

Albuquerque DATA OASIS

A Resilient Data Center Complex



THE ULTIMATE DATA CENTER BACKSTOP

ADACEN is developing Albuquerque Data Oasis is a Tier IV data center complex with uncommon levels of resiliency. Data Oasis is designed to provide a level of data assurance and operability that legacy data centers are unable to provide. These three major differentiators include:

- PRE-GRID POWER
- ENHANCED SECURITY
- ADVANCED NETWORK CONNECTIVITY

A PRE-GRID POWER SOLUTION FOR EXTENDED OPERATIONS

Albuquerque Data Oasis will be co-located with a 100MW+ utility-scale solar generation facility with extensive battery back-up resources – and fenced within a secure perimeter. The solar, battery and additional energy sources feature a pre-grid connectivity to the ABQ Data Oasis, ensuring that customer data is online and operational well beyond legacy fail-point timelines with traditional back-up systems. Customers can customize their data portfolio to a power assurance model that extends for weeks – even months – independent of the grid in a devolved state. Finally, the renewable benefits and on-site cost factors ensure a green energy portfolio – both for the environment and cost savings.

A LOCATION WITH UNRIVALED SECURITY

The ABQ Data Oasis will be strategically located at the Albuquerque International Airport – a joint-use airfield shared with Kirtland AFB and the Department of Energy. The ABQ Data Oasis will have multiple locations at ABQ: the highly-secure North Site 25-acre location and the ultra-secure South Site 70-acre location. Both sites are nested within the boundaries of the airport and share adjacent fence-lines with Kirtland AFB. This embedded approach ensures a secure, defendable perimeter that is protected by multiple agencies with both active and passive measures.



DIGITAL & PHYSICAL NETWORK CONNECTIVITY

Data Oasis will employ advanced network connectivity – including both terrestrial and space-based networks – but also cutting-edge technologies including out-of-band key transport via quantum safe encryption. In addition, the ABQ Data Oasis provides direct runway access for the air-gapped transport of encrypted data – ensuring an unrivaled ability to transport and store gold-copy data instances in an ultra-secure environment.



ABQ Data Oasis Key Facts

ELIGIBILITY

- US Government entities
- US State, Regional, Local entities
- US Tribal entities
- Eligible commercial entities (restrictions on foreign ownership apply – inquire for details)

POWER

- Solar / Battery pre-grid solution
- PNM grid feed (dual location, dual feed)
- Natural gas back-up
- Legacy generator back-up

CONNECTIVITY

- Direct access to major carriers, research networks & public cloud providers
- Dual / diverse fiber routes to/from site
- Dark fiber available
- Carrier Neutral
- Up to 40Gbps peering interconnection
- Virtual Meet-Me-Rooms with no cross-connect fees
- 1Gb, 10Gb, 40Gb, 100Gb transport capability to major carrier hotels
- Multiple bandwidth & IP connectivity options, with BGP
- Satellite connectivity (details on request)
- Runway access

CO-LOCATION OPTIONS

- Co-location
- Private Cloud
- Custom Build-to-Suit
- Powered Shell
- Office / DR Suites
- DR Infrastructure

DATA OASIS KEY DETAILS

- Tier IV
- Immersion-cooled server infrastructure (low water use, favorable PUE)
- Fire detection & suppression
- Enhanced security apparatus
- Customer Support Center (CSC) staffed 24/7/365
- ADACEN Information Management System (AIMS) - used to track / monitor trouble tickets, deliveries, and work projects

WHY ALBUQUERQUE?

- Strategic location at joint-use airport with DoD, DoE resources
- Area of low-geographic risk (no earthquakes, wildfires, volcanoes, etc.)
- Year-round mild, non-volatile climate (no tornados, hurricanes, blizzards, etc.)
- Skilled, professional workforce with favorable cost-of-living standards
- Business favorable environment