may provide one or more originating email addresses which are allowed to use the SMTP interface. Since the origination address of a SMTP message can be faked, this is a weak access restriction.

4.4.2.2 IP ADDRESS

To grant access from allowed systems only, the customer can provide one or more IP addresses which are allowed to use the SMTP interface. This access restriction implements a strong security mechanism.

4.4.3 MESSAGE FORMAT

The incoming SMTP has to be a plain text message, preferably quoted printable to enable special characters. If a common email client (eg. MS Outlook) is used, the message format should be correct, if html or richtext format is not enabled.

4.4.4 LONG MESSAGES

If the content length of the SMTP message is up to 160 characters, one SMS will be generated, otherwise the first 600 characters will be segmented into more SMS messages with 153 characters per SMS.

Attention:

Please note, that in the GSM alphabet some characters need more than one character due to encoding. This will also lead to a long message if your email content has close to 160 characters and one or more of these special characters. These special characters which count as two characters are: € ~ ^ { } \ [] |

4.4.5 RECIPIENT ADDRESS

The recipient of the forwarded sms messages is given as within the recipient of the SMTP message (eg. 436761234567@gateway.sms.at). The mobile number has to be in international format without any leading zeros or plus sign.

4.4.6 DELIVERY NOTIFICATIONS

To send messages with delivery notification, the SMTP header field „return-receipt-to“ has to be present. The delivery notification will be sent to the email address associated with the msgw account, the AccountLogin. If a common email client (eg. MS Outlook) is used, delivery notification can easily be enabled by turning on the „delivery receipt confirmation“.

4.5 EXAMPLES

Authentication using subject

```
Return-Path: <dontcare@customer.com>
Content-Type: text/plain
Content-Transfer-Encoding: quoted-printable
Subject: SMSGW-Auth:example@customer.com
From: <dontcare@customer.com>
To: <436761234567@gateway.sms.at>

test
```

Authentication using subject with password

```
Return-Path: <dontcare@customer.com>
Content-Type: text/plain
Content-Transfer-Encoding: quoted-printable
Subject: SMSGW-Auth:example@customer.com:mypass
From: <dontcare@customer.com>
To: <436761234567@gateway.sms.at>

test
```

Authentication using originator

```
Return-Path: <example@customer.com>  
Content-Type: text/plain  
Content-Transfer-Encoding: quoted-printable  
Subject: dontcare  
From: <example@customer.com>  
To: <436761234567@gateway.sms.at>
```

test

Special Characters (üöäBÜÖÄ€)

```
Return-Path: <example@customer.com>  
Content-Type: text/plain  
Content-Transfer-Encoding: quoted-printable  
Subject: dontcare  
From: <example@customer.com>  
To: <436761234567@gateway.sms.at>
```

=FC=F6=E4=DF=DC=D6=C4=80

Delivery Notification

```
Return-Path: <example@customer.com>  
Content-Type: text/plain  
Content-Transfer-Encoding: quoted-printable  
Subject: dontcare  
From: <example@customer.com>  
To: <436761234567@gateway.sms.at>  
Return-Receipt-To: <dontcare@customer.com>
```

test