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## INTRODUCTION



delivering  
value

in satellite  
communications since 2001

HorizonSat was established in 2001 to provide satellite services as an effective means of transmitting and receiving data, such as, voice, files and IP-based applications and media content, as a more efficient means to terrestrial connectivity.

Throughout these years, HorizonSat has become recognized by the Satellite industry as a major provider of satellite services in the Middle East, Asia and Africa and has received various awards for its performance, reputation and quality.

HorizonSat will continue to anchor itself as a renowned provider by keeping pace with technological breakthroughs and innovations while maintaining its focus on the customer's main goal. As we move ahead, we intend to continue to innovate, think out of the box and bring useful and effective quality solutions as the preferred Satellite technology partner that all our clients can and have come to rely on.



SERVICES



innovative  
solutions

emphasis on  
cost-effectiveness

**Network Services**

- Backbone Connectivity and IP Trunking
- Private Networks
- Voice Over IP
- GSM Backhaul

**Media & Broadcasting Services**

- Video Distribution
- Video Contribution

**Government Services**

- Space Segment
- Managed broadband solutions

**Turnkey Solutions**



# empowering clients

to meet critical communication needs

### Backbone Connectivity and IP Trunking

Telcos and ISPs can be offered direct end-to-end Internet backbone access with data rates from 64 kbps to 155 Mbps in locations where terrestrial infrastructures are limited. This service can be offered in various configurations such as dedicated or burstable, symmetrical/asymmetrical, simplex/duplex and can be guaranteed at Committed Information Rates (CIR). Internet services are provided through various combinations of transmission technologies and modulations.

HorizonSat can customize and deliver solutions that are cost-effective for lower data rates or on a dedicated basis for higher data rates by using SCPC. Various Internet trunking and termination solutions can be offered that support small to large trunking requirements as well as applications such as VoIP and VPNs.

Our reliable infrastructure ensures speedy deployment to reach customers in underserved areas, thereby reducing time-to-market and benefiting your ROI.

### Private Networks

In today's fast paced competitive environment, it is imperative for corporations to maintain secure high-speed connectivity between multiple locations for day-to-day business transactions. HorizonSat provides transmission capacity as well as integrated end-to-end network solutions to facilitate such private networks, through Point-to-Multipoint, Star, Mesh or other hub-based solutions.

### Voice Over IP

HorizonSat's network allows ISPs and Telcos to offer high quality VoIP services by transmitting voice traffic anywhere in the world using Satellites that cover 98 percent of the Middle East, Asia and Africa. HorizonSat can implement this service at lower costs than circuit-switched technology. Our services are typically beneficial for carriers that use VoIP to transport all or part of their traffic over international routes in addition to companies that want to use VoIP for corporate VPNs, WANs or rural telephony networks.

### GSM Backhaul

HorizonSat provides GSM backhaul solutions to extend cellular coverage by creating a network backbone, which can also be used as a back up in case of terrestrial networks failures. This is particularly useful when terrestrial capacity is either not available or too costly a solution to implement. In such cases terrestrial networks can be bypassed using HorizonSat's GSM Backhaul service, noted for its flexibility, scalability and reliability, allows operators to reach more customers geographically, irrespective of the protocol used on their network.



### Video Distribution

Perhaps the best way of distributing TV and radio programming to reach close to 100% of a population in any geographic area, irrespective of ground infrastructures, is through satellites.

Broadcasting companies can reach a large audience without having to worry about local infrastructures. A video signal is transmitted to our Teleport/uplink center and from the teleport video/audio signals are compressed using MPEG codec and transmitted to satellites as a digital video-broadcasting (DVB) signal. HorizonSat can broadcast DVB signals via satellite to an unlimited number of viewers in any coverage area.

### Video Contribution

A contribution link permits broadcasters to transport video programming by satellite from a remote source such as an Satellite news gathering (SNG) unit to a broadcaster's studio or from a studio to our Teleport / uplink centre. With the advantage of its access to a number of satellites, HorizonSat can retransmit programs from any part of the region.

### Space Segment

HorizonSat also provides space segment, which can be configured as part of a fully redundant network, to maintain seamless connectivity between locations for mission critical applications. In line with this, HorizonSat has been actively engaged in providing satellite space segment to various governments either for Military applications or to various embassies and ministries in different parts of the world.

### Managed broadband solutions

HorizonSat delivers broadband Internet and communication solutions to elcos, Governments and large Institutions across the entire spectrum of broadband applications. This is accomplished through HorizonSat VNO services, which enables customers to manage their own networks through dedicated hub based solutions in a proprietary manner so that they may benefit from the flexibility of sharing and allocating their bandwidth and space segment resources between sites, resulting in savings in time and money.

turnkey solutions



Embassies

Ministries

NGOs

Defence Contractors

Educational Institutions

high performance  
configurations

consultative  
approach - detailed analysis



#### Turnkey Services

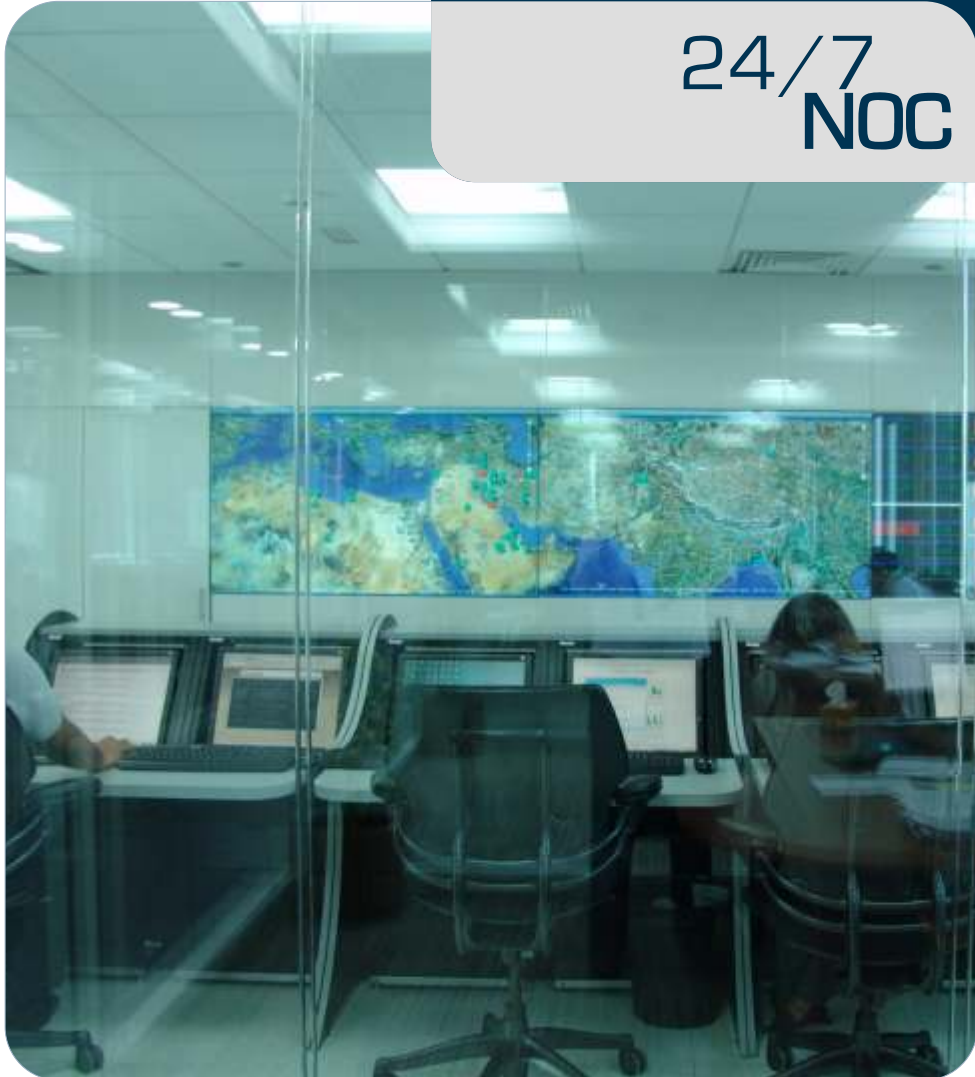
HorizonSat offers complete turnkey services to large corporations and governments in the area of transmission capacity procurement and network design. HorizonSat carries out its turnkey projects by encompassing the role of a satellite consultant, assisting its clients in designing total end-to-end solutions that meet virtually any communications requirement for corporate networks and government applications.

HorizonSat will analyze requirements and after having established a bird's eye view of the need, will partner with clients in proposing an optimum solution covering the provision of space segment, network design, hardware and software procurement and integration leveraging access to our high quality global satellite fleet and ground infrastructure coupled with years of experience in mission critical network designs.

At the core of our comprehensive turnkey solution lies our expertise in delivering the most cost-effective, high-performance network configuration. In the process of providing turnkey solutions HorizonSat's technical team will address all your network-related concerns and help you solve the most intricate connectivity issues and back you up with our 24/7 support, thereby leaving little to worry about in terms of maintenance and uptime after project delivery.



## INFRASTRUCTURE



## 24/7 NOC technically advanced teleport facilities

### Teleports

HorizonSat operates out of Teleports in Germany and France, allowing it to access satellites from 12-Deg west to 75 Deg East. The teleports are equipped with facilities for data transmission and reception via satellite.

HorizonSat teleports uplink programs like video press releases, or live teleconferences and provide "turnaround" services, which means that channels can be received from one satellite and re-transmitted on to another satellite. The teleports also provide up linking facilities for various DTH (Direct to Home) operators and are equipped with fully redundant fiber network infrastructures for IP services.

### Network Operations Center

HorizonSat NOC is strategically located in DUBAI, UAE, operates on a 24-hour basis and is staffed by multilingual personnel.

HorizonSat's NOC coordinates network troubles and provides problem management support services. The NOC primarily manages and monitors router configurations, network changes, domain names and IP addresses, switches, hubs and UPS systems that keep the network operating smoothly.

The NOC also manages the distribution and updates of software and coordinates with affiliated networks. HorizonSat NOC provides network accessibility to users connecting to the network from outside of their physical office space or campus.



HORIZON ADVANTAGE



latest technologies

emphasis on cost effectiveness

HorizonSat makes a thorough analysis of its clients' communication requirements, prepares comprehensive link budgets and proposes solutions that best suit requirements both technically and commercially.

HorizonSat has built up capabilities to cater to clients' exceptional and urgent requests, thanks to its access to space segment resources on a number of satellites and the availability of terrestrial IP infrastructures.

HorizonSat leverages resources including space segment on various satellites and invests in satellite technological innovations to provide clients with communication services that utilize the latest equipment in order to yield higher performance and throughput, ultimately leading to the competitive advantage that our customer's seek, through cost savings that do not affect quality of service.