E-VARA (Third Iteration)

Ethical Violation Analysis and Risk Assessment

A diagram of impact rating

Description automatically generated

System Identification: Identifying the system being evaluated by E-VARA.

Asset/Function Identification: Identifying the asset ot function within the system being evaluated by E-VARA.

MLLC Phase Identification (Optional): Identifying the phase of the asset MLLC being evaluated.

%3CmxGraphModel%3E%3Croot%3E%3CmxCell%20id%3D%220%22%2F%3E%3CmxCell%20id%3D%221%22%20parent%3D%220%22%2F%3E%3CmxCell%20id%3D%222%22%20value%3D%22Likelihood%22%20style%3D%22rounded%3D1%3BwhiteSpace%3Dwrap%3Bhtml%3D1%3B%22%20vertex%3D%221%22%20parent%3D%221%22%3E%3CmxGeometry%20x%3D%22351%22%20y%3D%22583%22%20width%3D%2290%22%20height%3D%2230%22%20as%3D%22geometry%22%2F%3E%3C%2FmxCell%3E%3C%2Froot%3E%3C%2FmxGraphModel%3E

Value Identification: Identifying the value being assessed for risk. The values will be chosen based on the AIVMDB.

Value Violation: List the value violations being assessed for risk.

Impact Rating (**Severe**, Major, Moderate, Negligent).

Ecosystem Impact Rating: Rating the impact of the violation on the ecosystem. Impact on the ecosystem includes potential harm to resources and ecosystems, harm to global supply chain or financial systems, and harm to natural resources and the planet (Tabassi, 2023).

Organizational Impact Rating: Rating the impact of the violation on the organization. Impact on the organization includes potential harm to business operations, security breaches, monetary loss, and harm to reputation (Tabassi, 2023).

People/Human Impact Rating: Rating the impact of the violation on people. Harm to people includes harm to an individual’s civil liberties and rights to physical and economic safety, harm to groups such as discrimination against a sub-group of a population, and societal violations such as harm to educational access to democratic participation (Tabassi, 2023).

Value Violation Scenarios: Each value violation scenario represents a different type of scenario that could lead to the violation.

Violation Path: The value violation path(s) represent the different types of ways the violation can be achieved. Violation paths are meant to be described as a series of steps.   
 Likelihood Rating: The likelihood rating (Very High, High, Medium, Low, Very Low) represents the probability of the violation path happening.

Risk Score: The risk score will be determined using the Risk Score Matrix, based on the highest Impact Rating and the highest Likelihood Rating as indicated in Figure 8.

<<read more in the user manual>>

**System Identification:**

Define the target of this evaluation or the system under development.

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**Asset Identification:**

Define the asset within the system being evaluated by E-VARA.

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**MLLC Phase Identification:**

Define the asset MLLC phase. (Data Management, Training, Testing, Deployment, full cycle)

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**Value Identification and Value Violation Scenarios:**

Identify the chosen value that is to be protected. Identify possible consequences or damage scenarios of compromise (Ecosystem, Organizational, Human)

**Chosen Value:** ---

**Impact Rating:**

List the different value violation scenarios and evaluate the possible impact in each of the 3 categories.

Ratings:(Severe, Major, Moderate, Negligible)

|  |  |  |  |
| --- | --- | --- | --- |
| Value Violation | Ecosystem | Organizational | Human |
| --- | -- | --- | --- |
|  |  |  |  |
|  |  |  |  |

**Violation Scenario Identification and possible path analysis:**

List each value violation scenario along with the possible paths for each scenario with respect to the chosen value, system asset, and MLLC phase.

|  |  |  |
| --- | --- | --- |
| VV1 - Violation Scenarios | possible path | Steps |
| --- | --- | --- |
| --- | --- |
|  |  |
| --- | --- | --- |
| --- | --- |
|  |  |  |

**Path Feasibility Ratings:**

Rate each possible value violation path on likelihood. (High, Medium, Low, Very Low)

You may use the Likelihood scale recommendation tool to determine the rating.

|  |  |
| --- | --- |
| VV1VS1 - Possible value violation path | Likelihood |
| --- | **---** |
| --- | **---** |
| VV1VS2 - Possible value violation path | Likelihood |
| --- | --- |
| --- | --- |
|  |  |
|  |  |
|  |  |
|  |  |

**Risk Determination**

Based on the possible path feasibility level, and the value violation scenario impact rating, determine the risk level.

Use the highest reported level for each violation scenario (highest attack path feasibility and highest damage scenario impact rating)

|  |  |  |  |
| --- | --- | --- | --- |
| Value Violation Scenario | Possible path feasibility (highest) | Damage scenario impact rating (highest) | Risk level |
| VV1VS1 | --- | --- | **---** |
| VV1VS2 | --- | --- | **---** |
|  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Impact\Likelihood | Very Low | Low | Medium | High | **Very High** |
| Severe | 1 | 3 | 4 | **5** | **6** |
| Major | 1 | 2 | 3 | 4 | **5** |
| Moderate | 1 | 2 | 2 | 3 | 4 |
| Negligent | 1 | 1 | 1 | 1 | 3 |