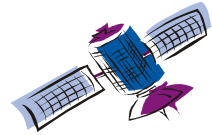


Instacast



Instacast provides a “turnkey solution consisting of hardware and software” for connecting multi-continental based LANS and or users into a seamless single whole LAN via our DVB encapsulators and receivers deployed with our latest client application.

High speed scalable overlay from 256 KBPS to 20 MBPS based on DVB technology

Instacast is a satellite overlay solution for terrestrial intranets and for internet connections. It combines a broadband receive-only satellite link with a terrestrial IP network infrastructure. For IP-Unicast traffic requests are made via low speed terrestrial links and responses are returned via a broadband satellite link (*from 256 KBPS to 20 MBPS*) located at a central customer site.

Instacast satellite solution

Instacast employs a small satellite dish, typically 95cm, installed at the customer premises and a *standalone DVB compliant satellite receiver* directly connected to the remote’s Ethernet local area network (available already from 256 KBPS). If receiver cards are required, *DVB compliant receiver cards* can be installed in customer provided PCs (available from 2048 KBPS for any Microsoft® operating systems). The provided satellite bandwidth depends on customer requirements. Increase of space segment can be provided without any hardware changes at remote sites throughout the entire band (256 KBPS to 20 MBPS).

Instacast uses DVB technology

Instacast fully implements DVB (digital video broadcast) standard *EN 301 192 multiprotocol encapsulation* allowing various vendor products being implemented at no risk. Several receiver products have been tested and confirmed to be compliant with *Computer Modules’ IP/DVB gateway DVB Rocket*.

Instacast and satellite coverage

Highly experienced engineers choose the right satellite system and satellite coverage depending on customer demands (e.g. Eutelsat, Intelsat).

Instacast features and options

- Remote monitoring and control via Java based applications and web browsers
- Bandwidth control for individual channels (optional)

Instacast applications

Instacast provides full routing capabilities for hybrid *IP-unicast and IP-multicast* traffic. It has been designed to ideally fill the existing gap of networks distributing multimedia content combined with interactive applications. Various multimedia applications (e.g. Instapack, Microsoft®, MPEG, RealNetworks™) coexist with http and ftp based applications.

Instacast benefits to bandwidth oriented users

- Instacast provides improved performance through higher bandwidth return channel
- Instacast gives full control of satellite link and bandwidth

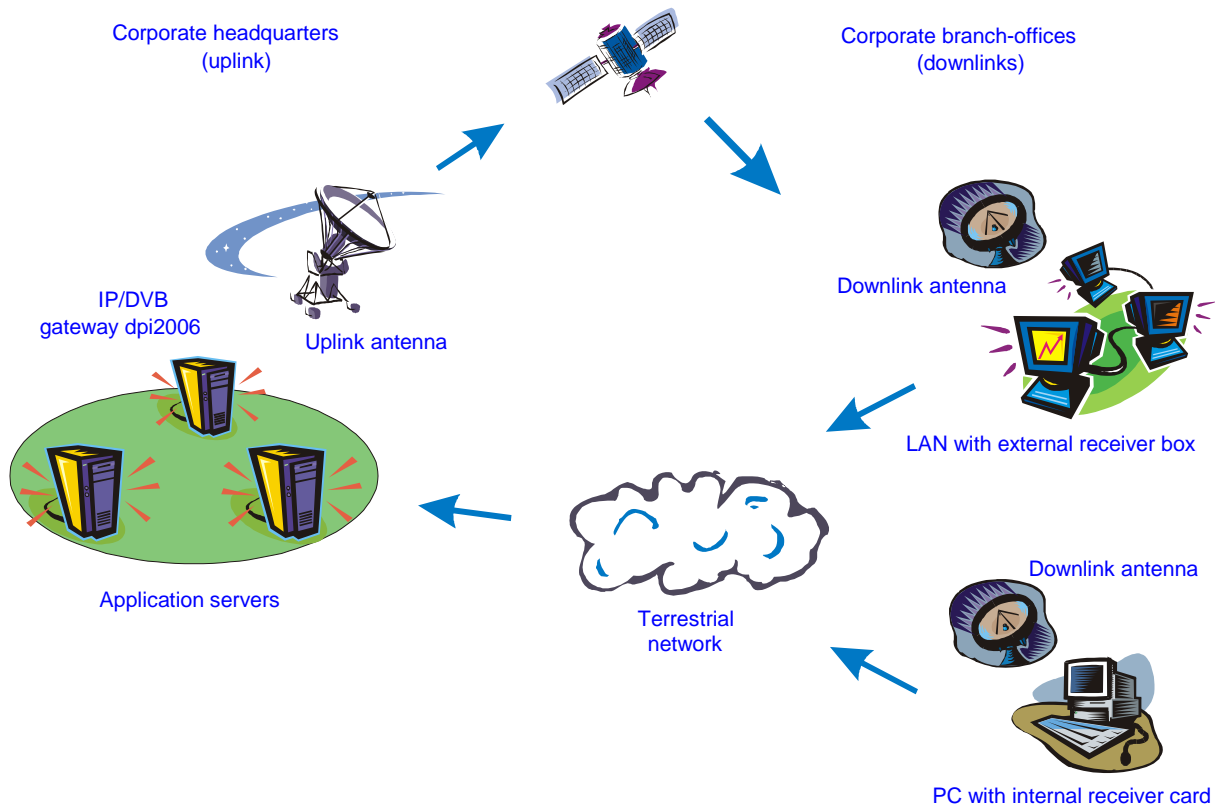
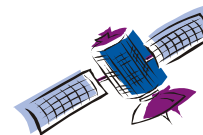
Instacast benefits to application oriented users

- Instacast implements a platform for delivery of value-added, IP-multicast channels and multimedia distribution applications
- Instacast provides an *asymmetric overlay* that does not disrupt existing network infrastructures
- Instacast allows e.g. fixed pricing, no volume based charges for customer owned networks

Computer Modules Possible Services

- Computer Modules provides analysis of current distribution requirements and recommends solution packages
- Computer Modules takes responsibility for entire project management
- Computer Modules implements the entire service including applications and training
- Computer Modules owns IP/DVB gateway/encapsulator technology therefore changes and adaptations for customized protocols can be implemented very fast
- Computer Modules owns file delivery software technology thus providing customers with one stop shopping solutions for data delivery services

Instacast



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Trade Mark of the DVB Digital Video Broadcasting Project



Computer Modules, Inc.