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## The Importance of the CIA Triad

The CIA Triad was developed with the hopes of creating safety guidelines and policies with the intention of keeping sensitive information secure. The abbreviation CIA stands for confidentiality, integrity, and availability. Combining these 3 principles and incorporating them into the workplace will stand as a preventative and standard for higher security. Furthermore, it is important to note that authentication and authorization are not the same. Authentication refers to the action of verifying a person's identity, while authorization is focused on which resources authenticated the individual should be given entry to. (2021, SailPoint)

### Confidentiality, Integrity, and Availability

What exactly do the terms, confidentiality, integrity, and availability mean?

Confidentiality is referring to the countermeasures to reduce the risk of valuable information from reaching unwanted hands. Next with integrity, the information then needs to remain unaltered and untouched throughout its time within a system and with any transitioning periods the data may have. Finally, availability ensures that the information of importance is made accessible to anyone who has the authorization to work with or see it. (2021, Wesley) To make sure that these policies are met, specific procedures must be set in place by the company's security team as a response.

### Example:

For instance, if a shoe designer is trying to access his designs saved on the company's data server. The company needs to ensure that there are policies in place that identify that associate (authentication) to then give them the authorization to the designs requested. That user and anyone else who is allowed to access the data should be strictly the only ones allowed to alter that data. Furthermore, that information should be under a high security protocol that enforces this and minimizes any chance of alterations when the data is transported or not being used. These steps and procedures will be necessary and should be considered for all companies or businesses with sensitive data.

## Works Cited

Chai, Wesley. "What Is the CIA Triad? Definition, Explanation and Examples." *WhatIs.com*, TechTarget, 29 Jan. 2021, <https://whatis.techtarget.com/definition/Confidentiality-integrity-and-availability-CIA>.

"What Is the Difference between Authentication and Authorization?" *SailPoint*, 20 July 2021, <https://www.sailpoint.com/identity-library/difference-between-authentication-and-authorization/#:~:text=Simply%20put%2C%20authentication%20is%20the,a%20user%20has%20access%20to>.