



SoCal's Premier Data Privacy Event

# The Interplay of Privacy, Security and Governance

*IT'S A MATTER OF TRUST*

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# Today's Roadmap

- ❑ Distinguishing Information Privacy & Security
- ❑ Standards & Controls for Compliance
- ❑ Governance for Sustainability & Defensibility
  - Data Mapping
  - Risk Management
  - Journey to Maturity

# Myths

Security is IT's job

Privacy is Legal's job

Data Protection is Privacy

Data privacy is a passing trend

We achieve compliance, we're all done



# Information Privacy & Security

## Program Principles



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*Operationalizing Privacy and Security Programs*





# Depends on your Point of View

Privacy	Security
Individual (Consumer) focused	Data focused, includes Bus. Confid.
Consumer rights & choices	Data protection
Notice/transparency (informed)	IP, network & asset protection
Legitimate purpose/consent for collection, use, access, sharing & retention (DPLC management)	Confidentiality, Integrity & Availability
<b>Authorized access governance</b>	<b>Unauthorized access</b>
Laws, context, social norms/reasonable consumer expectations, principles & risk oriented	Standards & controls oriented
Includes security	Does not include privacy
Accountability / governance / trust	Often not included in standards

# Privacy and Security

## ☐ Data Privacy Life Cycle

- Notice
- Consent/Choice
- Rights
- Use
- Sharing
- Retention
- Disposal



## ☐ Governance

☐ Confidentiality

☐ Integrity

☐ Availability



# Event vs. Incident vs. Breach

<u>1. EVENT</u>	<u>2. INCIDENT</u>
<b>Policy: Observable privacy / Infosec issue</b> , e.g., a <b>violation of policy</b> , must be reported to Privacy/Security Officials	<b>Policy: Attempted or successful unauthorized</b> access, use, disclosure, modification, or destruction of information <b>or interference with system operations</b> in an information system
<b><u>3. REPORTABLE BREACH</u></b>	
<b>California -</b> <ol style="list-style-type: none"><li>Requires a business or state agency to notify any California resident whose unencrypted <b>personal information</b> was compromised by an unauthorized person.<ul style="list-style-type: none"><li>&gt;500 California residents must notify California Attorney General</li></ul></li><li>CMIA: <u>Unauthorized</u> access, use or disclosure of PHI [Confidentiality of Medical Information Act]</li></ol> <b>HIPAA:</b> Acquisition, access, use, or disclosure of <u>unsecured</u> PHI not permitted by Privacy Rule which <u>compromises security or privacy</u> of PHI – based on 4 risk factors	



# Information Security

- ❑ Information security protects all information assets an organization collects and maintains.
- ❑ Security Controls
  - Limits information access
  - Protects from **unauthorized** use and acquisition.
  - Provides the **controls for protecting** personal information.

# Information Privacy

- ❑ Focuses on the **personal information (PI)** an organization collects and maintains.
- ❑ A broader definition of **personal information (PI)** is *“any information related to an identified or an identifiable individual.”*
- ❑ Operationizing in a practical way your legal obligations

# What's in a name?

## ❑ Pseudonymized – reduces risk but still under CCPA/GDPR

- **Personally identifiable information (PII)** is any information about an individual ... including (1) any information that can be used to distinguish or trace an individual's identity, such as name, social security number, date and place of birth, mother's maiden name, or biometric records; and (2) any other information that is [directly] **linked or linkable** to an individual, such as medical, educational, financial, and employment information. - NIST

## ❑ De-identified – Not within the scope of CCPA/GDPR

- **Personal Information (PI)** any information that “identifies, **relates to, describes, is reasonably capable of being associated with,** or could be **reasonably be linked** (directly or indirectly) with a particular consumer or household.” - CCPA
  - The Act specifies a variety of new data elements constituting PI including but not limited to:
    - identifiers such as any unique personal identifier or IP address; electronic network activity information, including, **browser histories**, search history, and any information regarding a consumer's interaction with a Web site, application or advertisement; audio, electronic, visual, thermal, and olfactory information; and **geolocation data**.
  - In addition, the Act specifies any **“inferences drawn”** from various data elements of PI *“to create a **profile** about a consumer reflecting the consumer's preference, characteristics, psychological trends, preferences, predispositions, behavior, attitudes, intelligence, abilities and aptitudes”* constitutes PI.
- **Personal data (PD)** any **information relating to** an identified or identifiable natural person ('data subject'); an identifiable natural person is one who can be identified, directly or indirectly, in particular by reference to an identifier such as a name, an identification number, location data, an online identifier or to one or more factors specific to the physical, physiological, genetic, mental, economic, cultural or social identity of that natural person - GDPR

# Privacy & Security Program

Involves Common Governance but  
Different Domains

Requires a Holistic Approach

Needs a Common Language

A **successful** privacy program  
**requires** the **support** of a  
security program.



# Privacy Program

Establishes governance with **clear roles & responsibilities** creating a sustainable foundation based on Framework

## Sustainable, Defensible and Trustworthy Privacy (& Security) Program

**Risk management program** requires risk owners who identify & acceptably mitigate foreseeable risks (& document same) to be defensible to regulator & plaintiff judge/jury, *based on COSO's ERM approach & methodology*

### Privacy Program

- Data & resource mapping
- Governance structure
- PI sensitivity classification
  - drives strength of controls
- **Risk management**: P/SbD, periodic
- **Sanctions** & complaints
- **External resource management**
- **Monitoring, auditing & oversight**
- **Incident & breach management & response**

### Privacy Practices

- **Data privacy lifecycle controls**
  - notice, data collection, use, sharing & retention controls
- **Data subject rights & choices**
  - data infrastructure & management
- **Data minimization** (avoid re-identification)
  - e.g. min. necessary, key coding, de-identification, pseudonymization
- Verification & authentication

### Security Practices

- Administrative safeguards
  - e.g., RBAC design, authorization & periodic review
- Physical controls
  - e.g., review of facility's physical controls
- Technical controls
  - e.g. use of encryption
- Engineering controls
  - e.g. implementation of Privacy/Security-by-Design/SDLC

**Compliance** establishes baseline, however alone is **not defensible** as laws, regulations & standards cannot keep pace with emerging technologies – an effective risk management program closes this gap

***Enterprise cross-functional collaboration & coordination***

# Common Frameworks

- ❑ NIST Cybersecurity Framework v1.1
- ❑ ISO/IEC 27000:2018 Information Security Management Systems
- ❑ Control Objectives for Information and Related Technology (COBIT)
- ❑ Generally Accepted Privacy Principles (GAPP) - AICPA/CICA
- ❑ NIST Privacy Framework v1.0



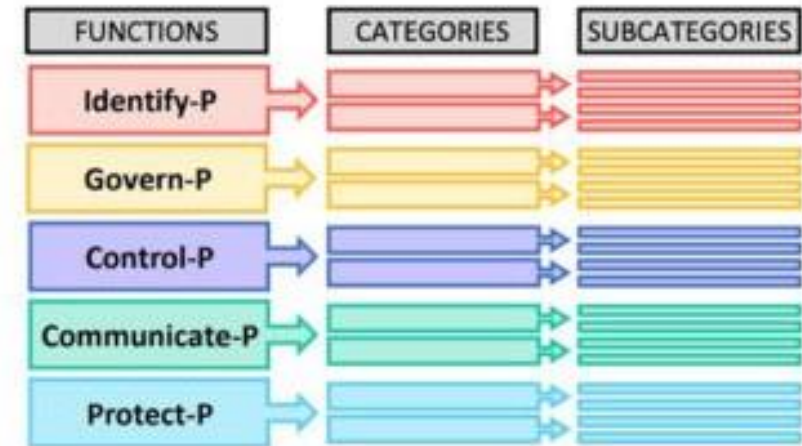
# NIST Frameworks

## NIST Cybersecurity Framework Core



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## NIST Privacy Framework



# Generally Accepted Privacy Principles (GAPP)

No.	Principle Areas	Description	CCPA Sections	GDPR Articles	Criteria
					Total
<b>1</b>	<b><u>Management</u></b>	The entity defines, documents, communicates, and assigns accountability for its privacy policies and procedures.		5, 6, 14, 24, 27, 32, 36-39	<b>14</b>
2.1	<i>Policies and Communications</i>				3
2.2	<i>Procedures and Controls</i>				11
<b>2</b>	<b><u>Notice</u></b>	The entity provides notice about its privacy policies and procedures and identifies the purposes for which personal information is collected, used, retained, and disclosed.	1798.100(b) 1798.110 (c)	5,12-15, 21	<b>5</b>
2.1	<i>Policies and Communications</i>				2
2.2	<i>Procedures and Controls</i>				3
<b>3</b>	<b><u>Choice &amp; Consent</u></b>	The entity describes the choices available to the individual and obtains implicit or explicit consent with respect to the collection, use, and disclosure of personal information.	1798.120 1798.120(d)	6, 7, 8	<b>7</b>
3.1	<i>Policies and Communications</i>				3
3.2	<i>Procedures and Controls</i>				4
<b>4</b>	<b><u>Collection</u></b>	The entity collects personal information only for the purposes identified in the notice.	1798.100(b)	5, 6, 9, 21, 25, 35, 89	<b>7</b>
4.1	<i>Policies and Communications</i>				3
4.2	<i>Procedures and Controls</i>				4
<b>5</b>	<b><u>Use - Retention - Disposal</u></b>	The entity limits the use of personal information to the purposes identified in the notice and for which the individual has provided implicit or explicit consent. The entity retains personal information for only as long as necessary to fulfill the stated purposes or as required by law or regulations and thereafter appropriately disposes of such information.	1798.100(b)	5, 6, 10, 22, 39	<b>5</b>
5.1	<i>Policies and Communications</i>				2
5.2	<i>Procedures and Controls</i>				3
<b>6</b>	<b><u>Access</u></b>	The entity provides individuals with access to their personal information for review and update.	1798.100(a) 1798.110(a)(1)-(5)+ (b) 1798.130(a)(1)-(7)	7, 12, 14-18, 20-22, 26, 38	<b>8</b>
6.1	<i>Policies and Communications</i>				2
6.2	<i>Procedures and Controls</i>				6
<b>7</b>	<b><u>Third Party Disclosure</u></b>	The entity discloses personal information to third parties only for the purposes identified in the notice and with the implicit or explicit consent of the individual.	1798.140(v)+ (w) 1798.145(h)	28, 29, 32	<b>7</b>
7.1	<i>Policies and Communications</i>				3
7.2	<i>Procedures and Controls</i>				4
<b>8</b>	<b><u>Security for Privacy</u></b>	The entity protects personal information against unauthorized access (both physical and logical).	1798.81.5(b) 1798.150(a)(1)	5 ,6, 24, 32, 46	<b>9</b>
8.1	<i>Policies and Communications</i>				2
8.2	<i>Procedures and Controls</i>				7
<b>9</b>	<b><u>Quality</u></b>	The entity maintains accurate, complete, and relevant personal information for the purposes identified in the notice.		5, 16	<b>4</b>
9.1	<i>Policies and Communications</i>				2
9.2	<i>Procedures and Controls</i>				2
<b>10</b>	<b><u>Monitoring &amp; Enforcement</u></b>	The entity monitors compliance with its privacy policies and procedures and has procedures to address privacy related inquiries, complaints and disputes.		17, 19, 20, 30, 33-35, 37,39, 47	<b>7</b>
10.1	<i>Policies and Communications</i>				2
10.2	<i>Procedures and Controls</i>				5

# Standards and Controls

A Dynamic Environment



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# What applies to me?





# Common Standards & Controls

## Privacy

- EU's General Data Protection Regulation (GDPR)
- ISO/IEC 27701:2019 — Extension to ISO/IEC 27001/27002 for Privacy Information Management
- HIPAA/HITECH Privacy & Breach Notification Rules
- CA Consumer Privacy Act of 2018 (CCPA)
- Nevada + 48 states Privacy laws ???
- NIST Privacy Controls 800-53 r4 Appendix J
  - Rev5 + two families and integrates with Rev4 security controls
- Federal Privacy Law ???

## Security

- Top 20 Critical Security Controls
- ISO/IEC 27002:2013
- HIPAA/HITECH Security Rule
- Payment Card Industry (PCI) Security Standards
- NIST Security Controls (800-53, 800-171)
- ISO/IEC 27001:2013 Information Security Management Systems

# GDPR Combination

## Privacy

- **EU's General Data Protection Regulation (GDPR)**
- **ISO/IEC 27701:2019 — Extension to ISO/IEC 27001/27002 for Privacy Information Management**
- HIPAA/HITECH Privacy & Breach Notification Rules
- CA Consumer Privacy Act of 2018
- Nevada + 48 states Privacy laws
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## Security

- **Top 20 Critical Security Controls**
- **ISO/IEC 27002:2013**
- HIPAA/HITECH Security Rule
- Payment Card Industry (PCI) Security Standards
- NIST System Controls (800-53, 800-171)



# CCPA Combination Minimum

## Privacy

- EU's General Data Protection Regulation (GDPR)
- ISO/IEC 27701:2019 — Extension to ISO/IEC 27001/27002 for Privacy Information Management
- HIPAA/HITECH Privacy & Breach Notification Rules
- **CA Consumer Privacy Act of 2018**
- Nevada + 48 states Privacy laws
- NIST Privacy Controls 800-53 r4 Appendix J
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## Security

- **Top 20 Critical Security Controls**
- ISO/IEC 27002:2013
- HIPAA/HITECH Security Rule
- Payment Card Industry (PCI) Security Standards
- NIST System Controls (800-53, 800-171)

# HIPAA Combination

## Privacy

- EU's General Data Protection Regulation (GDPR)
- ISO/IEC 27701:2019 — Extension to ISO/IEC 27001/27002 for Privacy Information Management
- **HIPAA/HITECH Privacy & Breach Notification Rules**
- CA Consumer Privacy Act of 2018
- Nevada + 48 states Privacy laws
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## Security

- **Top 20 Critical Security Controls**
- ISO/IEC 27002:2013
- **HIPAA/HITECH Security Rule**
- Payment Card Industry (PCI) Security Standards
- NIST System Controls (800-53, 800-171)

# Federal Contractor Combination

## Privacy

- EU's General Data Protection Regulation (GDPR)
- ISO/IEC 27701:2019 — Extension to ISO/IEC 27001/27002 for Privacy Information Management
- HIPAA/HITECH Privacy & Breach Notification Rules
- CA Consumer Privacy Act of 2018
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## Security

- **Top 20 Critical Security Controls**
- ISO/IEC 27002:2013
- HIPAA/HITECH Security Rule
- Payment Card Industry (PCI) Security Standards
- **NIST System Controls (800-53, 800-171)**

# Mind the Gaps

Control	HIPAA	GDPR	CIS Top 20	ISO 27001	CCPA
<b>Inventory</b>	§164.310(d)(1) §164.310(d)(2)(iii)		CSC 1, 2	A.8.1.1 A.9.1.2 A.12.5.1 A.12.6.2 A.13.1.1	
<b>Access</b>	§164.308(a)(3)(i)	Articles 15 ( <b>Rights</b> ) 32 (Security)	CSC 9 CSC 12 CSC 15 CSC17	A.7.2.2, A.9.1.2 A.10.1.1, A.12.4.1 A.12.7.1, A.13.1.1 A.13.1.3, A.13.2.1 A.13.2.2, A.13.2.3 A.14.1.2	1798.150 (Security) 1798.100.d ( <b>Rights</b> )
<b>Responsibility</b>	§164.308(a)(2)	Article 24, 26, 39		A.6.1.1	
<b>Authorization</b>	§164.308(a)(3)(ii)(A)		CSC 14, 16		1798.120

# Information Governance



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# What is Information Governance?

- ❑ A system of **policies & processes** where information (data) life cycle **activities** are **directed, controlled, & monitored**; and assure sustainability & reliability
  - NIST “Repeatable” state
- ❑ How do you direct, control & monitor?
  - **Clear roles & responsibilities** defined in policies & training
    - Too many P&Ps state “*we*” or “*company*” does this or that ...



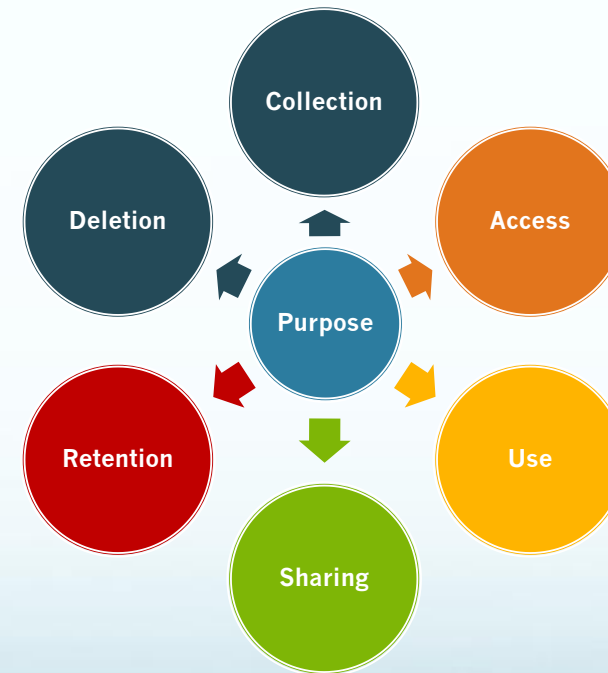
# Foundational Program Governance

#	Privacy	Security
1	<b>Organizational Governance</b>	Same
2	Governance via <b>Policy</b>	Same
3	<b>HR Governance</b> : pre-onboarding, onboarding, employed & termination	Same
4	<b>Data Privacy Life Cycle &amp; Resource Governance</b>	<b>Data &amp; Resource Mapping</b> portion
5	<b>Privacy Rights Governance</b>	N/A
6	<b>Privacy-by-Design Governance</b>	<b>Security-by-Design Governance</b>
7	Same	<b>External Resource Mgmt Governance</b>
8	<b>Monitoring &amp; Evaluation/Auditing Governance</b>	Same
9	<b>Event &amp; Incident Management Governance</b>	Same
10	<b>Documentary Evidence of Governance</b>	Same
11	Program KPIs & <b>Governance Reporting</b>	Same

External Resource Management means governance of **service providers & 3<sup>rd</sup> parties** under CCPA

# Data Privacy Life Cycle & Resource Governance

- ❑ Data Map
  - Inventory/document all DPLC sub-processes
- ❑ Validate/record legitimate/business purpose for all DPLC sub-processes in risk register
  - Data collection
  - Data access
  - Data use
  - Data sharing
  - Data retention
  - X-border data transfers
- ❑ **Stop** non-compliant processes
- ❑ **Remove** non-compliant data



# Data Mapping



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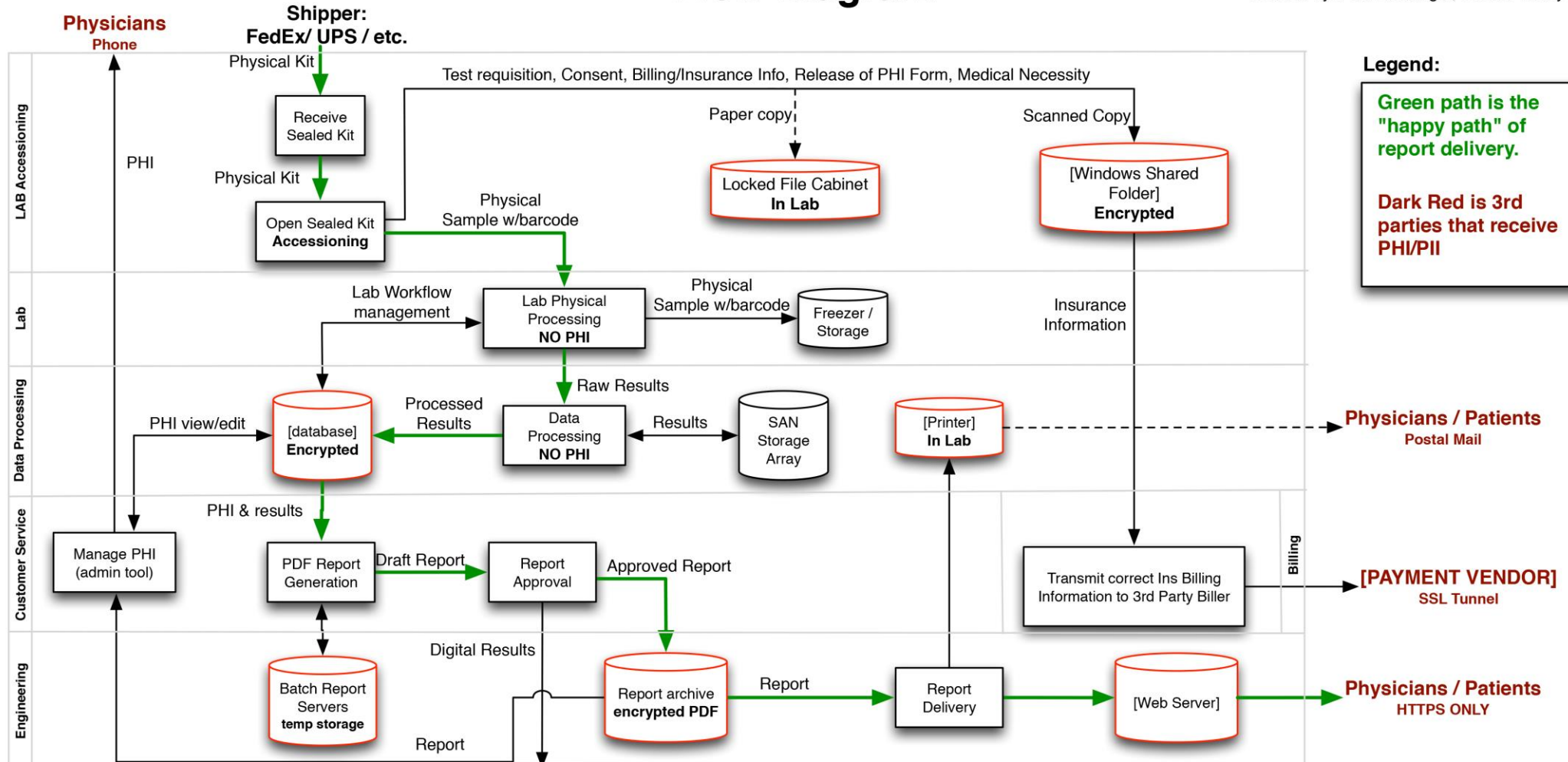
Lean. Sustainable. Legally Defensible.

## PHI/PII Processing Sample Data Flow Diagram

Owner: XXXXXXXX

Updated: Jan 12, 2017

Created by: Paul Boulanger, SoCal Privacy



[3rd party physician] for approval to release results - SSL tunnel

# Data sensitivity drives a risk-based approach

Determine strength of controls based on data sensitivity levels

Quartile	Data Sensitivity Classifications	Examples
4	<b>Highly Sensitive</b>	1st name/initial & last name plus any of following: gov't issued ID # (SSN, passport ID#, state ID#, driver's license#, tax ID#, birth/marriage certificate), W-2, health insurance ID#, genetic info (defined by GINA), medical/health info (medical history, physical/mental condition, test results, diagnosis, treatment/medications), background check info, biometric data/record or identifiers, digital signature, precise geo-location data, username/ID or email address w/password or common security question answers (mother's maiden name, DOB, place of birth), financial acct # or payment card info plus any required security/access code or password
3	<b>Sensitive</b>	PI that does not fall into highly or less sensitive PII groups, such as other personally identifiable dates, vehicle ID/serial #, other unique ID#/characteristic/code, non-precise geo-location data, other personnel file info
2	<b>Slightly Sensitive</b>	Published contact info: name plus address, phone#; email address, fax#, instant message user ID, URL address, IP address, photo/video/audio file, persistent device/processor/serial ID; any other PII used for marketing purposes (see CA's "Shine the Light Law")
1	<b>Non-Sensitive</b>	non-personal information, such as session identifiers/cookies

# Risk Management

## □ Framework

- Identify events
- Assess events
  - Determine event impacts
- Develop strategy to respond
- Monitor progress

# Risk Management Goal

## **MANAGEMENT MAKING INFORMED DECISIONS**

- Develop **Strategic** Plan
- Improve organization's **capability** and **coordination** to effectively manage risk
- Integrate and present a **unified** picture of risk to the stakeholders
- Demonstrate making informed decisions



# Challenges

- ❑ Implementing Risk Management is a formidable task
  - Designing an **appropriate** model
  - Obtaining top management **participation**
  - Assure **meeting** organizational objectives
  - Moving in a **coordinated and comprehensive** approach

# Risk Ownership

- **Executives** should **assign owners** to resources w/in organizational control (or by default become owner for such resources) & inform PO/SO, so resources & owners can be recorded in resource map
- **Risk owners** **own risks inherent in their people, process & technology**
  - Identified in data flow, inventory & resource/locations mapping
- **Product/project managers** in collaboration with engineering are primarily responsible for **Privacy & Security-by-Design** of resources

# Resources

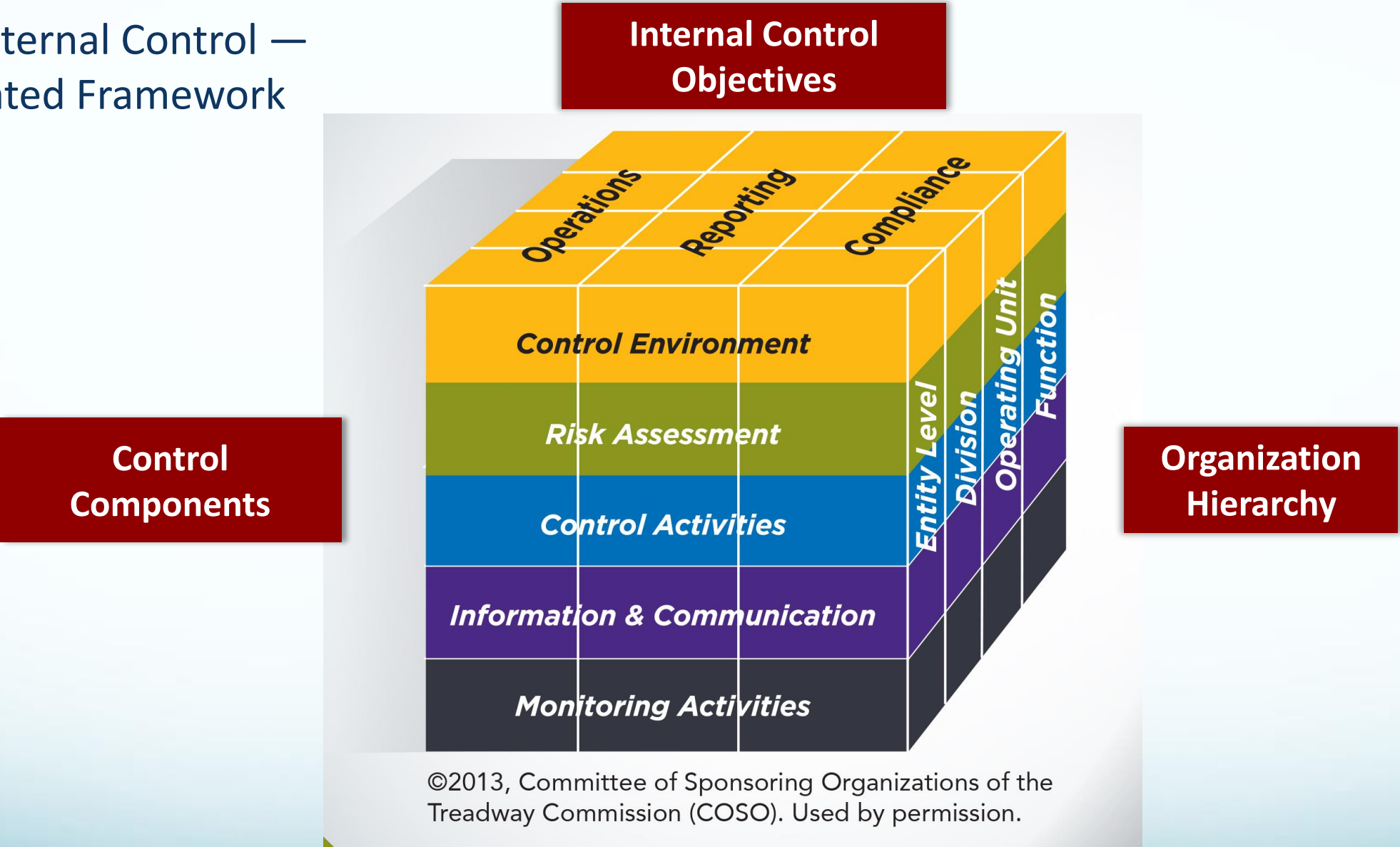
## ☐ Resources:

- Products/services, processes, apps/software, databases, internal/external systems  
**External resources:** service providers, 3rd parties, supply chain

## ☐ Resource Owners are responsible for ensuring RBAC design, authorizing RBAC rights, & periodically reviewing RBAC rights for accuracy

- ## ☐ Resource Custodians are responsible for implementing authorized RBAC rights & providing reports of all rights for periodic review by resource owner
- Works with DSAR Coordinator to fulfill consumer rights

# COSO Internal Control — Integrated Framework



# Path to Maturity



**Mature State: P/SbD**

Resilient  
Trustworthy  
Defensible



**Action Plan: Crawl, Walk, Run**

Control Gaps  
Risks

**Foundation**



Policies & Procedures  
Governance – Accountability – Responsibility  
Establishing Repeatable Processes

# GRC “*Check-the-box*” Approach

Requirements	Compliant	Non-compliant
P/SbD	✓	
Periodic Risk Assessment	✓	
Vendor Risk Assessment	✓	
Segregation of Duties		✓
Continuous Monitoring	✓	

Is this a sufficient evaluation methodology?

# Program Practices & Maturity

	Level 1	Level 2	Level 3	Level 4	Level 5
Practices	Demonstrate <b>basic</b> cybersecurity & privacy <b>hygiene</b>	Demonstrate <b>intermediate</b> cybersecurity & privacy <b>hygiene</b>	Demonstrate <b>good</b> cybersecurity & privacy <b>hygiene</b>	Demonstrate <b>substantial</b> cybersecurity & privacy <b>programs</b>	Demonstrate <b>optimized</b> capabilities addressing <b>dynamic events</b>
Maturity	Nothing - Adhoc	<b>Established</b> policies, SOPs, & plans	Activities <b>reviewed for adherence</b> to policy & procedures	Activities <b>reviewed for effectiveness</b> and management is informed of any issues	Activities are <b>standardized across all applicable organizational units</b> and identified improvements are shared

# NIST Risk Management (“RM”) Implementation Tiers

Tier	Risk Level	Risk Management Process	Integrated RM Program	External Actions
1	<b>PARTIAL</b>	Informal, ad-hoc, reactive	Limited awareness	No processes in place
2	<b>RISK INFORMED</b>	Management approved RM practices are not established policy	Risk awareness but informal RM	Awareness, but not formalized
3	<b>REPEATABLE</b>	Sustainable, Formal RM practices in policy	Formal policies/ procedures are implemented/ reviewed	Understand dependencies collaborate with other entities
4	<b>ADAPTIVE</b>	Lessons learned & predictive indicators inform RM practices	RM is part of the culture	Collaboration ensures accurate, current information shared



# Controls Maturity Example

## CIS Top 20

171 Sub-controls

### Basic

- 1 Inventory and Control of Hardware Assets
- 2 Inventory and Control of Software Assets
- 3 Continuous Vulnerability Management
- 4 Controlled Use of Administrative Privileges
- 5 Secure Configuration for Hardware and Software on Mobile Devices, Laptops, Workstations and Servers
- 6 Maintenance, Monitoring and Analysis of Audit Logs

### Foundational

- 7 Email and Web Browser Protections
- 8 Malware Defenses
- 9 Limitation and Control of Network Ports, Protocols and Services
- 10 Data Recovery Capabilities
- 11 Secure Configuration for Network Devices, such as Firewalls, Routers and Switches
- 12 Boundary Defense
- 13 Data Protection
- 14 Controlled Access Based on the Need to Know
- 15 Wireless Access Control
- 16 Account Monitoring and Control

### Organizational

- 17 Implement a Security Awareness and Training Program
- 18 Application Software Security
- 19 Incident Response and Management
- 20 Penetration Tests and Red Team Exercises

## Implementation Groups

### Group 1 – 43 Controls

Limited resources/expertise

Low sensitivity

### Group 2 – 99 Controls

Moderate resources/expertise

Sensitive

### Group 3 – 29 Controls

Significant resources/expertise

Reduce impact of zero-day/targeted attacks

# Monitoring & Evaluation

## GOVERNANCE OPERATIONAL RECOMMENDATIONS

- ❑ Establish, **in policy**, mechanisms for periodic evaluations/ monitoring, reporting of findings & overseeing appropriate implementation of corrective actions/mitigation plans
- ❑ **Define activities in policy, assign ownership & timetables**
  - Regular, appropriate patching - FTC emphasis
  - Periodic risk assessment & controls evaluation
  - Periodic vulnerability scans & penetration tests
  - Periodic code reviews
  - Periodic RBAC rights review
  - Periodic hardware/software inventory reconciliation
  - Periodic review of access points & wireless
  - Periodic external resource due diligence based on data sensitivity
  - Periodic incident response desktop exercise &/or simulation
  - Periodic testing of Business Continuity & Disaster Recovery plans

# Additional Resources

- ❑ **CISO Desk Reference Guide: A Practical Guide for CISOs** by Bill Bonney, Gary Hayslip, Matt Stamper  
<https://www.amazon.com/CISO-Desk-Reference-Guide-Practical/dp/0997744111>
- ❑ **Kill Chain**  
<https://www.csoonline.com/article/2134037/cyber-attacks-espionage/strategic-planning-erm-the-practicality-of-the-cyber-kill-chain-approach-to-security.html>
- ❑ **OWASP Top 10** Most Critical Web Application Security Risks  
[https://www.owasp.org/index.php/Category:OWASP\\_Top\\_Ten\\_Project](https://www.owasp.org/index.php/Category:OWASP_Top_Ten_Project)
- ❑ **Application Security Guide for CISOs**  
[https://www.owasp.org/index.php/Application\\_Security\\_Guide\\_For\\_CISOs](https://www.owasp.org/index.php/Application_Security_Guide_For_CISOs)
- ❑ Cloud Security Alliance's **Cloud Security Controls Matrix**  
[https://cloudsecurityalliance.org/group/cloud-controls-matrix/#\\_overview](https://cloudsecurityalliance.org/group/cloud-controls-matrix/#_overview)
- ❑ **Shared Responsibility Models**  
<https://aws.amazon.com/compliance/shared-responsibility-model/>  
<https://docs.microsoft.com/en-us/azure/security/fundamentals/shared-responsibility>

# Additional Resources

- ❑ **The Privacy Engineer's Manifesto: Getting from Policy to Code to QA to Value**  
<https://www.amazon.com/Privacy-Engineers-Manifesto-Getting-Policy-ebook/>
- ❑ **Generally Accepted Privacy Principles**  
<https://iapp.org/media/presentations/11Summit/DeathofSASHO2.pdf>
- ❑ **NIST Privacy Framework**  
<https://www.nist.gov/privacy-framework>
- ❑ **California Consumer Privacy Act**  
<https://www.oag.ca.gov/privacy/ccpa>
- ❑ **General Data Protection Regulation (GDPR)**  
<https://gdpr-info.eu/>
- ❑ **International Association of Privacy Professionals**  
<https://www.iapp.org>

# Questions?

Privacy	Security
Individual (Consumer) focused	Data focused, includes Bus. Confid.
Consumer rights & choices	Data protection
Notice/transparency (informed)	IP, network & asset protection
Legitimate purpose/consent for collection, use, access, sharing & retention (DPLC management)	Confidentiality, Integrity & Availability
<b>Authorized access governance</b>	<b>Unauthorized access</b>
Laws, context, social norms/reasonable consumer expectations, principles & risk oriented	Standards & controls oriented
Includes security	Does not include privacy
Accountability / governance / trust	Often not included in standards

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