

# DETASAD Satellite-Based Communication Services

## To the ends of the earth: information transport via satellite

DETASAD installs the transmission equipment (VSATs: Very Small Aperture Terminals) directly at the customer's site, for example, on the roof of a building. The satellite signal is sent and received by satellite dishes. VSATs connect to any customer's equipment that provides standard data or voice interfaces.

Optionally, the DETASAD hub stations can also be used.

They offer a number of gateway connections to terrestrial or other networks.

## DETASAD: Turnkey solutions for satellite communications

DETASAD supports its customers from the planning stages through start-up and then provides ongoing support for countrywide business communications infrastructures. It focuses on providing satellite-based networks for sending and receiving data, voice and video throughout the country.

The company's technical nerve center is the ultramodern Network Operations Center (NOC) in Riyadh.

DETASAD offers satellite-based solutions for corporate Networks in the Kingdom of Saudi Arabia, but can offer also worldwide solutions together with its partner companies T-Systems and Plenexis.

## DETASAD: Your all-around partner for service!

With DETASAD, you get one-stop shopping – planning, implementation and customer service from A to Z.

- Consulting, including analysis of your communications needs
- Network and system design
- Commercial solutions and individual financing arrangements on request
- Provider of satellite capacity
- Provider of operating licenses
- Turn-key installation, operation and maintenance for all sites
- 24 x7 network management and monitoring by our Network Operations Center
- 24 x7 User Help desk

## Versatile DETASAD Services: user-friendly features

Flexibility means optimal pricing of solutions

- Network access with fixed or dynamic information rates
- Flat-rate or volume-dependent usage charges

Linking different computer environments

- Simultaneous use of multiple protocols per site
- Integration of different computer environments into a homogeneous network
- Gateways for linking to terrestrial or other networks

For further details, please see our product brochures:

- **DETASAD Corporate Network Solutions**
- **DETASAD Office Connect Solutions**

**VSAT means**  
**DETASAD**





## DETASAD's Satellite-Based Communication Services At a Glance



	<b>Corporate Network Solutions</b>	<b>Office Connect Solutions</b>
<b>Network</b>	Enterprise-internal communication network (intranet), from point-to-point to fully meshed	Enterprise-internal communication network (intranet), star-shaped structure (Headquarter – branch office)
<b>Customer Profile</b>	Blue chip companies and middle-sized enterprises and organizations with at least two locations, probably in different regions	Major enterprises with small subsidiaries or branches (up to hundreds of locations )
<b>Applications</b>	E-mail, http, office systems, ERP, CRM or SCM systems like SAP, telephone/fax (analogous, digital), video conferencing	E-mail, http, ERP, Point-of-Sales applications, system control (SCADA), IP streaming, file distribution, VoIP, video conferencing
<b>Connections and Topology</b>	Enterprise locations are networked to each other and can communicate with the head office or from one to another (installation of antennas on enterprise site)	Remote stations of the customer are connected through a central location and communicate through the head office, but no communication between remote locations via satellite
<b>VSAT Terminal</b>	DETASAD satellite terminals (antennas from 1.2 to 3.7m dish size, amplifier, modem, multiplexer, router)	DETASAD satellite terminals (antennas from 0.9 to 1.2m dish size, amplifier, indoor unit)
<b>Requirements of the Enterprise</b>	Enterprise is looking for a homogenous network of any type (point-to-point, partly or fully meshed) and of any size. Network should be capable to cover all communication needs (data, voice, video). Existing connections to remote locations are overloaded and too expensive to upgrade or do not provide sufficient quality (stability, availability, throughput). Or connections are even not available at all in hard to get regions. Single branch offices cannot be connected (last mile problem). Employees do not have a reliable access to enterprise data.	Companies who operate large centralized networks (e.g. banks or agencies) are looking for a homogenous and economical network solution. Existing terrestrial connections to the remote stations are overloaded by increasing data quantities and applications. Terrestrial connections cost too much. There is a need for higher bandwidth and boosting functionalities from time to time. Single remotes cannot be connected terrestrially by missing a local loop. Employees do not have access to internal enterprise data. Employees cannot communicate.
<b>Communication Protocol</b>	Frame Relay, IP, Bit transparent	IP
<b>Bandwidths</b>	Up to 155 Mbps per connection	In the forward channel up to 15 Mbps, in the return channel to 4 Mbps
<b>Benefits</b>	Homogenous network for all customer locations. Combination and integration of satellite-based and terrestrial communication paths. Diverse customer applications can be supported. Time-critical applications are possible through guaranteed bandwidths. The network structure is flexible, bandwidth can be easily upgraded and allocated to different locations on demand.	The transmission capacity is optimally used in comparison to the costs. Committed and excess information rates guarantee high performance. Easy to handle network structures even with large number of locations.