



Overview

## THE CLOUD AROUND THE CLOUD™

**Space-Based Global Cloud Storage Network and Telecom Backbone**

Website: [www.SpaceBelt.com](http://www.SpaceBelt.com)

Twitter: @SpaceBelt1

Email: [Inquiries@SpaceBelt.com](mailto:Inquiries@SpaceBelt.com)

DCN08052016

**Cloud Constellation Corporation**

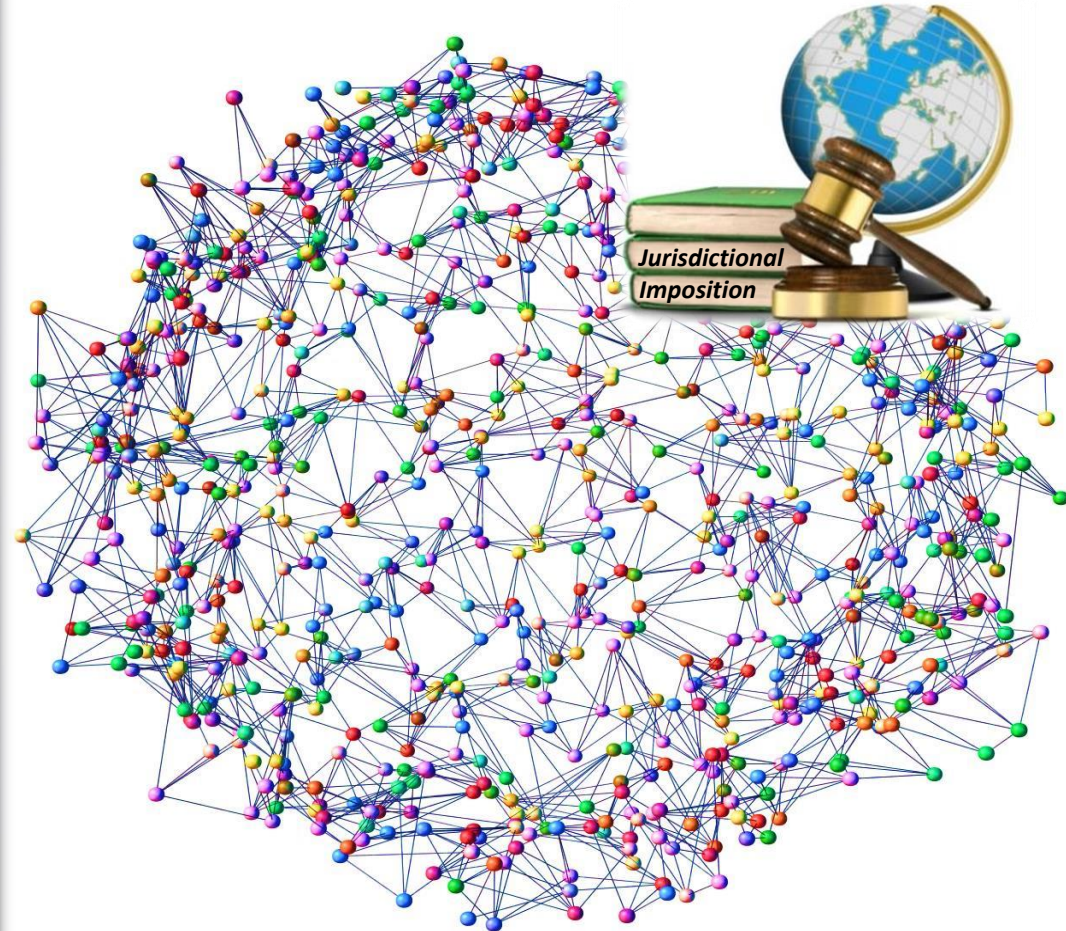
10850 Wilshire Boulevard, Suite 1125, Los Angeles, California 90024-7002 USA

# Today's Information Super-Highway



Cybersecurity  
Leaky Networks  
Congestion & Latency

Data Loss  
Human Error/Sabotage  
Jurisdictional Hazards





# 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.**

1. Autonomous Global Telecom Backbone
2. Solves Jurisdictional Complexities
3. Fastest delivery of data stored in-orbit to any point on earth
4. Routes traffic around congested and expensive peering points
5. Universal global antenna capable of connecting to any radio source
6. Significant Cloud Service Provider Differentiator
7. Patents Filed and Pending – Architectural Breakthroughs Discovered
8. Bypasses terrestrial infrastructure and makeshift solutions to block Cyber-Hazards
9. Ultra-secure point-to-point connectivity with 4 independent encryption layers and no public headers.



# Leadership Team

While making the system achievable it became even more capable...

SpaceBelt covers the planet without covering it with satellites.



**Hooshang Kaen**

*Cofounder & Vice Chairman*

Formerly at IBM, then Representative of Digital Equipment, SPRINT, TeleGlobe, Space Systems Loral, Hughes and Lockheed Martin



**Scott Sobhani**

*Cofounder & CEO*

Formerly VP at Hughes, Lockheed Martin and Astrolink



**Clifford W. Beek**

*President, Commercial*

Founded Star Asia Technologies, and formerly EVP at CoCo Comms



**DeLynn Russell**

*Board Advisor*

Currently at D.A. Davidson. Formerly with HSBC Securities, Morgan Stanley, Ryan Miller & Associates, Deloitte & Touche



**Arnold Friedman**

*Board Advisor*

Formerly CMO at Space Systems Loral, then Board Member to XTAR and ZeroDivide.org



**Chris Hoeber**

*Technology*

Formerly CTO & SVP of Space Systems Loral



**Dr. K. Raj Raghavan**

*Satellite Architecture*

Formerly at Boeing, Space Systems Loral, COMDEV, Orbital Sciences & Harris.



**Jeff Snyder**

*Network Architecture*

*and Regulatory Planning*  
Formerly at Lockheed Martin, XM Satellite Radio, LightSquared & WorldSpace



**Shahram Moradpour**

*Cloud Architecture*

Formerly at EMC, McAfee, Salesforce.com, Sun Microsystems and TIBCO



**James Kaen**

*Legal Affairs*

MD at Blackgold Funds, and Partner at Harris-Kaen

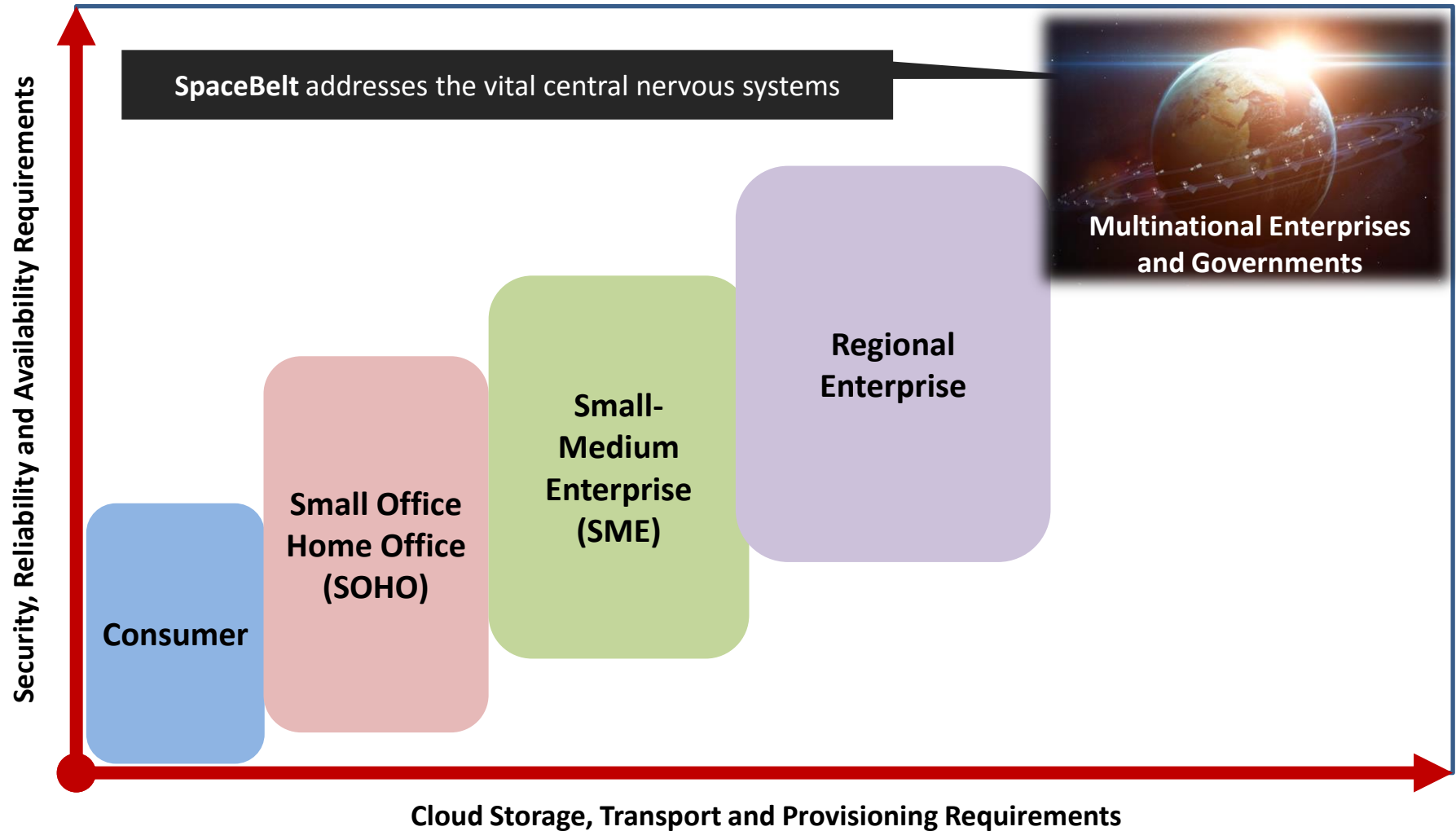


**Elisabeth Tweedie**

*Market Intelligence*

Formerly at Hughes Electronics, then Advisor to Space Systems Loral, WildBlue, SES and SIS Live

# Addressable Market





# Tata Communications



***“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

***“Hackers Tapped Bonanza of Data for Traders, U.S. Says”***

Hackers sold advance press releases, stolen from newswires, to 9 stock brokers who profited in the equity markets with timely trading activities.

Source: Wall Street Journal, 12 August 2015

***“Hackers Stole Social Security Numbers From 21.5 Million People In Recent Data Breach, U.S. Says”***

Source: Huffington Post, 9 July 2015

***“Chinese breach data of 4 million federal workers”***

Source: Washington Post, 4 June 2015

***“Three Months Later, State Department Hasn’t Rooted Out Hackers”***

Source: Wall Street Journal, 19 February 2015

***“2015 Cost of Data Breach Study: Global Analysis”***

Cost of a data breach for enterprises increased 23 percent over the past two years to an average of \$3.79 million per breach.

Source: IBM and Ponemon Institute

# Enterprise Use-Cases

**Bypassing the pandemic cybersecurity crisis, SpaceBelt solves a multitude of diverse requirements.**

## Government & Military

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

## Insurance

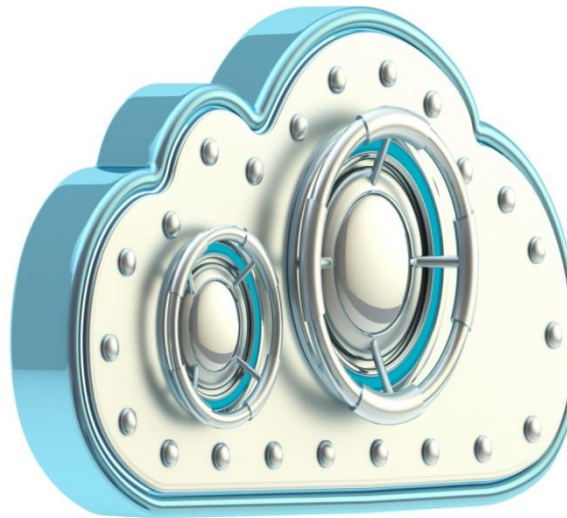
- Anthem – jurisdictional/regulatory
- Cigna – jurisdictional/regulatory

## Transportation & Utilities

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

## Medical & Pharmaceutical

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



## 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

## Banking

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

# Multiple Business Line Applications



**SpaceBelt leverages its telecom backbone across 9 business lines without any added CapEx**

## SpaceBelt Global Cloud Network

### SpaceBelt Global Cloud Network

Provisioning Virtual Desktops & Machines around the world in <1/3 second without needing to replicate any cloud infrastructure

Secures Sensitive Mission-Critical Data

Cloud Service Provider Market Differentiator

### SpaceBelt Hybrid Cloud

Reduced CapEx, OpEx, Carbon Footprint – Enterprises directly provision their offices everywhere without added latency or need to replicate data center infrastructure

### SpaceBelt Studios

Expedited 4K HDTV between 2 live audiences  
Studio booking engagements rise

### SpaceBelt Jurisdictional Fencing

Regulatory Compliance Certification  
Jurisdictional Data Sovereignty Assurance

## SpaceBelt Global Telecom Backbone

### SpaceBelt Global Alliance

Satellite Interconnect Exchange  
Universal Global Antenna  
Cross-Strapping any Radio Frequency Source

### SpaceBelt Sidestep

Least Cost Traffic Rerouting +  
Satellite ISP Gateway Decongestion

### SpaceBelt Drone Express + Storage

Drone Video Delivered <1 second + Secure  
Global Storage Network

### SpaceBelt Mission Critical

Sensitive Government Agency Applications

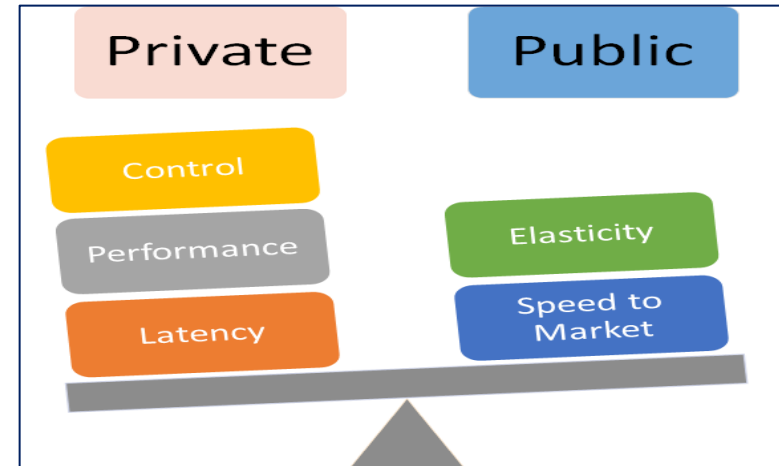
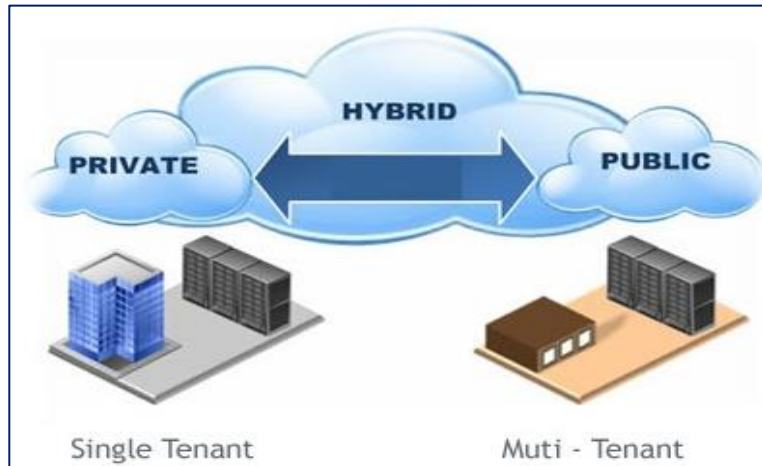
### SpaceBelt Banking

Financial Markets and Vulnerable Sectors  
Cryptocurrencies and Block Chain Data Stores





# SpaceBelt Hybrid Cloud™



## Today

Corporate CIOs are rejecting public cloud networks to jurisdictionally control data at their headquarters premises.  
Human error, espionage, sabotage and incompetence = Major financial windfall to the cybersecurity sector.  
Addressing the global torrent of data breaches can be compared to agitating an open sore that is bandaged.  
They still require third party data centers to replicate their clouds globally to provision offices with minimal latency.


## Tomorrow

SpaceBelt Hybrid Cloud will enable CIOs to virtually provision any remote office in <1/3 second without any latency, jurisdictional and/or cybersecurity issues whatsoever.

**Cloud SPs will be able to sell services without adding more CapEx & OpEx for competitive expansion...**

**Achieving major market differentiation while reducing the global data center carbon footprint**

**Ultra-Secure + Reduced CapEx, OpEx, Carbon = Increased Profit Margins = Green Planet**

- 
- A background image showing a view of Earth from space, with several white orbital rings or paths circling the planet. The image is slightly faded to allow the text to be read clearly.
- 1. Inter-satellite connectivity on a secure optical telecom network ring around the world**
  2. Universal global antenna architecture capable of connecting with any radio source
  3. Allows satellite operators to seamlessly provide off-planet interconnection links for...
    - Government Agencies, Militaries, Embassies, NATO and the United Nations
  4. Cross-strapping interconnection of any RF traffic in space without any hops in between
  5. Latency reduction to <1 second between the furthest reaches of the world
  6. Unprecedented security and jurisdictional control of data



## America's Got Talent vs. Australia's Got Talent

Expedited 4K-HDTV  
2 live audiences competing  
2 sides of the world



### Today

Studios employ parlor tricks to mimic/portray LIVE 2-audience interaction.

Video error correction must be applied at each server stop in both directions to studio's demanding 4K-HDTV specs.

### Tomorrow

SpaceBelt Studios Latency  $\approx$  1 second with just 1 video error correction at the end

Studios will be enabled for real audience interaction, a major market differentiator

**Booking engagements rise = Positive attraction for improving studio profit margins**



# SpaceBelt Sidestep™



**Rerouting Satellite ISP Gateway Traffic**  
Relieves satellite ISP gateway congestion  
during peak demand periods



## **Today**

Ever-increasing daytime satellite ISP traffic loads = Unavailable bandwidth to address consumer demands  
Customer loyalty and ISP revenue rapidly erode together.

Poor ISP service is not conducive to sustaining an ecosystem for recurring revenue.

## **Tomorrow**

SpaceBelt Sidestep will route congested ISP gateway traffic to the other side of the world, where populations are sleeping and bandwidth is significantly discounted

**ISPs using SpaceBelt Sidestep = happier/loyal end-users, a major market differentiator**

**SpaceBelt SideStep = increased sales & reduced costs = greater profit margins**

# SpaceBelt Drone Express + Storage™



## Expedited Point-to-Point Delivery + Ultra-Secure Storage and Access

Enabling <1 second delivery time  
Reducing Cyberwarfare Exposures

### Today



Using best available technologies and vast budgetary resources >2 seconds latency to deliver real-time drone video.

Like driving a car with a 2-second blinder, maneuverability and agility are constrained and limited.

Multiple hops and pops expose the traffic to surreptitious monitoring and manipulation along the way...

Data stored at HQ, as redistributed to authorized agencies around the world, adds more risks for cyberwarfare.

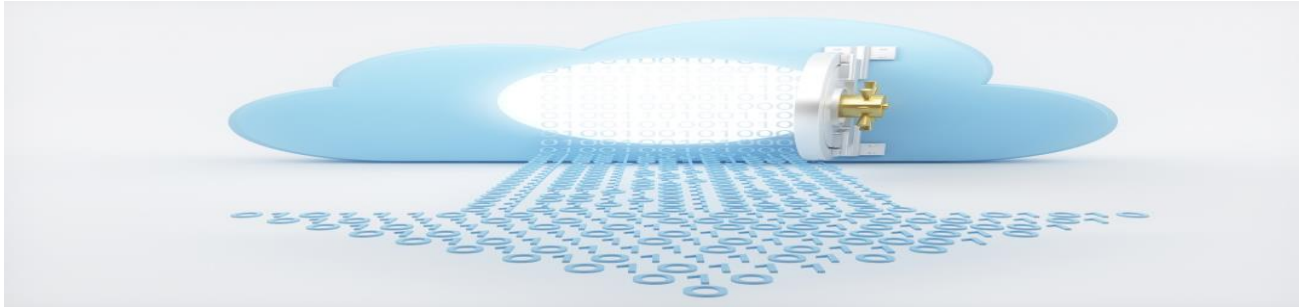
### Tomorrow

SpaceBelt Drone Express + Storage delivers to the furthest reaches of the world in <1 second, securely storing it for immediate access/analysis by authorized agencies around the world.

**SpaceBelt Drone Express + Storage = Superior Capabilities, a major market differentiator**

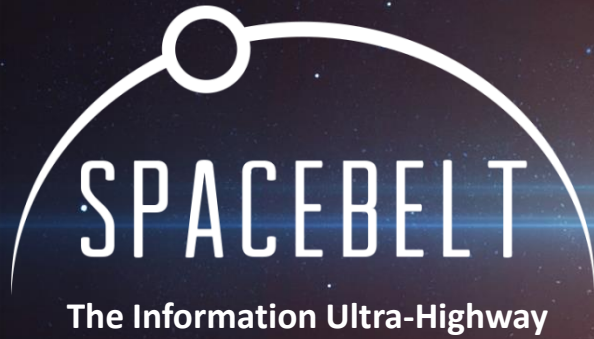
**SpaceBelt Drone Express + Storage = Speed & Agility = Dominating Cyberwarfare Arenas**

# Outpouring of Public Interest in SpaceBelt



<b>IT Business Edge:</b>	<a href="#"><i><u>Maintaining Compliance On a Global Cloud</u></i></a>
<b>Space and Astronomy:</b>	<a href="#"><i><u>Cloud Computing Sets Sights On The Stars For Increased Security</u></i></a>
<b>SpaceNews:</b>	<a href="#"><i><u>...Lofty ambitions for building a server farm far above the clouds</u></i></a>
<b>Storage Switzerland:</b>	<a href="#"><i><u>A Cloud Vendor Actually in the Clouds</u></i></a>
<b>CIO Dive:</b>	<a href="#"><i><u>Beyond the clouds: Startup wants to store data in space by 2019</u></i></a>
<b>PC World:</b>	<a href="#"><i><u>Afraid of floods and hackers? Put your data in space.</u></i></a>
<b>Popular Mechanics:</b>	<a href="#"><i><u>If you really cared about your data, you'd send it into space.</u></i></a>
<b>SpaceFlight Insider:</b>	<a href="#"><i><u>New Company Aims to Store Cloud Data in Space</u></i></a>
<b>TGT Analysis:</b>	<a href="#"><i><u>SANs Now Include Satellite Array Networks</u></i></a>
<b>Via Satellite Magazine:</b>	<a href="#"><i><u>Startup CEO Lays Out Vision for Constellation of Cloud Data Centers</u></i></a>
<b>Dronetech:</b>	<a href="#"><i><u>New cloud network stores data from drones in space</u></i></a>
<b>PR Newswire:</b>	<a href="#"><i><u>Cloud Constellation Corporation Introduces SpaceBelt, the Information Ultra-Highway</u></i></a>
<b>ARS Technica:</b>	<a href="#"><i><u>SpaceBelt promises to solve all your cloud security problems with space lasers</u></i></a>
<b>IT Business Edge:</b>	<a href="#"><i><u>Pushing the Envelope in Data Center Design</u></i></a>
<b>Cloud Computing Today:</b>	<a href="#"><i><u>SpaceBelt Promised Satellite-based Cloud Storage that Bypasses the Internet</u></i></a>
<b>Storage IO:</b>	<a href="#"><i><u>Cloud Constellation SpaceBelt - Out Of This World Cloud Data Centers?</u></i></a>
<b>PR Newswire:</b>	<a href="#"><i><u>Cloud Constellation Corporation Secures Series A Funding</u></i></a>





Thank You

**Cloud Constellation Corporation**  
10850 Wilshire Boulevard, Suite 1125  
Los Angeles, California 90024-4305 USA

**[www.SpaceBelt.com](http://www.SpaceBelt.com)**  
Twitter: [@SpaceBelt1](https://twitter.com/SpaceBelt1)  
[Inquiries@SpaceBelt.com](mailto:Inquiries@SpaceBelt.com)