

		Consequence				
		Insignificant	Minor	Moderate	Major	Catastrophic
Likelihood	Rare					
	Unlikely					R2
	Possible		R1			
	Likely					
	Certain					

Figure 1 Risk Matrix

Consider the risk matrix in Figure 1.

- a) How many risk values are defined by the matrix?
- b) Assume R1 and R2 are risks with respect to the asset privacy. Draw a syntactically correct and consistent CORAS threat diagram representing both R1 and R2 as defined by the risk matrix in Figure 1. Argue why it is consistent.
- c) Modify your CORAS threat diagram from **b** in such a way that it is inconsistent even if it is incomplete? Argue why it is inconsistent.
- d) Assume the system for which the risk matrix in Figure 1 is valid, is updated in such a way that the risk R1 disappears, the risk R2 becomes rare (with the consequence unchanged) and we get a new risk to privacy R3 whose consequence is catastrophic. Draw a syntactically correct and consistent CORAS threat diagram in the before-after style matching the new situation in such a way that your old diagram from **b** is equal to the before part.
- e) Define a qualitative consequence scale for the asset privacy matching Figure 1.
- f) Define a likelihood scale based on frequencies matching Figure 1.