IMPROVING THE SMOOTH OPERATION OVER THE SATELLITE COMMUNICATIONS CHANNELS

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Abstract

A communication satellite functions as an overhead wireless repeater station that provides a microwave communication link between two geographically remote sites.

Due to its high altitude, satellite transmissions can cover a wide area over the surface of the earth. Each satellite is equipped with various "transponders" consisting of a transceiver and an antenna tuned to a certain part of the allocated spectrum. The incoming signal is amplified and then rebroadcast on a different frequency.

In recent times, the use of satellites in packet data transmission has been on the rise. They are typically used in WAN (Wide Area Network) networks where they provide backbone links to geographically dispersed LAN's (Local Area Network) and MAN's (Metropolitan Area Network) [1].

This paper provides a view of satellite data network communication. It discusses the latest trends in satellite communication technology and protocols for data networks on satellite channel