Distributed Network Design

Name:

School Affiliation:

**Brief description of AT&T**

AT&T is a United States-based broadcastings company that deals in the provision of mobile telephone services together with fixed telephone services all over the U.S (Kleinfield, 2018). The company also owns Warner Media which is the biggest entertainment company in America. The company has its centre of operations at Whitacre Tower in Dallas, Texas, U.S.A. It is one of the largest companies in the United States being ranked number 9 in the Fortune 500 ranking of biggest corporations as of 2018 (Kleinfield, 2018).

**Benefits it would derive from distributed networking**

AT&T can derive several benefits from a distributed network architecture. To begin with, the company will be able to have a single central point where the load can be distributed among various local sites (Yu, Lin, Mišić & Shen, 2016). The sites will be physically separated from one another though connected through the internet and if one system fails, the others will continue operating without being affected. The distributed system, the data load will be well shared between different systems thereby making networking quicker and efficient. There will be no loss of configuration when the main server experiences problems. The central system will be able to oversee all operations and status of other sites (Yu, Lin, Mišić & Shen, 2016).

The other benefit that the company will derive is that it will be able to make changes and updates from the central server to the whole distributed network without hitches (Hanes, Salgueiro, Grossetete, Barton & Henry, 2017).The network administrator of at AT&T will be able to delegate some tasks to node administrators and focus on other tasks that are critical. The company will also benefit from having a network infrastructure that is more reliable and robust. It will be more secure and tolerant to setbacks (Hanes, Salgueiro, Grossetete, Barton & Henry, 2017).

### References

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