



SLOVENSKI STANDARD

SIST ETS 300 160 E1:2006

01-februar-2006

Satelitske zemeljske postaje in sistemi (SES) – Krmilne in nadzorne funkcije satelitskega terminala z zelo majhno antensko odprtino (VSAT)

Satellite Earth Stations and Systems (SES); Control and monitoring functions at a Very Small Aperture Terminal (VSAT)

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ICS:

33.060.30	Radiorelejni in fiksni satelitski komunikacijski sistemi	Radio relay and fixed satellite communications systems
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ETS 300 160

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Foreword

This European Telecommunication Standard (ETS) has been produced by the Satellite Earth Stations (SES) Technical Committee of the European Telecommunications Standards Institute (ETSI), and, has undergone the ETSI standards approval procedure in Public Enquiry 20 and Vote 25.

Every ETS approved by ETSI is a voluntary standard. This ETS may contain text concerning type approval of the equipment to which it relates. This text should be considered as guidance only and does not make this ETS mandatory.

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1 Scope

This European Telecommunication Standard (ETS) is applicable to two-way (transmit and receive) Very Small Aperture Terminal (VSAT) satellite earth stations operating in the framework of a satellite network for digital communication purposes as defined in ETS 300 159 [1]. In these networks there is a set of control and monitoring functions at each VSAT and a separate set of Centralised Control and Monitoring Functions (CCMF). The control and monitoring functions are designed to limit interferences to users of the frequency spectrum due to a fault condition at the VSAT. This ETS is applicable to VSATs operating in any network configuration including star, mesh and point to point connections.

This ETS defines the requirements for the control and monitoring functions in a VSAT and is only applicable to the satellite access subsystem of the VSAT. ETS 300 161 [2] contains requirements for the Centralised Control and Monitoring Functions (CCMF).

This ETS does not include any requirement, recommendation or information about the installation of the VSAT.

2 Normative references

This ETS incorporates by dated or undated references, provisions from other publications. These applicable references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to, or revisions of any of these publications apply to this ETS only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

- [1] ETS 300 159: "Satellite Earth Stations (SES); Transmit/receive Very Small Aperture Terminals (VSATs) used for data communications operating in the Fixed Satellite Service (FSS) 11/12/14 GHz frequency bands".
- [2] ETS 300 161: "Satellite Earth Stations (SES); Centralised control and monitoring functions for VSAT networks".

3 Definitions

The VSATs which are the subject of this ETS, are designed for unattended operation and with transmission capability limited to baseband digital signals. Transmission and reception at a VSAT relate to transmission and reception over the satellite.

CCMF constitute a set of functional entities that, at system level, monitor and control the correct operation of all VSATs in a system.

Control channel(s): a channel or channels by which VSATs receive control information from the CCMF.