

ANNEX

Conditions to be met by a system providing MCV services in the territorial seas of the Member States of the European Union, in order to avoid harmful interference to land-based mobile networks

The following conditions shall be met:

1. the system providing MCV services shall not be used closer than 2 nautical miles⁽¹⁾ from the baseline, as defined in the United Nations Convention on the Law of the Sea;
2. only indoor vessel-BS antenna(s) shall be used between 2 and 12 nautical miles from the baseline;
3. limits to be set for mobile terminals when used on board vessel and for vessel-BS:

Parameter	Description
Transmit power/power density	For mobile terminals used on board vessels and controlled by the vessel-BS in the 900 MHz band, maximum radiated output power: 5 dBm
	For mobile terminals used on board vessels and controlled by the vessel-BS in the 1 800 MHz band, maximum radiated output power: 0 dBm
	For base stations on board vessels, the maximum power density measured in external areas of the vessel, with reference to a 0 dBi measurement antenna gain: – 80 dBm/200 kHz
Channel access and occupation rules	Techniques to mitigate interference that provide at least equivalent performance to the following mitigation factors based on GSM standards shall be used: — between 2 and 3 nautical miles from the baseline, the receiver sensitivity and the disconnection threshold (ACCMIN ^a and min RXLEV ^b level) of the mobile terminal used on board vessel shall be equal to or higher than – 70 dBm/200 kHz and between 3 and 12 nautical
a	ACCMIN (RX_LEV_ACCESS_MIN); as described in GSM standard ETSI TS 144 018.
b	RXLEV (RXLEV-FULL-SERVING-CELL); as described in GSM standard ETSI TS 148 008.
c	Discontinuous transmission, or DTX; as described in GSM standard ETSI TS 148 008.
d	Timing advance; as described in GSM standard ETSI TS 144 018.

Status: This is the original version (as it was originally adopted).

miles from the baseline
equal to or higher than
– 75 dBm/200 kHz,
discontinuous transmission^c
shall be activated in the MCV
system uplink direction,
the timing advance^d value of
the vessel-BS shall be set to
the minimum.

a ACCMIN (RX_LEV_ACCESS_MIN); as described in GSM standard ETSI TS 144 018.

b RXLEV (RXLEV-FULL-SERVING-CELL); as described in GSM standard ETSI TS 148 008.

c Discontinuous transmission, or DTX; as described in GSM standard ETSI TS 148 008.

d Timing advance; as described in GSM standard ETSI TS 144 018.

- (1) One nautical mile = 1 852 metres.