

Outline of Proposed Amendment to Ministerial Ordinance

1 Item

Partial amendment of the Ordinance for Enforcement of the Radio Act etc.

2 Scope of the amendment to ministerial ordinance

Ordinance for Enforcement of the Radio Act

Ordinance Regulating Radio Equipment

3 Reasons for amendment

Digital cordless telephones using 1.9GHz band are unlicensed radio system. The self-employed PHS (Personal Handy-phone System) was introduced in 1993, the DECT (Digital Enhanced Cordless Telecommunications) system using wide band was introduced in 2010. The TD-LTE system (same as the sXGP (shared Xtended Global Platform) system.) was introduced in 2017 to meet the diverse usage needs of the IoT society in recent years and TD-LTE system frequency band was increased in 2020.

The DECT system is included in ITU-R Recommendation M. 1457 as the IMT-2000 family. It is widely used in wireless microphone conferencing systems, TV door-phones, baby monitors, etc. in addition to cordless phones, and demand for them has increased.

TD-LTE system is a wireless system using LTE system, and demand has been growing as existing mobile phones can be used. On the other hand, there is a demand for a wider band in order to cope with further large-capacity communications.

At 1.9GHz, all services of Public PHS ended at the end of March 2023.

For more effective use of the 1.9GHz band, Japan will amend the technical regulations for digital cordless telephones using DECT system and TD-LTE system considering these needs.

4 Outline of the amendment

Technical requirements of digital cordless telephones using DECT system and TD-LTE system. (Red underlined characters are amended, other technical requirements are as currently defined.)

	DECT system	TD-LTE system
Carrier Frequency	<u>1885.248MHz, 1886.976MHz, 1888.704MHz, 1890.432MHz, 1892.160MHz, 1893.888MHz.</u> 1895.616MHz, 1897.344MHz, 1899.072MHz, 1900.800MHz, 1902.528MHz, 1904.256MHz	1.4MHz bandwidth system: 1897.4MHz, 1899.2MHz, 1901.0MHz 5MHz bandwidth system: 1891.0MHz, 1899.1MHz, <u>1909.1MHz</u> , 1914.1MHz 10MHz bandwidth system: <u>1911.6MHz</u>
Occupied Bandwidth	1.728MHz	1.4MHz bandwidth system: 1.4MHz 5MHz bandwidth system: 5MHz <u>10MHz bandwidth system: 10MHz</u>
Antenna Power	240mW or less	1.4MHz bandwidth system: 100mW or less 5MHz/ <u>10MHz</u> bandwidth system: Master unit: 200mW or less Slave unit: 100mW or less
Carrier sense (for the protection of speech channel)	-62dBm or less <u>over one frame (10 msec) or more</u>	Below the carrier sense level <u>for one or more frames</u> When each of master units and slave units get carrier sense function: 1.4MHz bandwidth system: -62dBm or less 5MHz/ <u>10MHz</u> bandwidth system: -56dBm or less When only master units get carrier sense function on behalf of slave units 1.4MHz bandwidth system: -68dBm or less 5MHz/ <u>10MHz</u> bandwidth system: -64dBm or less

5 Proposed date of entry into force

August, 2023