FLEXENTIAL®

Lonestar taps Flexential expertise to launch the first commercial data center in space

⭐ LONESTAR

By entrusting its Terrestrial, Earth-based, operations to Flexential, Lonestar is able to devote its attention to developing and flying innovative space-based data storage resilient infrastructure solutions.

Flexential solution portfolio

Colocation   **Interconnection**

Data Protection

Flexential partnership highlights

- Lonestar pushes the boundaries of what's possible in the space data economy with the support of Flexential mission control capabilities

- The Flexential collaborative approach and deep industry and technical expertise have been integral in supporting Lonestar's innovative mission

Quick facts

- Established in 2021
- Headquartered in St. Petersburg, Florida
- Customized connectivity solutions
- End-to-end data protection
- Collaborative, expert-level strategic support

The history

Lonestar a leading space technology company, is revolutionizing the way data is managed and stored in the final frontier. Founded by a team of seasoned space industry veterans, Lonestar is on a mission to establish the first-ever data center on the lunar surface. This visionary solution features secure and resilient compliant data storage and disaster recovery capabilities for its growing roster of commercial and government customers.

"Everything we do is customer driven," said Chris Stott, Founder, Chair and CEO of Lonestar. "When our customers came to us asking for storage solutions that were safe, secure, accessible and sovereign, we knew that the sky was the limit when it comes to delivering on their requirements."

The moon emerged as the best option for Lonestar to meet customer demands. As Earth's largest satellite and a gravitational waypoint, the moon provides an ideal anchor point for Lonestar's data storage and disaster recovery services, distancing it from the risks inherent to terrestrial and low Earth orbit environments.

Lonestar's mission is to provide Resiliency as a Service (RaaS) for premium global secure data storage. To achieve this, Lonestar is establishing an independent space-based data storage and communications network to back up terrestrial data centers.

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We are building a new industry together with a trusted partner in Flexential. At Lonestar, we know space, and Flexential are the experts when it comes to terrestrial data center solutions and security. It's integral that we have the very best partners for our business so we can focus on the mission-critical work of creating lunar and space-based digital infrastructure."

Chris Stott
Founder, Chair and CEO

The challenge

Secure a partner for seamless ground-based operations support

Lonestar needed a collaborative partner with expertise in the space industry to support the terrestrial component of their business.

Lonestar's ground-based operations are critical to the overall solution because when a customer needs to access data stored in space, the data must be federated back to Earth quickly and securely.

Details: Maintaining this mission-critical data transfer capability is paramount to Lonestar's commitment to meeting the needs of its forward-thinking client base.

The solution

Flexential propels Lonestar's mission with sustainable data center support

Located near many of the key launch and operations centers for the space industry, the Flexential data center in Tampa, Florida was selected to host Lonestar's ground-based operations for resilient backup.

This seamless integration between Lonestar's space-based assets and Flexential ground-based capabilities working via Lonestar's Misson Control in St. Petersburg, FL is essential for providing customers with rapid access to their data, regardless of where it is stored. The Flexential nationwide network of data

> " The most impressive aspect of working with Flexential is their people —the dedication they bring to our business, the energy they infuse into our partnership, and their unwavering commitment to our mission."
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> **Chris Stott**
> Founder, Chair and CEO

centers enables Lonestar to quickly and securely transfer data from the lunar environment.

"When it came to selecting a U.S. partner, we wanted a firm that had deep expertise in the space industry and was recognized as an innovator in their field," said Stott. "Flexential is not just a data center company; they are a team of experts in security, backup and disaster recovery."

Flexential also stood out as an ideal partner because of the company's investment in sustainable practices to maximize efficiency and minimize environmental impact.

"Our missions are solar-powered and naturally cooled, and we're dedicated to achieving net-zero emissions," said Stott. "It was essential that we found a partner who shared our commitment to the environment."

Flexential environmental stewardship extends throughout its data center infrastructure, investing in energy-and water-efficient cooling systems, clean power sources and renewable energy options.

Key features: Secure and resilient infrastructure matched with seamless connectivity and data mobility.

The scalable Flexential Platform will enable Lonestar to easily expand its ground-based operations as its business grows.

Implementation: Conducting a thorough evaluation, Lonestar executives toured two Flexential data centers to see firsthand the capabilities and services offered. This due diligence paved the way for a swift implementation, as Flexential was able to quickly reserve the necessary space once Lonestar decided to move forward.

"The team at Flexential instantly understood our business and mission. Their reach and scope across the United States is a great match for us and I'd suggest them to anyone serious in this business," said Stott. "Flexential's collaborative approach was instrumental in the seamless implementation of our mission control center and has allowed us to focus on our primary goal of developing lunar and space-based digital infrastructure."

The results

Flexential secures Lonestar's mission-critical data

Performance: Flexential custom-engineered colocation solution provides robust, infrastructure to protect Lonestar's mission-critical data assets.

Efficiency: Scalable connectivity options enable Lonestar to effortlessly expand in tandem with the rapid evolution of their business.

Customer Experience: By entrusting its ground-based operations to Flexential seasoned industry experts, Lonestar is free to dedicate its focus to delivering the next generation of data storage and management solutions.

Entrust your mission-critical data to an industry leader and innovator

Explore the future of colocation ⟶

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