5.2.1.1 CRIPAL

CRIPAL is an acronym the author has established to cover the following high level 'primary' security goals (the following definitions are the author's own): -

- C = Confidentiality The restriction of information and/or assets (both physical and logical) to authorised entities/individuals only.
- R = Reliability The ability to access and use information and/or assets (both physical and logical) consistently without disruption
- I = Integrity The maintaining of information and/or assets (both physical and logical) in their complete and intended form.
- P = Privacy The ability for an entity/individual to choose with whom to share their 'Private' information and/or assets (both physical and logical), without concern of impermissible access and/or use.
- A = Availability Constant and timely access to information and/or assets (both physical and logical) for authorised entities/individuals.
- L = Legitimate Use Use of information and/or assets (both physical and logical) is undertaken by authorised entities/individuals who have the legal rights to conduct actions through propriety.

A vulnerability will be characterised by one or more of the letters of this acronym that relate to the specific categories above, e.g., if the vulnerability exposes Confidentiality as a weakness, a "C" will be placed in the CRIPAL column.

5.2.1.2 STRIDE

STRIDE is a method used by Microsoft [19] to help categorise threats during software development. In the context of this project, STRIDE helps to add a low level granularity to the previous 'CRIPAL' column. Similarly to CRIPAL above, any of the letters that make up the STRIDE acronym can be used as an entry within the TVAC table.

The STRIDE acronym is explained in more detail through Table 2 below: -

STRIDE Categories	STRIDE Definition	More Common Interpretations
(S)poofing	Using another person's	Authentication,
	authentication information, such as User ID & Password.	Masquerade, Man in the Middle.
(T)ampering	Malicious modification of data.	Integrity Violations.
(R)epudiation	Users who deny performing an action. Non-repudiation refers to the ability of a system to counter repudiation threats.	Non-Repudiation.
(I)nformation	Information/data exposure to	Confidentiality and/or
Disclosure	individuals who are not	Privacy Violation.
	supposed to have access to it.	
(D)enial of	Deliberate attempt to prevent	DOS (Denial or
Service	legitimate users from using a	Disruption of service),
	service or system.	DDOS. Reliability &
		Availability Violation.
(E)levation of	Where an unprivileged user	Access Control.
Privilege	gains privileged access. An	
	example of privilege elevation	Permissions and
	would be an unprivileged user	Rights Violation.
	who contrives a way to be	
	added to the Administrators	
	group.	

Table 2. STRIDE Table.