



# DATA CENTER MEX 3



**KIO Networks Group** is an international company founded in 2002 that provides critical mission information technology services and outsourcing services through cutting-edge Data Centers with the highest degree of security, availability and density, in Mexico, Central America, the Caribbean and Europe.

**KIO Networks** offers integrated ICT services and solutions to both the public and private sectors, with the support of more than 40 Data Centers in a safe, scalable and professional environment.

**KIO MEX 3** joined the KIO portfolio in 2014.

**KIO MEX 3** is located at: Alfonso Nápoles Gándara 50 PB, Colonia Peña Blanca Santa Fe, Mexico City, 01210.

## CHARACTERISTICS

**Design:** It has a computer room with an area of 902 m<sup>2</sup>, with a false floor that has a height of 0.50 m reinforced with earthquake-proof pedestals, with a category-4 structure.

**Electrical capacity:** It has four 225 kVA UPS and two 130 kVA UPS that are redundant and have sufficient capacity to provide uninterrupted and filtrated power to all of the installed equipment.

**Redundancy:** 2N in the electrical equipment, with two 1 MW emergency power generator. It also has 4 diesel storage tanks, providing 4-day autonomy. The cooling equipment has an N+1 configuration.

**Power supply / Service drop:** Medium-voltage (23 kV) power supply / service drop.

**Energy efficiency:** Cold aisle containment which helps to deliver an average PUE of 1.7.

**Carrier neutral:** Open invitation to all Carriers. The current Carriers are: Axtel / Alestra, redIT / ATC, Telmex, Transtelco, among others. KIO also has a high-speed interconnection network among its Data Centers.

**Security:** There are 5 two-factor authentication (proximity and facial recognition biometrics) controls, with a 7x24x365 Video Surveillance system with a 90-day storage capacity. The center has received Payment Card Industry Data Security Standard (PCI) certification.

**Fire protection:** It has smoke detectors, manual stations, gas extinguishment and audiovisual alerts in all areas, in compliance with the standards of the National Fire Protection Association (NFPA). A Very Early Smoke Detection Apparatus (VESDA) has also been installed, as well as a double interlock preaction system.

**NOC:** Advanced operations and network monitoring center.

**Qualified personnel:** There are trained and qualified operating personnel 7x24x365 days a year.

## CHARACTERISTICS



Type of walls	Reinforced concrete
Wall thickness	20 cm (7.87 inches)
Perimeter wall	Yes
Construction of perimeter wall	Reinforced concrete
Wheelchair access	Yes
Dedicated Data Center building	Yes
Data Hall No1 Technical Floor Area	902 m2 (9,709 ft2)
Raised floor - Concentrated load	567 kg (1,250 lb)
Raised floor - Uniform load	2,216 kg/m2 (454 lb/ft2)
Raised floor - Impact load	65 kg (143 lb)
Raised floor - Last load	2,222 kg (4,898 lb)
Maximum cabinet capacity	372 approx.
Availability of space with perimeter cage	Yes
Height above sea level (meters)	2,250 m (7,381.89 ft)
Distance to the ocean (kilometers)	280 km (173.98 miles)

## SECURITY



Access control	Mantrap
Authentication factors	Two (Facial biometrics and proximity card)
Visitor log	Yes
7x24 Security personnel	Yes
Security cameras	Yes
Minimum DVR recording time	90 days
Fire detection	VESDA
Automatic fire extinguishing	GAS extinguishment

## COMMUNICATIONS



Copper wiring	Category 6A or higher
Fiber wiring	Single and multi-mode
Wire covering	Plenum and / or LSOH
Space for Carriers	Yes

## POWER CHARACTERISTICS



Redundancy	2N
Availability	ICREA Level II
Design capacity in m2	0.840 kW / IT
UPS capacity	225 kVA (x4) 130 kVA (x2)
Transformer capacity	1,000 kVA
Number of power connections	1
UPS autonomy time	7 minutes
Diesel autonomy time	4 days
Total diesel tank capacity	17,300 liters (4,570 gal)
Number of generators	2
Total Generator Capacity	1,000 kW

## CERTIFICATIONS



ISO / IEC 20000-1	NMX-CC-9001-IMNC
NMX-I-20000-1-NYCE	ISO 37001
ISO / IEC 27001	SSAE18 (SOC 1)
NMX-I-27001-NYCE	SSAE18 (SOC 2)
ISO 9001	ICREA Level III



## ELECTROMECHANICAL CHARACTERISTICS (COOLING)



Number of total units	21
Number of redundant units	7
Tons of cooling for the Data Center	332

