



IoSTARPlus

High Quality VSAT Solutions for Afghanistan

IO GLOBAL SERVICES PVT. LIMITED

House No. 3, Street No. 13

Wazir Akbar Khan

Kabul , Afghanistan

Tel: +93-20-2302300, 2302860

IoSTARPlus

Io Global offers a complete line of high-quality, high-performance Internet, Intranet and Extranet solutions on VSAT enabling customers to increase productivity and profitability through IP technology. Through its comprehensive service offerings, we meet the requirements of businesses, online service providers and telecommunications firms.

Our portfolio contains cost-effective IP-based services including, Internet access - dedicated access from 64KBPS to 2MBPS speeds and even more if needed and wholesale Internet access provisioned for Internet E-commerce and online service providers.

Using our services, subscribers can implement the following rapidly:

- VoIP
- Web hosting
- Virtual Private Networking (VPNs)
- Remote access
- Managed security
- Integrated communication platforms
- Hosting and e-commerce

Ensuring seamless service for the customer, we offer NGOs, aid agencies and businesses a comprehensive range of customised programs including end-user billing support; customer premise equipment (CPE) purchasing options; premise equipment (CPE) purchasing options; end-user help desk support; and end-user implementation services.

In addition to standard, full-service Internet access, to create a fast, inexpensive web presence, Io Global can offer the following services and applications:

- Primary and secondary domain name services (DNS)
- Setting up Web Server.
- POP3/SMTP mail server setup.
- Proxy and caching server setup.
- Firewall and packet filtering.

Why Use Us?

Io Global's **IoStarPlus** VSAT Internet Service is offered on ViaSat's Linkstar VSAT and iDirect platforms, currently operational from Hong Kong, London, Germany and Belgium. ViaSat & iDirect equipments are known to be among the most reliable in the industry today and have been chosen as the ideal solution for applications in the subcontinent.

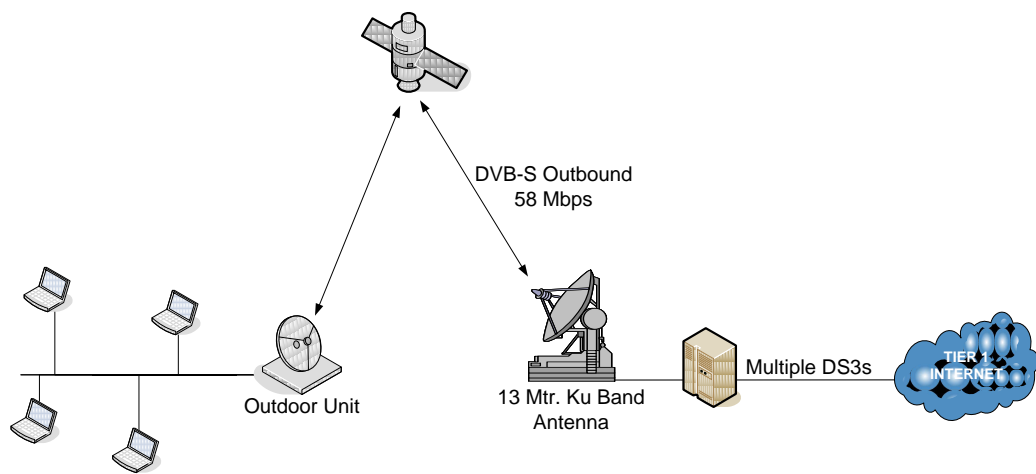
The Io Global platform supports VoIP applications reliably, providing customers the use of VoIP services. Each of these terminals can also be enabled with an Inward Dialing US or UK number in order to direct international calls inward directly and reliably. These services, once implemented, are offered comprehensively and conveniently by Io Global under the same billing module.

Io Global already has engineering and support comprising of trained and competent local Afghan RF and wireless engineers as well as sales and support staff from India. This extremely competent group of Io Global staff installs, supports and monitors Io Global installations nationally across Afghanistan.

Recommended For

This service is highly suitable for Corporate, Enterprise, NGOs and Government customers in every segment that use mission-critical or time-sensitive applications. It is ideal in case of frequent email usage with large file attachments, transfer video or image files, host a busy Web or FTP site or connect corporate intranets with moderate to high traffic. The service can also be used for hosting a company's E-commerce enabled website. A virtual storefront could be housed on a high performance Web Server.

Typical VSAT Network



Remote Location connected on a LAN

Network Management Centre, Stanley, Hong Kong

Equipment Used

Io Global uses the best-in-class ViaSat and iDirect's VSAT technology available in today's market. The remote Satellite IP Terminal is a small VSAT, which consists of an IDU (indoor unit) and an ODU (outdoor unit). The ODU consists of a Ku Band Antenna (1.2m or 1.8m), an RF power amplifier and low noise receiver.

The IDU is an integrated unit from ViaSat or iDirect which consists of a Demodulator and Demultiplexer. The Downlink Signal, which is a MPEG-2 DVB Signal when received at the Remote, is demodulated. The Demodulator recovers the IP packets and time-stamps encapsulated in the MPEG-2 stream. The IP Packet is then delivered to the external network via a 10/100 Base-T interface which then connects the Customer LAN to the Outside World.

LinkStar (ViaSat) - Bandwidth-On-Demand Broadband VSAT System

LinkStar is a two-way, bandwidth-on-demand broadband VSAT system for service providers, ISPs, and corporate networking that brings you more efficiency and higher data rates than other TDMA systems. The forward channel provides a total capacity of 60 Mbps, and return channels to the hub can operate at speeds up to 1.15 Mbps. LinkStar combines broadband access and a high-speed return channel to satisfy bandwidth-intensive applications using IP data over existing C- and Ku-band FSS satellites.

At a Glance

- Multimedia, broadband connections
- IP router with RIP, IGMP, CRTP, UDP, TCP
- Up to 60 Mbps download via DVB-MPE outlink
- Up to 1.15 Mbps DVB RCS-like return channel
- Automatic bandwidth allocation
- Programmable Quality of Service
- Up to 10,000 remotes per hub
- Web-based network management
- Ka-band capable



iFINITI 3000 (iDirect)

The iNFINITI 3000 Series supports reliable, two-way IP traffic ideal for high-speed enterprise networking applications including VoIP, internet access, VPN, file transfer, multicasting, and videoconferencing. The 3000 Series is a star-topology remote satellite router designed as an easy-to-deploy solution that integrates a satellite modem, IP router, TCP acceleration, and advanced QoS and prioritization capabilities. IP over Ethernet makes it easy to integrate the iNfiniti3000 Series into enterprise networks.

Flexibility and Scalability

The iNfiniti3000 Series uses the high performance TDM on the outbound and deterministic MF-TDMA technology on the inbound, delivering speeds up to 18Mbps on the outbound and up to 5 Mbps on the inbound. The flexibility and scalability of the iDirect product line allows the Network Operator to deploy tailored topologies and configurations to support the end-customer's specific needs.

Superior QoS and Network Availability

The extremely flexible Quality of Service and prioritization capabilities allow the Network Operator to not only prioritize traffic and applications over its networks, but with iDirect's state-of-the-art Group QoS functionalities, they can determine traffic prioritization across multiple applications, multiple remotes, and multiple sub-networks, simultaneously adding a level of granularity that allows easy management of the most complex SLA's and subscriber services. Additionally, built-in automatic end-to-end uplink power control increases network availability and reduces downtime.

Bandwidth Efficiencies

iDirect's patented, deterministic MF-TDMA achieves a 98% payload efficiency on the return channel. Furthermore, supporting a wide variety of turbo product codes (TPC) FECs, the 3000 Series provides greater flexibility for network design and optimization. Furthermore, built-in TCP/IP and HTTP acceleration increases throughput performance, and maximizes the user's experience and satisfaction.

Simplicity

Operating with all iDirect's hubs the 3000 Series can be easily configured, monitored, and controlled through the iVantage™ Network Management System. This easy to operate and very intuitive NMS has been the industry's most renowned and robust network management system, proven and perfected for nearly a decade. Offering more efficiency and higher data rates compared to other TDMA systems, the iNfiniti3000 Series is an ideal enterprise networking solution for Network Operators seeking to reduce the total cost of ownership.

Features

- Star topology
- High data rates 18 Mbps outbound, 5 Mbps return
- Low cost of entry
- Built-in TCP and HTTP acceleration
- Advanced QoS and prioritization
- MF-TDMA return channel achieving 98% payload efficiency
- Automatic End-to-End Uplink Power Control for higher network availability



Maintenance

All equipment supplied will have 1-year warranty coverage against defects from the date of delivery acceptance at Kabul.

In addition, Io Global Services (P) Limited will offer ongoing annual maintenance, preventive maintenance contracts to ensure the highest possible network uptime.

Network Integration Services

Io Global can help you with complete network system integration to cover most of your company's requirements from design, installation and maintenance. These can be a large Local Area Network (LAN) of a few hundred connected to a local server and sharing resources like printers, or a large Wide Area Network (WAN) covering geographically dispersed offices with workstations and servers, possibly with links to associated company's networks and databases which may be employing different operating systems.

Using Satellite Connectivity, which can provide Internet tunneling technology to another location, we can link geographically dispersed sites. In case the WAN connectivity is within any city, we can also offer wireless connections depending upon Line of Sight between the various locations. Network software and licenses can also be supplied.

Additionally, Io Global also offers equipment, warehousing, installation, maintenance, network management and technical support services.