

Milborne SMS & USSD Gateway

The MILBORNE is a high capacity, yet cost effective, SS7 or SIGTRAN based SMS and USSD Gateway, allowing value added services based on SMPP to be rapidly developed, avoiding the need for complex core network access protocols.

KEY FEATURES

- MAP GSM PHASE 1, 2 and 3
- Support for up to 100 SMPP ESMEs
- SS7 (LSL/HSL), SIGTRAN
- PDH, SDH and ATM
- High performance protocol stacks
- Scalable solution
- SNMP alarms
- MDRs & statistics
- Linux operating system

KEY BENEFITS

- Rapid deployment of SMS/USSD Services
- Industry standard SMPP interface
- Simple configuration and maintenance
- Connect into any GSM MAP network globally
- Comprehensive statistics

APPLICATIONS

- Bulk SMS broadcast/alert
- Mobile advertising
- Mass telephone voting
- Subscriber information: balance check, prepaid top-up, email-over-USSD
- Value added services: weather, news, sport, horoscopes, timetables etc

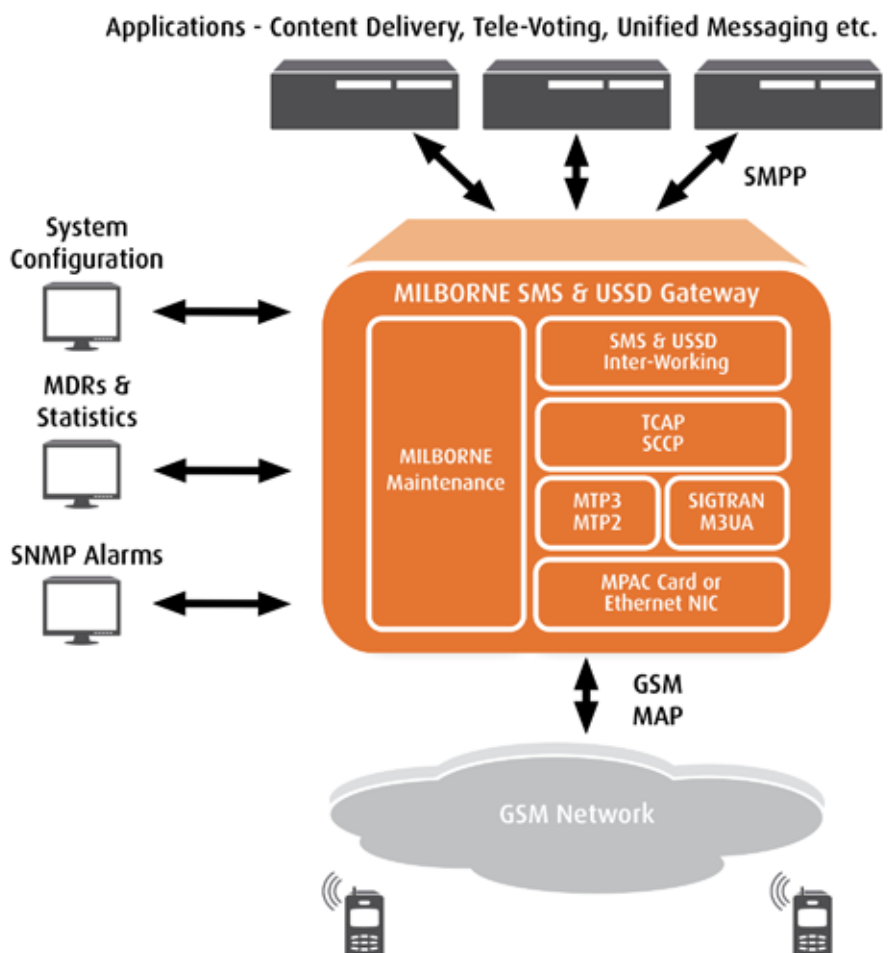
OVERVIEW

For Developers, System Integrators and OEMs, the MILBORNE SMS and USSD Gateway provides the ability to deliver or receive high-volume SMS or USSD content via SS7 or SIGTRAN networks. This allows rapid and cost-effective deployment of value added services based on the standard SMPP interface, hiding the complexity of the core network protocols, such as MAP, TCAP and SCCP.

Cost Effective Scalability

Because the MILBORNE is based on the Telesoft Technologies' MPAC card range, it is highly scalable whilst at the same time being extremely cost effective. Signalling densities can be increased from 4 low-speed SS7 links up to 64 links by simply purchasing additional licenses.

The MILBORNE SMS and USSD Gateway is a telephony card and software only solution. This means that the customer can select and procure their own host equipment allowing greater flexibility and control over the overall system price.

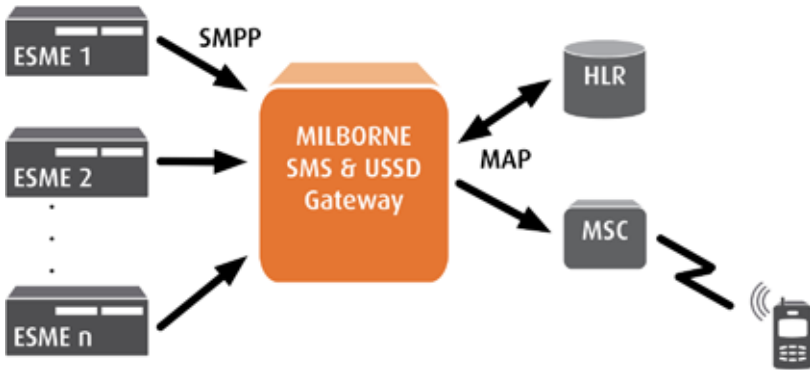


MILBORNE SMS & USSD Gateway

OVERVIEW - Cont.

ESME Aggregation

Support for multiple external short message entities (ESMEs) allows for a large number of different USSD and SMS service applications to run concurrently on a single MILBORNE and GSM SS7 access point.



SMS Support

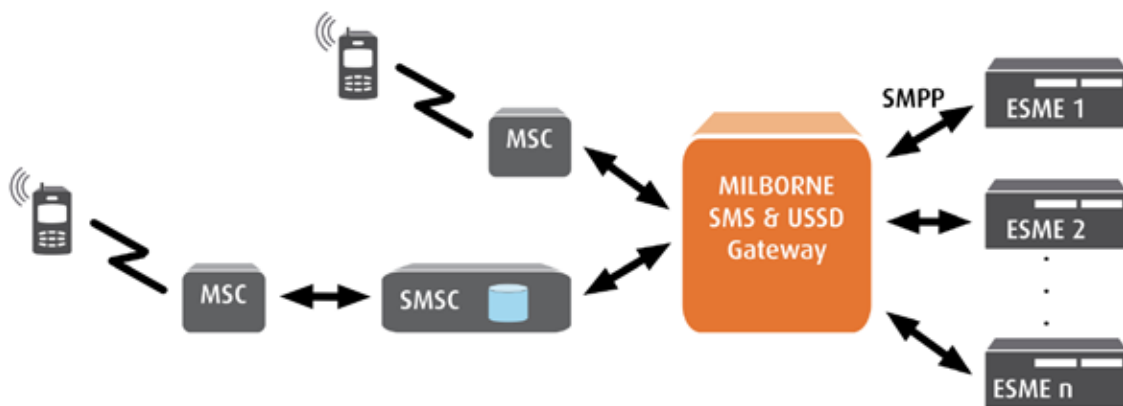
The MILBORNE supports both mobile originating (MO) and mobile terminating (MT) SMS applications. The MILBORNE maps incoming texts to a virtual handset and acts as an SMSC for outgoing texts. A virtual HLR within the MILBORNE makes adding new virtual subscriber

numbers easy, facilitating short duration activities such as competitions. The SS7 signalling interfaces allow very high SMS volumes with up to 100 different applications simultaneously supported.

USSD Support

Unstructured supplementary service data (USSD) is a technology unique to GSM and allows transmission of information over the signalling channel to the GSM network. USSD is session orientated, unlike SMS, which is a store-and-forward technology. Therefore response times for interactive applications are shorter for USSD than SMS.

Typically incoming messages from the handset are fed to the relevant application (within an ESME). The application sends the user back a response in the form of a simple text reply or structured menu. Information flows in both directions and can be network or subscriber originated. The session can be terminated by the user or application.



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