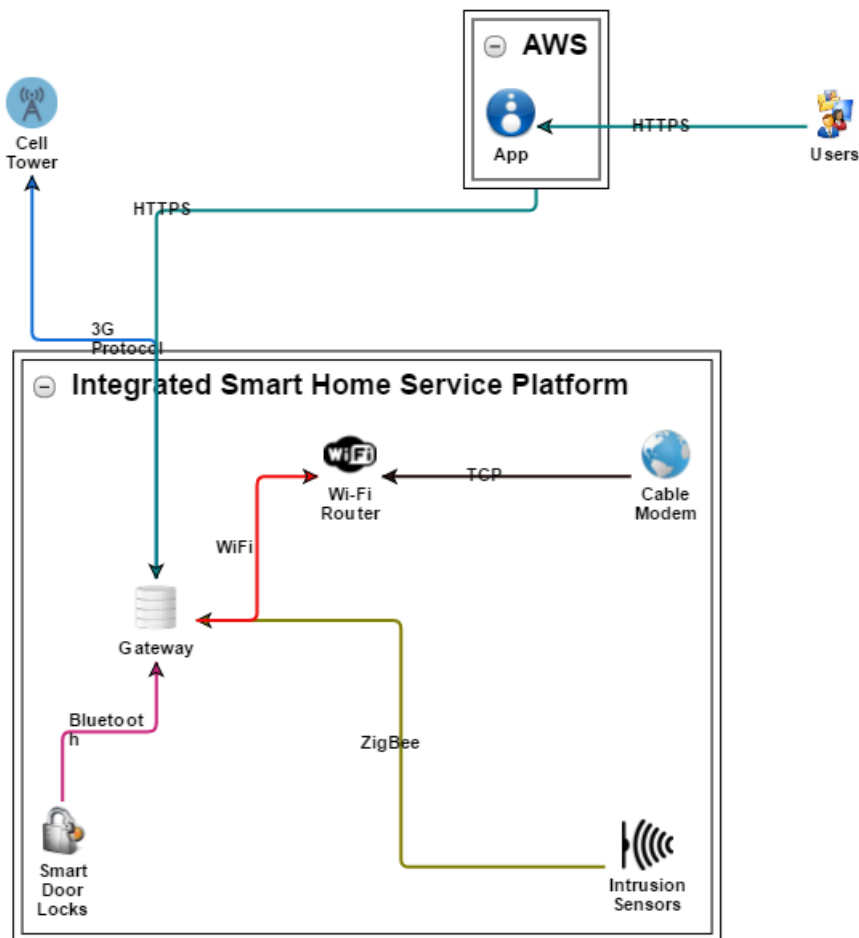


Smart Home - v.1

02/27/2017

Threat Model



Threats

Threat	Source	Risk	Status	Date Created
Man in the Middle Attack	Gateway	Critical	Closed	05/18/2016
Misconfiguration of Encryption	Gateway	High	Closed	05/18/2016
WiFi Jamming	Gateway	Very Low	Closed	05/18/2016

Unencrypted and Unauthenticated communications	Gateway	High	Closed	05/18/2016
Man in the Middle Attack	Bluetooth	Critical	Closed	05/18/2016
Denial of Service - WASC	Bluetooth	Medium	Open	05/18/2016
Eavesdropping	Bluetooth	Critical	Open	05/18/2016
Packet Sniffing	ZigBee	Medium	Open	05/18/2016
Adding False Nodes	ZigBee	High	Open	05/18/2016
Keys are shared over the entire network and stored in flash memory.	ZigBee	High	Open	05/18/2016
Man in the Middle Attack	WiFi	Critical	Open	05/18/2016
Password Cracking	WiFi	Critical	Open	05/18/2016
WiFi Credentials Exposed	WiFi	Critical	Open	05/18/2016
Hardcoded Crypto Keys	WiFi	Critical	Open	05/18/2016
Radio Jamming	Intrusion Sensors	Critical	Open	05/18/2016
Radio Jamming	Smart Door Locks	Critical	Open	05/18/2016
Dictionary-based Password Attack	Wi-Fi Router	High	Open	05/18/2016
Password Brute Forcing	Wi-Fi Router	High	Open	05/18/2016
Man in the Middle Attack	Wi-Fi Router	Critical	Open	05/18/2016
Password Cracking	Wi-Fi Router	Critical	Open	05/18/2016
WiFi Credentials Exposed	Wi-Fi Router	Critical	Open	05/18/2016
Hardcoded Crypto Keys	Wi-Fi Router	Critical	Open	05/18/2016
TCP SYN Scan	TCP	Low	Open	05/18/2016
TCP Window Scan	TCP	Low	Open	05/18/2016
TCP RPC Scan	TCP	Low	Open	05/18/2016
key Transport	ZigBee	Critical	Open	05/20/2016
Key Establishment	ZigBee	Critical	Open	05/20/2016
Key Rotation	ZigBee	Critical	Open	05/20/2016
Device Tampering	ZigBee	Critical	Open	05/20/2016
Passive Attack to Decrypt Traffic	WiFi	Critical	Open	05/20/2016
Active Attack to Inject Traffic	WiFi	Critical	Open	05/20/2016
IMSI paging attack	3G Protocol	Critical	Open	05/20/2016
Authentication and Key Agreement AKA protocol attack	3G Protocol	Critical	Open	05/20/2016
Hack WiFi Password	Intrusion Sensors	Critical	Open	05/23/2016

Sniffing the Unencrypted PIN	Intrusion Sensors	Critical	Open	05/23/2016
Spoofed Sensor Readings	Intrusion Sensors	Critical	Open	05/23/2016
Exploiting Incorrectly Configured SSL Security Levels	HTTPS	Low	Open	05/24/2016
Browser Exploit Against SSL & TLS - BEAST	HTTPS	Medium	Open	05/24/2016
Hack WiFi Password	Smart Door Locks	Critical	Open	05/25/2016
Sniffing the Unencrypted PIN	Smart Door Locks	Critical	Open	05/25/2016
Spoofed Sensor Readings	Smart Door Locks	Critical	Open	05/25/2016
Spoofing	TCP	Critical	Open	11/03/2016
WiFi Jamming	WiFi	High	Open	01/17/2017
Hack WiFi Password	WiFi	Critical	Open	01/17/2017
Denial of Service through Resource Depletion	3G Protocol	Medium	Open	01/17/2017
Elevation of Privileges	3G Protocol	High	Open	02/26/2017
Identity Spoofing - Impersonation	3G Protocol	Medium	Open	02/26/2017
Spoofing	3G Protocol	Critical	Open	02/26/2017
Sniffing Attacks	3G Protocol	Medium	Open	02/26/2017
Bluejacking	Bluetooth	Critical	Open	02/27/2017
Bluesnarfing	Bluetooth	Critical	Open	02/27/2017
Bluebugging	Bluetooth	Critical	Open	02/27/2017
Man in the Middle Attack	HTTPS	Critical	Open	02/27/2017
Denial of Service - WASC	App	High	Open	02/27/2017