

Cyber-Secure Product Development (CSPD)

- **Purpose:** Technology companies of all kinds, the old legacy kind that is legacy IT (post mainframe) and the kind that run industrial control systems were designed with security and privacy as an afterthought, something to be bolted on later. We've known this and used these very words in describing the current state of cybersecurity. The new kind of technology, in large measure defined by the Internet of Things (IoT) and Industrial IoT is making the very same mistake. Security can be designed in – in a way that is part of the systems development lifecycle. The way to do this is defined in the book *Security in a Web 2.0+ World* written by Carlos Solaris of SCG. The purpose of this consulting service is to aid technology companies with how this can be done. Companies like Facebook in spectacular fashion are finding out the need for this now late and with all manner of consequences for failing to understand that protecting privacy, like security is a civic and corporate responsibility. SCG offers this very specialized service to work with your development teams in how they design in security into the technology that makes the revenue for the company.
- **Level of Effort:** The LOE is determined by a project scope worked out with the client.
- **Owner:** The owner of the deliverables would be at the appropriate C-Level executive; CTO would be the most direct owner.
- **Key Elements of the Work:**
 - **Analysis:** To determine how the technology is intended to work, how it will connect to networks, how maintained / patched / updated, the end-use, control system use and management (administrator) use are all parts of the discovery. Other parts of the analysis will cover the market, density of deployment and effectively how it will operate with what data, and the expected threat associated with efforts to hack technology. All these requirements are used to determine the system security and privacy requirements and how they will be met at the engineering, design, development, deployment and operational stages of the technology.
 - **Scoping.** To determine the scope of the effort
 - **Implementation:** Moving the concepts into practice.
- **The Solution Package:** The list of deliverables for this service offering includes:
 - Deliverable 1: Word Document and PowerPoint Executive Summary of the Analysis and Scope to implement the projects
 - Deliverable 2: Security / Privacy added to the SDLC tailored to the organization. Published as an update to the existing SDLC document.
 - Deliverable 3: Advisor to the CTO in implementing the security / privacy modified SDLC to see it practiced by the product development teams
 - Deliverable 4: Management Progress Reports

Features of CSPD

- Enhanced SDLC for Security and Privacy
- Adoption of security / privacy practices by the development teams

Benefits of SD

- Ability to market the security / privacy to the customers
- Protection against adversaries
- Clarity for how to integrate the technology within the networks to implement the security / privacy features.