Strayer University

[**Creating and Communicating a Security Strategy**](https://blackboard.strayer.edu/bbcswebdav/institution/CIS/333/1188/CIS333_ASSIGNMENT_1.pdf)

Week 4

[**Creating and Communicating a Security Strategy**](https://blackboard.strayer.edu/bbcswebdav/institution/CIS/333/1188/CIS333_ASSIGNMENT_1.pdf)

for the

Course of

Networking Security Fundaments

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**Introduction**

1. **Describe the business environment and identify the risk and reasoning**

Provide a brief description of all the important areas of the business environment that you’ve discovered in your research. Be sure to identify the reasons that prompted the need to create a security policy.

# Overview

The company’s name is Book Smart Inc and it is a startup company. It is working with major companies to sell different books all over the world. The internal company is a new facility which is a two-story stand-alone building. It is currently consisting of ten employees with a revenue of $10 million but is expected to grow to thirty employees with revenue of $30 million over the next two years. The company is mostly involved in selling books like amazon. It is an E-business activity which sales online only. In addition, its sales directed at consumers and to various business. An ecommerce company come with some challenges which must be taken seriously. It exposes the organization to possible attacks and threats which have been the most challenging issue for most network and the web administrators.

# Purpose

# This policy defines the requirements for all our computers used at Book Smart Inc to protect the

# data of our customers.

# Scope

This policy applies to all access to the computers in our company which can be remotely and, on the premises, so that our assets are protect from all kind of attack. All broken company computers would be properly disposed, and their hard drives, properly shielded to ensure they is no leakage of our customer information anywhere.

1. **Assemble a security policy**

Assemble a security policy or policies for this business. Using the memo outline as a guide, collect industry-specific and quality best practices. In your own words, formulate your fictional company’s security policy or policies. You may use online resources, the Strayer Library, or other industry-related resources such as the National Security Agency (NSA) and Network World. In a few brief sentences, provide specific information on how your policy will support the business' goal.

As this is the ECommerce business, our customer data is the most important asset to protect. To make sure this is done, we have established a safe and secure network for our company which will protect our assets which is our primary goal. This would be done by protected our network and computer using best practice so that customer transactions are encrypted. Moreover, they should be an internal network, which is to protect the internal assets and an external one, which is opened to the public for the ecommerce. It is put on a Demilitarized Zone (DMZ). Also, the network structure of our company is made up of two firewalls. The external firewall deal with the public and the internal one deal with our local area network which is the intranet. The IT department will use firewalls, intrusion detection systems and virus scanners to provide some assurance that the security policies for the internal and the external network are properly implemented. In addition, CIA must be applied to our company, which is a widely used benchmark for evaluation of information systems security, focusing on the three core goals of confidentiality, integrity and availability of information.

The servers of Book Smart Inc are the place where they hackers wants to get into most of the time. The Web Server host websites and delivers web content from the company websites over the internet. It follows a network protocol known as hypertext transfer protocol (HTTP**)** which handle web traffic, the Mail Server which is an application in a network whose purpose is to act as a post office. This server stores incoming mail for distribution to local employees and sends out outgoing messages. In addition, it handles the mails from our customers and employees all over the world. It uses a simple mail transfer protocol (SMTP), and finally, the File Server for the central storage and management of data files so that other computers on our company network can access the files. It allows employees to share information over a network of our company without having to physically transfer files by some other external storage devices. All these are connected to the switch and a single cable would connect to the Router which link to the internet. Moreover, a firewall is configured with strong restriction to order to handle the security of the network before connected these servers to the internet. This should be made difficult for some hankers to break into the network.

1. **Develop standards**

Develop the standards that will describe the requirements of a given activity related to the policy. Standards are the in-depth details of the security policy or policies for a business.

To be a trusted company, our customers data needs to be kept safe by protect the confidentiality, by preserve the integrity and by promote the availability of it for authorized use.

The Confidentiality of data is to keep its privacy from any unauthorized user. Those authorized users should be given only enough privilege to perform their duties, and no more. Some other synonyms for confidentiality are privacy*,*secrecy*,* anddiscretion. Moreover, the Confidentiality of the data are intended to ensure that no unauthorized access to information is permitted and that accidental disclosure of sensitive information is not possible. The only way to get to those data is by using login user IDs and passwords.

The Integrity of data is to keep it pure and trustworthy by protecting system data from intentional or accidental changes. This can be done by prevent unauthorized users from making modifications to data, prevent authorized users from making unauthorized modifications and maintain internal and external consistency of data.

The Availability of data is to keep it and resources available for authorized use, especially during emergencies. In addition, there is a business continuity plan in place. This will put the company on a continually pace to ensure the business can continue to exist in the event of a disaster. Moreover, there is a software defensive method and a disaster recovery plan which make sure everything runs smoothly.

1. **Develop practices**

Develop the practices that will be used to ensure the business enforces what is stated in the security policy or policies and standards.

#### The confidentiality, integrity and availability of information must be achieved by granting access only to authorized personnel. In addition, applying encryption to information that will be sent over the Internet is going to be taken seriously because of the type of the business we are involved in. All the employees must use their access card into the building and not letting other people behind access. All Bluetooth devices more especially mobile phone must use Secure Simple Pairing with encryption enabled on our company network. In addition, the broadcast of SSID must be disabled. To make the hackers not search on google for some information of the devices, the default SSID name, the default login and password must be changed on any new device connected to the company network.

# Definitions and Terms

The following definition and terms are used in this document.

* **Applications**: It is any program, or group of programs, that is designed for the end user
* **Computer Architecture: It** is a set of rules and methods that describe the functionality, organization, and implementation of computer systems.
* **Conversion**: It is the strategies involved in **converting** data from an existing system to another hardware or software environment
* **Economy:** It is the wealth and resources of a country or region, especially in terms of the production and consumption of goods and services.
* **Interfaces: It is** a device or program enabling a user to communicate with a computer.
* **Network:** It is a set of computers connected for the purpose of sharing resources.

### **Risks**: Are the uncertain event or condition that, if it occurs, have positive or negative effect on a project's objectives

**Bibliography.**

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