8 Dec 2016

Preserving Cellphone Privacy - Countering IMSI Catcher Technology (1:10-1:50 pm ET)

and

Stream-Splitting Moving Target Network Defenses (2:00-2:40 pm ET)

Mark your calendars and come join your friends in the CAE community for a Tech Talk. We are a warm group that shares technical knowledge. CAE Tech Talks are free and conducted live in real-time over the Internet, so no travel is required. You can attend from just about anywhere (office, home, etc.) Capitol Technology University (CTU) hosts the presentations using their online delivery platform (Adobe Connect) which employs slides, VOIP, and chat for live interaction. Just log in as “Guest” and enjoy the presentation(s).

Below is a description of the presentation(s) and logistics of attendance:

**Date:** Thursday 8 Dec 2016

**Time:** 1:10-1:50 pm ET

**Location:** [https://capitol.adobeconnect.com/cae_tech_talk/](https://capitol.adobeconnect.com/cae_tech_talk/)

Just log in as “Guest” and enter your name. No password required.

**Title/Topic:** Preserving Cellphone Privacy - Countering IMSI Catcher Technology

**Audience Skill Level:** All Levels

**Presenter(s):** Dr. Bill Butler (Capitol Technology University)
Description:

International Mobile Subscriber Identity (IMSI) Catcher technology is being used by its operators to compromise consumer cell phone privacy within the United States. These compromises of consumer cell phone privacy are conducted by illegal intercept and MitM attacks. Despite efforts by organizations concerned with privacy, such as the American Civil Liberties Union (ACLU), to inform the U.S. Congress, and the public, of the threat, no significant legislation has resulted to direct network operators to protect consumers. Today, countermeasures are being developed by scientists, software and hardware vendors, however these measures have not been categorized within an accepted framework such as the National Institute of Standards and Technology Risk Management Framework (NIST RMF) for consumers to evaluate these countermeasures against the three pillars of cyber security confidentiality, integrity and availability.

Date: Thursday 8 Dec 2016

Time: 2:00-2:40 pm ET

Location: https://capitol.adobeconnect.com/cae_tech_talk/

Just log in as “Guest” and enter your name. No password required.

Title/Topic: Stream-Splitting Moving Target Network Defenses

Audience Skill Level: All Levels

Presenter: Josh Klosterman, Daniel Burwitz, and Jacob Williams (Dakota State University)

Description:

This project aims to research Multipath TCP and Multi-homed Networking, and apply those concepts towards a Moving Target Defense. This is done by sending TCP streams over the internet using different routes and paths, making it harder for an attacker to intercept any useful information. We’re creating our own implementation, and we hope this will benefit our nation’s cyber security efforts in the future.

CAE Tech Talks are also recorded

Recordings of live presentations are posted to the website below:

https://capitol.instructure.com/courses/510/external_tools/66

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For questions on CAE Tech Talk, please send email to CAETechTalk@nsa.gov