PROMPT

Identify and analyze a device that is an IoT device now, but in the past was a non-IoT device. Describe and list the features of the device. Compare the functions of the device in the past to the functions of the device now.

A lock that is digital and connected to the Internet is an IoT device now, but in the past was a non-IoT device in its original form.

Functions of a IoT-enabled Digital Lock now:

1. The IoT-enabled digital lock can be accessed remotely from anywhere using a smartphone, to lock/unlock the door, grant access to others
2. The IoT-enabled digital lock no longer needs a traditional physical key to operate. It can now lock/unlock using PIN codes, fingerprint biometric scans, etc.
3. The IoT-enabled digital lock can integrate with a Smart Home System to allow the creation of. customized routines and control multiple devices simultaneously.
4. The IoT-enabled digital lock can have activity and log monitoring to record and track who accessed the lock and when
5. The IoT-enabled digital lock has Security Alerts and Notifications when certain unexpected events occur, such as a door being left open, multiple incorrect access attempts, or an unauthorized access attempt

Functions of a Lock in the past:

- It is just a physical lock that can only be physically locked/unlocked with a key.

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For your chosen IoT device, list any improvements or any diminishments if they exist, over the non-IOT device. Describe any limitations that are present in the new IoT version of the device.

Improvements:

1. Remote access to the lock using a smartphone
2. Can lock or unlock using more than just a physical key, including pin code and fingerprint
3. Can monitor and track who accessed the digital lock, and when
4. Can raise alarms or send alerts when anomalous access to the lock happens

Diminishments:

1. IoT-enabled digital lock has exposure to cybersecurity risk
2. Requires a larger space to install the IoT-enabled lock

Limitations:

- It requires batteries to operate