

TDAPI SMS Solutions Application Note

The TDAPI SMS solution provides all the signaling components necessary to build SMS service centres, SMS gateways and SMS routers. The solution provides SS7/SIGTRAN connectivity for gateway MSC (GMSC) or combined service centre and gateway MSC.

KEY FEATURES

- Incorporates all essential signaling components for SMS services
- MAP GSM PHASE 1, 2 and 3
- SS7 (LSL/HSL), SIGTRAN
- PDH, SDH, ATM
- Supports up to 64 HLRs and MSCs
- High-performance multi-threaded protocols
- OS agnostic (Linux, Solaris, Win 32)
- Scalable (MPAC hardware agnostic APIs)

KEY BENEFITS

- Highly flexible software framework with easy interfaces for software developers
- Allows rapid integration and creation of unique SMS applications
- SMS signaling and media on the same MPAC board broadens application and lowers cost
- Field-proven, high reliability protocol software and telephony cards
- World-wide TDAPI support available for minimum downtime

APPLICATIONS

- SMSC (store and forward)
- SMS router (real-time SMS delivery)
- SMS gateway
- SMS broadcast
- USSD server
- Voice mail and unified messaging
- Content delivery and televoting

OVERVIEW

The TDAPI SMS solution provides termination of GSM network protocols MTP, TCAP, SCCP and MAP. Both cellular-originating SMS and cellular-terminating SMS applications are supported, as well as HLR interrogation. Underlying transport mechanisms and dialogue state machines are dealt with internally by the TDAPI framework, the benefit being that developers can concentrate on building revenue-generating SMS/USSD services rather than spending time on the complex underlying GSM and SS7 protocols.

Next-generation network support

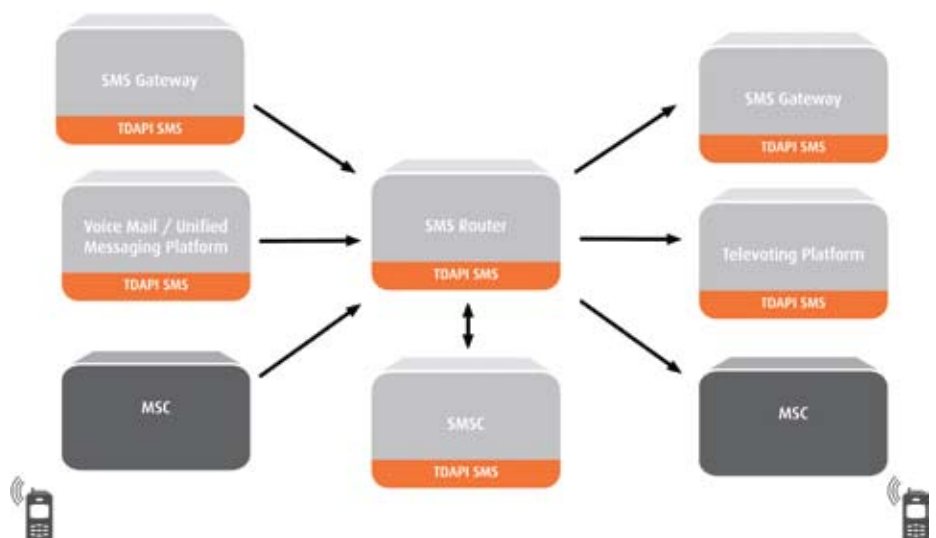
The TDAPI SMS solution supports next-generation networks via SIGTRAN interconnect, with TDAPI's high-performance M3UA stack, and both of the most commonly used high-speed SS7 interfaces; ATM or HDLC high-speed links (HSL).

Due to the transport layer agnostic nature of the TDAPI framework, applications can be ported seamlessly from SS7 to SIGTRAN. Likewise applications designed for LSLs (low-speed links) can also be easily ported to high-speed link deployments.

Combined media and signaling support

The SMS service API can be used in conjunction with the TDAPI Media API to produce a wide range of blended applications including:

- Voice SMS (play back the SMS as voice using call control and media API)
- Missed call alert (monitor the voice mail network interface and report the missed call via SMS)



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OVERVIEW – Cont.

TDAPI framework

TDAPI is Telesoft Technologies’ low-cost telephony board and software-only solution. The TDAPI framework consists of any combination of TDAPI ‘C’ API, protocol stacks and MPAC Telephony Board. All TDAPI software is MPAC Telephony Board agnostic and in many cases the application interfaces are also abstracted from the underlying telephony protocols. This abstraction from the hardware and protocol layers has many advantages including easy portability of developed applications across networks and high scalability via a simple upgrade of the MPAC board.

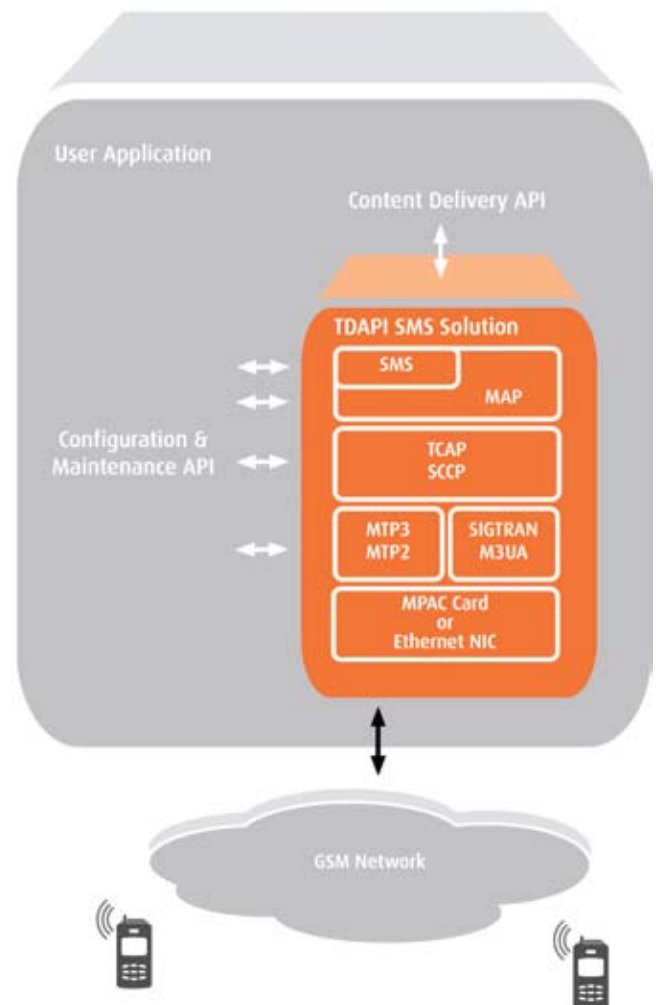
The TDAPI framework has interconnected with hundreds of networks and switches globally so you can be sure that the deployment of your application will be as smooth as possible.

High performance

The TDAPI framework has a multi-threaded architecture which brings the benefits of a synchronous event delivery and high performance, giving TDAPI the ability to cope with very high traffic rates.

High availability

The TDAPI framework supports high availability system development via the C-CURE API. The C-CURE API deploys a dual-plane architecture in a worker-standby system. This allows for geographically separate software stacks and SDL distribution. C-CURE supports many redundancy architectures and is extremely flexible.



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