

Narrowband

In radio communications, a **narrowband** channel is a channel in which the bandwidth of the message does not significantly exceed the channel's coherence bandwidth.

In the study of wired channels, *narrowband* implies that the channel under consideration is sufficiently narrow that its frequency response can be considered flat. The message bandwidth will therefore be less than the coherence bandwidth of the channel. That is, no channel has perfectly flat fading, but the analysis of many aspects of wireless systems is greatly simplified if flat fading can be assumed.

In the audio spectrum narrowband sounds are sounds that occupy a narrow range of frequencies. In telephony, narrowband is usually considered to cover frequencies 300–3400 Hz, i.e. the voiceband.

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Two-way radio narrowband

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Two-way radio narrowband

Two-Way Radio Narrowbanding refers to a U.S. Federal Communications Commission (FCC) Order issued in December 2004 requiring all CFR 47 Part 90 VHF (150-174 MHz) and UHF (421-470 MHz) PLMR (Private Land Mobile Radio) licensees operating legacy wideband (25 kHz bandwidth) voice or data/SCADA systems to migrate to narrowband (12.5 kHz bandwidth or equivalent) systems by January 1, 2013.^[1]

See also

- Broadband
- Electromagnetic interference
- Land mobile service
- Rural internet
- Ultra-wideband
- Wideband

References

1. FCC Order issued in December of 2004 (http://hraunfoss.fcc.gov/edocs_public/attachmatch/FC-C-04-292A1.pdf)

External links

- [FCC website \(http://www.fcc.gov/\)](http://www.fcc.gov/)
 - [FCC Part 90 LMR VHF/UHF Narrowbanding Information and Licensee Resources \(http://www.wirelessradio.net/\)](http://www.wirelessradio.net/)
 - [Narrowbanding Resource Guide for 2013 \(http://www.narrowband.us/\)](http://www.narrowband.us/)
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