

Recommendation T/R 02-02 E (Bonn 1993, revised at Odense 1997)

HARMONISED RADIO FREQUENCY CHANNEL ARRANGEMENTS FOR THE EMERGENCY SERVICES OPERATING IN THE BAND 380-400 MHz

Recommendation proposed by the Working Groups
"Frequency Management" (FM) and "Spectrum Engineering" (SE)

Text of the Recommendation adopted by the "European Radiocommunications Committee" (ERC):

“The European Conference of Postal and Telecommunications Administrations,

considering

1. that there is a need for interoperability between emergency services, which include police, security, customs, fire and ambulance, both nationally and for cross-border operations,
2. that a requirement for international radio network has also been identified for these services,
3. that in the interest of efficient spectrum usage a single frequency bands is desirable,
4. that a single European frequency band would ease the adoption of a single European equipment standard leading to a economies of scale in equipment manufacture,
5. that a total spectrum requirement in the region of 2 x 3 MHz to 2 x 5 MHz has been identified as meeting the requirements of most countries for this purpose,
6. that at this stage a common frequency band at VHF or above 400 MHz could be not identified as these bands are intensively used in most countries by different services,
7. that a frequency band above 800 MHz would be neither technically nor economically suitable for the type of operation envisaged,
8. that frequencies would not be required in most countries until about 1996-2000,
9. that to guarantee efficient use of the spectrum there is a need to harmonise the use of frequencies for the emergency services in all CEPT countries,

noting

1. that the primary requirement is to accommodate the police, security and customs services but that many Administrations may also want to include the needs of the fire and ambulance services,
2. that in many countries these different services currently operate independently in different frequency bands,
3. that the use of a harmonised frequency band for the emergency services would release spectrum in the other bands,
4. that ERC Decision ERC/DEC/(96)01 of 7 March 1996 designates the bands 380-385 MHz and 390-395 MHz as harmonised frequency bands for the introduction of the Digital Land Mobile Service for the emergency services,

recommends

1. that, where possible, a common core band be identified to aid interoperability,
2. that the equipment standard, together with *recommends* 3, 4 and 5 concerning the use of the frequencies, should provide for operation across the whole 380-400 MHz frequency band,
3. that the frequency band 380-385 MHz shall be used as the mobile station transmitting band and the frequency band 390-395 MHz as the base station transmitting band,
4. that the centre frequencies shall be derived as follows:

$$fn = 380.0000 + (nxW) - W/2 \text{ MHz,}$$

$$fn' = 390.0000 + (nxW) - W/2 \text{ MHz,}$$

where fn and fn' are centre frequencies of the mobile and base station transmitting radio-frequency channels respectively, W is the channel separation in MHz and $n = 1, 2, 3, \dots$,

5. that the frequencies for direct mode (simplex) operation can be chosen from both of the frequency bands 380-385 MHz and 390-395 MHz.”