



Research Paper - Compromise of IoT/PLC/Embedded Devices

Course: CYBR3020 - Vulnerabilities and Exploits (E01,E02.1251)

Criteria	Exemplary	Proficient	Emerging	Not Demonstrated	Criterion Score
Defined Report Components	3 points Report includes a title page, ToC, page numbers, header, and is formatted according to the parameters specified	2 points Report includes all but one of the specified components	1 point Report lacks two or more of the specified components	0 points Report not formatted according to specified parameters, or report submitted late	/ 3
IoT issues	15 points IoT issues are described in sufficient breadth and depth that both technical and non-technical persons can gain practical understanding from reading	10 points IoT issues are described with only one to two items requiring further clarification for understanding	5 points Several IoT issues are discussed however clarification on more than two issues is required for laypersons to understand	0 points IoT issues not described, or report submitted late	/ 15

Criteria	Exemplary	Proficient	Emerging	Not Demonstrated	Criterion Score
IoT potential exploits	<p>15 points</p> <p>List of IoT issues and how they may be exploited is articulated clearly to both technical and lay audiences</p>	<p>10 points</p> <p>List of IoT issues and how they may be exploited lacks one to two common issues but is otherwise clearly communicated</p>	<p>5 points</p> <p>List of IoT issues and how they may be exploited requires further articulation for full understanding</p>	<p>0 points</p> <p>List of IoT issues and how to explain them not described, or report submitted late</p>	/ 15
IoT issue remediation / Mitigation	<p>15 points</p> <p>IoT issues listed include clearly articulated remediation or mitigation processes that can be applied practically are comprehensively described</p>	<p>10 points</p> <p>IoT remediation or mitigation processes are described aside from one to two items requiring further clarification</p>	<p>5 points</p> <p>More than two remediation or mitigation processes require further detail/clarification for complete understanding</p>	<p>0 points</p> <p>IoT issue remediation or mitigation processes not described, or report submitted late</p>	/ 15

Criteria	Exemplary	Proficient	Emerging	Not Demonstrated	Criterion Score
Real world example	15 points Example clearly describes a previously described IoT issue and paraphrases the details of the industry example as it relates in the chosen news article	10 points Example chosen describes a previously described IoT issue, but one to two items lack clarity necessary for complete understanding	5 points Example is described but association is not drawn between identified IoT issue, and the example chosen	0 points Real world example not described, or report submitted late	/ 15
Real world example prevention strategy	15 points Prevention strategy for chosen IoT issue from respective news article described clearly and comprehensively	10 points Prevention strategy for chosen IoT issue from respective news article described with one to two items requiring additional clarification	5 points Prevention strategy for IoT issue described, however more than two items require clarification for understanding	0 points Prevention strategy from IoT news article not described, or report submitted late	/ 15

Total

/ 78

Overall Score

Level 4

3 points minimum

Level 3

2 points minimum

Level 2

1 point minimum

Level 1

0 points minimum