

MEDC Fall Conference

- Information & Communication Technology Infrastructure – Basics of Site Development

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Topics

1. Terminology
2. State of Business Technology
3. Business Value

Terminology

- Cloud Computing – Method of Storing / Accessing Information over Internet protocols
 - Public Cloud (Amazon, iCloud, Microsoft Azure)
 - Private Cloud (Hosting, Co-Location)
 - Hybrid Cloud
- Data Center: A facility used to house computer systems and associated components, such as telecommunications and storage systems. It generally includes redundant or backup power supplies, redundant data communications connections, environmental controls (e.g., air conditioning, fire suppression) and security devices. Also includes colocation, a subset of data centers.
- Hosting: The service of running servers on behalf of another party, allowing those organizations to focus on managing their applications, instead of hardware and operating system administration. There are various levels of service and various kinds of hosting offered (e.g. dedicated, shared, virtual, etc.).

Terminology

- Fiber Optics – current high level telecommunications infrastructure utilizing glass lines and light/lasers to transmit data at high speeds
 - Dark Fiber – infrastructure available (for lease) but not being used
- Cellular – Wireless communications transfer through network carriers
- Wi-Max – Private Wireless network covering a geographical area for increased coverage speed (business park or city)
- Wholesale Turnkey: A datacenter that is designed, supplied, built, or installed fully complete and ready to operate. The term implies that the end user just has to turn a key and start using the product or service.
- Build-to-Suit: A term describing a particular property, developed specifically for a certain tenant to occupy, with structural features, systems, or improvement work designed specifically for the needs of that tenant.
- Flex Building: A type of building designed to be versatile, which may be used in combination with office (corporate headquarters), research and development, quasi-retail sales, and including but not limited to industrial, warehouse, and distribution uses.

Speed is everything in the world of business

Deadlines
Timelines
Bottom lines



Telecommunications Carriers are making a significant investment to expand fiber optic networks across the state of Missouri.

Current State of Technology in Business

Applications keep getting bigger – Bandwidth slow to keep up



Current State of Technology in Business

More ways to connect than ever before.....



Important Technology Criteria

1. Wired Fiber Optic Infrastructure
 - a. Dual Entrance
 - b. Redundant Path
2. Solid Wireless Coverage
 - a. Cellular
 - b. Wi-Max

Business Value

The availability of fiber and cellular connectivity allows for a better experience

- Delivery of service is faster & more efficient
- Competitively priced product set
- Faster speeds
- Secure
- Reliable



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THANK YOU FOR YOUR TIME

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