



The Year 2009 in Review

Commemorating the end of 2009, we'd like to share with you some CDMA industry milestones, as well as some CDG initiative updates.

- ✓ 18 new CDMA2000 networks worldwide
- ✓ A total of 308 commercial CDMA2000 operators in 116 countries and territories, including 125 CDMA450 operators in 65 countries
- ✓ 517 million CDMA subscribers, including cdmaOne and CDMA2000 (as of September 2009)
- ✓ 136 million EV-DO subscribers (as of September 2009)
- ✓ Up to 2,320 devices, including 548 1xEV-DO Rel. 0 and 226 1xEV-DO Rev. A devices

CDMA2000® continued its evolution: The CDMA2000 1X Advanced specifications were published by 3GPP2, increasing the voice capacity of CDMA2000 1X by a factor of four in a single 1.25 MHz carrier. Commercial trials of EV-DO Rev. B began with commercial deployments scheduled in 2010 to double network capacity or triple EV-DO Rev. A data rates. The standardization of DO Advanced commenced to further improve the capacity of the EV-DO and enable speeds up to 32 Mbps in the DL and 12.4 Mbps in the UL within 5 MHz spectrum.

In preparation for 4G, the CDG was accepted as a Market Representation Partner (MRP) by 3GPP. Under this strategic marketing partnership, the CDG will work on facilitating the interworking of CDMA2000® and LTE technologies on behalf of the CDMA community.

To further expand the presence of CDMA worldwide, the CDG is working on a number of projects:

CDMA Roaming Hub (CRH): This is a new initiative that makes international voice, SMS, and data roaming easier to implement for operators. The CRH accelerates multi-lateral and multi-service roaming implementations through a centralized third-party service provider. As an alternative to the current bi-lateral roaming implementation model, the CRH allows immediate access to many roaming partners through a single roaming agreement. The CRH will eventually include multi-mode roaming services to allow participating carriers to roam to GSM, WCDMA and 4G networks.

International Roaming Team (IRT): The CRH is the result of the IRT's efforts to facilitate the implementation of international CDMA roaming services. The IRT develops open standards, reference documents and interfaces for CDMA international roaming. The IRT also works with individual carriers to understand and deploy their international roaming infrastructure. In 2010, the IRT will focus on interoperability between CDMA and 4G, the CRH, Financial Clearing House Peering and pre-paid roaming. The next IRT meeting will take place in Cancún, March 2-4, 2010.

Machine-to-Machine (M2M): The CDG recently created a Special Interest Group (SIG) focused on M2M communications, services and devices. The CDG Smart Wireless Modules and Services SIG



will enable its member companies – and their customers in various vertical industries (healthcare, energy, consumer electronics, and logistics) – to leverage the data capabilities of CDMA2000 and its evolution. The SIG will use the CDGs common set of requirements for embedded CDMA2000 devices to make the testing and certification process more open and streamlined across various operators' networks. More info can be found at <http://www.cdg.org/cdg/teams/m2m.asp>.

Global Handset Requirements for CDMA (GHRC): The GHRC team publishes device and application requirements documents to help CDMA2000 operators to procure products and services from their terminal suppliers. These documents form the basis of a common language for identifying CDMA operators' terminal requirements leading to greater economies of scale, while allowing for regional or operator-specific requirements. The next GHRC Meeting will take place in San Diego on January 26-27, 2010, in together with the first **M2M SIG** meeting.

Open Market Handsets (OMH): OMH is another new initiative led by the CDG to increase device variety and enable new channels of distribution. Any CDG-accepted OMH device will operate on any OMH-compliant operator network. This is done by moving all network, service and subscriber provisioning data from the device onto a smart OMH SIM card. OMH SIM cards support a wide range of features including voice, SMS, packet data (1X and EV-DO), MMS, WAP/Browser, BREW, Java, and LBS. OMH allows OEMs to develop full-featured devices that can be sold to any OMH-compliant CDMA operator, regardless of their specific requirements.

All these developments and facts can be found on the CDG's website, www.cdg.org. The website includes industry news, case studies, articles, white papers, presentations, statistics and insights into the achievements of CDMA operators and their partners from around the world. You may also find plenty of compelling information in the latest issue of **Mobile Leader**, which covered the impact of 3G in emerging markets, at http://www.cdg.org/resources/mobile_leader_mag.asp.

If you would like more information about the CDG and its activities, please contact us at cdg@cdg.org.