

## Project Proposal

## Project Proposal No: 1010

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### 1) Project Details

Project Name: Finance LAN Network

Departments/Campuses affected by the project: 10<sup>th</sup> Floor of Business

Date Submitted: November 20, 2023

### 2) Project Sponsor(s)

Name: Liam Hughes

Email: lhughes@stevenscollege.edu

Business: CNSA Floor 10

Department: Network Administrator

### 3) Project Description

*The plan of this project is to build a new server room on the 10<sup>th</sup> floor's original warehouse floor. This new server room will include a variety of different options given by me, as shown by this chart, ([Equipment.xlsx](#)). This chart includes the cost of the equipment needed in the project and other vital details to find the correct equipment you are looking for. The items within this excel sheet include:*

- **4 options are given that include HP and Cisco when it comes to edge switches.**
- **A single solution of a cisco switch used for the data center connecting to the many different floors of the building.**
- **Fiber necessities in the server room.**
- **Server racks for the equipment to be attached to.**
- **UPS (Uninterruptible Power Supply) Equipment options based on the other items that will be connected.**
- **Spare Parts for equipment**

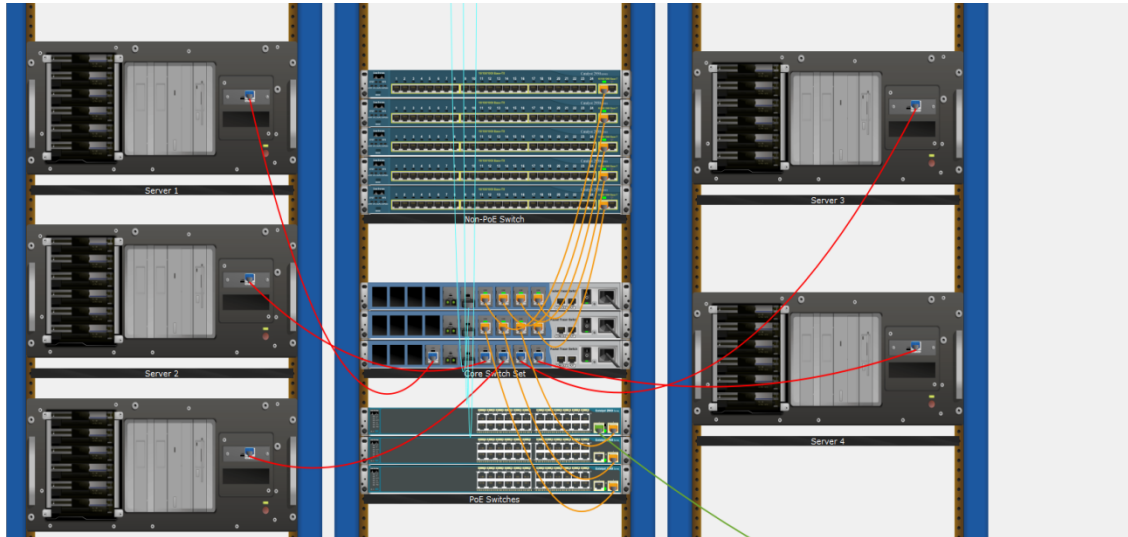
*This chart does not include:*

- **AC wall sockets are being added alongside the server room to power equipment.**

*Since the server room requires things to be powered the AC wall socket amount, we would need in the room ranges from:*

- **4-6 AC wall outlets needed.**
- **The outlets will be 120V at 20A.**

### Stacking Solution



(Close picture.)

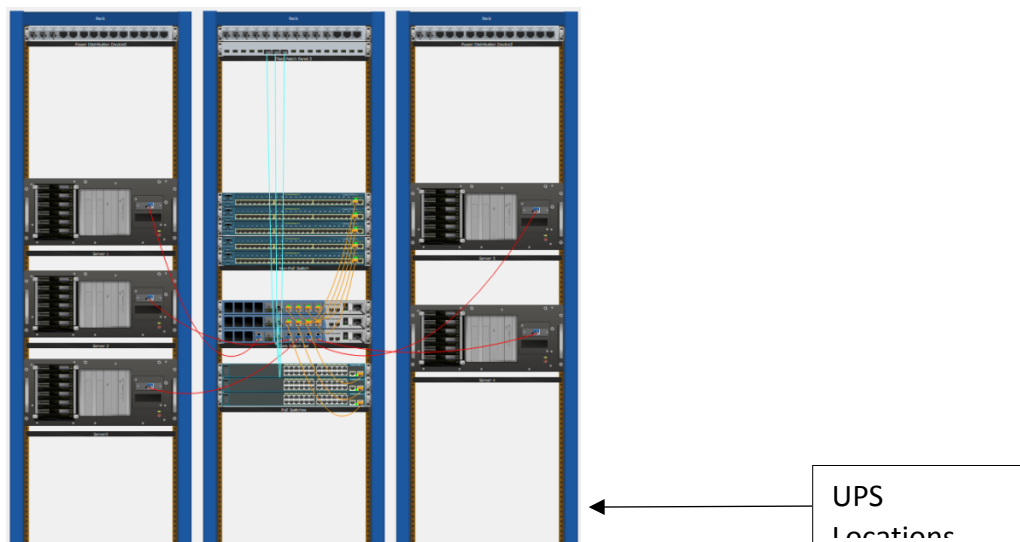
Servers- Connected with **Red** wires.

Fiber Optic Cables- connected to Panel (NOT seen in this picture)- **Blue** wires.

Edge Switch to Core Switch connections- **Yellow** wires.

*Connected to the Core Switches:*

- Servers
- Edge Switches (Uses their Trunk Ports)
- Fiber Optics



*The Uninterruptible Power Supplies will be on the lower racks of each server depending on what will be bought. The location of the switches allows for the servers to connect to them in an efficient manner.*

#### 4) Project Justification

This project is being done to allow the financial department to have access to network resources through this room. By doing this, it will increase the financial department's ability to gather resources they will need on our servers.

**A. What measures will you put in place to determine whether this project was a success?**

*I have made this a success by adding an extra for everything in case a problem arises. The measures I have put in place will make sure this is done within the reasonable period given within the supplied tasks given and will be expected to do their parts.*

**B. If you have information on specific benefits of performing this project, please summarize them below. This might include items such as cost savings or service improvements. Include the types and numbers of affected customers.**

*This will benefit the financial department, which handles our costs, by allowing them the access they need when they need it, for our improvement of life for the financial department and our company. This could increase our profits by more than enough to pay this server room off within the next 6 months.*

**C. Does this project support a University, Campus, or Department strategic plan?**

*This will benefit the financial department on the second floor of our building because of previously stated reasons.*

**4) Alternatives Considered (include the impact of no action)**

*If no action is taken the network will stay as it is and the financial department will not have the access this project will provide.*

**5) Timeline**

*If this project goes to plan without any implications involved. It is estimated that the time this new server room will take will be about 3 weeks once everything is received. Any implications could take this project 1 month maximum depending on what the circumstance is.*

**6) Resource Requirements**

Estimated labor hours: 40 hours a week/ 8 hours a day  
Estimated material costs: \$77,000-\$107,000

Labor			
Resource Type (Role)	Department/Campus	Estimated Hours	Description of Work
Network Administrator	IT ((On Site)	120 hours	Supervising/Setting up physical hardware
Network Engineers	IT (On Site)	120 hours	Setting up the network and physical devices.
IT (Information Technology) Support Technicians	IT (On site)	120 hours	Other jobs related to the server room. Helpers.
Electrician	Maintenace	20-40 hours	Setting up the AC sockets for the data center.
Total Hours:		120 hours	

## APPENDIX 1 - Project Approval Information

Project Name:

Project ID#:

Proposed By:

Sponsor:

Subcommittee:

Date of Review:

**Recommendation**

☐ This proposal is approved without reservation.

☐ Highest priority – Critical and urgent; greatest impact overall or best value improvement

☐ Moderate priority – Important and valuable; Impact is limited, or implementation costs unclear

☐ Low priority – Useful, but of limited applicable value or narrow utility

☐ This proposal is approved with these questions or concerns:

☐ This proposal is **not** approved, for these reasons:

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