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Flex VSAT Service

Advantages of Flex GEO VSAT

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Connect users, resources, and machines around the globe

Deliver high-performance connectivity
at all locations across the entire network

Connect consistently, for one site or across multiple sites spanning continents, no tracking antenna needed.

Global connectivity available
24/7 365

Managed Connectivity, through our 24/7 Network Operations Center

Software defined service, allows for on-the-fly site bandwidth changes

Flex Satellite Communications

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1

VSAT Equipment

Very Small Aperture Terminals

2

Modems

Best in class iDirect Modems

3

Installation

Full site installation Service

4

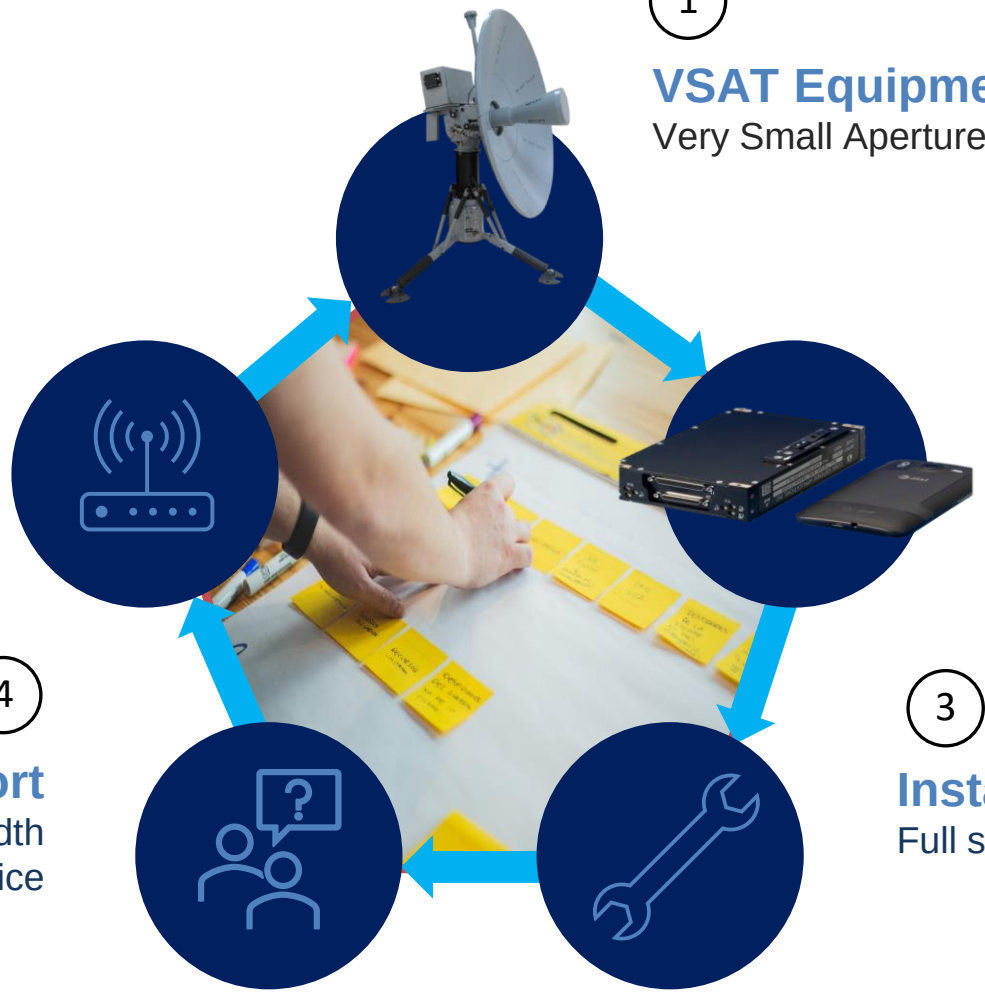
Continued Support

Tiered support of satellite bandwidth service

5

Multiple Plan Options

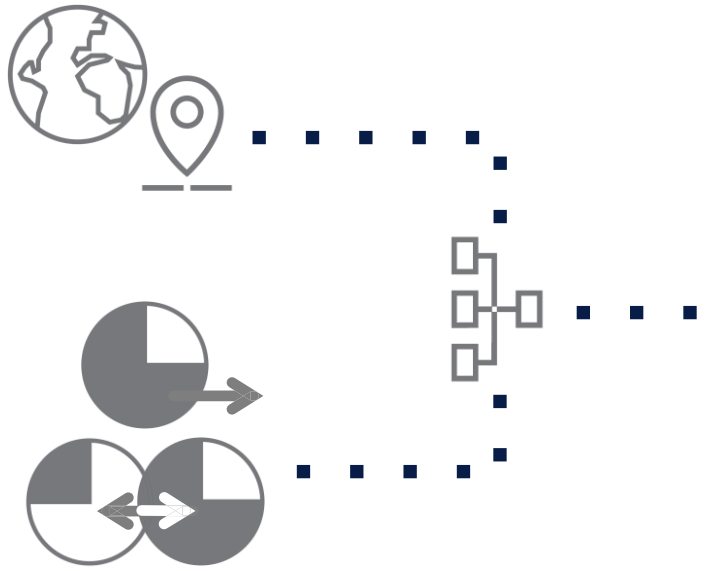
From IoT plans, failover and primary connectivity options



▪ Secure ▪ Global Connectivity ▪ Quick Deployment ▪ Remote Connectivity ▪ Scalability/Reliability ▪ SaaS

Equipment Included with Service

Standard end-terminal kit to simplify deployment



- 1.2m antenna
- 3W BUC
- iDirect iQ
- **Up to 20 Mbps / 3 Mbps per terminal**

Consistent throughput available across all regions delivered via standard equipment and configuration

iDirect iQ Satellite Modem

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- Software defined architecture for maximum flexibility and expansion.
- Dual Gigabit Ethernet VLAN networking.
- Capable of throughputs up to 200 Mbps.

- Additional Features
  - DVB-S2 (up to 45 Mbps) / DVB-S2X (up to 100 Mbps) outbound
  - Adaptive TDMA up to 7.5 Msps, 16QAM modulation
  - Layer 2 and Layer 3 Optimized
  - Quick and simple installation and setup

Size		W 4.78 cm x D 11.43 cm x H 18.26 cm (W 1.88 in x D 4.5 in x H 7.19 in)
Weight		0.37 kg (0.83 lbs)
Temperature:		
	Operating	0° to +40°C (32° to +104°F)
	Storage	-40° to +85°C (-40° to +185°F)
Humidity:		
	Operating	10 - 90% non-condensing
	Storage	5 - 95% non-condensing

Protocols Supported

TCP, UDP, ICMP, DHCP, NAT/PAT, DNS, ROHCv2, RIPv2, IGMPv2, IGMPv3, ICMP, IPv4 (IPv6 over L2oS), L3, VRRP

Security

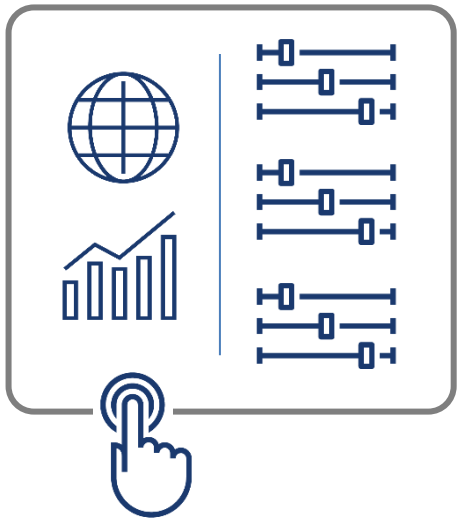
256-bit AES Link Encryption (optional)

Straightforward setup and management

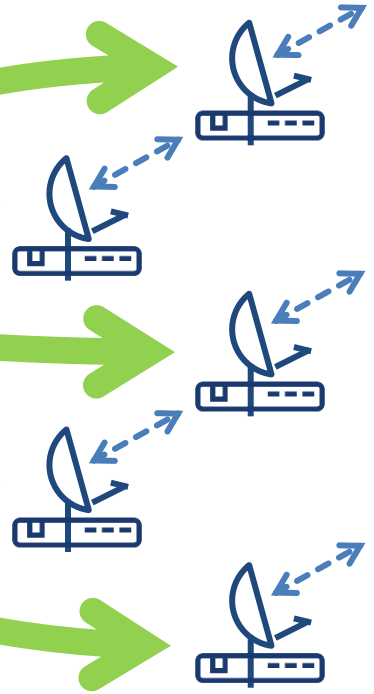
- Identify the global or regional connectivity required by your service needs

- Identify throughput and volume packages relevant for your applications

- Use the web-based SMP interface to apply throughput and volume packages to remote terminals



- Deliver connectivity and enable solutions wherever your sites are located

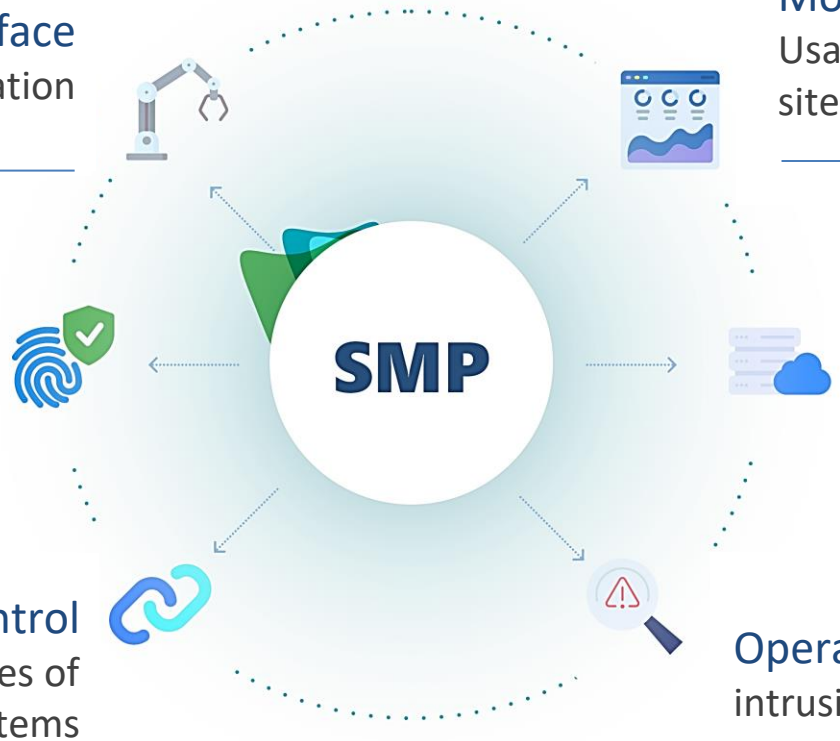


VSAT Portal: Simplified setup, control and monitoring

Simplified Interface
Service automation & orchestration

Centralize user access
Multi-factor Authentication and Single-sign-on across services

Maintain continuous control
Interact with SMP even through outages of connected sub-systems



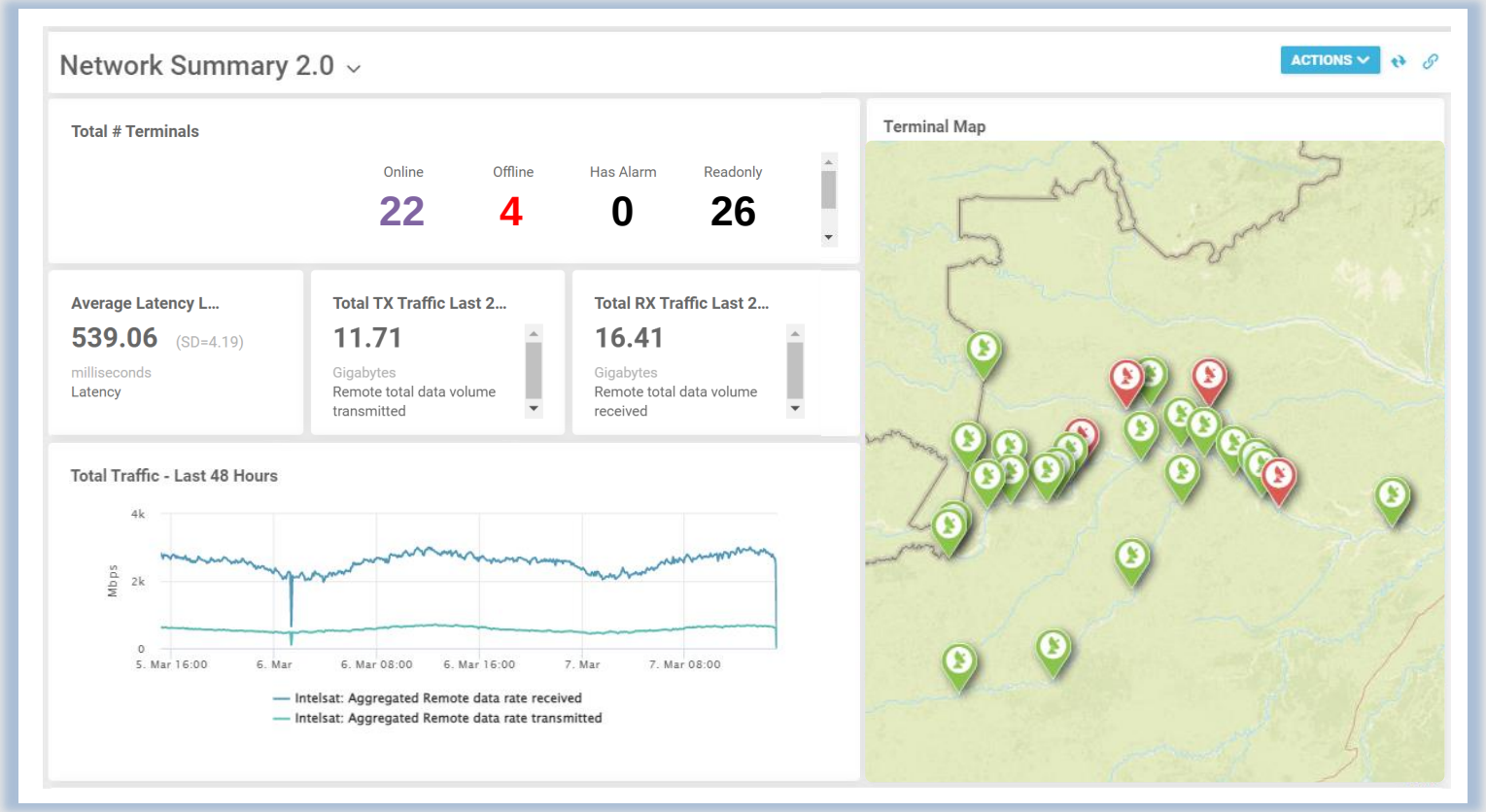
Monitor in real time
Usage and performance data across all sites.

Ensure operational stability
Apply queuing of actions and efficient interactions with sub-systems

Operate securely
intrusion detection

VSAT Portal: A quick summary of your network

- View network performance as well as overall health of the network
- Issues are flagged and color coded for ease of viewing



VSAT Portal: Drill down for site statistics

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Latency

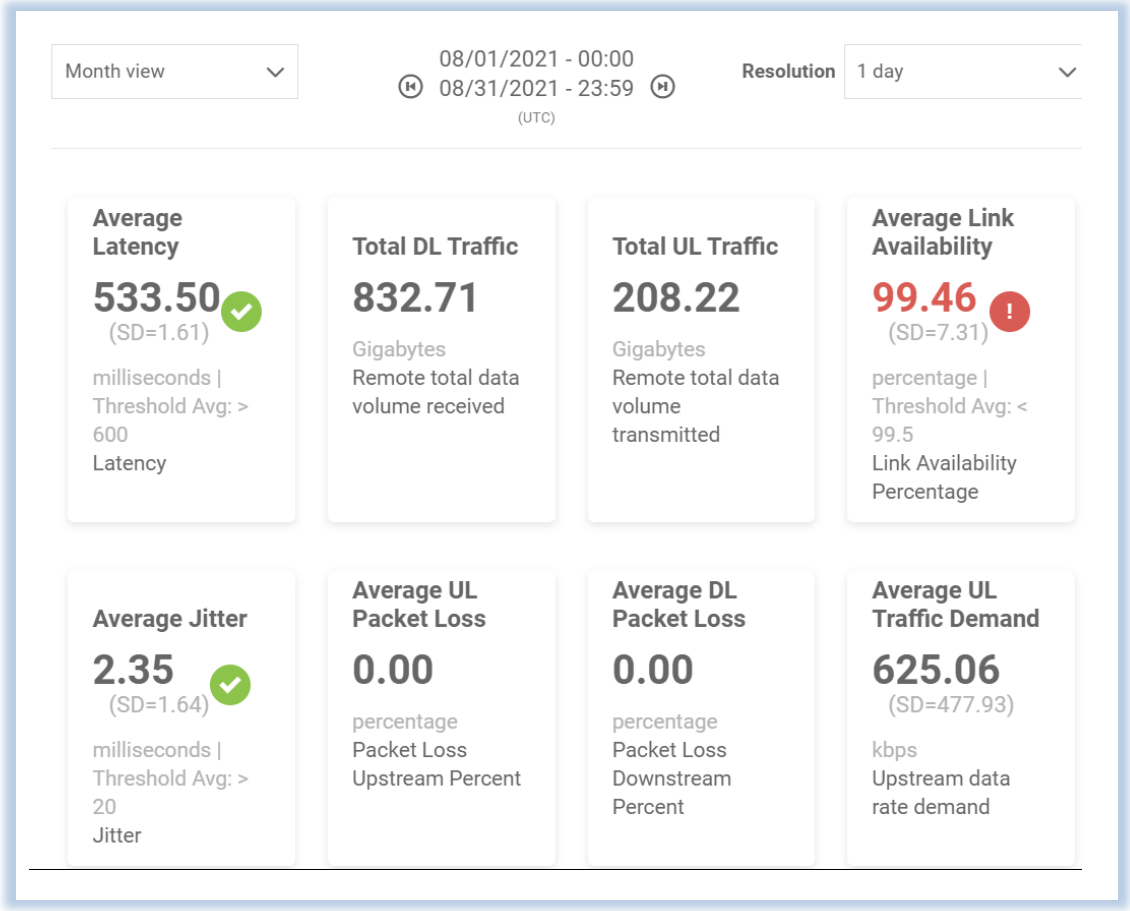
Traffic Transmitted/ Received

Link Availability

Jitter

Packet Loss

Demand



- Create multiple filters and views and drill down to the data that's important for your application.
- Historical data available up to six months

VSAT Portal: Generate custom reports on-the-fly

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Terminal Health (select all)

- [ ] FLL DAC Value
- [x] Latency
- [ ] Number of Times Terminal Entered an Satellite Network
- [ ] Number of Times Terminal Exited an Satellite Network
- [ ] Reset Cumulative Stats Flag
- [ ] Terminal Online Time
- [ ] Uptime for a Terminal
- [ ] Active Pseudo Wires Count Per Terminal
- [ ] DVB-S2 CRC32 Errors (Terminal)
- [ ] DVB-S2 CRC Errors
- [ ] FIB Entries Count Per Terminal
- [x] Jitter
- [ ] MOS - Score
- [ ] Packet Loss
- [ ] R - Value
- [ ] Temperature
- [ ] Upstream Spectral Efficiency (Terminal)
- [ ] Uptime
- [x] Total terminal traffic

Time Slot Allocation (select all)

Remote TX Stats (select all)

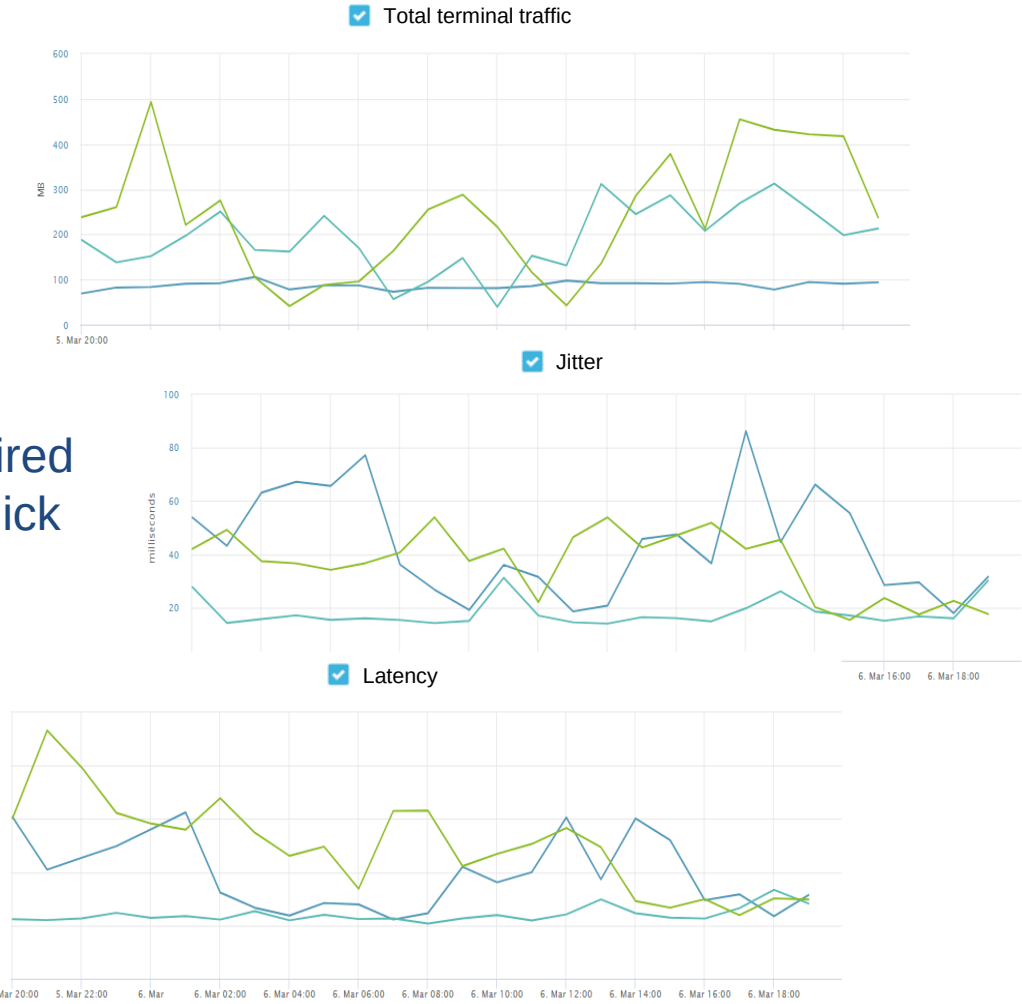
RX IP Stats (select all)

TX IP Stats (select all)

Spoof Stats (select all)

iNet (select all)

Select specific metrics, target terminals, and desired timeframe to generate quick reports



Hosted +CIR subscription plans

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Choice of two speed tiers and two CIR levels per speed tier

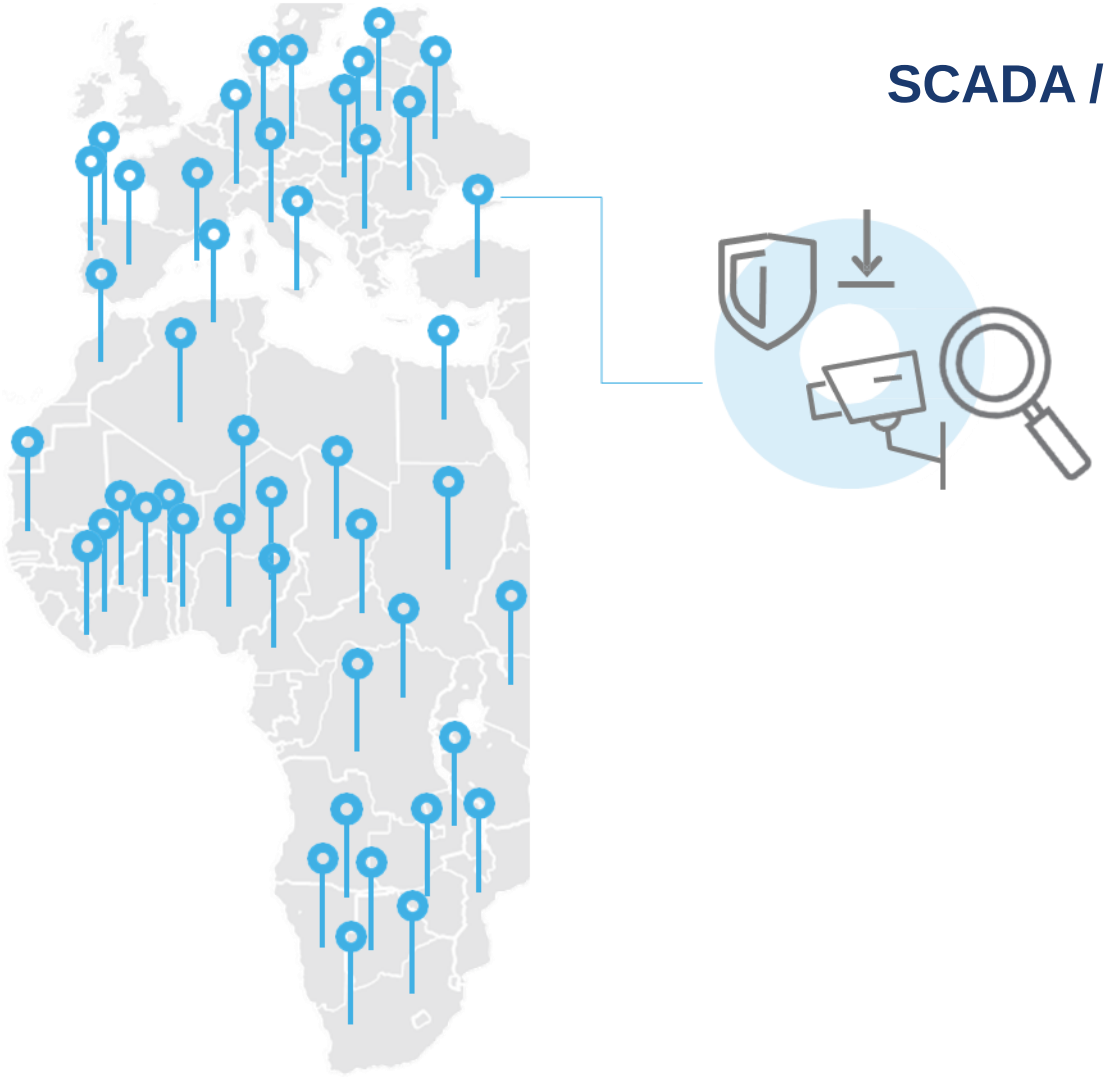
Enterprise Flex 5	
Premium	**Business**
5 Mbps download **2 Mbps** upload + committed rate of **1 Mbps** download **512 Kbps** upload	**5 Mbps** download **2 Mbps** upload + committed rate of **512 Kbps** download **128 Kbps** upload
500 GB per month	

Enterprise Flex 10	
Premium	**Business**
10 Mbps download **3 Mbps** upload + committed rate of **2 Mbps** download **1 Mbps** upload	**10 Mbps** download **3 Mbps** upload + committed rate of **1 Mbps** download **256 Kbps** upload
1,000 GB per month	

- ✓ **Unlimited** data – **no overage charges**
- ✓ **Global** and **regional plans**
- ✓ **Full throughput** for **committed** minimum volume

Committed monthly volume delivery assumes consistent consumption throughout the month. After consuming your committed monthly volume, you will still access unlimited data at CIR throughput rates until the beginning of the following month. MIR+CIR plans are only supported in FlexEnterprise Hosted spotbeam coverage.

Use Case: IoT Services



SCADA / IoT / IoT support regardless of local connectivity

Applications can leverage end-to-end services regardless of local infrastructure availability or reliability

- Leverage our satellite networks high availability and global coverage
- Low-cost terminal options for larger networks
- Supports industrial and agricultural IoT, remote monitoring, and application maintenance services to any location
- Delivers high-throughput application connectivity regardless of geography or weather

Why Microspace for VSAT?

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Global Coverage, Cloud-based, Feature-rich, Secure, Managed SD-WAN service

Benefits

- Full-featured SD-WAN without integration cost & operational complexity of DIY
- Ability to scale on demand
- Quickly deploy new sites globally
- Deliver 99.99% availability
- Single point-of-contact through 24/365 NOC

- Link bonding, blending, balancing
- Centralized management
- Flexible topology
- Secure virtual network overlay
- Application-aware routing
- Managed security
- WAN optimization
- Feature-rich, low-cost CPE

Industries served

Guaranteed, Reliable, Secure connectivity

Rural

Network

Agricultural

IoT

Mining

Network

Redundancy

Oil & Gas

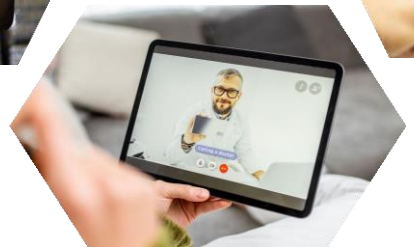
Manufacturing

Enterprise

Productivity

Edge/Hybrid

Cloud



Telemedicine

Civil

Government

NGO

Retail

Point of Sale

Banking

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Thank you

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