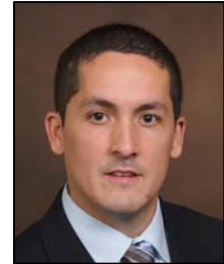


**Application Threat Modeling: Evolving Risk Management of Business Applications**

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Professional Techniques Track – Session T33

**Abstract:**

The objectives of the presentation is to provide a thorough understanding as to what is application threat modeling, how and when it is applied, and its numerous benefits in understanding risk for key application environments. Attendees will have the opportunity to learn about practical applications for threat modeling, integration components to an SDLC methodology, integration points for enterprise security and business operations, as well as its ability to elevate risk management efforts beyond control gap analysis and compliance risk.

The presentation will empower security professionals within security operations, governance, risk management, vulnerability management, incident response, as well as professionals in IT operations and development to understand how their respective processes become integrated within a threat model's correlative analysis of enterprise security data. Risk managers will be able to improve upon their risk analysis by incorporating exercises that include data flow diagramming, application decomposition, vulnerability analysis, penetration testing, log analysis and beyond. Ultimately, attendees will be able to apply basic levels of application threat modeling to extend beyond vague assessments that do not transcend beyond very security and IT groups within an enterprise.

**Target Audience:**

Target audience members are those who have previous IT or Security experience across multiple security and IT domains. Their occupational roles may encompass any one of the following:

- Audit,
- Risk Management
- Vulnerability Management
- Application Security
- Security Architecture
- Network Operations
- Compliance
- Project Management
- Software Development
- Security Governance
- Security Operations
- Incident Response

**COBIT Objectives:**

PC1,PC2,PC5  
AC1,AC2,AC3,AC4,AC5,AC6  
PO1,PO2,PO3,PO4,PO9  
A11, A12, A13  
DS3,DS4,DS5,DS6,DS7,DS9,DS10,DS11  
ME1,ME2,ME3,ME4

**Speaker Bio:**

In the realm of application security, **Tony UcedaVelez** is a threat modeling evangelist and has provided numerous talks domestically and globally on its many benefits and application. He has served as a guest mentor to teams participating in Kennesaw State University's annual Cybercrime capture the flag event as well as a Cybercrime speaker for Southern Polytechnic University in Atlanta (2009). He has also served as a guest speaker on the subject of application threat modeling during ISACA's annual Geek Week event and has also served as a keynote speaker on the subject for ISACA's Global Symposium web cast series. Additional articles include articles related to CoBIT and the ValIT model (ISACA's Journal), application threat modeling within the SDLC (InSecureMagazine), and security process engineering for a ROSI (return on security investment) (Journal of Finance). He is currently working on a book for Wiley Associates on the topic of Application Threat Modeling.