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MIS 2501 Enterprise IT Architecture

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#### Flash Research Assignment: Data Centers and Networking

Tier III data center is a crucial upgrade to the business because of its technological advancement and consistent profit margin when compared to previous tiers. Although an availability increase of less than 1% seems minor, it will actually greatly increase profits for the business.

Improving your data center from Tier I to Tier III will allow you to increase availability, add distribution paths, and the new ability to use dual-powered equipment. Tier I availability is currently at 99.67%, compared to Tier III's 99.98%. This gives us a 0.31% better chance to not be available and hemorrhage money. Using Tier III data centers increase our distribution paths that are used for the IT equipment allowing us to also maintain availability. Dual-powered equipment is only a part of Tier III and higher. It allows us to avoid problems such as circuiting errors that lead to increased down time, but it will also increase maintenance opportunities for facility managers.

This is an excellent business move because of the profit that we will get out of using the Tier III data center. The initial cost to use the Tier III system will be \$35 million with a year of set up. In my chart, I add up and compare the total costs of Tier I against Tier III's. Using Tier III will result in only paying approximately 39% of the expected cost of down time if we continued to use Tier I. As usual, an investment will start out as a loss, but according to my research, we will start gaining profit in year 3 of using the Tier III data center. Thank you for your time and consideration.

## Works Cited Page

- 1.) "Data Center." Wikipedia. Wikimedia Foundation, n.d. Web. 22 Sept. 2016.
- 2.) @nixcraft. "Explain: Tier 1 / Tier 2 / Tier 3 / Tier 4 Data Center." Explain: Tier 1 / Tier 2 / Tier 3 / Tier 4 Data Center. N.p., n.d. Web. 22 Sept. 2016.
- 3.) @uptimeinstitute. "Dual-Corded Power and Fault Tolerance: Past, Present, and Future." Uptime Institute EJournal. Kevin Heslin [https://journal.uptimeinstitute.com/wp-content/uploads/2013/04/UI\\_Logo.png](https://journal.uptimeinstitute.com/wp-content/uploads/2013/04/UI_Logo.png), 20 Aug. 2014. Web. 22 Sept. 2016.