# Houston
# DATA OASIS
*A Resilient Data Center Complex*

ADACEN

THE FUTURE OF DATA RESILIENCE

## THE ULTIMATE DATA CENTER BACKSTOP
ADACEN is developing Houston Data Oasis, 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
Houston Data Oasis will be co-located with a 100 billion cu/ft natural gas reservoir, which gravity feeds to the Data Oasis complex. This energy source features a pre-grid connection to 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, this natural gas resource will enable an additional low-cost energy resource in addition to low-price commercial and renewable energy sources from the local utility.

## A LOCATION WITH UNRIVALED SECURITY
The Houston Data Oasis will be strategically located at Ellington Field – a joint-use airfield shared with Ellington Joint Reserve Base – hosting USG tenants including Department of Defense and NASA. The Houston Data Oasis is nested on a secure portion of the airfield, prohibiting public access. 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 Houston 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.

# Houston 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

- Dedicated, on-site natural gas resource with generation
- Utility grid feed (dual location, dual feed); with renewable optionality
- 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 HOUSTON?

- Strategic location at joint-use airport with USG resources including DoD & NASA
- Area of energy abundance
- Year-round, temperate climate
- Skilled, professional workforce with favorable cost-of-living standards
- Business favorable environment
- Large concentration of energy, aerospace & IT customers