

# Global Insurance Company

## Case Study

### The Challenge:

- Required ability to scale space and power to satisfy legacy and non-cloud workloads
- Need for seamless path to migrate enterprise to Cloud Services over time
- Required ability to backup, recover and archive critical data to multiple locations
- Internal staff able to focus on operations during the migration period
- Need for complete shielding from **EMP/HEMP/IEMI**

#### A U.S. based Insurance Company

specializing in property and casualty operations engaged Cyber Innovation Labs (CIL) and EMP GRID Services to provide data center services complete with **Electromagnetic Pulse (EMP)** shielding.

#### THE CHALLENGE

As the Insurance Company's business grew both nationally and internationally, its IT infrastructure continued to take on a more critical role within the organization. The client wanted to improve their IT disaster recovery capabilities to support their customers and protect critical IT processes.

The Insurance Company required a dedicated enterprise data center with the ability to scale space and power to satisfy legacy and non-cloud workloads. Also, the project called for the ability to backup, recover and archive critical data to multiple locations as well as a seamless path to migrate the enterprise to Cloud Services over time. The directive also included protection and recovery capabilities in the event of a disaster event, including **EMP**. In doing so, the internal staff was to remain focused on operations during the migration.

#### THE SOLUTION

##### Enterprise Data Center Move Migration

Working in lock-step the client, the CIL and EMP GRID Services teams were tasked to deliver a comprehensive Facility Design, Build, Commission and Sign-Off Plan that encompassed all aspects of delivering a 100% turn-key, server-ready 2N, Tier 3 enhanced data center facility. The detailed move migration plan included:

- Development of data center layout, turn-key build & commissioning specifications
- Coordination of equipment delivery
- On-site technical "Managed Hands" support to complete installation
- Telecom installation assistance
- Trouble shooting support to complete installation

CIL and EMP GRID Services designed a **FLEXCenter** solution, comprised of 60 lockable cabinets, each furnished with mirrored and fully redundant rack PDUs. Our teams furnished the client with a 360° tested, certified and shielded chamber and fire-rated micro data center. In doing so, we added an extra layer of physical protection to vital systems and communications.



## Value Derived:

- Full EMP/HEMP/IEMI secured data center
- 6-sided solid steel HEMP/IEMI cage with wave guides; steel meshed air feeds and returns; copper tongue and groove perimeter
- Enhanced Tier 3 infrastructure (2N for all systems)
- 2 weeks continuous stand-alone power generation
- Fully meshed network; fully load balanced applications across geo-diverse sites; satellite backup systems for communication recovery
- Value engineered with delivery cost at market for standard data center facilities; no cost excess from conventional build

In conjunction with a server and storage on demand offering, the CIL and EMP GRID Services teams provided a comprehensive, catastrophic recovery plan for national and global critical IT operations. Complete with instantaneous Recovery Time Objective (RTO), the solution encompassed active/active resource for corporate IT cost efficiency.

## VALUE DERIVED

Teaming with CIL and EMP GRID Services, the Insurance Company received the right mix of technical expertise, implementation experience and project management skills to execute a successful data center migration. The **EMP/High Altitude Electromagnetic Pulse (HEMP) / Intentional Electromagnetic Interference (IEMI)** secured data center was designed with a 6-sided solid steel cage, inclusive of:

- Wave guides
- Steel meshed air feeds and returns
- Copper tongue and groove perimeter

Designed with a Tier 3 infrastructure protocol, the data center came complete with 2 weeks continuous, stand-alone power generation to ensure full operational recovery in the threat of disasters or emergencies. The solution was value engineered, within budget and with no cost excess in comparison to a conventional data center build. Standardization of infrastructure and network architecture was greatly improved, as was security, redundancy, and scalability of systems.