

## Cloud Magna Data Center achieves 99.99% availability supported by Schneider Electric technology.



### CLOUD MAGNA DATA CENTER

#### Location:

- Huixquilucan, Edo. de México

#### Solution:

- Overall Data Center Infrastructure Management

#### Equipment installed:

- Scalable UPS up to 500 kW
- Uniflair™ Perimeter Air Conditioners
- Uniflair™ 175 tons Chillers
- InfraStruxure™
- Racks
- Cabinets
- PDUs
- RPDUs
- InRow™ Cooling Units
- Netbotz™ Monitoring
- StruxureWare™ Power Monitoring Expert
- RM6™ Substation
- MV disconnect in double rush
- Transformers
- Electrical Distribution boards

### CLIENT BENEFITS

- 99.99% availability
- Uninterruptible LV and MV electrical distribution
- Optimal flow and power quality
- Major Energy Saving
- Monitoring Capabilities of all electrical, cooling and security variables
- Scalable Control Capabilities
- Reduced Carbon Footprint



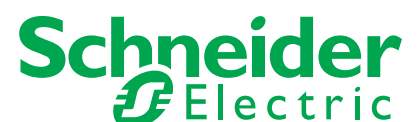
Cloud Magna Central Offices

Globally there are an estimated 1513.4 million square feet of white space and by 2017, an expansion to 1,945.9 million square feet is expected, this means a 30% increment in just 5 years. Only in Mexico, the Data Center Services market has registered 20% annual growth rates and is estimated to grow an additional 19% during 2014.

As a result of this growth, the Mexican Data Centers market has become one of the most dynamic worldwide, and within this dynamics, service providers have emerged featuring attractive collocation and cloud computing that are revolutionizing the industry.

In this sense for Cloud Magna to dabble successfully in the cloud computing services market, they needed to build a modern Data Center in fulfillment with the ICREA Level 4 and Uptime Institute Tier III certifications. This meant their Data Center had to be equipped with cutting edge technology that guarantee their clients the highest availability in the market so, when the time came to select the right vendor, it was clear to Cloud Magna Schneider Electric™ was the option to go.

Make the most of your energy



“Power outages are unacceptable for Cloud Computing service providers such as Cloud Magna. Thanks to Schneider Electric’s technology we are certain our operations are ininterruptible, allowing us to ensure all our clients, both public and private entities, their information and services are available 24/7/365.”

Jose Luis Zarazua  
Cloud Manager



Cloud Magna operates powered by Schneider Electric technology with a 99.99% availability.

**Schneider Electric Solution**

To achieve these certifications, Schneider Electric through its elite partner CAR Ingenieria Instalaciones™, designed the Cloud Magna Data Center with a redundancy level integrated by:

**Power Room:**

- 2 arms with 2 UPS Symmetra™ PX 150KW scalable up to 500KW
- 2 UNIFLAIR™ Leonardo Perimeter Air Conditioners
- 2 UNIFLAIR™ Chillers of 175 tons with redundancy

**IT Room:**

The Data Center POD consists of a complete and fully modular InfraStruxure™ solution integrated by APC by Schneider Electric™ racks, cabinets, PDUs, rPDUs, InRow™ cooling Units, Netbotz™ environmental monitoring and Schneider Electric’s DCIM Solution, StruxureWare™ Data Center Expert.

**Building:**

Energy supply, distribution and management components for the whole building were considered. Some of the most relevant technologies implemented were the RM6 Substation and two 1250KVAs Transformers, as well as StruxureWare™ Power Monitoring Expert, Schneider Electric’s energy monitoring software platform.

**Client Benefits**

When starting operations, the expectations were far surpassed by demonstrating the Data Center design and technology within was consistent through all the construction, commissioning and testing phases, prior and post, to the installation of the equipment to achieve:

• **ICREA Level 4** - Validates Cloud Magna Data Center is a high security environment with HS-WCQA HS (High Security World Class Quality Assurance) certification, and an availability of 99.99%. ICREA emphasizes on the verification of the Data Center neuralgic points such as the electrical system, air conditioning system, safety and security systems and the overall Data Center governance.

• **Uptime Institute Tier III** - Validates Cloud Magna Data Center availability of 99.982%. Tier III facilities offer uptime, thus availability assurance, to support the critical demands of production environments and critical applications. Also the design employs a concurrently maintainable infrastructure. This assures that if any one critical data center component is removed through planned maintenance or component failure, service will not be interrupted, this means the data centers provide the required availability and uptime to meet the service level agreements and uptime to support mission-critical applications and 24x7x365 production environments.

To achieve the aforementioned certifications, the Cloud Magna Data Center was subject to rigorous security and efficiency protocols from the design stage to the commissioning. Consultants and certification bodies performed multiple on-site validations tests including the scheduled outage of network by the local utility, CFE, and unplanned shutdown to measure the impact on equipment operation. These tests, and others were overcome successfully.

Currently, Cloud Magna serves corporate users, government, SMEs, academia and entrepreneurs. Today, thanks to Schneider Electric’s electrical infrastructure and Data Centers solutions, Cloud Magna is considered one of the most advanced IT environments in Mexico.

**Schneider Electric**

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