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2/4/15

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Data Centers and Networking

An investment in an upgraded infrastructure for our data center will save \$13.23 million *broader* over the next three years by significantly reducing system downtime. A Tier III system will introduce redundancy to our system and eliminate the susceptibility to unplanned outages and unavailability of our ERP system. The move from Tier I to Tier III data infrastructure will improve our system availability from 99.67% to 99.98%, *saving 13*

this means Upgrading to a Tier III data center means implementing a fault resistant solution to our system. *include* The main focus of the three part upgrade will be fault tolerance through system redundancy, dual power solutions for components, and multiple distribution paths for data transmission. These three system upgrades will allow for regular maintenance and planned outages for our system without causing system downtime for the end-user. In the event of catastrophe, any single component, power source, or data transmission path will have a redundant component to ensure continuity of operations. These three risk mitigation efforts combined as key pillars of our new Tier III data center will greatly increase our company uptime from 99.67% to 99.98% and will result in ~~great operational savings for the company.~~

Our current Tier I data center with a ^{of} 99.67% ^{costs} downtime is currently costing our company

~~\$14,800 per minute of downtime, \$25.6 million per year or \$76.8 million over a three year period.~~ *By upgrading to a T3 with 99.98% avail, our company will save 24.1 mil/ year*
The initial cost of increasing our system reliability will be \$35 million, ~~and as a result of~~ *and takes 1 year to upgrade.*
~~the improvements, years two and years three each will experience a savings of \$24.1 million.~~ *therefore, this will produce a \$24.1 mil benefit over a 3 year period as \$14,800 cost per minute of downtime due to the*
The upgraded hardware will not only ensure our company is able to process orders, make *for the years to come.* products, and fulfill orders without interruption, but will also produce a net benefit of \$13.23

million for this investment in three years.