Beyond the Cloud: Space-Based Data Storage

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Cloud Constellation
The Information Ultra-Highway™

Space-Based Global Cloud Storage Network
Tomorrow’s Information Ultra-Highway

The cloud storage network above all others...

Space-based™ data center infrastructure of interconnected satellites, forming an exclusive cloud storage network ring to serve enterprises and governments everywhere.

Securing sensitive, mission-critical, data everywhere.

1. Patent Pending
2. Traffic Decongestant
3. Data Expeditor
4. Universally Adaptive Global Antenna
5. Point-to-Point and Meshed
6. Unified Telecom Backbone
7. Liberated from Cyber-Hazards
8. Solves Jurisdictional Complexities
9. Cloud Service Provider Differentiator
SpaceBelt addresses the vital central nervous systems

- Consumer
- Small Office Home Office (SOHO)
- Small-Medium Enterprise (SME)
- Regional Enterprise
- Multinational Enterprises and Governments

Cloud Storage, Transport and Provisioning Requirements

Security, Reliability and Availability Requirements
Enterprises are subject to local laws governing how and where data is stored, and many [IT Decision Makers] were concerned that data in the cloud could theoretically be held in many different servers across the globe.

Source: Tata Communications 2015 Data Centre and Cloud Services Market Assessment Study – 1000 IT decision-makers from 8 major countries interviewed
Security and Jurisdictional Control Features

While making the system achievable it became even more capable.

Global network ring architecture allows for seamless expansion to accommodate growth.

Covering the planet without having to cover it with satellites.
Addressing the Challenges of Data in Space

- Transmission speed
- Latency
- Storage capacity
- Heating issues
- Atmospheric interference
- Supported file structures, object structures, etc.
- Compatibility with OpenStack and other typical cloud storage APIs such as AWS
- Hemispheric constraints
Multiple Business Line Applications

Core Business – Global Cloud Storage Network

- Cloud Network Infrastructure for Fixed, Aviation and Maritime
- Provisioning of Mission-Critical/Sensitive Data
- Bypassing of Leaky Networks
- Globally Expedited Data Delivery
- Neutral National Data Repository
- Mitigation of Jurisdictional Hazards and Complexities

Ancillary Business Lines – Global Telecom

- Airborne Drone Command, Control and Storage
- Regional Traffic Decongestion
- Universally Adaptive Global Antenna Radio Frequency Cross-Strapping
- Data Computing and Processing
- Point-to-Point and Meshed Telecom Backbone
- Earth Imaging/Sensing Distribution and Hosting

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Enterprise Use-Cases

Bypassing the pandemic cybersecurity crisis to solve a multitude of diverse requirements.

Medical & Pharmaceutical
- Novartis – formulas and research data
- Amgen – formulas and research data
- Hospitals – patient privacy and image archiving

Government & Military
- US State Department – embassies
- US Department of Defense – drones
- Libraries – archiving
- Social Security – archiving
- Office of Personnel Management

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Insurance
- Anthem – jurisdictional/regulatory
- Cigna – jurisdictional/regulatory

Energy
- Exxon-Mobil – exploration data
- Shell Oil – exploration data
- Proprietary Research Data

Media
- IBM Video Cloud – Expedited live video delivery
- Netflix – Bypass congested/expensive networks

Transportation & Utilities
- Airports – ATC Networks
- PG&E – SCADA Networks

Banking
- HSBC – global operations and jurisdictional
- FedWire – transactional risk
- Bitcoin – protection of cryptocurrencies deposits