



GSM1x OVERVIEW



GSM1x – Wireless Network Convergence



GSM-MAP is deployed throughout the world as the core network of many mobile carriers. The GSM-MAP core network provides GSM operators with a reliable foundation for world-wide roaming and enhanced features/services. Future network enhancements focus on the air interface, with CDMA (both WCDMA and CDMA2000) as the prevailing choice. Toward this goal, QUALCOMM is introducing GSM1x, a CDMA2000 solution for GSM operators in any RF band.

A solution that maximizes your investments

GSM1x is a cost effective solution that takes full advantage of an operator's investment in its existing GSM-MAP core network, thus maintaining all key features inherent in the system. GSM1x has been designed to overlay an existing GSM network with no impact to the core network. By utilizing CDMA2000 radio access in any band (800, 900, 1800, 1900 and 2100 MHz), GSM1x will increase an operator's voice and data capacity. In addition, service transparency between the networks is maintained.

GSM1x—The convergence of two powerful technologies

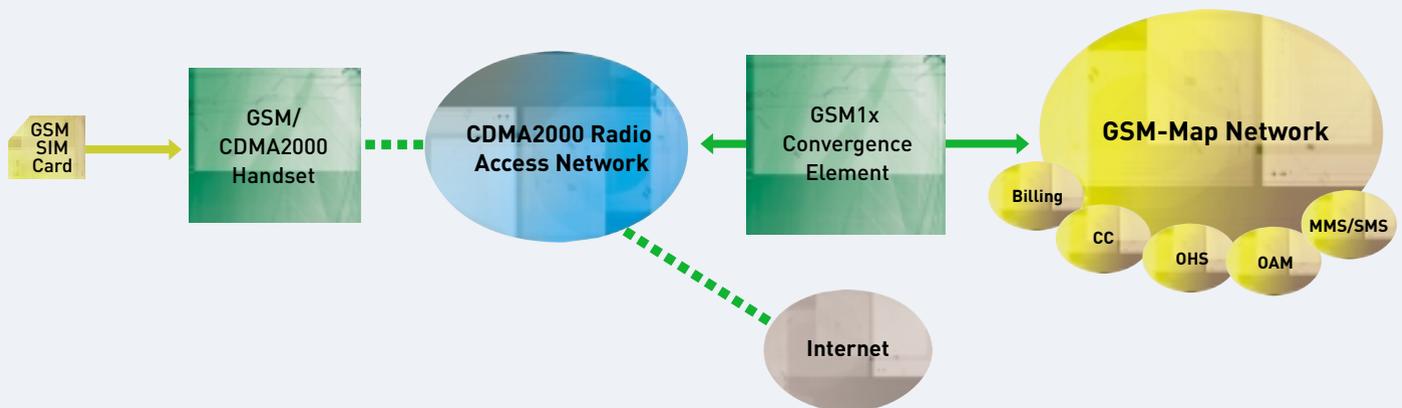
GSM1x offers an attractive solution through combining the feature-rich services and roaming of GSM with the enhanced data services and spectral efficiency of CDMA2000. GSM operators can cost effectively overlay the advanced capabilities of CDMA2000 in their existing GSM network. Plus, while maintaining the inherent strength of the GSM-MAP network, GSM1x provides data speeds up to peak rates of 2.4 Mbps per sector in a 1.25 MHz channel. The convergence of CDMA2000 and GSM is here today.



Building the GSM1x network evolution

GSM1x provides a seamless integration with the GSM-MAP network and services by maintaining all existing core network infrastructure. Combined with commercially available CDMA2000 radio access equipment, GSM1x translates into a cost effective solution. The flexibility of the GSM1x convergence element allows the unmodified GSM core network to interface with the CDMA2000 radio network.

GSM1x uses standard CDMA2000 handsets with R-UIM interfaces, and software upgrades to accept GSM SIM cards. Multimode, multiband handsets will be available to meet the diverse needs of subscribers.



The evolution is here today

GSM1x takes the next step in the quest for GSM carriers to provide their customers a combined voice and data experience. GSM1x makes this step possible without large additional investments in new equipment, with time-to-market advantages for these capabilities.

Moreover, GSM1x makes global roaming possible. GSM1x will facilitate both GSM and CDMA roaming, by preserving GSM-MAP roaming arrangements and by enabling CDMA2000 service. The possibilities are endless.

To learn more about how GSM1x can help take your network to the next level, please visit www.gsm1x.com and contact your QUALCOMM representative today.



For more information about QUALCOMM, please visit our web site at www.qualcomm.com