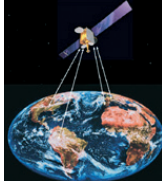


# AmerHis

## Multimedia Systems



*"This project will be profitable for everyone, the operators, industry and the Agency. It will serve the users and is a good symbol of European cooperation in the field of satellite communications."*

*J.M. Casas, Head of Science Projects Division, ESA*



### PRIME CONTRACTOR:

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### PROJECT PARTNERS:

**Alcatel Space Industries (France)**  
**Mier Comunicaciones (Spain)**  
**Indra Espacio (Spain)**  
**EMS Technology (Canada)**  
**Nera ASA (Norway)**

### PROFILE:

AmerHis is an ALCATEL ESPACIO initiative, supported and co-funded by ESA and Industry, with the support of CDTI, to deploy an advanced communications system based on a regenerative payload on board the AMAZONAS satellite. The new system concept offers a broad range of new services in the field of satellite communication.

The AmerHis payload flies on Hispasat's satellite Amazonas, launched in August 2004. It works like a 'switchboard in space', providing unique connectivity between the different coverage areas of the satellite and making possible a wide range of interactive satellite services over the Atlantic.

AmerHis is a win-win-win solution for Interactive Network Access Providers (INAP's), service providers and customers. The much greater flexibility for managing and selling capacity is such that all of the main players will benefit from this advanced technology. Real- and non-real-time multimedia services and applications can be provided on readily available DVB-S/DVB-RCS compatible terminals.

The system permits the assignment of resources to different sub networks in a very flexible manner and allows user transmission rates ranging from 512 kbit/s to 8 Mbit/sec. The system supports IP-based as well as native MPEG (Motion Pictures Expert Group) -based services, with efficient mechanisms for the provision of uni- and multi-cast services, and the possibility to define various quality-of-service (QoS) levels to meet differing user needs. These services include high-speed Internet, multicasting (broadcasting towards selective groups), video and radio on demand and many others.

Thanks to AmerHis, Hispasat is able to offer more and better services to its customers anywhere in Europe, North America, South America or Brazil without requiring costly and cumbersome double satellite hops.