

SLOVENSKI STANDARD SIST ETS 300 160 E2:2006

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

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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).

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.

Transposition dates				
Date of adoption	20 December 1996			
Date of latest announcement of this ETS (doa):	30 April 1997			
Date of latest publication of new National Standard or endorsement of this ETS (dop/e):	31 October 1997			
Date of withdrawal of any conflicting National Standard (dow):	31 October 1997			

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1 Scope

This second edition European Telecommunication Standard (ETS) is applicable to two-way (transmit and receive) as well as transmit-only 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] and ETS 300 332 [3]. In these networks there is a set of control and monitoring functions at each VSAT and a separate set of Centralized 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 specifies the control and monitoring functions of a VSAT. ETS 300 161 [2] specifies the CCMF.

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 network.

This ETS does not include any specification or information about the installation of the VSAT.

2 Normative references

This ETS incorporates by dated or undated references, provisions from other publications. These normative 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.

	(Statical astronomy
[1]	ETS 300 159: "Satellite Earth Stations and Systems (SES); Transmit/receive
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	Very Small Aperture Terminals (VSATs) used for data communications
	very official periode (vonta) used for data confindingations
	operating in the Fixed Catallite Carving (ESC) 11/12/14 CHz frequency bands"
	operating in the Fixed Satellite Service (FSS) 11/12/14 GHz frequency bands".
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- [2] ETS 300 161: "Satellite Earth Stations and Systems (SES); Centralized control and monitoring functions for VSAT networks".
- [3] ETS 300 332: "Satellite Earth Stations and Systems (SES); Transmit/receive Very Small Aperture Terminals (VSATs) used for data communications operating in the Fixed Satellite Service (FSS) 6 GHz and 4 GHz frequency bands".

3 Definitions

For the purpose of this ETS, the following definitions apply:

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

Response Channel(s): A channel or channels by which VSATs transmit monitoring information to the CCMF.

network: In this ETS a network is any network configuration including star, mesh and point-to-point configurations.

internal control channel: A control channel which is carried by the VSAT network via the same satellite as used for transmission of user data and within the internal protocol structure of the VSAT system.

external control channel: A control channel which is either (i) carried by the VSAT network via the same or another satellite, but not within the internal protocol structure of the VSAT system, or (ii) carried by the PSTN or some other means.