

CDMA2000:

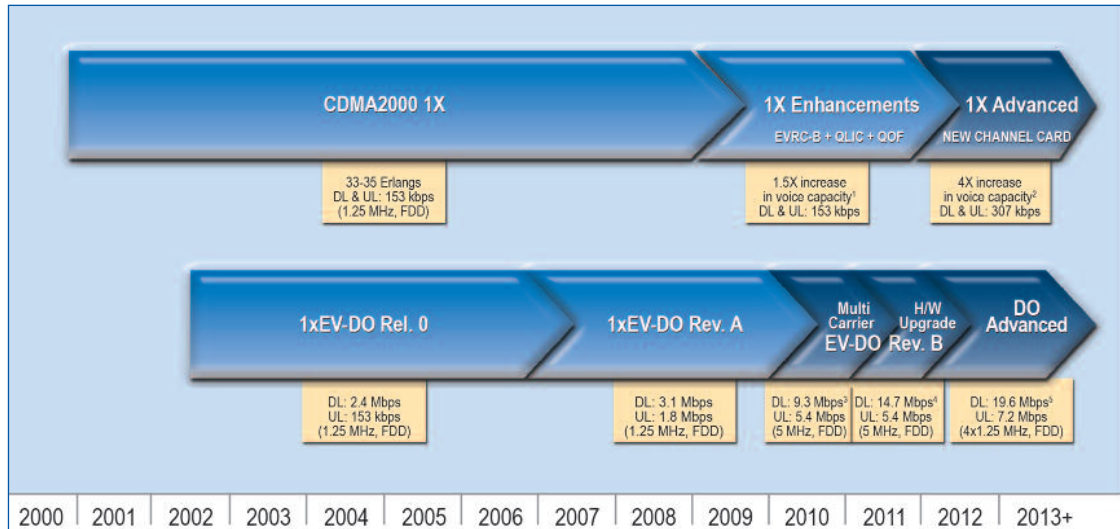
Evolving to Continue the Expansion of the Wireless World



In today's highly-competitive 3G marketplace, wireless broadband is driving future growth while voice remains an essential element. The trend for service providers is to evolve beyond mobile voice and offer instant and affordable access to people, information, personal resources and media anywhere in the world. This will require a reliable and mature technology that offers a long-term evolutionary path – like CDMA2000®, a 3G technology with more than 575 million subscribers and 328 commercial operators worldwide.

The CDMA community continues to invest in enhancing CDMA2000 to increase its value, performance and competitiveness. CDMA2000 1X is a leader in the industry in delivering 3G communications in terms of voice quality, capacity and affordability. With 1X Advanced, the voice capacity of CDMA2000 1X will increase by a factor of four and the data throughputs and capacity of EV-DO will increase by another factor of four. With these enhancements, 3G CDMA2000 will be able to deliver the performance and user experience that is expected of next-generation technologies.

CDMA2000 ROADMAP



1) Capacity increase is primarily due to new EVRC-B codec, handset interference cancellation (QLIC) and Quasi-Orthogonal Functions (QOF) 2) Capacity increase is primarily due to UL and DL interference cancellation, mobile receive diversity and several radio link enhancements 3) Peak rate for 3 EV-DO carriers with software upgrade. Doubles network capacity or triples peak data speeds 4) Peak rate for 3 EV-DO carriers with hardware upgrade supporting 64 QAM in the DL. Standard supports up to 15 aggregated 1.25 MHz carrier 5) DO Advanced includes smart network techniques, new device enhancements, 2x2 MIMO support, 64 QAM in the DL and 16 QAM in the UL

CDMA2000 OFFERS A LONG-TERM EVOLUTIONARY PATH

CDMA2000 1X enhancements will quadruple CDMA's already-excellent voice capacity. The enhancements, known as 1X Advanced, include a new vocoder, more antennas, interference cancellation, additional Walsh codes and a new radio configuration to add more capacity with less transmit power. The benefits of these spectral efficiency improvements include a lower cost per call, more minutes of use, or the ability to enable unlimited voice offerings. These enhancements also enable operators to tradeoff voice capacity for 70% more coverage or increase broadband revenue by freeing up channels that can be used for broadband data services.

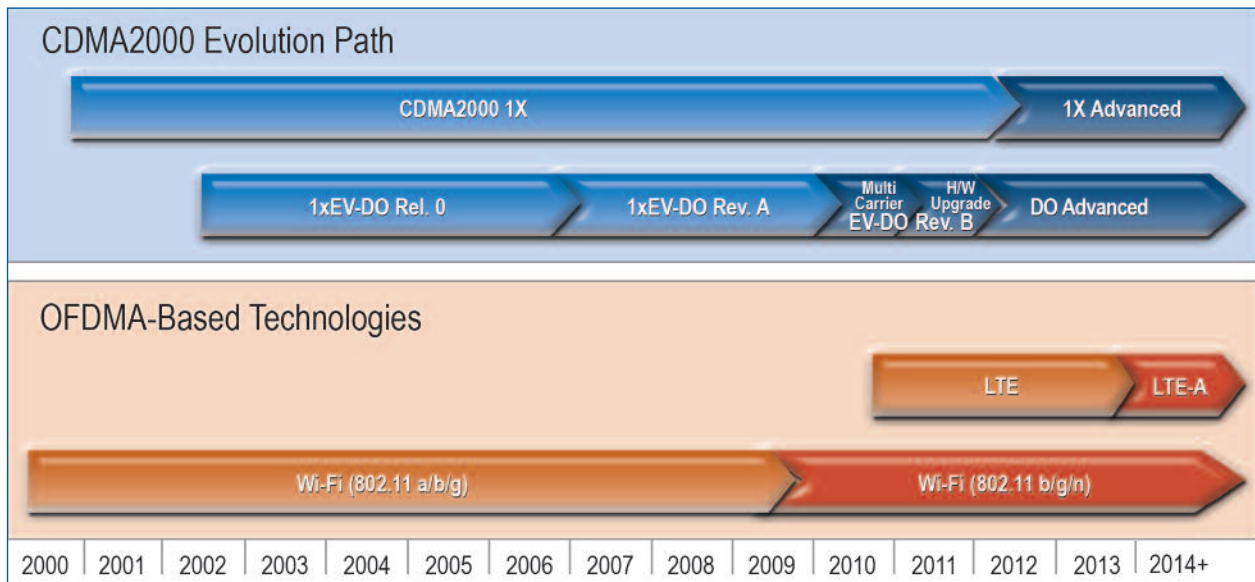
EV-DO will be enhanced via software upgrades to enable spatial diversity, multicarrier operations, network load balancing, distributed network scheduler, adaptive frequency reuse, single carrier multi-link, smart carrier management and other important smart network features. This evolution will increase shareholder value by substantially increasing EV-DO network capacity where and when it is needed in an effective and prudent manner. EV-DO will offer better speeds, increased sector capacity, reduced latency, advanced quality of service features, an IP-based network and backward compatibility, allowing operators to provide more robust mobile broadband Internet access and premium data services to customers.

CDMA2000 WILL COEXIST WITH COMPLEMENTARY OFDMA-BASED SOLUTIONS

CDMA2000 technologies will continue to interoperate and coexist with OFDMA-based solutions such as LTE and Wi-Fi. CDMA2000 will offer global roaming and ubiquitous high-performance mobile broadband and voice services with a defined evolution path, while OFDMA solutions will augment CDMA2000 capacity by leveraging wider-bandwidths in high-teledensity areas where there is a significant demand for broadband connectivity and/or network capacity.

CDMA2000 continues to evolve in a highly-competitive global wireless market. Even as 3G CDMA is augmented by interoperability with wider-bandwidth OFDMA-based solutions, ongoing technology enhancements will ensure CDMA2000 will expand and remain a key source of wireless voice and mobile broadband service revenue in both developed and emerging markets for many years to come.

CDMA2000 AND OFDMA-BASED SOLUTIONS



CDMA2000 can economically fulfill the ever-growing demand for mobile services where and when it is needed on an incremental basis by leveraging existing network assets with existing and/or new devices.