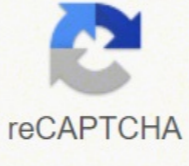




I'm not robot



Next







Yesterday, Sprint and HTC announced the HTC Evo 4G LTE, the latest in the series of Sprint Evo phones. Although the device is largely not exceptional, it simply is a modified version of the HTC One XL that is going to AT&T. There is a particular feature that stands out: HD voice. For the first time in several years, the voice call is getting an update. But what is HD voice and what does it offer? HD Voice is an umbrella term that refers to technologies that improve the quality of an audio call, or the audio portion of a video call. Depending on the calling system being used, HD voice may or may not be available. Most people often experience HD voice when using VoIP platforms like Skype on their computers. However, most people do not consider Skype an HD voice platform because it is not a phone system. With the transition to predominantly digital cellular communication/satellites, as opposed to the traditional terrestrial circuit telecommunication network, HD voice has become possible for telephony. Even better, governments around the world are now considering replacing traditional telecommunication networks with circuits (POTS) with VoIP networks with switching of optical fiber packages. For cellular networks (and possibly cellular satellites), HD voice has been in development since 2000. In the last two years, the specifications for HD voice in CDMA2000, GSM, HSPA+ and LTE were finalized. However, this year, 2011, device manufacturers are finally being offered modem chipsets (from the likes of Qualcomm) that have full support for HD voice. The HD voice on the CDMA2000 requires the upgrade of the 1X carrier to 1X Advanced. This new network infrastructure upgrade increases the capacity and range of a given cell by up to 70%, but, more importantly, extends the 1X channel to about 300Kbps, giving more than enough space to support a new audio codec and high quality. The EVRC-NW (Enhanced Variable Rate Codec - Narrowband/Wideband) codec for CDMA2000 is a redesigned variable rate codec that can scale from the narrowband channel sizes currently supported on the CDMA2000 to the new broadband channel sizes provided on the CDMA2000 1X Advanced. In addition, it is a multi-microphone noise cancellation system to take advantage of the codec. The new codec allows proper encoding of audio in the 50Hz-4KHz range at a sampling rate of 16KHz, as opposed to half of the older codec, only narrowband. In addition, the broadband codec goes up to 7KHz instead of 4KHz, offering slightly better audio recording capabilities. On the GSM side (which includes GSM 2G, HSPA+, and LTE), HD voice is largely an update of the main network. The audio channel for the base stations needs to be extended a bit to space the AMR-WB (Adaptive Multi-Rate Wideband) codec. AMR-WB and EVRC-NW offer widely the same benefits and have the same requirements. However, the HD voice update is easier on the GSM side, since it is not necessary to update the equipment's hardware in the base station/tower. It seems that the CDMA2000 variants and the GSM HD voice family are not interoperable in the foreseeable future, so GSM calls to CDMA phones and vice versa will go down to the narrowband codecs that current interoperability systems support. For CDMA2000 networks, each participant in a call must be connected to a cell system that supports CDMA2000 1X Advanced and each device connected to 1X Advanced cells must have a chipset that supports the 1X Advanced and the new codec (otherwise drops back to the 1X and the older codec). For GSM networks, all devices participating in the call must support the AMR-WB codec. In LTE, HD voice is in fact incorporated into VoLTE, because VoLTE uses AMR-WB. Since the device supports AMR-WB, then the HD voice is possible. The only thing left would be for the network operator to allow HD voice on the network. For networks with (standard phone), HD voice is not yet available. All phone services currently available (including VoIP based services) use narrow band speech codecs, so there is no ability for HD voice. While SIP supports it (and is the basis for voice support back to HD), most wireline networks cap the bandwidth to 12Kbps to prevent many data from passing. Therefore, higher-quality speech codecs cannot be used. Currently, there are no networks in the United States that offer HD voice. The T-Mobile network is technically capable of this, since the new Wi-Fi call feature is the same technology that comes back. However, it is not currently enabled; it will be activated when T-Mobile deploys the LTE. Sprint stated that it will allow it with the upgrade to advanced CDMA2000 1X, but it will probably be more useless by the end of 2013. He will also support the HD voice through coming back next year. No other CDMA carrier will offer HD voice through CDMA2000 1X Advanced. Wireless Verizon and AT&T will support technology with deployment back, but only the wireless Verizon announced plans to support HD voice in the LTE. Sprint can trump the feature all you want, but the HD voice will remain a useless feature that hardly anyone will have the experience by the end of 2013 at the beginning. And yet, almost all subscribers will experience HD voice through LTE, not CDMA2000 1X Advanced. If you want to try out HD voice, try using a computer-based VoIP solution for now. Now.

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