



# SLOVENSKI STANDARD SIST ETS 300 161 E1:2006

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**Satelitske zemeljske postaje in sistemi (SES) – Centralne krmilne in nadzorne funkcije za omrežja VSAT**

Satellite Earth Stations (SES) – Centralised control and monitoring functions for VSAT networks

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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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## 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 prepared 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 only as guidance and does not make this ETS mandatory.

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## 1 Scope

This European Telecommunication Standard (ETS) defines the requirements for two-way Very Small Aperture Terminals (VSATs) operating in the framework of a satellite network for digital communications purposes. 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 a VSAT.

ETS 300 160 [2] defines the requirements for the control and monitoring functions in a VSAT as defined in ETS 300 159 [1]. These control and monitoring functions are only applicable to the satellite access subsystem of the VSAT.

This ETS contains the requirements for the CCMF.

NOTE: The use of the term "centralised" does not imply any particular topology VSAT system. It refers to the fact that functions are implemented at system level and not in every one 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.

[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 300 160: "Satellite Earth Stations (SES); Control and monitoring functions at a VSAT".

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## 3 Definitions

The CCMF which are the subject of this ETS constitute the set of functional entities that, at system level, monitor and control the correct operation of all VSATs in a system.

The VSAT system subject to this ETS is 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.

**Control channel(s):** channel or channels by which VSATs receive control information from the CCMF. The control channel(s) shall be carried by the same satellite in which the system operates.

## 4 Abbreviations

For the purpose of this ETS, the following abbreviations apply.

CCD	Central Control Disable
CCE	Central Control Enable
CCMF	Centralised Control and Monitoring Functions
VSAT	Very Small Aperture Terminal