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Satelitske zemeljske postaje in sistemi (SES) - Sprejemni satelitski terminali z manjġo anteno (VSATs) za frekvenļ ni pas 4 GHz

Satellite Earth Stations and Systems (SES); Receive-only Very Small Aperture Terminals (VSATs) operating in the 4 GHz frequency band

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Contents

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Foreword

This second edition European Telecommunication Standard (ETS) has been produced by the Satellite Earth Stations and Systems (SES) Technical Committee of the European Telecommunications Standards Institute (ETSI).

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1 Scope

This European Telecommunication Standard (ETS) provides specifications for the standardization of the characteristics of receive-only Very Small Aperture Terminals (VSATs) operating as part of a satellite network (e.g. star, meshed or point-to-point) used for the distribution of information.

These VSATs have the following characteristics:

- operating in the shared part of the C-band allocated to the Fixed Services (FS) and to the Fixed Satellite Services (FSS), 3,400 GHz to 4,200 GHz (space-to-earth);

- in this frequency band circular and linear polarization are used;

  the VSAT operates through geostationary satellites at least 3° away from any other geostationary satellite operating in the same frequency band and covering the same area;

- designed usually for unattended operation;

- antenna diameter not exceeding 7,3 m, or equivalent corresponding effective area.

The equipment considered in this ETS comprises both the "outdoor unit", usually composed of the antenna sub-system and associated Low Noise Block (LNB), and the "indoor unit" composed of the remaining part of the communication chain, including the cable between these two units.

This ETS applies to the VSAT with its ancillary equipment and its various terrestrial ports, and operated under the conditions which are within the ranges of humidity, temperature and supply voltage declared by the manufacturer.

There are no EMC specifications under this ETS, however ETS 300 673 [2] contains the EMC specifications for VSATs.

This ETS does not contain any specification or information on the installation of the VSATs.

The specifications have been selected to ensure an adequate level of compatibility for VSATs. The levels, however, do not cover extreme cases which may occur in any location but with a low probability of occurrence. In such a case it may be necessary to use special protection applied to either the source of interference, or the interfered part or both.

This ETS deals with two types of specification:

- specifications defined in order to protect other users of the frequency spectrum, both satellite and terrestrial, from unacceptable interference. In addition, these specifications are specified for the purposes of structural safety and lightning protection as well as protection from harmful interference;

- specifications related to characteristics which contribute to the quality of reception by providing the VSAT with a minimum interference protection from other radio systems. These specifications apply if required by the manufacturer.