



Secure SAP – Our approach to securing SAP assets
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About the Speakers

Brian Laughlin

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- Information Security Advisor
- Eli Lilly and Company





Global Fast Facts

A heritage more than **140 years strong**,
founded on May 10, 1876



Headquarters located in
Indianapolis, Indiana, U.S.A.



Approximately **38,000 employees** worldwide



More than **8,000 employees** engaged
in research and development



Clinical research conducted
in more than **55 countries**



Research and development
facilities located in **8 countries**



Manufacturing plants located in **8 countries**



Products marketed in **120 countries**

Key Outcomes/Objectives

1. Detection Is a Must
2. Focus On Risk
3. A More Secure SAP Solution Is a Balance



Framework Implementation

The success of the implementation of an Information Security Framework depends on the engagement of the following:

- People
- Process
- Technology

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SAP Information Security Governance

Governance	
People	SAP Security Architects SAP Basis / DBA SAP Support Services Information Security
Process	Change Management Incident Management Risk Management Security Management Security Operations
Technology	Internal and External Standards and Frameworks



Cybersecurity Framework

Lilly aligned Information Security with the NIST Cybersecurity Framework



Framework Implementation

Identify

Develop the organizational understanding to manage cybersecurity risk to systems, assets, data, and capabilities.

Protect

Develop and implement the appropriate safeguards that support the ability to limit or contain the impact of a potential cybersecurity event.

Detect

Develop and implement the appropriate activities to identify the occurrence of a cybersecurity event.

Respond

Develop and implement the actions to take in light of a detected cybersecurity event in order to contain the impact.

Recover

Develop and implement the appropriate activities to maintain plans for resilience and to restore any capabilities or services that were impaired due to a cybersecurity event.



Framework Implementation - Identify



Identify	
People	SAP Security Architects SAP Basis / DBA SAP Support Services
Process	Information Classification Security Documentation System Validation Process Controls
Technology	External tools, consulting, internal knowledge to create awareness of threat environment.

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Framework Implementation - Protect



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Protect	
People	SAP Security Architects SAP Basis / DBA SAP Support Services
Process	IS Training - Phishing / Information Handling Change Management (Configuration / Data) Incident Management Security Management Vulnerability Risk Management / Patching
Technology	SAP environment manual and automated monitoring Password management tools SAP patching Code scanning tools Configuration database

Framework Implementation - Detect



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Detect	
People	SAP Security Architects SAP Basis / DBA SAP Support Services
Process	SAP Audit Log SAP Change Log SAP DBTABLOG Process Controls
Technology	SAP environment manual and automated monitoring SAP process controls monitoring SIEM aggregation tools Configuration database

Framework Implementation - Respond



Respond	
People	SAP Security Architects / Basis / DBA SAP Support Services
Process	Business Continuity Plan Change Management Corrective And Preventive Actions Incident Response Plan Incident Management Problem Management
Technology	SAP environment manual and automated monitoring Configuration database SIEM aggregation tools Incident ticketing tools

Framework Implementation - Recover



Recover	
People	SAP Security Architects SAP Basis / DBA SAP Support Services
Process	Incident Response Plan Disaster Recovery Plan Disaster Recovery Exercise Backup and Restore
Technology	Configuration database Backup and Recovery tools Incident ticketing tools



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Presentation Materials

Access the slides from 2019 ASUG Annual Conference here:

<http://info.asug.com/2019-ac-slides>

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Q&A

For questions after this session, contact either of us at laughlin@lilly.com or soughan_daryl_lee@lilly.com.

The Lilly logo is written in a red, cursive script font.The ASUG logo is written in a bold, grey, sans-serif font.

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