Security Risks

* Physical
  + Theft and burglary
  + Vandalism
  + Natural disaster
  + Workplace violence
* Network
  + Internal security threats
  + Malware
  + Ransomware
  + Phishing attacks
  + DDoS attacks
  + Viruses
* Application
  + New technologies
  + Unnecessary accounts, services, or features
  + Infrequent updates to software and services
* File
  + Unencrypted data
  + Misassigned permissions
* User
  + Stolen identity of employees
  + Weak passwords
  + Two factor authentication
  + Social Engineering
  + User resistance
* Procedural
  + Enact day-to-day security practices like shredding of sensitive documents
  + Companywide security training

Also, what is the backup method to be used for SIM? Please explain why you've chosen this method.

Backup Method

I would use a hybrid backup system. I would use physical and cloud backups systems. Physical backups would ensure we can restore to a prior version of SIM if the cloud is unavailable. While the cloud would update the most frequently and be the easiest to restore from.

Maintenance Plan

**In-house maintenance:**

Pros:

* Higher knowledge of the business
* Fast response times for issues
* Management is able to establish workflows and control implementation

Cons:

* Team may not be specialized enough to handle each issue without outsourcing.
* Higher cost

**Outsourced Maintenance:**

Pros:

* Cost is typically lower for outsourced contracts than paying salary/medical/pensions
* Highly specialized expertise and work quality
* Business can concentrate on core business focus

Cons:

* Lack of control as managers may be unable to directly manage and set task priority
* Potential security risks
* Redundancy potential in management roles
* Potential negative impact on staff

System Costs and TCO

Using data gathered from previous projects I’ve produced this cost estimate. Yearly raises rise the maintenance cost by an estimated $1728 yearly. Spreadsheet is on the next page.

