



EVDO

With technology evolution we are now able to have wireless broadband internet access to our laptop without any need for an internet hotspot. An EVDO Card in our laptop keeps us connected to internet even when we are moving around in a car, train, or boats. EVDO provides personal broadband services to end users via wireless towers. The internet speed with EVDO is faster than other 3G technologies.

The acronym EVDO means Evolution Data Optimized (often abbreviated as EVDO, EV-DO, EvDO, 1xEV-DO or 1xEvDO). Standardized by 3GPP2, EVDO was designed as an evolution of the CDMA2000 (IS-2000) standard that would support high data rates and could be deployed alongside a wireless carrier's voice services. An EVDO channel has a bandwidth of 1.25 MHz, the same bandwidth size that IS-95A (IS-95) and IS-2000 (1xRTT) use [1]. The channel structure, on the other hand, is very different. Additionally, the back-end network is entirely packet-based, and thus is not constrained by the restrictions typically present on a circuit switched network.

The EVDO feature of CDMA2000 networks provides access to mobile devices with forward link air interface speeds of up to 2.4 Mbps with Rev. 0 and up to 3.1 Mbps with Rev. A. The reverse link rate for Rev. 0 can operate up to 153 kbps, while Rev. A can operate at up to 1.8 Mbps [1]. It was designed to be operated end-to-end as an IP based network, and so it can support any application which can operate on such a network and bit rate constraints

Beneficial features

- Broadband wireless services for a variety of people, business people, travelers, students
- Always on (similar to DSL)
- Rides on CDMA signal- 1x data capability available everywhere CDMA voice service is available
- Up to 10 times the peak data rate of the next best public wireless solution - 500 to 1,000 Kbps average (kilobits per second) comparable to DSL speeds [2]
- Allows the end users to be connected wherever they are not only for email, but also for downloads, large files, photos, spreadsheets, etc.
- End users can work on a large variety of applications, including the MS Office Suite and others, so they can do business anywhere! Access mission-critical documents and information wherever you are.
- Works within the users wireless network
- Provides plug and play of business functions, games and Internet access anywhere!
- Always on with seamless roaming within EVDO coverage
- Signal can travel on same cell sites as cell phones
- End users can access their corporate VPN (virtual private network) anywhere they can get a cellular signal via a secure, encrypted signal
- Can download and run video clips in real time
- Can provide service to customers outside of cable-modem or DSL areas
- Relatively low cost with high capacity - allows rich web browsing and application usage

References:

- [1] EVDO study at Wikipedia. URL: http://en.wikipedia.org/wiki/Evolution_Data_Optimized
- [2] Online study at URL: <http://www.evdoinfo.com>