

Recommendation ERC 21-16 E (Turku 1996, Groningen 1998)

**CONFORMITY ASSESSMENT FOR
LAND MOBILE SATELLITE SERVICE TERMINALS, LMSS**

Recommendation adopted by the Working Group "Radio Regulatory" (WGRR)

INTRODUCTION

It is noted that the equipment covered by this Recommendation is within the scope of Directive 93/97/EEC supplementing Directive 91/263/EEC on the approximation of the laws of the Member States concerning telecommunications terminal equipment, including the mutual recognition of their conformity, in respect of satellite earth station.

Since however a CTR has not been developed for the equipment, the mentioned Directive cannot yet be applied and therefore an interim CEPT conformity assessment procedure has been developed to make mutual recognition of conformity assessment possible, when the equipment complies with the relevant essential requirements.

“The European Conference of Postal and Telecommunications Administrations,

considering

- a) that the LMSS terminals are using the frequency bands 1626.5 MHz - 1645.5 MHz, 1656.5 MHz - 1660.5 MHz and 14.0 GHz - 14.25 GHz (uplink) and 1525.0 MHz - 1544.0 MHz, 1555.0 MHz - 1559.0 MHz and 10.7 GHz - 11.7 GHz or 12.5 GHz - 12.75 GHz (downlink),
- b) that it would be advantageous for CEPT Administrations to have a common approach in harmonisation of the procedures for conformity assessment and marking of LMSS terminals,
- c) that within the EEA countries the LMSS terminals fall within the scope of the EC Directive 91/263/EEC [1] extended by EC Directive 93/97/EEC [2] which cover satellite earth station terminals and that these Directives provide for the testing of compliance with the essential requirements through a Notified Body,
- d) that equipment may at the same time be subject to other regulations outside the scope of this Recommendation (e.g. EMC, electrical safety etc.),
- e) that in the absence of CTRs within the EEA countries, the granting of certificate of conformity is only possible against the relevant essential requirements,
- f) that CEPT administrations permit LMSS terminals to be placed on the market provided that the equipment complies with the relevant essential requirements,
- g) that ETSI report ETR 169, Satellite Earth Stations and Systems (SES); Common Technical Regulations (CTRs) in the Satellite Earth Stations equipment field has defined, except for equipment within the scope of ETS 300 423, the essential requirements for satellite terminal equipment (art. 4e of the Directive 91/263/EEC), see enclosed Annex I,
- h) that the Satellite Earth Station terminals declared to be directly connected to the public network can be required to fulfil the essential requirements for interconnection with PSTN. For these requirements manufacturers have to obtain supplementary certificate of conformity by each CEPT conformity assessment authority. In this case national marking can be required,

recommends

- 1) that CEPT administrations accept the certificate of conformity given by any CEPT conformity assessment authority to equipment in conformance with the requirements in the latest version of the relevant ETS or TBR, as detailed in Annex 1, following type testing at a testing laboratory accredited in accordance with the ISO guide 25 or EN 45001 or a National Standard conforming to ISO guide 25 or EN 45001,
- 2) that LMSS satellite terminal equipment shall bear a mark as specified in Annex II to this Recommendation,
- 3) that, once LMSS satellite terminals have been granted certificate of conformity by any CEPT conformity assessment authority according to the requirements of Recommends 1 and 2 above, no additional conformity assessment information should be required by CEPT administrations except to identify the equipment.

References

- [1] Council Directive 91/263/EEC: "On the approximation of the laws of the Member States concerning telecommunications terminal equipment, including the mutual recognition of their conformity". (The TTE Directive).
- [2] Council Directive 93/97/EEC: "Supplementing Directive 91/263/EEC in respect of Satellite Earth Station equipment". (The SES Directive).

ANNEX 1

REQUIREMENTS FOR LMSS TERMINALS

Requirement title	ETS 300 254 or TBR 026	ETS 300 423 or TBR 044	ETS 300 255 or TBR 027
Unwanted emission outside band	Applicable	Applicable	Applicable
Maximum unwanted emission in-band	Applicable	Applicable	Applicable
Off-axis emission density in the nominated bandwidth	Not applicable	Not applicable	Applicable
Processor monitoring	Applicable	Applicable	Applicable
Transmit subsystem monitoring	Applicable	Applicable	Applicable
Power-on/reset	Applicable	Applicable	Applicable
Control channel reception	Applicable	Applicable	Applicable
Network control commands	Applicable	Applicable	Applicable
Initial burst transmission	Applicable	Applicable	Applicable

All requirements have to be documented in test reports issued by accredited test laboratories.

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ANNEX 2

THE MARKING FOR LAND MOBILE SATELLITE SERVICE TERMINALS, LMSS

The marking shall be placed on the terminal equipment in the following forms:

(CEPT/INMARSAT-C/LM/Y)
(CEPT/INMARSAT-D/LM/Y)¹
(CEPT/INMARSAT-M/LM/Y)
(CEPT/INMARSAT-phone/LM/Y)
(CEPT/EUTELSAT/ET-LM/Y)
(CEPT/EUTELSAT/AS-LM/Y)
(CEPT/EMS-PRODAT/LM/Y)
(CEPT/EMS-MSSAT/LM/Y)

Y is the symbol of the country where the equipment has been given certificate of conformity. This symbol could be followed by the national authorisation number and the year when the certificate of conformity was given.

¹ The Inmarsat-D system embraces receive only and two way terminals, but two way terminals are usually referred to as Inmarsat-D+ terminals.