

Recommendation ERC 21-15 E (Turku 1996, Groningen 1998)**FREE CIRCULATION AND USE OF LAND MOBILE SATELLITE SERVICE TERMINALS
IN EUROPE**

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

INTRODUCTION**1 Definition**

According to the Radio Regulations, the Land Mobile Satellite Service (LMSS) is defined as a space radiocommunications service between mobile earth stations, i.e. earth stations intended to be used while in motion or during halts at unspecified points where the mobile earth stations are located on land, and one or more space stations.

2 Levels of Free Circulation

According to the ERC Decision on free circulation of radio equipment (ERC/DEC/(95)01) three different levels of free circulation were identified:

Level 1 - free circulation without permission to use the radio equipment;

Level 2 - free circulation with permission to use the radio equipment;

Level 3 - free circulation with permission to place the radio equipment on the market.

This Recommendation only relates to levels 1 and 2 of free circulation.

3 Importance of Free Circulation for LMSS

The ERC has decided that one of its policy goals is to provide for the free circulation of radio equipment within CEPT member countries.

Concerning land mobile-satellite communications, the number of users of LMSS terminals increased rapidly in recent years, in particular those used by entities involved in the international transport of goods around Europe.

Subsequently the free border-crossing and use of radio equipment is a fundamental factor to achieve the full development of commercial and industrial activities in CEPT member countries, thereby benefiting the consumers.

Therefore, CEPT member countries have decided to establish regulatory mechanisms in order to enable foreign visitors to carry and use LMSS terminals without requiring a national licence.

The same considerations would also apply to non-CEPT countries who may therefore also want to join in the free circulation arrangements.

4 Need for the Recommendation

In order to enable the free circulation and use of LMSS terminals a number of Recommendations have been adopted in the past.

As a first step T/R 21-07 was introduced. That was a generic Recommendation which could be used for all kinds of systems, but was in reality only used for LMSS.

The procedure of this Recommendation was that a Circulation Card was issued to the holder of the terminal on which it was indicated in which countries the terminal could enter and whether or not it could be used.

Exchanging the required information between the participating administrations, keeping the information on the Circulation Card up to date and issuing the card to all persons requiring it was a lot of work, specially since there was at that moment in time no central office like the ERO which could assist in these procedures.

Therefore subsequently separate Recommendations dealing with Inmarsat-C, EutelTRACS and Inmarsat -M terminals were produced (T/R 31-02, T/R 21-09 and T/R 21-11).

These Recommendations did not require a Circulation Card. A specific mark, which denoted that the terminal complied with the technical requirements of the system operator, was sufficient for free circulation and use.

These last mentioned Recommendations were of a temporary nature. This was a condition for acceptance of the type testing performed by the satellite operators until European standards covering LMSS terminals would have been finalised and accepted.

The Recommendations were valid until end of December 1995.

Although these Recommendations were intended to replace T/R 21-07 and the Circulation Card procedure, there are still many administrations that require a Circulation Card.

In 1995 an ERC Decision on free circulation of radio equipment was adopted (ERC/DEC/(95)01). This Decision covers Inmarsat-C, EutelTRACS and Inmarsat-M terminals and stipulates that the carriage and use of these terminals shall be allowed without requiring any kind of licence or registration in the country visited.

However, since it is expected that the implementation of the Decision requires considerable time and the system specific Recommendations have expired since 01 January 1996, an arrangement safeguarding the free circulation of these terminals until the Decision has been implemented in the vast majority of countries is considered necessary.

When the Decision is implemented by nearly all CEPT countries this Recommendation might be reconsidered or used primarily for non-CEPT countries.

5 Procedure of the Recommendation

Since - as mentioned above - many administrations still require a Circulation Card, this Recommendation provides the facility for administrations, either to require a Circulation Card or to allow the free circulation and use (level 2) on the basis of an appropriate CEPT marking of the equipment.

The terminals should in any case conform to the relevant ETSI standards.

It is however obvious that free circulation and use (level 2) on the basis of marking alone is the preferred option, since it minimizes the administrative burden on users, operators and administrations.

In fact, it is desirable to abandon the Circulation Cards scheme in the future due to the practical and administrative difficulties that it implies and allow the free circulation and use (level 2) solely on the basis of an appropriate CEPT marking affixed on the equipment.

Therefore and in order to achieve the above-mentioned objective, this recommendation should be reviewed

within three years.

The CEPT marking as defined in this Recommendation enables the free circulation and use (level 2) of terminals by visitors from other countries.

This Recommendation does not affect the conformity assessment procedures and the relevant marking regulations within the EEA, specially those emerging from the EC Directive 91/263/EEC extended by the EC Directive 93/97/EEC which cover Satellite Earth Station terminals.

ERO will register and update the information from all CEPT countries whether free circulation is based on the marking system or if, in addition, the Circulation Card is required. If necessary, the administrations should upon request enable LMSS users in their respective country to be issued with the circulation cards.

Non-CEPT administrations who want to join the free circulation system shall apply to the CEPT for participation. When the application is accepted the ERO shall include the relevant information in a list in accordance with the Appendix II to this Recommendation.

The European Conference of Postal and Telecommunications Administrations,

considering

- a) that several systems offering communications services using voice and/or data transmissions have been introduced as a Land Mobile Satellite Service (LMSS) in Europe;
- b) that some of these systems provide interconnection with a public telecommunications network;
- c) that it is desirable for administrations to have common regulations at their disposal, concerning the marking and free circulation and use of LMSS terminals;
- d) that LMSS terminals are required to meet the standards of technical performance as specified in annexes 1 to 8 of this Recommendation;
- e) that if new LMSS systems emerge, the relevant new Annexes can be added into this recommendation;
- f) that this recommendation relates only to the carriage and use of LMSS terminals by foreign visitors during their temporary stay, and does not cover the mutual recognition of type approval and/or placing on the market;
- g) that the band 1660-1660.5 MHz is allocated to mobile satellite service (earth-to-space) and radio astronomy service on a primary basis whereas No. S.5.376A¹ of the Radio Regulations specifies that mobile earth stations in the band 1660-1660.5 MHz shall not cause harmful interference to stations of the radio astronomy service;

recommends

- 1) that administrations allow the free circulation and use of the LMSS terminals which have been marked in accordance with the annexes 1 to 8, for foreign visitors during their temporary stay, without requiring a national licence;
- 2) that administrations allow on a reciprocal basis the free circulation and use of LMSS terminals authorised by a non-CEPT administration that participates in the arrangement of this Recommendation in accordance with Appendix III;
- 3) that whenever the free circulation and use cannot be allowed solely on the basis of the mark, administrations can require the user of equipment to carry a CEPT circulation card in accordance with Appendix I;
- 4) that administrations implementing this Recommendation inform their customs authorities of the procedures contained in this Recommendation;
- 5) that administrations notify to the ERO in the form described in Appendix IV the free circulation arrangements they have made;
- 6) that ERO publishes and updates this information in the form described in Appendix II;
- 7) that administrations, not being members of CEPT, accepting the provisions of this Recommendation, may apply for participation in accordance with the procedure in Appendix III;

¹ No. S.5.376A will only enter into force on 1 January 1999

- 8) that the procedure in handling applications from non-CEPT countries shall be as described in Appendix III;
- 9) that ERO publishes and updates the information of non-CEPT countries joining this Recommendation, in the form described in Appendix II.

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ANNEX 1

Inmarsat-C

a) New Inmarsat-C terminals

Free circulation and use should be allowed for terminals fulfilling the requirements of the ETS 300 254 or the TBRS covering Satellite Earth Stations, Land Mobile Earth Stations providing low bit rate data communications and capable of operating in the frequency bands 1525-1559 MHz (space-to-earth) and 1626.5-1660.5 MHz (earth-to-space) under the control of the satellite system.

The marking shall be an easily visible mark, placed on the Inmarsat-C terminals in the following form:

CEPT/INMARSAT-C/LM/Y

Y is the symbol of the country where the equipment has met the relevant conformity assessment procedures.

b) Old Inmarsat-C terminals

In case of equipment that has been taken into use prior to the introduction of this Recommendation, free circulation should be allowed for terminals fulfilling the requirements of module 4 of the Inmarsat-C System Definition Manual (SDM).

This equipment shall be marked with the Inmarsat logo followed by the Inmarsat type testing certificate number in the following form:

INMARSAT-C/LM/...

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ANNEX 2

Inmarsat-M

a) New Inmarsat-M terminals

Free circulation and use should be allowed for terminals fulfilling the requirements of the ETS 300 423 or the TBRs covering Satellite Earth Stations, Land Mobile Earth Stations providing voice and data communications and capable of operating in the frequency bands 1525-1559 MHz (space-to-earth) and 1626.5-1660.5 MHz (earth-to-space) under the control of the satellite system.

The marking shall be an easily visible mark, placed on the Inmarsat-M terminals in the following form:

CEPT/INMARSAT-M/LM/Y

Y is the symbol of the country where the equipment has met the relevant conformity assessment procedures.

b) Old Inmarsat-M terminals

In case of equipment that has been taken into use prior to the introduction of this Recommendation, free circulation should be allowed for terminals fulfilling the standards of technical performance as described in Module 2, Part 1 of the Inmarsat-M System Definition Manual (SDM) November, 1991.

This equipment shall be marked with the Inmarsat logo followed by the Inmarsat type testing certificate number in the following form:

INMARSAT-M/LM/...

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ANNEX 3

Eutelsat/Euteltracs

a) New Eutelsat/Euteltracs terminals

Free circulation and use should be allowed for terminals fulfilling the requirements of the ETS 300 255 or the TBRs covering Satellite Earth Stations, Land Mobile Earth Stations providing low bit rate data communications and capable of operating in the frequency bands 10.70 -11.70 GHz (space-to earth), 12.50-12.75 GHz (space-to-earth) and 14.0 -14.25 GHz (earth-to-space) under the control of the satellite system.

The marking shall be an easily visible mark, placed on the terminals in the following form:

CEPT/EUTELSAT/ET-LM/Y

Y is the symbol of the country where the equipment has met the relevant conformity assessment procedures.

b) Old Eutelsat/Euteltracs terminals

In case of equipment that has been taken into use prior to the introduction of this Recommendation, free circulation should be allowed for terminals fulfilling the standards of technical performance as described in Eutelsat document "OmniTRACS Mobile Communications Terminal Technical Definition for the EUTELTRACS System, Version ET-1.3".

This equipment shall be marked with the EUTELSAT logo and the EUTELSAT type testing certificate number in the following form:

EUTELSAT/ET-LM/...

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ANNEX 4

Inmarsat-D²

Free circulation and use should be allowed for terminals fulfilling the requirements of the ETS 300 254 or the TBRs covering Satellite Earth Stations, Land Mobile Earth Stations providing low bit rate data communications and capable of operating in the frequency bands 1525-1559 MHz (space-to-earth) and 1626.5-1660.5 MHz (earth-to-space) under the control of the satellite system.

The marking shall be an easily visible mark, placed on the Inmarsat-D terminals in the following form:

CEPT/INMARSAT-D/LM/Y

Y is the symbol of the country where the equipment has met the relevant conformity assessment procedures.

² The Inmarsat-D system embraces receive only and two way terminals, but two way terminals are usually referred to as Inmarsat-D+ terminals.

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ANNEX 5

Inmarsat-phone (also known as Inmarsat Mini-M)

Free circulation and use should be allowed for terminals fulfilling the requirements of the ETS 300 423 or the TBRs covering Satellite Earth Stations, Land Mobile Earth Stations providing voice and data communications and capable of operating in the frequency bands 1525-1559 MHz (space-to-earth) and 1626.5-1660.5 MHz (earth-to-space) under the control of the satellite system.

The marking shall be an easily visible mark, placed on the Inmarsat-phone (also known as Inmarsat mini-M) terminals in the following form:

CEPT/INMARSAT-phone/LM/Y

Y is the symbol of the country where the equipment has met the relevant conformity assessment procedures.

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ANNEX 6

European Mobile System (EMS) - PRODAT

Free circulation and use should be allowed for terminals fulfilling the requirements of the ETS 300 254 or the TBRS covering Satellite Earth Stations, Land Mobile Earth Stations providing low bit rate data communications and capable of operating in the frequency bands 1525-1559 MHz (space-to-earth) and 1626.5-1660.5 MHz (earth-to-space) under the control of the satellite system.

The marking shall be an easily visible mark, placed on the EMS-PRODAT terminals in the following form:

CEPT/EMS-PRODAT/LM/Y

Y is the symbol of the country where the equipment has met the relevant conformity assessment procedures.

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ANNEX 7

EMS-MSSAT

Free circulation and use should be allowed for terminals fulfilling the requirements of the ETS 300 423 or the TBRs covering Satellite Earth Stations, Land Mobile Earth Stations providing voice and data communications and capable of operating in the frequency bands 1525-1559 MHz (space-to-earth) and 1626.5-1660.5 MHz (earth-to-space) under the control of the satellite system.

The marking shall be an easily visible mark, placed on the EMS-MSSAT terminals in the following form:

CEPT/EMS-MSSAT/LM/Y

Y is the symbol of the country where the equipment has met the relevant conformity assessment procedures.

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ANNEX 8

Eutelsat/ARCANET Suitcase Terminals

Free circulation and use should be allowed for terminals fulfilling the requirements of the ETS 300 255 or the TBRs covering Satellite Earth Stations, Land Mobile Earth Stations providing digital voice and data communications and capable of operating in the frequency bands 11.45 -11.70 GHz (space-to earth), 12.50-12.75 GHz (space-to-earth) and 14.0 -14.25 GHz (earth-to-space) under the control of the satellite system.

The marking shall be an easily visible mark, placed on the terminals in the following form:

CEPT/EUTELSAT/AS-LM/Y

Y is the symbol of the country where the equipment has met the relevant conformity assessment procedures.

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APPENDIX I

The CEPT circulation card should be drafted in English. If necessary, Administrations should upon request enable LMSS users in their respective countries to be issued with the appropriate CEPT circulation cards.

The CEPT circulation card should take the following form:

Administration of issue
CEPT/ERC

OFFICIAL CIRCULATION CARD
FOR A LAND MOBILE SATELLITE SERVICE TERMINAL
based on CEPT/ERC/REC 21-15

This Official Circulation Card is based on CEPT/ERC/REC 21-15.

The holder of this card carries a Land Mobile Satellite Service (LMSS) terminal equipment. A number of administrations have agreed to allow the free border crossing and use of LMSS terminals for foreign visitors.

The holder of this card is recommended to obtain from the ERO the list of countries allowing the free circulation and use of LMSS terminals. The holder is recommended to attach this list to the Circulation Card. The updated list is available in the following address:

European Radiocommunications Office (ERO)
Address: Midtermolen 1, DK-2100 Copenhagen
Telephone: + 45 35 25 03 00
Telefax: + 45 35 25 03 30
E- mail: ero@ero.dk
Web Site: <http://www.ero.dk>

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APPENDIX II

National free circulation arrangements

CEPT Yes/No	Co unt ry	Inmarsat-C	Inmarsat -D	Inmarsat -M	Inmarsat- phone	Eutelsat Euteltracs	EMS PRODAT	EMS MSSAT	Eutelsat ARCANET

The table should be completed for each type of equipment with the number from the list below corresponding to the regulations in each country.

- Administration allows the free circulation (border crossing) and use of the equipment marked in the following form:

Inmarsat-C terminals: CEPT/INMARSAT-C/LM/Y or INMARSAT-C/LM/..;
 Inmarsat-D terminals: CEPT/INMARSAT-D/LM/Y;
 Inmarsat-M terminals: CEPT/INMARSAT-M/LM/Y or INMARSAT-M/LM/..;
 Inmarsat-phone (also known as Inmarsat Mini-M) terminals: CEPT/INMARSAT-phone/LM/Y;
 Eutelsat/Euteltracs terminals: CEPT/EUTELSAT/ET-LM/Y or EUTELSAT/ET-LM/..;
 EMS-PRODAT terminals: CEPT/EMS-PRODAT/LM/Y;
 EMS-MSSAT terminals: CEPT/EMS-MSSAT/LM/Y;
 Eutelsat/ARCANET Suitcase Terminals: CEPT/EUTELSAT/AS-LM/Y

Y is the symbol of the country where the equipment has met the relevant conformity assessment procedures.

- Administration allows the free circulation and use of the equipment but requires the user to carry a CEPT circulation card in accordance with Appendix I;
- Administration allows the free circulation but not the use of the equipment marked in accordance with the form described in 1 above;
- Administration allows the free circulation but not the use of the equipment and requires the user to carry a CEPT circulation card in accordance with Appendix I;
- Neither free border crossing nor the use of the equipment is possible unless a national authorization is obtained from the country visited.

Note: The actual table can be obtained from the European Radiocommunications Office (ERO)
 Midtermolen 1, DK-2100 Copenhagen.
 Telephone: +45 35 25 03 00
 Telefax: +45 35 25 03 30
 E-mail: ero@ero.dk

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APPENDIX III

PARTICIPATION OF A NON-CEPT ADMINISTRATION IN THE CEPT ARRANGEMENT CONCERNING FREE CIRCULATION AND USE OF LMSS TERMINALS ACCORDING TO THIS RECOMMENDATION

1 APPLICATION

- 1.1 Administrations, not being members of CEPT, may apply to the CEPT for participation in the marking and free circulation and use of LMSS equipment regulated by this Recommendation. Applications should be addressed to CEPT European Radiocommunications Committee (ERC), through the European Radiocommunications Office (ERO), (see Appendix I).

A non-CEPT Administration in joining this Recommendation enters into co-operation with all countries having implemented this Recommendation or implementing it in the future.

- 1.2 The application shall include the wish of the non-CEPT administration to participate in the procedures of this Recommendation and the information mentioned in Appendix IV.

2 PROCEDURES OF APPLICATION

- 2.1 The ERO shall circulate the application of a non-CEPT administration to all CEPT administrations, indicating the compliance of the application with the requirements of this Recommendation.

The ERO shall also include a recommendation concerning the approval to be given. This recommendation should normally be given within two weeks from the date of application.

- 2.2 CEPT administrations will, within a period of six weeks, notify to the ERO their agreement or disagreement with the proposal. This message shall also include, if so required by the administration concerned, the need for a separate bilateral agreement with the applying administration concerning the implementation of this Recommendation.

- 2.3 CEPT administrations, which have implemented this Recommendation and have not replied within the time set in 2.2 will be assumed by the ERO to have accepted this application.

- 2.4 The ERO will inform the CEPT administrations and the administration of the applying non-CEPT administration on the results of the consultation.

- 2.5 The list of those countries which have implemented this Recommendation will be based on the information contained in the last version of the document concerning implementation of the T/R Recommendations and ERC Recommendations.

- 2.6 A CEPT administration requiring a separate bilateral agreement to apply this Recommendation with another non-CEPT administration, shall indicate this in a footnote in the table presented in Appendix II.

- 2.7 A non-CEPT administration requiring a separate bilateral agreement to apply this Recommendation with another non-CEPT administration, shall indicate this in a footnote in the table presented in Appendix II.

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APPENDIX IV

Notification to the ERO
on free circulation arrangements for LMSS terminals
(see recommends 5 of this Recommendation)

1 Inmarsat-C terminals

- 1.1 **may be carried and used:**
 - marking is sufficient.
 - CEPT circulation card required.
- 1.2 **may be carried but not used:**
 - marking is sufficient.
 - CEPT circulation card required.
- 1.3 **may neither be carried nor used without national authorization.**

2 Inmarsat-D terminals

- 2.1 **may be carried and used:**
 - marking is sufficient.
 - CEPT circulation card required.
- 2.2 **may be carried but not used:**
 - marking is sufficient.
 - CEPT circulation card required.
- 2.3 **may neither be carried nor used without national authorization.**

3 Inmarsat-M terminals

- 3.1 **may be carried and used:**
 - marking is sufficient.
 - CEPT circulation card required.
- 3.2 **may be carried but not used:**
 - marking is sufficient.
 - CEPT circulation card required.
- 3.3 **may neither be carried nor used without national authorization.**

4 Inmarsat- phone (also known as Inmarsat Mini-M) terminals

- 4.1 **may be carried and used:**
 - marking is sufficient.
 - CEPT circulation card required.
- 4.2 **may be carried but not used:**
 - marking is sufficient.
 - CEPT circulation card required.
- 4.3 **may neither be carried nor used without national authorization.**

5 Eutelsat/Euteltracs terminals

- 5.1 **may be carried and used:**
 - marking is sufficient.
 - CEPT circulation card required.

- 5.2** () **may be carried but not used:**
() marking is sufficient.
() CEPT circulation card required.
- 5.3** () **may neither be carried nor used without national authorization.**

6 EMS-PRODAT terminals

- 6.1** () **may be carried and used:**
() marking is sufficient.
() CEPT circulation card required.
- 6.2** () **may be carried but not used:**
() marking is sufficient.
() CEPT circulation card required.
- 6.3** () **may neither be carried nor used without national authorization.**

7 EMS-MSSAT terminals

- 7.1** () **may be carried and used:**
() marking is sufficient.
() CEPT circulation card required.
- 7.2** () **may be carried but not used:**
() marking is sufficient.
() CEPT circulation card required.
- 7.3** () **may neither be carried nor used without national authorization.**

8 Eutelsat/ARCANET suitcase terminals

- 8.1** () **may be carried and used:**
() marking is sufficient.
() CEPT circulation card required.
- 8.2** () **may be carried but not used:**
() marking is sufficient.
() CEPT circulation card required.
- 8.3** () **may neither be carried nor used without national authorization.**

The national customs authorities have been informed of the implementation of the Recommendation:
yes () **not yet** ()

(Any special conditions)

The responsible authority and contact for enquiries concerning the free circulation and use of LMSS terminals is:

European Radiocommunications Office (ERO)
Address: Midtermolen 1, DK-2100 Copenhagen
Telephone: + 45 35 25 03 00
Telefax: + 45 35 25 03 30
E- mail: ero@ero.dk
Web Site: <http://www.ero.dk>