



Spring 2017

IOT SECURITY COUNCIL

The Internet Society defines Internet of Things (IoT) to mean “the extension of network connectivity and computing capability to objects, devices, sensors and items not ordinarily considered to be computers. These ‘smart objects’ require minimal human intervention to generate, exchange and consume data; they often feature data collection, analysis and management capabilities.”

Analysts are forecasting over 26 billion IoT connections by 2020 for a wide variety of applications in many industries, including industrial, energy, automotive, smart city, healthcare, freight/logistics, and home automation. The pervasiveness of connected devices and the impact that they will have on society demand proactive discussion of potential security vulnerabilities and architectures/technologies that have been designed to mitigate the vulnerabilities. Security vulnerabilities have already been found in initial IoT implementations; it is critical for the growth of the market that security and privacy be designed into the IoT ecosystem.

The Secure Technology Alliance IoT Security Council was formed in 2016 to develop and promote best practices and provide educational resources on implementing secure IoT architectures using “embedded security and privacy.” The Council will focus on IoT markets where security, safety and privacy are key requirements and will leverage the industry expertise and knowledge gained from implementing embedded security technology for payment, identity, healthcare, transport and telecommunications systems to provide practical guidance for secure IoT implementations. The Council will provide a unified voice for the industry to the broader IoT ecosystem.

IOT SECURITY COUNCIL PRIORITIES

The Council works on projects to provide educational resources and define best practices for securing IoT applications and ecosystems. The Council will work on projects to:

- Accelerate market adoption of secure IoT architectures that incorporate embedded security and privacy
- Provide a forum for intra-industry and cross-industry collaboration on secure IoT architectures
- Provide a business-focused organization to discuss best practices and implementation of IoT architectures using embedded security and privacy
- Provide a single organization where all industry stakeholders can network, share implementation experiences, and discuss applications and security approaches
- Identify and collaborate with other industry organizations to define and promote standards for secure IoT architectures using technologies that provide embedded security and privacy

COUNCIL ACTIVITIES

The Council has focused its launch activities on educating members and developing initial educational resources. Projects have included:

- Identifying priority vertical markets, use cases and projects
- Developing a framework for discussions on the IoT ecosystem and security requirements
- Publishing a white paper on embedded hardware security for IoT applications
- Developing and launching the content portal, www.IoTSecurityConnection.com

Interim Leadership Committee

Willy Dommen, Accenture (chair)
Gonda Lamberink, UL
Sami Nassar, NXP Semiconductors
Christopher Williams, Exponent

Council Members

ABC Corp
Accenture
Advanced Card Systems Ltd.
Allegion
American Express
CardTek USA
CH2M
Chase Card Services
Conduent
Consult Hyperion
CPI Card Group
Datawatch Systems
Defense Manpower Data Center
Discover Financial Services
Entrust Datacard
Exponent, Inc.
First Data

FIS
Fiserv
G+D Mobile Security
Gemalto
Hewlett Packard Enterprise
HID Global
Identification Technology Partners Inc.
Infineon Technologies
Ingenico
Initiative for Open Authentication
Interac Association/Acxsys Corporation
Intercede Limited
IQ Devices
Lenel Systems International
LTK Engineering Services
Mastercard
Metropolitan Transportation Authority
Metropolitan Transportation Commission
NextGen ID, Inc.
NXP Semiconductors
Oberthur Technologies
Quantum Secure Inc.

Rambus
Safran Group
SAIC – Science Applications International Corporation
San Francisco Bay Area Rapid Transit District (BART)
Scheidt & Bachmann USA
SHAZAM
SigNet Technologies, Inc.
Southeastern Pennsylvania Transportation Authority (SEPTA)
STMicroelectronics
SureID, Inc.
TSYS
Tyco Software House
U.S. Department of Transportation/Volpe Center
Underwriters Laboratories (UL)
Valid USA
Vantiv
Verifone
Visa Inc.
XTec, Incorporated

FIND IOT SECURITY COUNCIL RESOURCES ONLINE:

www.securetechalliance.org/activities-councils-internet-of-things-security