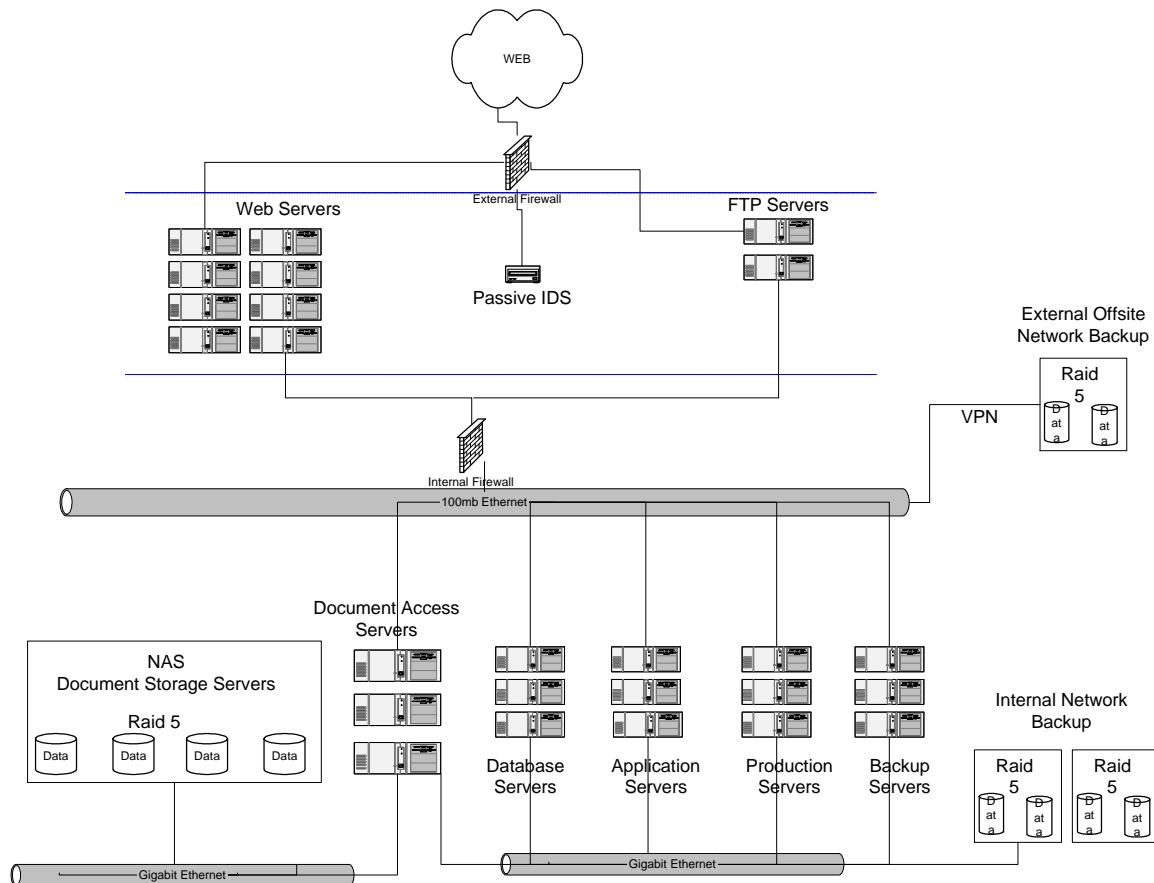


ABT Network Infrastructure

Network Diagram



General Network Overview:

There are two distinct networks, an external and internal. The external network is exposed to the outside world and is where all WEB and FTP servers reside. The internal network is where all of the database and document index information is stored along with supporting services production, backup and application. All servers on the internal network are inaccessible directly from the internet.

For redundancy, there is a minimum of two separate access points to the tier 1 internet providers that are available at all times. All database and web servers are redundant and contain duplicity between sites. All database servers utilize Raid 10 for their data stores. The backup and document storage servers utilize Raid 5. All servers contain redundant power.

Web Servers: Provides basic web site access and web services for installed client base.

FTP Servers: Provides FTP services for incoming and outgoing data. Data can be sent over secure or un-secure protocols.

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IDS: Provides intrusion detection services.

Document Access Servers: The document access servers provide secure access to the documents stored on the data vault.

Database Servers: Stores all of the indexed data used for accessing the documents and provides SQL searches against the database fields.

Application Server: Provides application services such as report generation, temporary vault services, document manipulation, etc..

Production Servers: Provides production services for processing and publishing incoming data.

Backup Servers: Provides daily backup services for all web sites, database indexes, incoming data, and vault documents. Provides internal and external backups.

Data Center Particulars:

Monitoring: Manned 24 x 7 x 365, the Operation and Control Center (OCC) provides the facilities to monitor all Heating, Ventilation and Air Conditioning (HVAC), fire suppression systems and security systems onsite by specially trained personal. Critical airflows, temperature, humidity, power consumption by individual customer, early warning fire identification and suppression systems, generator, chillers, CRAC Units and all security systems are monitored in real-time from the OCC.

Security: Onsite security is provided by a combination of biometric hand scanners, electronic card control systems, hi-resolution motion sensitive digital video surveillance systems and onsite personnel. Access into the facility is granted only after positive identification (both manual and biometric) has been established. Movement throughout the facility is further tracked by usage of electronic card keys.

The entire facility is alarmed and monitored with video cameras and off-site alarm monitoring services. Customers can access the building 7x24x365 via an intercom system and camera connected to the manned video surveillance system.

Carrier Facilities: There are currently 9 different Tier One IP carriers including XO, ICG, Time Warner, Level 3, Yipes, SBC, Cogent and Internap.

Power: Redundant 4000 AMP, 480-volt electrical feeds power the data center. This system provides automatic switching between two independent transformers located on the property.

Besides a total of One Megawatt of redundant UPS power, the facility houses a fully redundant 2,400 AMP, 48V, positive ground DC Telco power plant and distribution system. This system currently powers all fiber providers as well as carriers in our facility.

A fully redundant One Megawatt paralyzing UPS system, redundant Master and Emergency System Busses (MSB/ESB) and a 2 Megawatt Diesel Generator system with 3500 gallons of fuel, provides backup power for the facility.

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UPS power is fed into redundant Power Distribution Units and from there into Remote Power Panels (RPP). Each RPP is monitored to the circuit breaker level to ensure early warning overload protection. Redundant Powerware 500KW UPS System. Dual 4-Megawatt Feeds and Transfer Switches.

HVAC: Air conditioning and air handling services for the facility are provided by a series of three fully redundant 180-ton data center specific closed loop chiller systems. These systems provide over 500 tons of humidity and temperature controlled air conditioning to the data center.

Fire Detection & Suppression: Fire detection is provided by a facility-wide Very Early Warning Aspirating Smoke Detection System (VESDA). Each of the 30 CRAC units has its own detection monitor that is also connected to the VESDA system. Monitored both onsite and remotely, the VESDA units are but one piece of the Triple Interlock, Pre-Action fire detection and suppression system.

Backup:

All data and index files, documents, web sites, and production data and scripts are incrementally backed up on a nightly basis to the backup server/storage. Backups are done to both internal network backup servers and external storage devices located outside the physical data center facilities. Redundant hot sites are available at additional costs.

Additional Cost Backup Services:

[Mirrored Remote Site Realtime Backup](#)

\$3,500.00/month/application plus \$.005/page/year billed monthly

[Non-Mirrored Remote Site Daily Backup](#)

\$1,725.00/month/application plus \$.0025/page/year billed monthly