



## AT&T Internet Data Center Site Specification – Atlanta Area (Lithia Springs, GA)

### Site Biography

Market Area: **Atlanta and surrounding areas (Georgia, Alabama, Tennessee, Florida, North and South Carolina)**

Location: Lithia Springs, Ga 30122-3866

Address: 375 Riverside Parkway

CLLI, POP, NPA/NXX Code: LTSPGA02, ATLANGANW, 770/739

History of Facility: Upgraded facility built to AT&T Internet Data Center and Industry IDC standards.

Center Amenities:

- Customer Conference Rooms
- Audio/Visually equipped conference room
- Customer individual work spaces
- Customer Lounge Facilities with television
- Vending machine area
- Restrooms

Customer Briefing/Visit Request:

- If you would like to schedule a Domestic IDC Tour, [click here to use the scheduler](#)
- If you are not a Certified Tour Manager and would like to schedule a visit to a Domestic IDC, please contact your local Enterprise Hosting Specialist.
- [For the Corporate Briefing Center Online Visit Scheduling System](#)

Gross Sq. Ft.: **137,203**

Total Net Square Feet: **67,891**

### SAS70: This site undergoes annual SAS70 Type 2 auditing.

#### Network

Internet (Back-end) IP Capacity: Minimum of two (2) 10 Gigabit Ethernet WAN uplinks to the AT&T IP Network

Redundancy: Redundant and path-diverse entrances and exits. Dual access routers connect the Internet Data Center to the AT&T IP Network via multiple network access points.

Administrative (Back-end) Connectivity: Access the [AT&T Back-End Connectivity Guide](#) for options



## Architectural Section

### **Building**

- Raised Floor Specifications: Equipment areas have accessible raised computer floors, with anti-static properties. The allowable structural floor loading on the raised floor is 150 pounds per square foot. The raised floor height is 30 inches in the Phase 1 & 2 areas and 36 inches in the phase 3 area.
- Loading and Receiving Dock: Loading dock facilities are available. Onsite security personnel monitor access to the loading dock. Customer shipments to the IDC require customer site ID # on all shipping labels.

### **Power**

- Watts / Square Foot: Phase 1 & 2 is 120 w/sf billable space, Phase 3 is 150 w/sf billable space.
- Commercial Power: The Internet Data Center has one (1) commercial power service feed for this building. The site is located less than one mile from the substation with all cables routed underground for protection
- Standby Generator Systems: There are four (4) 2000 Kw and three (3) 2250 Kw Caterpillar diesel generators providing standby power to the Internet Data Center. This represents an N+1 configuration. Three (3) underground fuel tanks storing 60,000 gallons of diesel on-site.
- Uninterruptible Power Supply: There are four (4) Liebert UPS systems, each with four (4) - 600kW/750kVA modules. Power is supplied to the UPS systems through commercial power feeders and standby generators. The UPS system is designed to support the full load for 15 minutes via its internal battery plant. This represents a 2N configuration.
- Grounding Architecture: This facility has an enhanced grounding system. Perimeter ground ring is tied into driven ground rods. The UPS systems, equipment cabinets, racks and associated metal parts are tied into the ground ring.
- Commercial Power Contingency Arrangements: In case of a commercial power failure, the standby generators provide power to the Internet Data Center within one minute of a power outage. The one-minute gap is covered by the UPS battery system. During an extended commercial power outage, the diesel generators, using the fuel stored on site, can provide power for 48-hours for 100% building design load at end state. Diesel fuel can be delivered to site on a 24 x 7 bases by one of three separate vendors.

### **Environmental Controls**

- HVAC Distribution: The building has five (5) 600-ton chillers. The raised floor, which is used as an air plenum, delivers conditioned air to the equipment cabinets/racks.
- HVAC System: The data center space is conditioned with 64 floor mounted, chilled water type, down flow Computer Room Air Conditioning (CRAC) units. The CRAC units are rated for either 20 or 30 tons each. CRACs are installed in a 7+1 arrangement. The CRAC units deliver conditioned air at under the raised floor. Air is distributed in the data center spaces from under the raised floor, with return air circulating back to the CRAC units through the room to return grills located at the top of the units. The quantity and distribution of CRAC units represents redundancy in capacity, distribution and location across the raised floor area. CRAC units deliver conditioned air at 55° F to maintain a room temperature of 72° F.
- HVAC Contingency Arrangements: HVAC is designed with fault tolerance. If a chiller fails, a standby chiller can carry the load continuously. Operations can choose to operate all (or some of the) CRAC units, which share the cooling needs evenly operating at less than full capacity. If a CRAC unit fails, heat load is redistributed automatically.
- Fire Suppression: The Internet Data Center uses a pre-action dry pipe fire suppression system supported by a state-of-the-art VESDA smoke detection and alarm system. The VESDA system is considered 100 times more sensitive than conventional, passive fire detection systems. Conventional smoke detectors are also utilized and are grouped into zones. When one or more detectors in different zones detect smoke, the fire alarm panel opens the deluge valve to fill the sprinkler piping with water. In case of an actual fire, the seal on the sprinkler heads will melt and discharge water on the affected area. Water will not be discharged in unaffected areas. For more information on the VESDA system, please visit <http://www.vesda.com>



## Architectural Section - *continued*

### **Security**

- Building Access: Security staffing 24x7, closed-circuit monitors, secure-card key access, biometrics scanners, mantrap, and alarmed doors. Guards maintain access to the loading dock and access requires a card key. Security personnel also monitor the building.
- Equipment Cages: AT&T maintains a current list of authorized personnel. AT&T maintains all keys for cabinets and cages in a lock box on-site. Customers must open a ticket before appearing at the Internet Data Center and then pass biometrics scan and be escorted to floor.
- Site Monitoring:
- 24x7 monitoring is performed on site and remotely.
  - Shipping & Receiving: No unidentified packages will be accepted. Onsite security personnel monitor access to the loading dock.
  - Customer shipments to the IDC require customer site ID # on all shipping labels. No unidentified packages will be accepted.

### **Operations**

- Staffing: Internet Data Center technicians and building engineers are available 24x7.
- Remote Hands: Available 24x7. See [AT&T Enterprise Hosting Service Guide](#) for details.

## Risk Assessment

### **General Information**

#### Site Description:

- The site is located in a region of Low Seismic Activity. The building is of recent construction that meets current seismic code.
- There are no major faults in the area.
- Soils: Clay soil

#### Building Description:

- Single story tilt-wall concrete structure with structural steel columns and roof joists
- Building is 352' x 702' in plan.
- Building was constructed in 1997.
- Floors designed for live load of 175 psf, typical.
- Battery Rooms are designed for a live load of 350 psf.
- Mechanical Mezzanine designed for a live load of 200 psf.
- Observation Mezzanine designed for a live load of 100 psf.

#### **Earthquakes:**

##### Hazard Assessment

- Ground Shaking Hazard: Low
- Soil Liquefaction Hazard: Low
- Soil Compaction Hazard: Low
- Fault Rupture Hazard: None
- Tsunami Hazard: None
- Landslide Hazard: None

## Risk Assessment - *continued*

### Building Risk Assessment:

- Very low potential for steel frame connection damage due to low seismic zone.
- No life safety hazards identified

### Equipment Risk Assessment

Equipment	Anchorage Description	Risk Assessment
Data Center Racks	Anchored to raised floor system.	Low
Overhead Auxiliary Framing	Suspended racking braced per AT&T Standards	Low
Raised Access Flooring	Stringer system. Glue down pedestals	Low
CRAC Units	Anchored to concrete slab via stands	Low
PDU's	Sitting on raised access floor	Low
UPS	Anchored to concrete slab	Low
Switchgear	Anchored to concrete slab	Low
Electrical conduits	Braced per AT&T Standards	Low
Chillers	Sit on spring isolators which are anchored to floor slabs in Mech. room	Low
Chilled Water Piping	Braced per AT&T Standards and ANSI B31.9	Low
Generators	Anchored to concrete foundation per AT&T Standards	Low
Cooling Towers	Supported by elevated steel structure and anchored to concrete foundation	Low

### Regional Disaster Effects on Site

#### Loss of Power:

- Power supplied by 1 utility feed
- Standby generators can maintain power supply
- 48 hour diesel fuel storage on site
- Make-up water is stored at site.

#### Network Connectivity:

- Two diversely routed telecom duct banks provided

Summary: Site is in general well prepared to resist the effects of an unlikely earthquake.

## Risk Assessment - *continued*

### WINDSTORMS

#### Hazard Assessment:

- UBC Design Wind Speed: 80 mph
- UBC Exposure Category: B
- Overall lateral winds loads during a windstorm are more severe than earthquake loads at this site.

#### Building Risk Assessment:

- Buildings are assessed to have a low risk for wind damage.

#### Equipment Risk Assessment:

- Interior equipment is adequately protected against the effects of a windstorm.
- Exterior equipment is adequately anchored to resist the effects of a windstorm.

#### Regional Disaster Effects on Site

- Loss of Power:
- Loss of Water
- Network Connectivity

Summary: Site is in general well prepared to resist the effects of a windstorm.

### FLOODING

#### Hazard Assessment:

- Site is not located in a flood plain
- Flooding is not considered to be a significant hazard for this site.

### MAN-MADE HAZARDS

- Crime
- Outside equipment yard is fenced
- At present, site has security guard coverage 24 hours a day, 7 days a week, year-round.
- Security system monitors property, gates, and primary doors.
- Controlled entry into data centers via biometric controls
- Considered to be a low risk
- Exposed exterior walls of Data Center are primarily 8" thick concrete. Pre-existing punched openings and storefronts are covered with metal panels.