



Case Study for the Hopi IT, Kykotsmovi, AZ

C³-S.P.E.A.R. to House Hopi IT

Elliptical Mobile Solutions' C³-S.P.E.A.R. and C-S.P.E.A.R. allowed the Hopi IT division to have a Mobile Data Center Solution in a remote area of Arizona prone to severe weather.

The Hopi Tribal Headquarters is located in Kykotsmovi, a remote area of Northern Arizona. During monsoon season, the IT office often experienced multiple power outages, sometimes on a daily basis, with no reliable backup generation. In the past, this meant IT down time and costs of time and productivity until the IT equipment was up and working again. Excessive flooding from torrential rains and severe winter snowstorms were other concerns.

The Hopi IT elected to replace their small data center with EMS' C³-S.P.E.A.R and C-S.P.E.A.R. due to the mobile platform the enclosures provide.

The Hopi now have a comprehensive solution that fits their needs and budget along with the ability to easily relocate their data center in the event of an emergency or if the forecast calls for severe weather.



CHALLENGES

- Need a data center that offers a mobile platform that can easily be relocated at a moment's notice.
- Provide a secure, flexible infrastructure that can protect tribal government records and databases.
- Provide data center infrastructure in a remote area of Arizona that is prone to severe weather.

SOLUTIONS

- Provide a secure, flexible and easy to manage solution.
- Provide a mobile platform that can quickly be relocated.
- Eliminate downtime.
- Provide a data center that can operate anywhere in the world where there are power and network connectivity.
- Reduce capital and operating costs.

IT Members liked EMS' MMDCs due to their compact size and mobility.

Jerolyn Tekala
IT Director
Hopi Reservation

IMPACT

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

Elliptical Mobile Solutions' C³-S.P.E.A.R. and C-S.P.E.A.R. Provide Mobile Data Center for Hopi Tribal IT

Spotlight on Hopi Tribal Government IT, Kykotsmovi, AZ

The Hopi Reservation in northeastern Arizona occupies parts of Navajo and Coconino counties and encompasses approximately 1,542,306 acres. Neighboring towns include Flagstaff, Winslow, and Holbrook. The reservation consists of three major mesas rising up to 7,200 feet, surrounded by low deserts and gullies. Tribal Headquarters are located in Kykotsmovi. This area, also known as Old Oraibi, is believed to be the oldest continuously inhabited village in the United States, established as early as 1150 A.D.

EMS Solution

The Hopis previously had a small data center located in their IT office. This presented a number of challenges including the tribe's remote location and severe weather and flooding that often left them without power and access to equipment.

EMS' Micro Modular Data Centers provided a number of advantages over a traditional data center closet including CapEx and OpEx savings, scalability, improved performance and simplified implementation. However, a critical feature for the Hopis was the ease of moving the equipment.

Mobility

EMS' C³-S.P.E.A.R. and C-S.P.E.A.R. feature a self-propelled drive train, allowing one person to move ½ ton of rack-mounted equipment at the push of a button. The enclosures also offer patented adaptive suspension to protect standard rack mounted equipment from vibration and shock sustained in a mobile environment. Rather than having to remove sensitive equipment from the racks and package it for shipping, the enclosures can be moved and relocated with equipment in place.

Now, the tribe can quickly relocate their IT to another location if the forecast calls for severe weather.

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.

By decreasing data center power consumption, the Hopi Government not only saved money but helped reduce the environmental impact of their IT.

Reduced CapEx and Simplified Implementation

The C³-S.P.E.A.R. and C-S.P.E.A.R. provided a drop in place architecture that can operate anywhere in the world where power and network connectivity exist. This significantly reduced upfront capital expenses as well as time to get the new computing environment into place. The enclosures can be scaled as needed, allowing the Hopis to add capacity in a pay as you grow manner.

A Better Result

With EMS' Micro-Modular Data Center, the Hopis now have an infrastructure that can address immediate weather related challenges and provide the security, scalability and mobility for continued long-term growth.

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

Elliptical Mobile Solutions

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