

Fundamentals of Vsat Installation

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Abstract:- Satellites for communication services have evolved quite significantly in size and power since the launch of the first commercial satellites in 1965. This has permitted a consequent reduction in the size of earth stations, and hence their cost, with a consequent increase in number. Small stations, with antennas in the order of 1.2–1.8 m, have become very popular under the acronym VSAT, which stands for 'Very Small Aperture Terminals'. Such stations can easily be installed at the customer's premises and, considering the inherent capability of a satellite to collect and broadcast signals over large areas, are being widely used to support a large range of services. Examples are broadcast and distribution services for data, image, audio and video, collection and monitoring for data, image and video, two-way interactive services for computer transactions, data base inquiry, internet access and voice communications. This work will give brief summary of the installation process of VSAT.

Keywords:- VSAT, Networks, Computers, Antenna, Modems, Receiver, Transmitter, etc.

I. INTRODUCTION

VSAT, now a well established acronym for Very Small Aperture Terminal, was initially a trademark for a small earth station marketed in the 1980s by Telecom General in the USA. Its success as a generic name probably comes from the appealing association of its first letter V, which establishes a 'victorious' context, or may be perceived as a friendly sign of participation, and SAT which definitely establishes some reference to satellite communications.

The use of the word 'terminal' which appears in the clarification of the acronym will be replaced by 'earth station', or station for short, which is the more common designation in the field of satellite communications for the equipment assembly allowing reception from or transmission to a satellite. The word *terminal* will be used to designate the end user equipment (telephone set, facsimile machine, television set, computer, etc.) which generates or accepts the traffic that is conveyed within VSAT networks.

This complies with regulatory texts, such as those of the International Telecommunications Union (ITU), where for instance equipment generating data traffic, such as computers, are named 'Data Terminal Equipment' (DTE).

VSATs are one of the intermediary steps of the general trend in earth station size reduction that has been observed in satellite communications since the launch of the first communication satellites in the mid 1960s. Indeed, earth stations have evolved from the large INTELSAT Standard A earth stations equipped with antennas 30 m wide, to today's receive-only stations with antennas as small as 60 cm for direct reception of television transmitted by broadcasting satellites, or hand held terminals for radiolocation such as the Global Positioning System (GPS) receivers. Present day hand held satellite phones (IRIDIUM, GLOBALSTAR) are pocket size. Therefore, VSATs are at the lower end of a product line which offers a large variety of communication services.

VSAT Equipment Components

The three major components are the antenna, the transceiver and the modem.

The VSAT Antenna



Modelin 2.4 transmit/receive

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Gerard Maral



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VSAT Networks Gerard Maral, 2004-04-02 VSAT Networks Second Edition covers all the important issues involved with the installation of VSAT systems Since the first edition was published the VSAT market has continued to expand steadily VSAT technologies have advanced prompting an increase in the take up of VSAT services Offering a comprehensive introduction to the topic followed by a detailed exploration of multiple access protocols delay analysis and system dimensioning this edition is a highly relevant update of VSAT Networks Written by a well respected and established member of the satellite community it will be welcomed by academics and engineers alike Covers important issues of services economics and regulatory aspects Provides a detailed technical insight on networking and radio frequency link aspects therefore addressing the specific features of VSAT networks at the three lower layers of the OSI Reference Layer Model for data communications This timely second edition is fully updated with new figures improvements and revised chapter on future developments This book will appeal to students of telecommunications electronics and computer science Practising telecommunications engineers and technical managers involved in the planning design and operation of VSAT networks and systems will also find this book a valuable reference source

Very Small Aperture Terminals (VSATs), 1992 One of the most significant developments in telecommunications in the last decade the very small aperture terminal VSAT as part of a satellite communications network is the culmination of technology that allows earth terminals to be located on users premises to provide data voice and even video services Networks based on VSATs can be established rapidly and reconfigured to respond to changing communications needs in a flexible and cost effective manner In 28 chapters written by individuals who have made major contributions to the VSAT scene this book describes the key technology underlying these systems representative systems from leading vendors link budgets system protocols data distribution based on television broadcasting service provision economic and perhaps most importantly regulatory issues It is essential reading for anyone involved in telecommunications systems management or the engineering aspects from equipment manufacturers to those who will use the systems The technology and systems chapters will be of interest to practising engineers and postgraduate engineering students who require an introduction to the subject Those with responsibilities for licensing and regulation will find their functions put into context

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