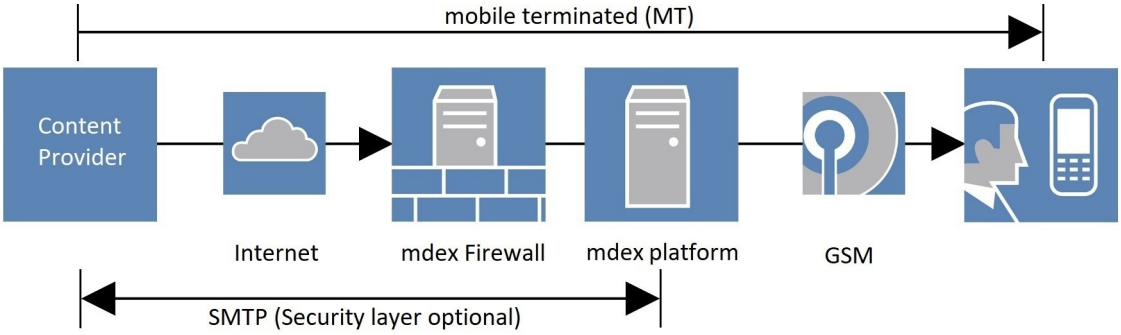
mdex SMS messaging platform – Technical Specification
Protocol: SMTP

Overview

The industry standard protocol "SMTP" is used to

- transmit SMS messages to GSM mobile network devices worldwide.



Standard features

Transmission:	Mobile terminated SMS, (text-messages worldwide and binary content as far as supported by network operators)
Performance:	5 SMS/sec typical performance
Availability:	More than 99% of all cases on an annual base
Client identification:	Client IP address and Customer ID
Security layer	Optional, ≥ TLS1.2 via STARTTLS or SMTPS (Port 465)

Additional optional features

Selected routing:	Selected routing of mobile terminated SMS though hosted large account (LA hosting)
Converting:	Converting mobile terminated SMS to different media (Speech, Email, Fax)
DLR:	Delivery reports supported (if feature enabled; Supported protocols for DLR's: SMTP)

Format description
email format for single message:

To:	<recipient>@<customerID>.sms.ic3s.de
Subject:	<flags>
Body:	<message>

Process description

The following resources are needed at the customer site:
- Fixed internet access with one or more IP addresses
- Client software for this protocol

The following information are needed from the customer:
- Activation sheet for this protocol, including customer name, technical contact, email address for maintenance information and sender IP address(es) of your client

The following information is communicated to the customer:
- Customer ID
- Connection parameters
- Certificates for verification purposes (optional for security layer)
- Access data to customer lounge (optional)

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Glossar

To:

<recipient>	Phone number of the recipient (AdC) in the format “+491721234567”, “00491721234567” or for German recipients “01721234567”
<customer ID>	Communicated subdomain name defined by mdex

Subject:

<flags>	Optional field to identify the type of the SMS more exactly
	Flags are chained using an "&" character, spaces are ignored. e.g.: flag1 & flag2 & flag3

Body:

<message>	By default coded as readable ASCII text (>20 hex), max. 160 char. If "hex" flag is used: Coded as hexadecimal string, max. 280 char, spaces are ignored.
	Subject hints: – Use ‘\n’ for linefeed scan code – Use ‘\r’ for carriage return scan code

Flag support:

oadc	Phone number of originator (OAdC) in the format “+491721234567”, “00491721234567” or for a German OAdC “01721234567”
alnumoadc	Alphanumeric OAdC, replaces any numeric OadC Allowed characters a->z,A->Z,0->9,@ÄÖÜäöüß, max. 11 chars Hint: Spaces must be embedded within quotation marks
hex	The <message> field is coded in hexadecimal code
mcl	Supported message classes, See GSM 03.38 0: direct display; 1: ME-specific, e.g. ring tones etc.; 2: SIM specific; 3: TE-specific.
udh	The “user data header”; See GSM 03.40, 9.2.3.23
simtool	The "Sim Toolkit" bit is set. See GSM 03.40, 9.2.3.9
notification	Request delivery status notification by e-mail (if feature enabled)

Examples:

simple SMS:	to: subject: body:	+491727654321@customerID.sms.ic3s.de Hello World
simple SMS with alnumOAdC, no spaces in expression:	to: subject: body:	+491727654321@customerID.sms.ic3s.de alnumoadc=ALPHA@NUM Hello World
simple SMS with alnumOAdC, spaces in expression:	to: subject: body:	+491727654321@customerID.sms.ic3s.de alnumoadc=”My Text” Hello World
simple SMS with notification request:	to: subject: body:	+491727654321@customerID.sms.ic3s.de notification Hello World
complex message (e.g. operator logo for Nokia mobiles):	to: subject: body:	+491727654321@customerID.sms.ic3s.de hex & udh & mcl=1 0605041582000062F22000480E010007FE000000000000000004390FC1C00F8000000 4D08787E01FC00000059083066018C000000510830C2018000000709030C001800 00000606030C000F0000000602030C0307800000701030C0480C000000500830C2 090C00000058083066118C0000004C08787E09FC0000004310FC1C48F80000007F E000003000000