

Fixed Line SMS Solutions



Bring the Power of SMS to Fixed line Ph

Short Message Service Centre



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Fixed Line SMS

The Fixed line SMS technology brings all the benefits of messaging services, hitherto available to the cellular mobile users only, to the fixed line users. Fixed line subscribers can send/receive short messages to/from POTS, CDMA, WLL and GSM & CDMA cellular mobile subscribers. While the fixed line service providers can use the FSMS for adding value to their service offerings, this technology opens up a plethora of opportunities for third-party content providers and marketers. It is also a very powerful tool for the government sector initiatives such as e-governance. In the longer run, telecom operators and service providers can expect a substantial revenue stream from these services.

How FSMS Works?

FSMS service requires a Fixed Line Short Message Terminal Equipment (FSMS-TE) that supports ETSI Protocol 1, GSM 3.40 Protocol and appropriate user, the TE makes a voice call to the FSMS Gateway by using a pre-stored Short Message Service Centre (SMSC) number. Once the voice call is established between the TE and the FSMS Gateway, in-band FSK signaling is used for handshaking and actual short message transfer between them. The Gateway in turn deposits the message at the SMSC, which stores it and forwards it to the destination POTS, WLL or Cellular mobile subscriber.

SMS interworking between wireline and wireless subscribers of any network is possible through the Mobile Application Protocol (MAP), as in the GSM networks, with minimal changes to the existing roaming data.

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C-DOT FSMS Solution

C-DOT has leveraged its experience in providing Short Message Service solutions for GSM mobile subscribers to develop a complete ETSI Protocol 1 compliant SMS solution for fixed line subscribers. C-DOT's FSMS solution comprises the Short Message Service Centre (SMSC), Distributed SMS Gateway, Unified Messaging System (UMS) and FSMS phone (SM-TE).

Short Message Service Centre (SMSC)

The SMSC caters to short messages of fixed line and GSM mobile subscribers. The platform is a cluster of 667 MHz, Tru64® UNIX telecom servers. A 2-node fully redundant SMSC can handle about 2 million BHCA and 1.5 million subscribers. This can scale up to 8 node with 10 million BHCA and 5 million subscribers.

Fixed SMS Gateway

The FSMS Gateway for FSMS services is based on the C-DOT MAX switching system. It supports FSK and DLL Protocol towards the PSTN/ISDN switches and communicates with the SMSC on MAP interface. A number of geographically dispersed gateways, each with around 25,000 BHCA capacity, can be connected to a SMSC over the PSTN backbone.

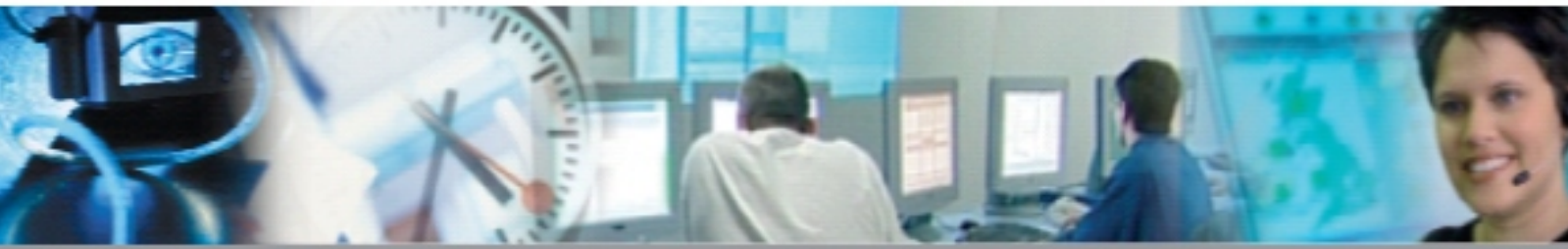
Unified Messaging System (UMS)

The UMS is based on the C-DOT IVRS platform. It extends the FSMS facility to users with ordinary phones (POTS). It allows them to submit short messages by using a telephone Key-to-alphabet mapping and IVR guidance. It supports text-to-speech and text-to-fax conversion for delivering SMS to POTS and FAX users.

Fixed Line Short Message Terminal Equipment (SM-TE)

The SM-TE from C-DOT is a fully-featured telephone with messaging capability. It fully complies with the ETSI Protocol (1) and the Indian Standard GR/SMS-03/01.JAN.2003 for fixed line SMS phones. It is cost-effective, easy to install & operate and has many unique features, making it an ideal choice for service providers and subscribers.

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A background image showing a call center environment with several agents working at computer terminals. A woman in the foreground is smiling and wearing a headset. The scene is brightly lit with blue and white tones.

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Services

- GSM mobile and fixed line SMS
- Value-added SMS Services via SMPP Interface
- Email
- Concatenated Messages
- Group Messaging
- Support for National/International Number Formats
- Message Delivery Retry
- Message Status Query and Message Deletion by User
- Message Delivery Report
- Distribution Lists
- Operator Initiated Messages
- Overload Control
- CDR Generation in ASN.1 Format
- Traffic Reports
- Remote Operator Interface

Standards Compliant Solution

- ETSI GSM 03.40,09.02,04.11
- ETSI ES 201912, ETSI TS 103912 (ETSI Protocol 1)
- ITU-T Q.71X(SCCp) and Q.77x (TCAP)
- ITU-T Q.70X(MTP)
- ITU-T Q.76X(ISUP)
- TEC GR/SMS-02/01.JAN.2003
- TEC GR/SMS-03/01.JAN.2003

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