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Data Centers and Networking

By upgrading our current Tier I data center to a Tier III data center our company will save over $24 million a year. By upgrading our primitive data center from a Tier I system into a Tier III system our company will eliminate downtime and outages, as well as increase availability.

The Tier III system differs greatly from a Tier I system in redundancy and downtime. Our current Tier I system does not allow for redundant distribution paths, whereas a Tier III system does. A Tier III system has everything that a Tier I has, but also allows for multiple distribution paths and redundant components for our IT equipment. This will allow for less outages and will reduce downtime, by over a 1,500 hours, that our company faces using our systems. This just means that we are not dependent on one distribution path running the entire system. The multiple distribution paths act as a contingency plan if one path were to go down in the system.

Investing in a Tier III system will take approximately one year to build and cost our company $35 million, but this is a one-time fee. After implementing the Tier III system our company can expect to see a 3-year benefit of over $14 million. Replacing our Tier I system with this Tier III system will eliminate the outages costing our company $14,800 per minute. With a 99.98% availability, the Tier III system is .31% better than the Tier I system. Although this may not sound like a large margin, the higher availability of the system correlates to our company saving over $24 million a year. The increased availability of our system will provide our company with better accessibility, will reduce downtime, and will provide us with a return on the investment.

Sources

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