Exercise Week 10: IoT Devices

Due Mar 27 at 11:59pm **Points** 7 **Questions** 7 **Available** until Mar 27 at 11:59pm **Time Limit** None

Instructions

This exercise asks questions about the following IoT scenario:

A VRBO owner has a smart phone app to control the following IoT devices in a rental unit in a vacation condo complex:

- thermostat to adjust the temperature of the furnace
- · indoor lights
- · lock with keypad
- · water value for main water supply

The VRBO owner can control the IoT devices over the Internet from a smart phone app.

The IoT devices inside the unit communicate via the Zigbee wireless communication protocol.

Renters can control the following IoT devices in the following ways while in the unit:

- enter code into keypad
- manually turn thermostat up or down
- · turn lights on and off with voice commands

The condo complex has a perimeter camera that provides a video feed to the condo owners that they can access from their phones after entering a password.

The VRBO owner installed a device that activates an outdoor light when motion is detected. The motion detector with outdoor light is not connected to the smartphone app or any IoT devices inside the unit.

Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	33 minutes	7 out of 7

Score for this quiz: **7** out of 7 Submitted Feb 14 at 11:02am This attempt took 33 minutes.

	Question 1	1 / 1 pts
	Which is an example of an element?	
	Changing temperature	
Correct!	Thermostat	
	Video feed password	
	Zigbee protocol	

	Question 2	1 / 1 pts
	Which two devices are inside the same authorization boundary?	
	Keypad and perimeter camera	
Correct!	Thermostat and water valve	
	Motion sensor and inside lights	
	Inside lights and outside lights	

Question 3 1 / 1 pts

Correct!

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	Which device is an enabling system for the VRBO owner?
	CLock
	Thermostat
Correct!	Perimeter camera
	Water valve

The water valve IoT device does not have a password that can be set. The VRBO owner creates a segmented network for all of the IoT devices inside the unit that is password controlled. What is the term for what the VRBO owner has accomplished with the segmented network? Compensating control Vulnerability disclosure

Question 5 1/1 pts

The thermostat has a sensor that detects the temperature in the room.

What is the term for this part of an IoT device?

Predisposing condition

Secure development

The thermostat communicates using the Zigbee wireless communication protocol. What is the term for this part of an IoT device? Network interface Enabling element Predisposing condition Control baseline

When a renter is scheduled to arrive at the unit, the VRBO owner uses the smartphone app to turn on the water, raise the temperature, turn on some inside lights, and activate the keypad code provided to the renter. What is the term for this scenario? Use case

Correct!

Key device cybersecurity requirement
Supply chain practice
Likelihood of occurrence

Quiz Score: 7 out of 7