

DMS / SC.SMS-Settings™

Remote configuration of services on mobile devices

Sometimes it is difficult for subscribers to untangle the phone settings to use additional services, such as MMS or mobile internet. The reasons are the lack of time to study the instructions or the lack of knowledge about the mobile phone functions.

SC.SMS-Settings platform configures the mobile devices automatically. Auto settings will be sent immediately after a new device appears in the network. Thus, subscribers can use the MNO's services without any obstacles. Settings could be also sent by the command from MNO's external systems or by means of manual subscriber's ordering via SMS, USSD, IVR.

In addition to the settings sent to the terminals, the platform can be used as a marketing research tool — the system stores information about many parameters of mobile devices. These data allow to create unique offers to subscribers.

SC.SMS-Settings complex can be installed in the minimum configuration which does not require integration with the MNO's signaling network (in this case, integration with the MNO's SMSC via SMPP protocol will be required). The solution virtualization is also supported.

Key features

- Different ways to send the settings to the subscriber:
 - Automatic sending upon detection of a new MSISDN-IMEI-IMSI bundle in the network
 - On command from the billing system (provisioning), e. g. when the service is activated
 - In response to a SMS/USSD command from a subscriber (settings request). The command may be also sent automatically by the application on the SIM card
 - On command from the platform's web interface
 - On a provisioning command from any other system in the MNO's network (e.g. a subscriber calls the subscriber support service and requests to set up his phone)
 - Bulk delivery of settings is possible over a certain subscriber lists formed using the database of SMS-Settings or otherwise
- Support for various types of settings
 - Basic: WAP, MMS, Internet via 3G/GPRS, Internet for Java applications, Internet for the browser without using an WAP gateway
 - Optional: VPN, SyncML, Video streaming, Email, SMTP, POP3, IMAP, PoC (Push-to-Talk), OMA DM Account setting, Wi-Fi
- Forming of not only SMS messages with settings, but also information messages (Welcome SMS, Welcome MMS, manual setting instructions, etc.)
- Updating the device database with user parameters
- Generation of statistical reports about platform operation, on the base of subscriber devices
- Setting groups of subscribers:
 - Nested groups (two levels) are supported
 - Group belonging can influence on settings and notification generation. Group mechanism allows to divide subscribers by macro regions, billing plans, their device settings
 - It is possible to perform bulk messaging
- Monthly updates of the database with telephone models — DB contains data for not less than 97% of MNO's subscriber devices
- Support for different techniques of new subscriber detection:
 - Processing CheckIMEI events from the MNO's switching equipment. For this purpose, the [SC.EIR](#)

platform is included into installation. The quickest method

- Processing of CDR files received from the MNO's switching equipment
- Reception of information from other equipment in the MNO's network (e. g., from HLR or EIR).
Development of new interworking interfaces is possible
- SMS from the platform can be independently delivered, thus, allowing to save on regular SMSC licenses. For this purpose, the delivery package includes the **SC.SMSC** platform
- MMSC Provisioning

Benefits & advantages

- Easy configuration of data transfer services and a sequential increase in the number of users of such services
- Reliability and scalability
- Regular database updates with various device models and parameters
- As a marketing tool, the **SC.SMS-Settings** system increases analytic capabilities and allows to solve the following tasks:
 - tracking of the popularity of phones manufacturers and models
 - targeted promotion of services
 - creation of new services based on subscribers preferences
 - and many other features
- Wide opportunities for sending auto settings:
 - MSISDN list, IMSI list, IMSI-MSISDN list, IMEI/IMEISV list could be assigned as recipients
 - For each messaging it is possible to indicate the service, for which setting, start time, messaging rate, and allowed messaging time are sent
 - View statistics on bulk messaging
- More than 120 device parameters which could be used during report generation and in the rules for auto setting generation:
 - basic parameters (device type, housing type, dimensions, weight, etc.)
 - supported settings
 - SIM card parameters
 - supported technologies for data transfer and their parameters (including bands)
 - screen parameters
 - video camera parameters
 - operation system parameters
 - memory parameters
 - and many other

Integration scheme

