

Mike Kuo

Subject: CDMA 2000 Review guideline provided by FCC

I am looking for some clarifications on CDMA2000 modes that are considered as non-new technology for TCB purposes. As I understand it there are modes of CDMA2000 which are just backward compatible to the original 1.25MHz CDMA modes of IS-2000. Please provide some detailed clarifications of those modes of CDMA2000 that are not considered new technology and those that are considered new technology.

CDMA-2000 is considered new technology. It includes backward compatibility modes for IS-95 within the CDMA-2000 framework. However, the entire IS-2000 framework is considered CDMA-2000 technology as document in the 3GPP2 standards.

I have heard that CDMA2000 1x is all backward compatible and CDMA2000 EVDO is the wider bandwidth signal and is considered new technology by the FCC.

CDMA-2000 is only backward compatible with IS-95 in Radio Configurations (RC) 1 & 2. All other RC's are not IS-95 compatible. For uplink, RC1 – RC4 operate in 1x mode (1.2288 Mcps) and RC4 – RC5 operate in 1x mode (3.6468 Mcps); RC7 is the 1x packet data mode. More RC's are available in the downlink. Ev-Do is the high speed packet data option that operates independently of CDMA-2000, but using CDMA-2000 infrastructures. Ev-Do and Ev-Dv are also deployed according to the 1x (1.2288 Mcps) and 3x (3.6468 Mcps) modes defined by 3GPP2.

Are all the 1.25MHz bandwidth modes of CDMA2000 not considered new technology?

Yes. RC1 – RC2 can be tested according to typical IS-95 requirements, but all other RC's must be tested according to CDMA-2000 requirements. Current network infrastructures have been upgraded to the extent that most, probably all, CDMA handsets would support RC1 – RC4 to enhance service capacity.

Are all the wider bandwidth modes considered new technology?

3x technology has begun to emerge in basestations. It is unclear when 3x (3.6468 Mcps) user terminal devices will appear.

Since we are still working through a range of issues, please contact the Lab for additional guidance. Please send your questions to www.fcc.gov/labhelp.

Thanks,

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Best Regards

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