HISPASAT presents at Washington Satellite 2007 advanced services with *Amerhis* processor

The new system brings a revolution in multimedia satellite communications

Satellite operator HISPASAT presents advanced broadband services via the Amerhis on-board processing system, housed on the Amazonas satellite, at the Washington Satellite 2007 exposition, which begins today. At its stand (nº 227 of the Conventions Center) HISPASAT will explain the advantages of the new age of multimedia satellite communications, and the most important technological audiovisual advances, such as High Definition Television.

Amerhis (Advanced Multimedia Enhanced Regenerative HISPASAT System) is the most advanced multimedia payload embarked upon a commercial communications satellite. It is a program sponsored by the European Space Agency (ESA) and the Centre for Technological and Industrial Development (CDTI), in which numerous Spanish companies have participated (HISPASAT, Alcatel Alenia Space España, Indra Espacio, Mier communications) in collaboration with Alcatel Alenia Space (France), Nera-STM (Norway) and EMS Technologies (Canada).

It is the world's first regenerative system supporting open DVB technology (it embeds the two open standards, DVB-S and DVB-RCS) and multi-beam routing, thus leveraging the advanced features of HISPASAT's Amazonas satellite (61º West) and revolutionizing the multimedia satellite communications arena.

The intelligent processor eliminates the need for a station or HUB, and delivers high-performance meshed connectivity supporting direct interconnection of terminals located in geographic areas covered by the satellite's different beams (North America, South America, Brazil and Europe).

New services and applications

With the flexibility of *Amerhis* and the high-performance of the Amazonas satellite, providing coverage to hard-to-reach geographic areas, HISPASAT has defined a new portfolio of advanced services including corporate services such as Virtual Private Networks (VPN), Interconnection of scattered LANs, unicast and multicast file distribution, multi-party video conference, collaboration and training courses. Moreover, HISPASAT delivers a wide range of governmental services via *Amerhis*, as this platform is best-suited to this kind of communication, because it allows quick rollout of small terminals at remote places under emergency situations,

natural disasters, etc.. It provides secure broadband communication networks linking any terminal to its operation centre through a single hop.

Amerhis is the first system in the world capable of providing a broad range of new audiovisual advanced services thanks to the multiplexion capacity of TV programs at reduced-sized stations in MPEG-2 and its subsequent multi-beam distribution over Amazonas.

The key advantages of *Amerhis* include advanced communications at competitive prices, by using simple and compact low-cost terrestrial equipment, possible because it supports standard DVB-RCS terminals from different vendors, thanks to the inherent interoperability of the systems based on this open standard. It includes an advanced Quality of Service (QoS) management system with the levels required in delay-sensitive applications (Voice over IP and video conference) and also provides increased communication security, as the HUB cannot be physically tampered with on Earth.

With *Amerhis*, the satellite evolves from an analog transparent relay to an intelligent digital system capable of processing and regenerating signals onboard, eliminating the effect of uplink signal noise. Thanks to the new services over Amazonas linked to *Amerhis*, HISPASAT positions itself as one of the satellite service providers delivering the most advanced services on both sides of the Atlantic.

For more information, please see Amerhis brochure

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