Elizaveta Vos

Categorization Homework Week 1

Company Description: Stark Industries, led by Tony Stark, is a global powerhouse known for its groundbreaking advancements in technology, aerospace engineering, and defense systems. From its headquarters in New York City, Stark Industries pioneers innovations in robotics, artificial intelligence, and clean energy solutions, all while upholding a commitment to peacekeeping and humanitarian efforts. Assisting Stark in his endeavors is J.A.R.V.I.S. (Just A Rather Very Intelligent System), the company's highly advanced AI assistant, providing invaluable support in research, development, and day-to-day operations.

System Description: J.A.R.V.I.S. – advance artificial intelligence assistant. J.A.R.V.I.S. can assist in research, analysis, decision-making, while serving as a trusted ally and integral part of S.H.I.E.L.D. J.A.R.V.I.S.'s advanced capabilities contribute to S.H.I.E.L.D.'s efforts to maintain order, protect humanity, and respond to various crises, making him an invaluable asset to the organization.

NIST800-60 General Categorization:

1. Confidentiality: High. The loss of confidentiality could be catastrophic. There are special factors affecting the confidentiality impact. The confidentiality of information handled by J.A.R.V.I.S. is of utmost importance and classified as high. A breach in confidentiality could have catastrophic consequences, as J.A.R.V.I.S. manages sensitive data crucial to Stark Industries' operations and security. Special factors affecting confidentiality include the nature of proprietary technology, classified research data, and strategic plans, all of which demand stringent protection measures to prevent unauthorized access or disclosure.
2. Integrity: High. The loss of integrity could be catastrophic. There are special factors affecting the integrity impact. Any compromise in data integrity could lead to severe repercussions, ranging from compromised research findings to manipulated operational directives. Special factors affecting integrity include the risk of data tampering, falsification of records, or the introduction of malicious code, all of which could undermine trust in the accuracy and reliability of information processed by J.A.R.V.I.S.
3. Availability: High. The loss of availability could be catastrophic. There are special factors affecting availability impact. J.A.R.V.I.S. plays a critical role in facilitating real-time communication, analysis, and decision-making processes within Stark Industries and S.H.I.E.L.D. The special factors affecting availability include the potential disruption of services due to system failures, cyberattacks, or physical damage to infrastructure. Although the impact may not be as immediately catastrophic as breaches in confidentiality or integrity, the loss of availability could still result in substantial disruptions to operations and hinder response capabilities during critical situations.

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| **Security Objective** | **Impact** | **Level Justification** |
| Confidentiality | High | Might cause a severe degradation in or loss of mission capability to an extent and duration that the organization is not able to perform one or more of its primary functions. Any unauthorized access to this information could have catastrophic consequences, potentially compromising national security or proprietary technology. |
| Integrity | High | Might cause a severe damage to organization assets and/or catastrophic harm to individuals involving loss of life. Any manipulation, alteration, or corruption of data could lead to erroneous decisions, compromised research findings, or compromised operational directives. |
| Availability | Moderate | The disruption of access to or use of information or an information system might result in significant financial loss. While the loss of availability could significantly impact operations and response capabilities, it is categorized as moderate compared to confidentiality and integrity. J.A.R.V.I.S. plays a vital role in facilitating real-time communication, analysis, and decision-making processes within Stark Industries and S.H.I.E.L.D. |