Monthly Security Awareness /Trends
June '16

IoT Security Concerns and Challenges

What are the concerns

There will be an increase in the threat associate with the IoT as the deployment of devices grow. This growth will introduce many new threats and vulnerabilities into our environment by the simply increase the number of network aware devices connected to our infrastructure.

Within IS we will have more to track and verify as trusted or not trusted in our environment. We will need to identify more and more risks and vulnerabilities to deployed assets. Our perimeter security will be the focal point of attention as it will provide the first line of defense and will take the of the assault as cyber threats look to exploit these devices to gain a foothold in our network.

In the study, "2016 Emerging Technology Domains Risk Survey," CERT examined the security of areas such as smart sensors, one of the enabling technologies of IoT.

The US Trade Commission chairwoman summarized the challenges of the IoT:

- Ubiquitous data collection
- Insecure hardware
- Impact on physical world

Worldwide IoT Security Spending Forecast

(Millions of Dollars)

Year	Amount
2014	$231.86
2015	$281.54
2016	$348.32
2017	$433.95
2018	$547.20
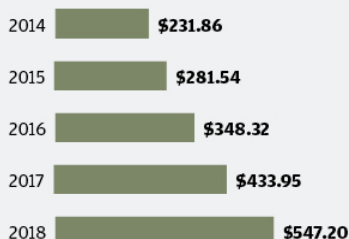
SOURCE: GARTNER (APRIL 2016)

Platte County Email Scam

The Platte County Treasurer's office fell victim to a Business Email Compromise (BEC) just before the Memorial weekend. The email came from what staff thought was a legitimate internal account belonging to the Platte County Presiding Commissioner. The email tricked staff into sending a wire transfer of $48,220 to the cyber criminal's bank. Although officials were able to stop more than half of the transfer from going through this is a good lesson in security awareness training and having incident response plans in place.

How to avoid these types of cyber crimes

Do not open attachments from unknown senders. JCCC has systems in place to flag email that comes from outside senders that impersonating a JCCC email address. Look for the heading "Suspicious Sender" in the subject line. Never provide passwords in an email.