



Case Study for the Hopi Judicial Tribal Courts, Keams Canyon, AZ

C³-S.P.E.A.R. to House Hopi Court IT

Elliptical Mobile Solutions' Micro-Modular Data Centers (MMDCs) allowed the Hopi Tribal Courts to have a secure, reliable and mobile infrastructure to house their IT

When the Judicial Branch of the Hopi Tribal Courts needed to renovate one of their two court buildings, they considered moving their data center closet to another location. In the past, if court was in session and the data center went down, IT support could not come in until after the session closed. This meant IT down time and loss of employee productivity.

The Courts needed a secure area to store their court records and email database. Additionally, the data center would need to be re-located again sometime in the future. While Judicial Members initially looked at a cargo container to house their IT, they found that EMS' C³-S.P.E.A.R. provided them with a more comprehensive solution that fit their needs and budget along with the ability to easily relocate the data center when needed.



Judicial Members liked the C³-SPEAR for its small size and mobility. It provides the perfect platform for our data center needs.

– Camelia Dewakuku, Computer Specialist, Hopi Judicial Tribal Courts

CHALLENGES

- Need to re-locate data center outside of the court buildings.
- Provide a secure, flexible infrastructure that can protect court records and databases.
- Provide a versatile, mobile infrastructure for future relocations.
- Provide data center infrastructure in a remote area of Arizona.

SOLUTIONS

- Simplify implementation.
- Provide a secure, and easy to manage solution.
- Eliminate downtime.
- Provide a data center that can operate anywhere so long as there are power and network connectivity.
- Reduce capital and operating costs.
- Save space.

IMPACT

- Rapid deployment within 8 weeks and under budget.
- Flexibility for change.
- The Hopis now have an infrastructure that can address immediate challenges and provide the security, scalability and mobility for continued long-term growth.

Elliptical Mobile Solutions' C³-S.P.E.A.R.

Provides Secure Record Keeping for Hopi Tribal Courts

Spotlight on Hopi Judicial Tribal Courts, Keams County, AZ

The Hopi are a Native American people who live on the 2,500-square-mile Hopi Reservation in Northeastern Arizona. The Hopi Tribal Courts interpret and apply laws relating to the Hopi Tribal Constitution and By-Laws; Hopi Ordinances; Hopi Tribal Resolutions; customs, traditions, and culture of the Hopi Tribe; federal laws, rules, and regulations; laws of the State of Arizona; and common law.

EMS Solution

The Hopis have two court buildings for their trials and cases. When they decided to renovate one of their courts, they considered moving their data center into a 20-foot cargo container.

This would have presented a number of challenges as the court needed to relocate the data center again in the future. To relocate the cargo container would require a forklift, a flat bed truck and at least six handlers.

Elliptical Mobile Solutions C³-S.P.E.A.R. features a self-propelled drive train, allowing one person to move ½ ton of rack-mounted equipment at the push of a button.

The C³-S.P.E.A.R. also provided a number of advantages over the cargo container including significant CapEx and OpEx savings, improved performance, simplified implementation and easy mobility.

Reducing CapEX Costs

EMS' C³-S.P.E.A.R. is built at the rack level with onboard cooling, security and fire suppression. The cargo container included air-conditioning, however, security, fire suppression and server racks would need to be purchased separately, adding to the upfront capital costs.

By providing a drop in place infrastructure, the EMS solution greatly reduced upfront capital costs for the Hopi Tribal Courts.

Reducing Operating Expenditures

Operating expenses, such as electricity required for cooling a data center, resource utilization, and maintenance account for nearly two-thirds of the total cost of ownership (TCO). EMS effectively addressed all of these factors, while delivering the high availability and performance the Hopis needed.

Ultimately, this provides the Hopis with a data center solution that is easy to implement, operate and grow.

The patented closed loop cooling system contains the hot and cold aisles within the enclosure so that cooling is applied directly to the equipment. This feature lowers energy and cooling costs up to 35 percent compared to a containerized data center.

By decreasing data center power consumption, the Courts saved money and helped reduce the environmental impact of their IT.

Simplified Implementation

The C³-S.P.E.A.R. provides a drop in place architecture that can be located anywhere in the world as long as there are power and network connectivity. This greatly simplified and expedited the Courts' ability to get the new computing environment into production.

Hopi continue their relationship with EMS

While the Hopi Judicial Tribal Courts were the first to implement EMS' MMDC solution, the tribe recently purchased 1 C³-S.P.E.A.R. and 1 C-S.P.E.A.R. to house its IT in Kykotsmovi, AZ. This area of Arizona is prone to adverse weather conditions such as monsoons and flooding. The rapid mobility of the MMDCs will allow the tribe to quickly relocate their IT to another location if the forecast calls for severe weather.

Find a business solution that is right for your company. Contact Elliptical Mobile Solutions today!

Elliptical Mobile Solutions

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