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Americas' SAP Users' Group

Learn about Microsoft's Security & Compliance journey as applicable to SAP on Azure & SAP Cloud solutions

Aaron Hillard, SAP Security Lead, Microsoft
Shalini Gupta, Platform Program Manager, Microsoft

Session ID # 82194

About the Speakers

Aaron Hillard

- SAP Security Lead
- Have been involved with application security (including SAP) for over 22 years, 18 years at Microsoft
- I have two Portuguese Water Dogs that do not like water (they love snow)

Shalini Gupta

- SAP Platform Program Manager
- Have been at Microsoft for 11 years and have SAP Supply Chain & Privacy Experience in Technology, Retail and Automotive Industries
- I have a Havanese Puppy named Charlie, I am learning about Obedience Training

Key Outcomes/Objectives

1. Share Lessons Learned, Best Practices and Experiences
   - Providing Microsoft's Vision of SAP Application Security, Controls & Privacy on Azure
   - Microsoft's S4 Application Security, Compliance & Privacy Vision
   - Security, Compliance & Privacy Initiatives

Agenda

- Emphasis on Security, Compliance & Privacy at Microsoft
- Increased focus in the industry on Cybersecurity
- SAP at Microsoft
- Our Charter
- Microsoft Business Application Services (BAS) Overview and Program Structure
- Our Security Standards and Compliance Framework
- Where we are headed
  - Evolution of our role over the years
  - Growing Footprint
  - Scope of work

Emphasis on Security & Compliance at Microsoft

- **$90B+** business supported by SAP at Microsoft
- Among leading companies in the world with focus on security & compliance
- “Personally Identifiable Information” considered top-most priority
- Microsoft enables the “Intelligent Cloud”
- Increased focus on security & compliance
- This begins with our enterprise computing systems

“Microsoft focuses on four pillars:

- **Privacy** to ensure data is private and under control;
- **Compliance** to make sure data is in accordance with the law;
- **Transparency** around data collection and usage;
- and
- **Data Security**”

*- Satya Nadella, CEO Microsoft**

[Microsoft CEO Satya Nadella: Security Is The 'Most Pressing Issue Of Our Time']

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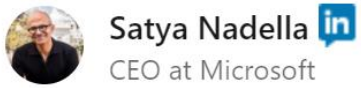
34 Companies Stand Up for Cybersecurity with a Tech Accord



Satya Nadella

CEO at Microsoft

Digital technologies and cloud computing have transformed our world for the better, yet cyber threats continue to put people and organizations at risk. As **Brad Smith** said, addressing this is a shared responsibility across the tech industry and with governments. The Cybersecurity Tech Accord is a significant step forward in protecting communities around the world from cyberattacks.

[34 companies stand up for cybersecurity with a tech accord](): Brad Smith, Chief Legal Officer, Microsoft, April 17, 2018

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Our footprint is growing…. The best of both - Infrastructure & Business Clouds

Legend

SAP on Azure

SAP Cloud

Cloud Business	Productivity Software		Devices		Professional Services		Core Service Lines	
Subscription Billing	Volume Licensing	Subscription Billing	Budget	Plan	Manage Projects & Contracts	Forecast Utilization	Finance	Payroll & HR
	Partner Payouts		Source	Execute	Manage Expense		Master Data Governance	GRC & Global Trade

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SAP At Microsoft

★ SOX Relevant Systems

ERP — ECC 6.0 EhP6 ★

Finance/Corporate Services: Finance, Controlling, Accounting, Enterprise Controlling, Treasury, Project Systems, Financial Services, Real Estate, Corporate Finance Management, InHouse Cash Center, Rev Acc & Report

FI CO AC EC TR
PS FIN RE CFM IHC

Human Capital Management: Personnel Administration, Benefits, Organizational Management, Talent Management, Personnel Time Management, Payroll

RAR

PA BN OM TM PT
PY

Supply Chain Management: Sales and Distribution, Materials Management, Logistics, Logistics Execution

SD MM LO LE

Add-On: Core Country Version for Central and Eastern Europe

CEE

GTS — 10.1

Global Trade Services: Compliance Management, Customs Management

CON CUS

TREX: for Sanction Party List Screening

TREX

SCM — 7.0 EhP2

Supply Chain Management: Demand Planning, Event Management, Supply Network Planning, Global ATP Check

DP EM
SNP gATP

MDG — ECC 6.0 EhP7 ★

Master Data Gov: Business Partners

BP

Others

BOBJ Data Services 4.2
PI/XI NW 7.3 Process Integration
DUET Enterprise 2.0
Tidal Enterprise Scheduler
BSI Tax Factory

Vertex Sales Tax
RealTech
Others

Concur

SuccessFactors

SuccessFactors

IBP

Integrated Business Planning

BPC 11.1 on HANA

Business Planning & Consolidation

BPC

HANA

HANA

BI/BPC — 8.1 ★

Business Planning & Consolidation, BI

BPC
BI

OERDSC NW 7.4 9.2

Object Event Repository: Secure Track and Trace Scenario

STT

Add-On: Auto-Infrastructure ID

AIN

HYBRIS CI/RMCA ★ — ECC 6.0 EhP7

Convergent Invoicing: Receivables Mgmt, Contract Accounting

RM CA

IS: Telecommunications

IS-T

OER NW 7.0 EhP2 ★

Object Event Repository: Secure Track and Trace Scenario

STT

Add-On: Auto-Infrastructure ID

AIN

CC — 4.0

Conv. Charging: Direct Billing, Rating

BL
RT

Ariba Network

Ariba Business Network

Ariba Sourcing

Ariba Direct Sourcing

SMG — 7.2

Solution Manager: Custom Development Management Cockpit, Maintenance Optimizer, SAP Support Services

CDM MAI
SER

GRC — 10.1

Governance, Risk & Compliance

GRC

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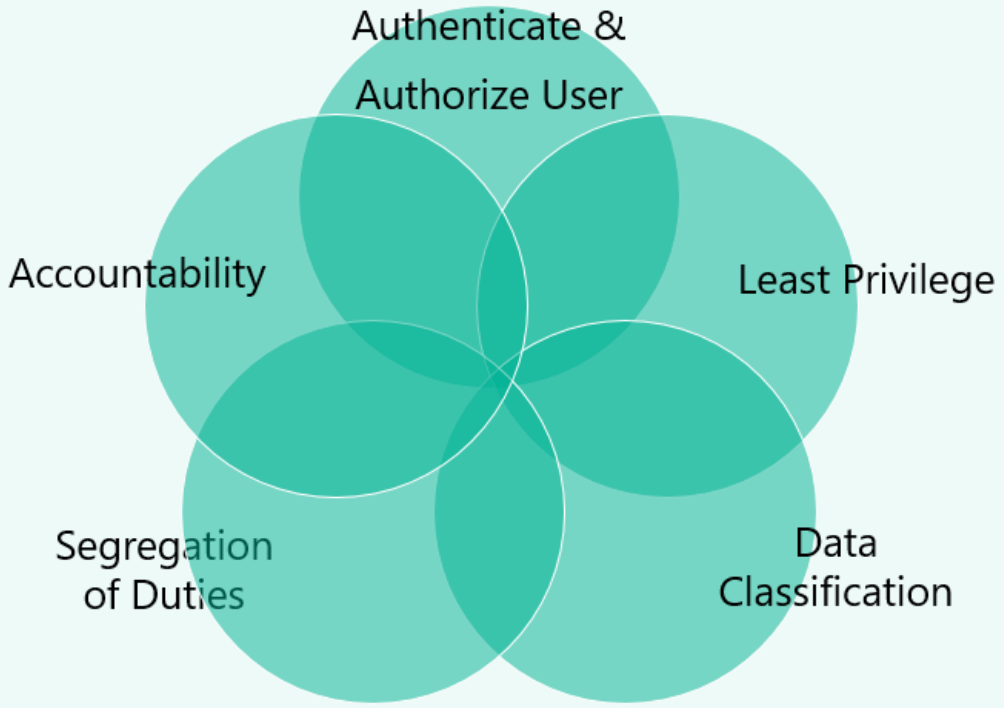
Our Charter

- Enable Engineering/Support Team Access
- Enable Interface/Non-Dialogue User Access
- Enable End User Access



Security & Risk

- Security Monitoring
- Security Incident Management
- Threat & Vulnerability Management
- Risk Management

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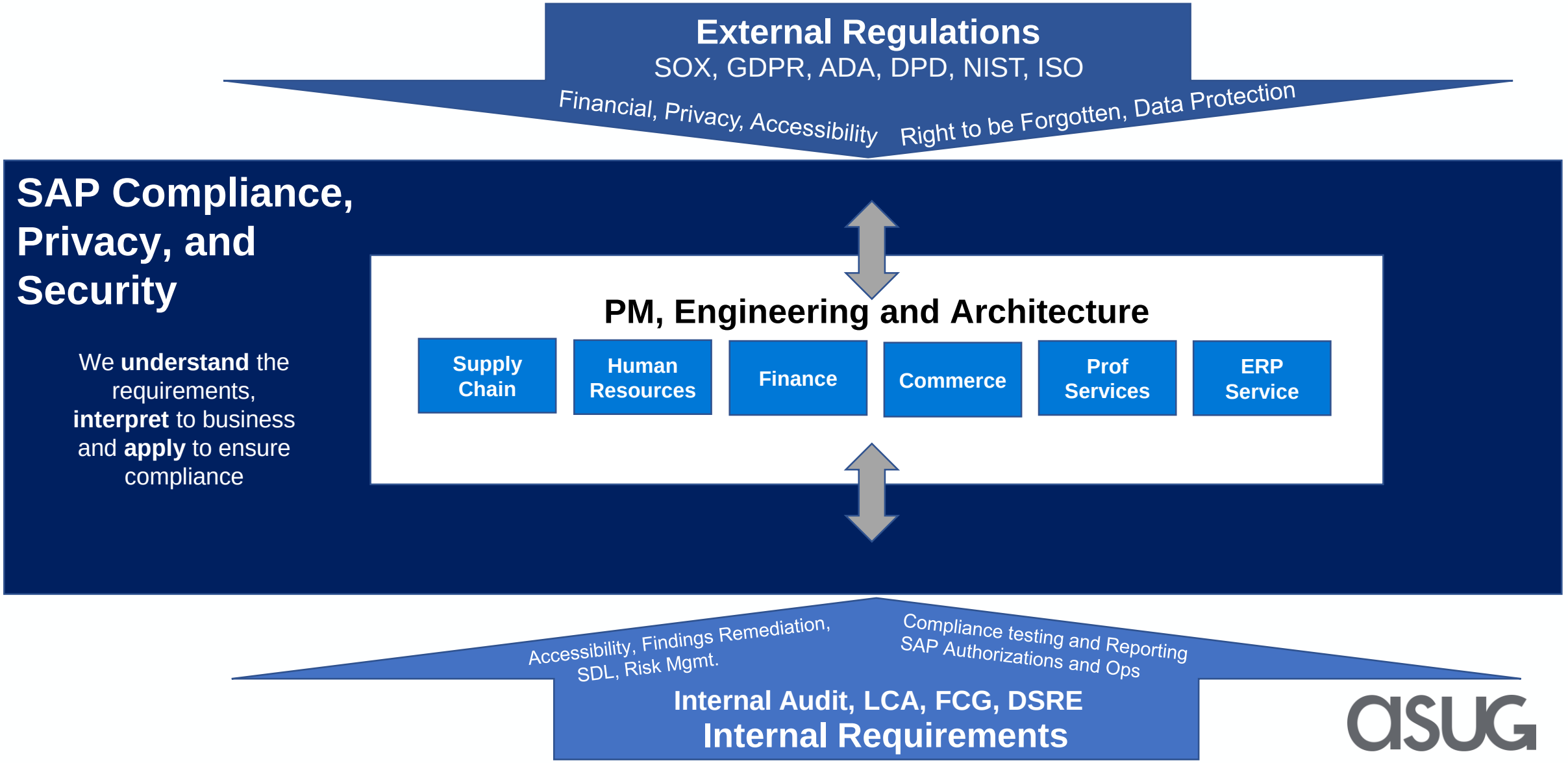
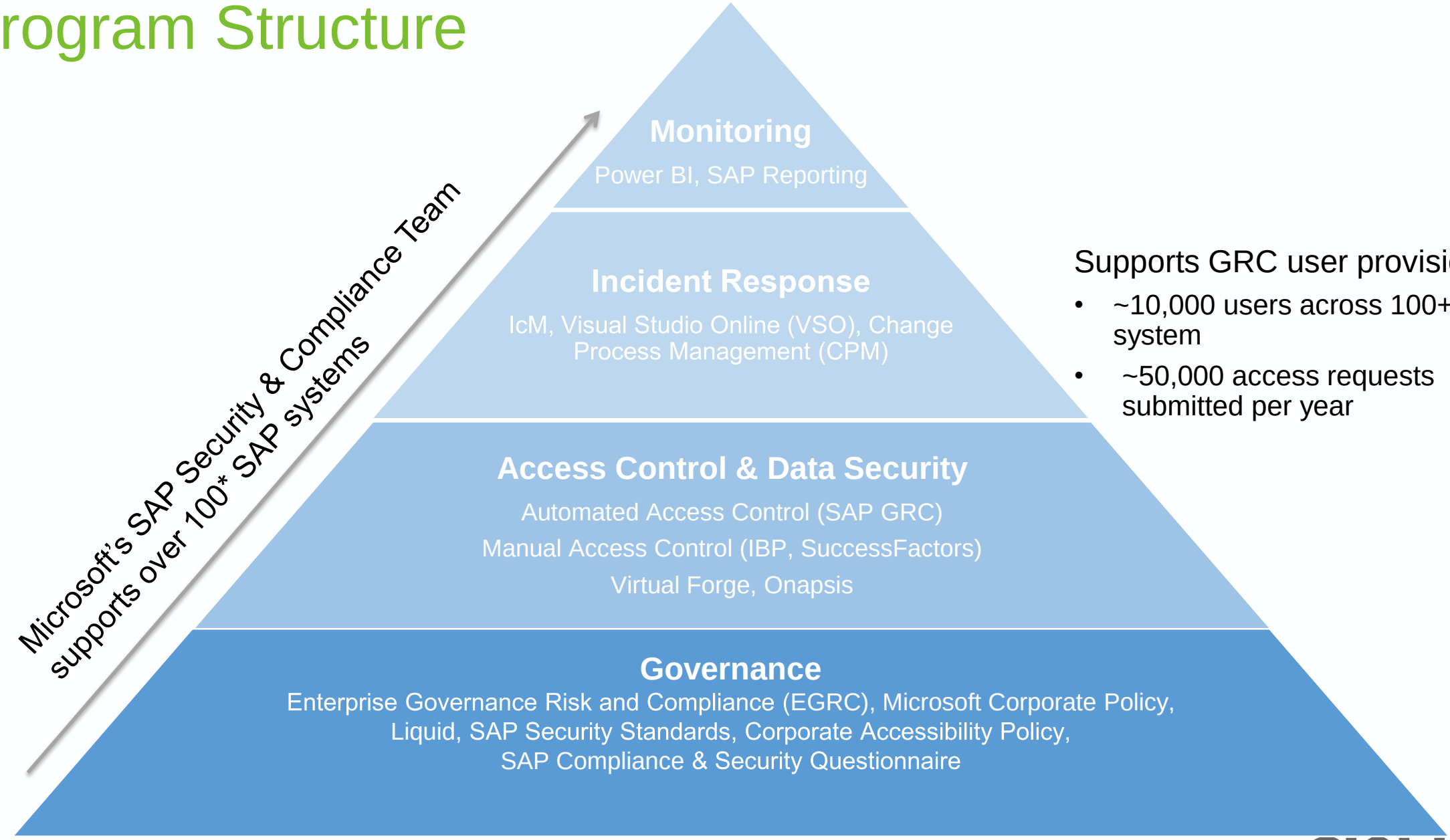
Microsoft SAP Overview



Program Structure

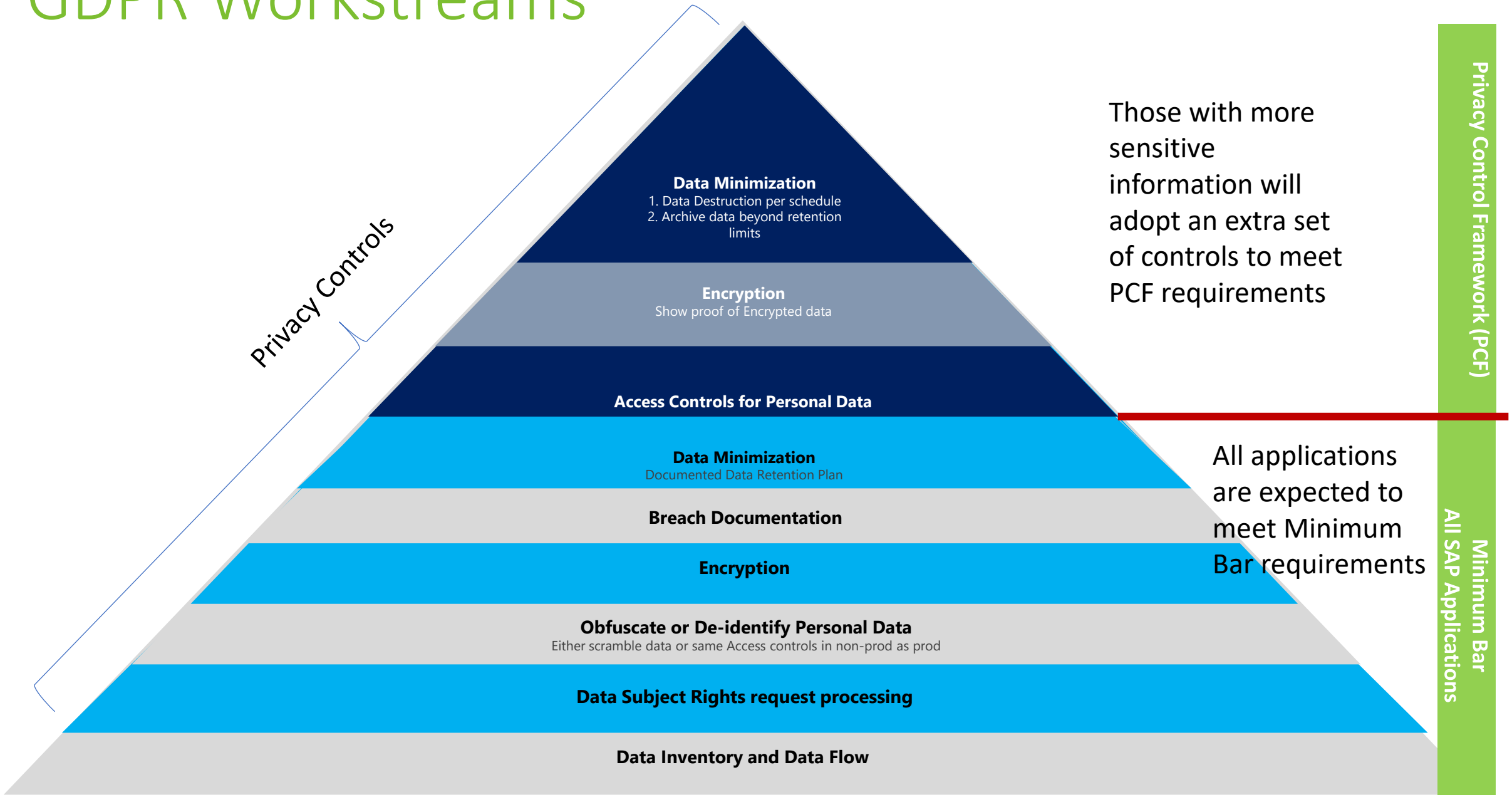


Supports GRC user provisioning

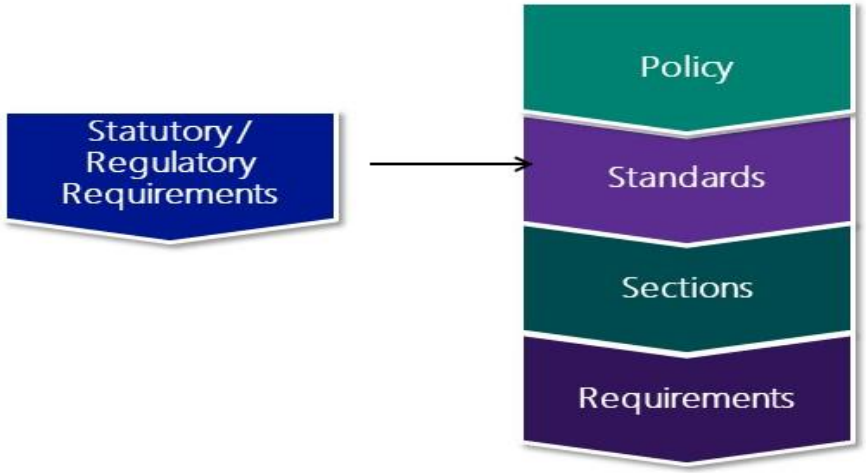
- ~10,000 users across 100+ SAP system
- ~50,000 access requests submitted per year

*Prod & Non-Prod

GDPR Workstreams



Our Security Standards and Compliance Framework



Policy (Why)
- A statement of intent from a governing authority that guides Microsoft business decisions in order to direct organizational actions in pursuit of long term objectives.

Standards
- Standards are a collection of sections for a given area (e.g. Software Development Lifecycle). Having similar sections consolidated together strengthens Standards, facilitates better consumption, and increases end-user adoption.

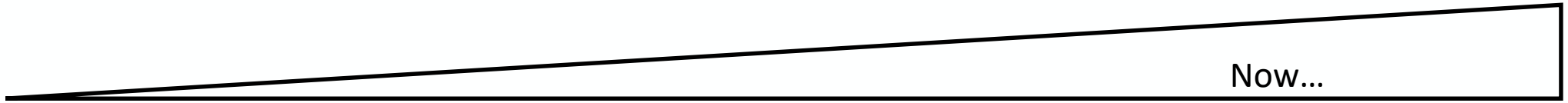
Standard Sections (What)
- Standards Sections are a collection of similar content and guidance for a given area. They contain the largest amount of content of any component and explain exactly "What" you must do to comply.

Requirements (How)
- Individual Requirements provide end-users with simple but direct guidance of "How" to comply with a Standard Section.

Statutory / Regulatory Requirements (Authoritative Sources)
- Assure Microsoft is meeting external obligations.

Our evolution in the SAP space

Evolution of our role over the years



- Personally Identifiable Information (PII)
- SOX Compliance
- System Access: “Need to know” basis

- Data Archiving as we grow

- Russia Data Privacy Law
- India GST
- General Data Privacy Regulation (GDPR)

- **100%** SAP on Azure
- SAP Cloud (SaaS and enterprise Cloud solutions)

Current Deployments & Focus

- OpenText & SAP ILM for Archiving
- Onapsis Security Monitoring
- Halocore Data Loss Prevention
- Greenlight for Segregation of Duty
- Firefighter
- GDPR Compliance
- Greenlight for Concur
- IAG
- GRC 12 for Automation

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Scope of Work

Compliance

- SOX ROB
- Internal Audit Engagement
- Quarterly self assessment
- Project Engagements
- Risk Management
  - CSEO Semi-Annual Risk Assessment (SARA)
  - EAS Internal Risk Management

Privacy

- GDPR Program
  - Data Inventory and Flows
  - Data Subject Rights/ Int'l Data Request
  - Encryption
  - Data Obfuscation
  - Breach Detection
  - Data Retention
  - Access and Privacy Controls

Security

- SAP Access Control
- SAP Data Protection Initiatives (Internal)
- Project Engagements
- S4/Hana Azure
- SAP Security Standards

Take the Session Survey.

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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 us at ahillard@microsoft.com and Shalini.Gupta@microsoft.com.

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