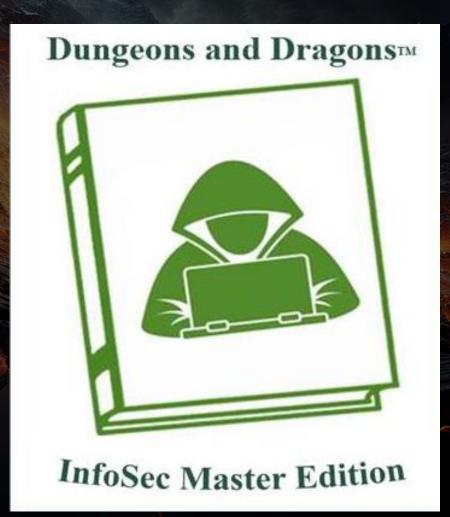
Welcome To The 10th Annual Hacking Conference













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Presenters





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Schellman Suite of Services Overview





SOC Examinations

SOC 1 / SSAE 18 SOC 2 SOC 3 SOC for Supply Chain SOC for Cybersecurity C5 Attestation CSA STAR Programs



ISO Certification

ISO 9001 ISO 20000-1 ISO 22301 ISO 27001 ISO 27018 ISO 27701



Federal Assessments

FedRAMP CMMC / NIST SP 800-171 FISMA / NIST 800-53 CJIS ITAR



Payment Card Assessments

PCI DSS PCI SSF PCI P2PE PCI PIN PCI 3DS PCI ASV



Cybersecurity Assessments

Crypto & Digital Trust NY DFS Assessment NIST CSF Assessment C5 Assessment Software Security Assessment (S3A)



Healthcare Assessments

HITRUST CSF HIPAA HIPAA Express EPCS-DEA Audits Health Data Host (HDS)



Penetration Test Testing

Application
Network
Mobile
Social Engineering
Cloud
Secure Code Review
Hardware & IoT
Advanced Services



Privacy Program Assessments

APEC Certification GDPR International Privacy US State Privacy Microsoft SSPA / DPR FERPA EU Cloud Code of Conduct CCPA



Financial Services Assessments

SWIFT CSP FFIEC GLBA Cybersecurity



Automotive Assessments

TISAX Audit Provider



ESG & Sustainability

ESG Assessments ESG Assurance



Training Services

On-Demand Training Instructor-Led Bootcamps Certification Courses



Agenda

- 1 ISO 27000 Family of Standards Overview
- 2 ISO 27001 Certification Alignment with Sector-Specific ISO 27000 Standards
- 3 Data Privacy Program Enhancement via Adoption of ISO 27018 and/or ISO 27701
- EU Cloud Code of Conduct, Europrivacy GDPR Certification/Seal, and CBPR/PRP

5 Q&A





ISO 27000 Family of Standards Overview



- ISO 27001 most well-known
- Additional best practices in data protection and cyber resilience covered by other ISO 27000 standards
- Standards related to security & privacy we'll cover today include:
 - ISO 27001 (ISMS) the foundational element
 - ISO 27017 (cloud services security)
 - ISO 27018 (protection of PII in public clouds for PII processors)
 - ISO 27701 (PIMS) and complementary GDPR certification frameworks such as Europrivacy Seal and the overlap with the EU Cloud Code of Conduct



ISO 27000 Family of Standards Overview



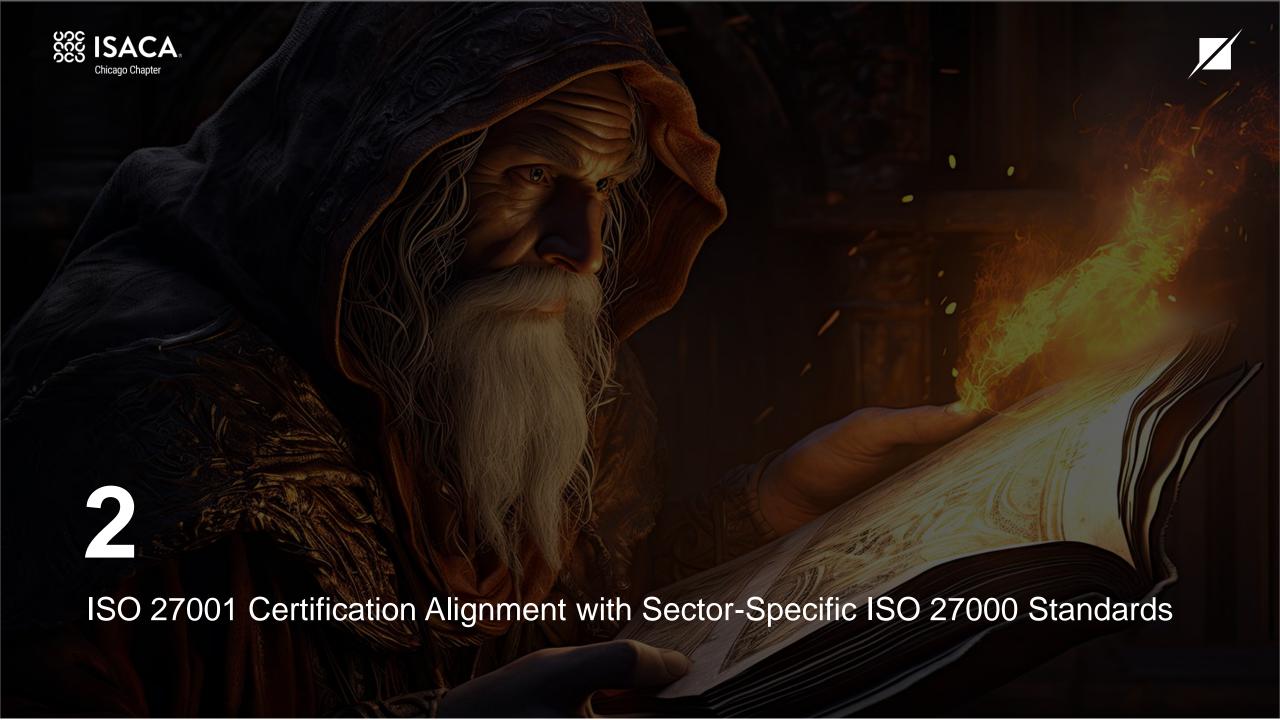
Standard / Metric	ISO 27001	ISO 27017	ISO 27018	ISO 27701
Purpose	Requirements for establishing, implementing, maintaining and continually improving an information security management system (ISMS)	Cloud-specific implementation guidance based on ISO 27002 and additional controls to address cloud-specific information security threats and risk considerations	Establish commonly accepted control objectives, controls, and guidelines for implementing measures to protect PII in line with the privacy principles in ISO 29100 for the public cloud computing environment and specifies guidelines based on ISO 27002, taking into consideration the regulatory requirements for PII protection	Requirements and guidance for establishing, implementing, maintaining and continually improving a privacy information management system (PIMS) in the form of an extension to ISO 27001 and ISO 27002
Main Topic Areas (Ex:)	ISMS preserving the CIA of information by applying a risk-based approach and adoption of controls (Annex A)	Shared R&R Data segregation VM hardening Service monitoring	Consent and choice Purpose legitimacy and specification Collection limitation	Conditions for collection & processing Obligations to PII principals Privacy by design & default



ISO 27000 Family of Standards Overview



Standard / Metric	ISO 27001	ISO 27017	ISO 27018	ISO 27701	
Intended User(s)	Any organization	Cloud service providers (CSP) and cloud service customers (CSC)	CSPs who process PII	Any organization which are PII controllers and/or PII processors processing PII within an ISMS	
Management System Framework	Yes – ISMS	No – Control Set Only	No – Control Set Only	Yes – PIMS	
Control Count	114 (:2013) 93 (:2022)	7	25	31 (Clause 7 / Annex A) 18 (Clause 8 / Annex B)	
Current Version	ISO 27001:2022*	ISO 27017:2015	ISO 27018:2019	ISO 27701:2019	
Aligned with ISO 27001/2:2022	N/A	No	No	No	
Updates in Progress	*Transition period in progress	Yes – Committee Draft (CD)	No	Yes – Draft International Standard (DIS)	





ISO 27001 Certification Alignment – General



- ISMS considerations of adding sector-specific standards (modifications to):
 - Scope statement
 - Objectives
 - Risk assessment / risk treatment
 - Statement of applicability
 - Metrics / KPIs
 - Internal audit
 - Management review (input / outputs)



ISO 27001 Certification Alignment – ISO 27017



ISO 27017 Considerations – Cloud Services Security						
Target / Objective ("The Why")	Designed to be utilized for CSPs as well as CSCs to help ensure that, for either role, proper controls and implementation guidance have been designed and applied related to the cloud service					
Level of Effort to Align to Existing ISMS	Moderate					
Considerations	 Determination of role (CSP vs. CSC) Entities acting as CSP, or providing cloud-based services, to Canadian (SPIN) or Italian (Cloud Italy Strategy) governments 					



ISO 27001 Certification Alignment – ISO 27018



ISO 27018 Considerations – Protection of PII in Public Cloud						
Target / Objective ("The Why")	 Helps public cloud service providers (PCSP) comply with applicable obligations (contracted or not) when acting as PII processor Enable public cloud PII processor to be transparent to enable CSCs to select well-governed cloud-based PII processing services Assist CSC and public cloud PII processor in entering into a contractual agreement Provide CSCs a mechanism for exercising audit and compliance rights and responsibilities 					
Level of Effort to Align to Existing ISMS	Moderate					
Considerations	 Entities acting as CSP, or providing cloud-based services, to Italian (Cloud Italy Strategy) government Weighing options of ISO 27018 (control set) vs. ISO 27701 (management system) Some guidelines applicable to PII controllers, but standard is not intended to cover additional obligations of PII controllers 					



ISO 27001 Certification Alignment – ISO 27701



ISO 27701 Considerations – PIMS						
Target / Objective ("The Why")	Can be used by PII controllers (including those that are joint PII controllers) and PII processors (including those using subcontracted PII processors and those processing PII as subcontractors to PII processors) to demonstrate privacy protection practices in the processing of PII					
Level of Effort to Align to Existing ISMS	High					
Considerations	 Applicable to both PII controllers <u>and / or</u> processors More robust than ISO 27018 (control set only) in that it's both a management system and supporting controls framework 					

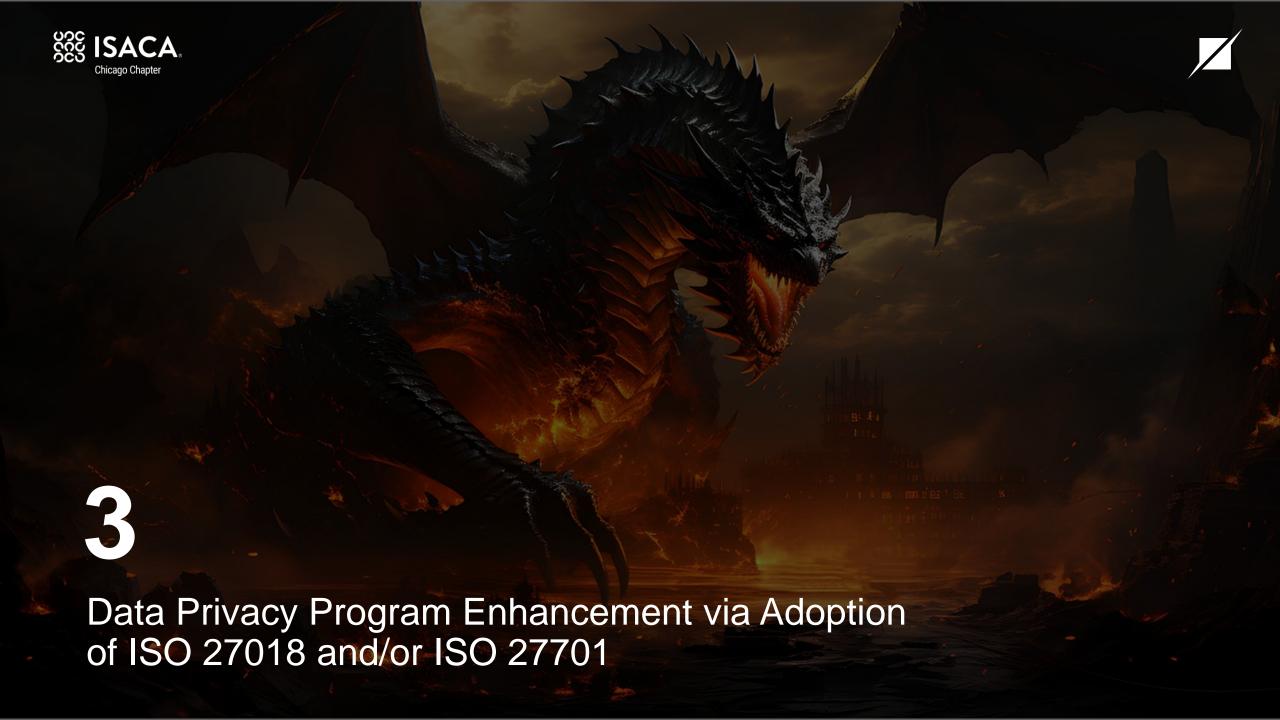


Polling Question 1



Which of the following statements is correct as it relates to the ISO 27001, ISO 27701, ISO 27017, and ISO 27018 standards?

- a) All standards are management system frameworks.
- b) Only ISO 27001 is a management system framework, the remainder are control sets only.
- c) Only ISO 27001 and ISO 27701 are management system frameworks, ISO 27017 and ISO 27018 are control sets only.
- d) All standards are management system frameworks.





ISO 27018 Overview



- 27018 supplements the ISO/IEC 27001:2013 control set within Annex A with 25 extended controls unique to cloud service providers.
- These unique controls are associated with the 11 privacy principles within ISO 29100 and address topics such as:
 - Consent and choice
 - Purpose legitimacy and specification
 - Data minimization
 - Use, retention and disclosure

- Openness, transparency and notice
- Accountability
- Information security
- Privacy compliance



ISO 27701 Overview

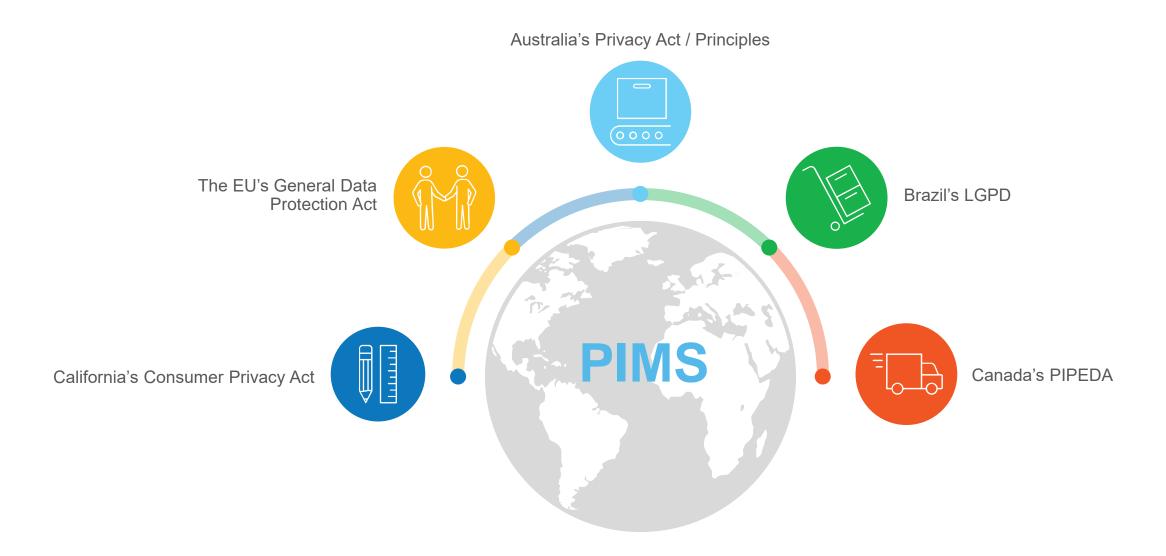


- ISO 27701 ISO 27701 is valuable to organizations that have an existing ISO 27001
 certification or are considering an ISO 27001 certification and want to include their privacy
 program into their ISMS. An accredited ISO 27001 certification that includes ISO 27701
 demonstrates an organization's security and privacy practices through a validated thirdparty assessment.
- ISO 27701 applies to any organization operating in any part of the world
- ISO 27701 is not a standalone certification it is an extension of the ISO 27001 certification
- It requires development and maintenance of a PIMS in addition to the current ISMS or as a separate system. It also includes additional controls for both controllers and processors.



The Scope and Criteria of ISO 27701





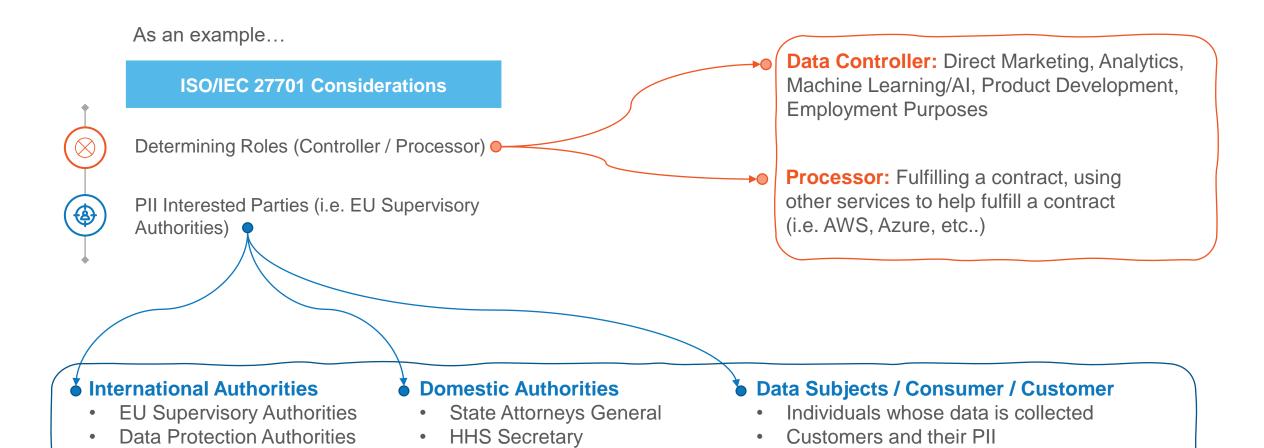
Clause 5

•		ISO/IEC 27001:2013 Requirement	+ ISO/IEC 27701 Considerations
	5.2.1	Understanding the Organization and its context	Have PII processing roles (Controller / Processor) been established?
	5.2.2	Understanding the needs and expectations of interested parties	Are PII Interested Parties (i.e. PII Principals, or individual consumers) documented?
	5.2.3	Determining the scope of the information security management system	Does the ISMS include processing of PII in the scope statement?
KON KVN	5.2.4	Information security management system	Has PIMS been integrated into the ISMS reviews?
(%3)	5.4.1.2	Information security risk assessment	Do risk assessments consider PII?
FÖ	5.4.1.3	Information security risk treatment	Has ISO 27701 Annex A/B been considered in risk assessment / treatment plan?





Privacy Commissioners
Intl. Law Enforcement



FBI / Law Enforcement



Clause 6

- Update policies
- Designate point of contact
- Update training
- Labeling PII
- Encryption of PII in storage
- Secure disposal and transfer of PII
- User registration and de-registration
- Clear desk
- Backups
- Event Logging

- Protection of logs
- Confidentiality agreements
- Encryption of data in transit
- Secure development policies
- Privacy by design
- Protection of test data
- Supplier Agreements
 - Data breach identification, recording and notifications
- Identify Legal Sanctions
- Etc





Clause 7 - Controller Specific



Control Objectives

- Conditions for Collection and Processing
- Obligations to PII Principals
- Privacy by Design and Default
- PII Sharing, Transfer and Disclosure
- Controls 31



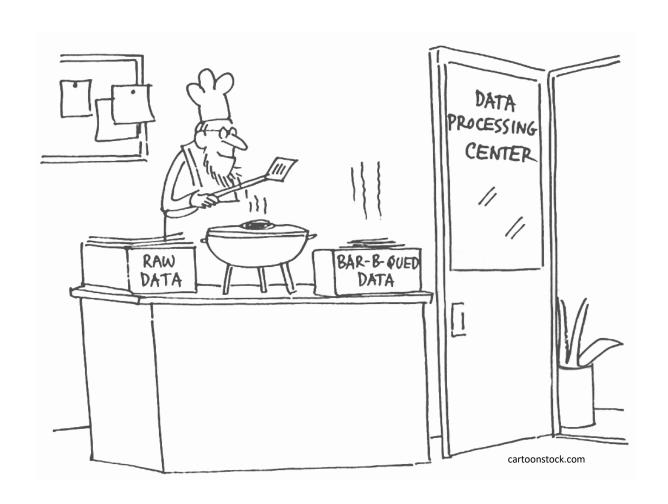


Clause 8 - Processor Specific



Control Objectives

- Conditions for Collection and Processing
- Obligations to PII Principals
- Privacy by Design and Default
- PII Sharing, Transfer and Disclosure
- Controls 18



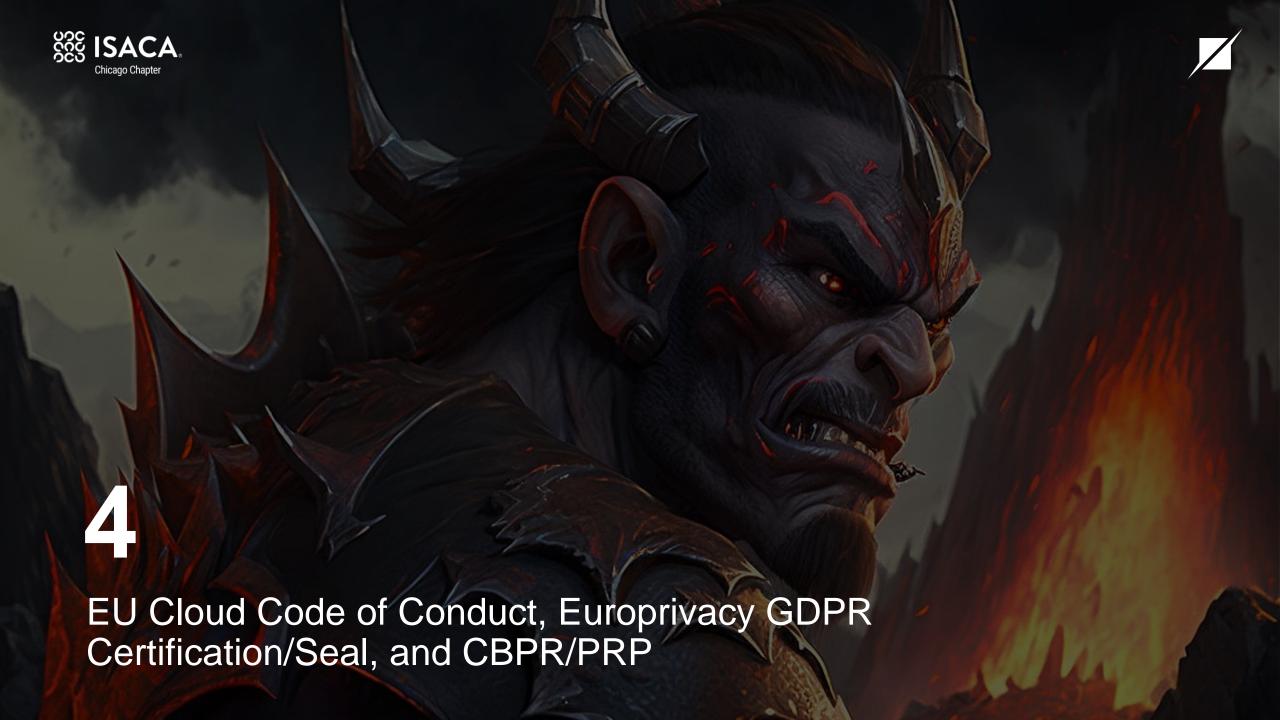


Polling Question 2



ISO/IEC 27701:2019 is currently being updated to reflect the changes of ISO/IEC 27001:2022. Are organizations allowed to certify against ISO/IEC 27001:2022 and ISO/IEC 27701:2019 or do they need to wait for an updated ISO/IEC 27701 standard?

- a) Yes, with no action needed.
- b) Yes, with updates to the SOA to speak to new control mappings.
- c) Yes, as the two standards don't rely on each other.
- d) No, they have to wait for the new ISO 27701 standard.



ISO 27701 and GDPR



ISO/IEC 27701:2019





EU Cloud Code of Conduct





What does the Code include?

The applicable GDPR requirements are included in Chapter 5 and 6 of the Code. Chapter 5 includes requirements specific to privacy, or data protection requirements applicable to processors, while Chapter 6 includes security requirements. The Code is administered by Scope Europe, also referred to as the monitoring body.

There are three levels of compliance that the CSP can choose:

LEVEL 1

Level 1 is a self-assessment by the CSP confirming that the requirements within the Code have been met. The monitoring body will verify that the CSP complies with the Code.

LEVEL 2

UD

LEVEL 3

Level 2 provides compliance to the Code utilizing existing third party assessments, audits or certifications that cover some of the Code's requirements. The monitoring body will verify that the third party reports partially satisfy the code. When the reports do not support compliance with all of the Code requirements, the monitoring body verifies that the CSP complies with those requirements of the Code not covered by the third party reports.

Level 3 demonstrates compliance with every requirement outlined within the Code from third party assessments, audits or certifications. The audit reports must be internationally recognized standards and should provide sufficient information for the monitoring body to determine that the Code requirements were met.

EU Cloud Code of Conduct





Control	Control Guidance	GDPR	ISO 27001	ISO 27017	ISO 27018	ISO 27701	SOC 2	C5:2016	NIST SP 800-53	Cyberecurity Framework
propriate information security measures according to the sensitivity of the Customer Personal Data contained within the Cloud Service, considering a dedicated data protection assessment perspective when assessing the ap-	accidental or unlawful destruction, loss, alteration, unauthorised disclosure of or	Art. 28.3 (f)	A.8.2 Information classification A.5 Information security policies	A.8.2.2 Labelling of information	5.1.1 Policies for information security 8.2 Information classification	B.8.4 Privacy by design and pri- vacy by default	C1.1 A1.1	SIM-02 Classification of Customer systems AM-05 Classification of information AM-06 Labelling of infor- mation and handling of assets	Access publicly available PDF version: NIST SP 800-53 AC-16 - Security and Privacy Attributes PE-19 - Information Leakage PM-5 - System Inventory PT-1 - Policies and Procedures	ID.AM: Asset Management ID.AM-1 ID-AM-2 ID-AM-3 ID.AM-4 PR.AC: Identity Management. Authentication, and Access Control PR.AC-1

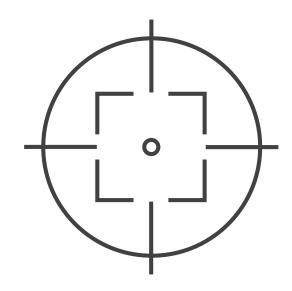


EU Cloud Code of Conduct

How is the code monitored?

The monitoring body, Scope Europe, has the discretion to determine the final level of compliance based on the information provided by the CSP. Compliance with the Code is required every 12 months or sooner if significant changes occur or is a complaint is filed. While demonstration with the entire Code may not be required every 12 months, the CSP is required to maintain compliance at all times.







Europrivacy Certification Value Add



- 1. Legally recognized by all EU Member States
- 2. Identifies and reduces legal and financial risks
- 3. Assesses, validates and communicates compliance
- 4. Builds Trust and Confidence and improves reputation
- 5. Develops competitive advantages and market access
- 6. Saves control costs thanks to certified data processors
- 7. Turns data protection into an asset and source of revenues
- 8. Benefits from continuous compliance updates
- 9. Extends compliance to non-EU jurisdictions





SES ISACA Criteria to be Leveraged for Europrivacy Certification





The Europrivacy GDPR core criteria enable to assess compliance with regards to:

- Lawfulness of Data Processing
- Special Data Processing
- Rights of the Data Subjects
- Data Controller Responsibility
- Data Processors (or sub Processors)
- Security of Processing and Data Protection by Design
- Management of Data Breaches
- Data Protection Impact Assessment (DPIA)
- Data Protection Officer (DPO)
- Transfers of personal data to third countries or international organisations

Where applicable, it is complemented by:

- Complementary Contextual Checks and Controls to assess technology and domain-specific obligations
- Technical and Organisational Measures (TOM) Checks and Controls to assess security requirements

Criteria to be Leveraged for New Frameworks/Regulations

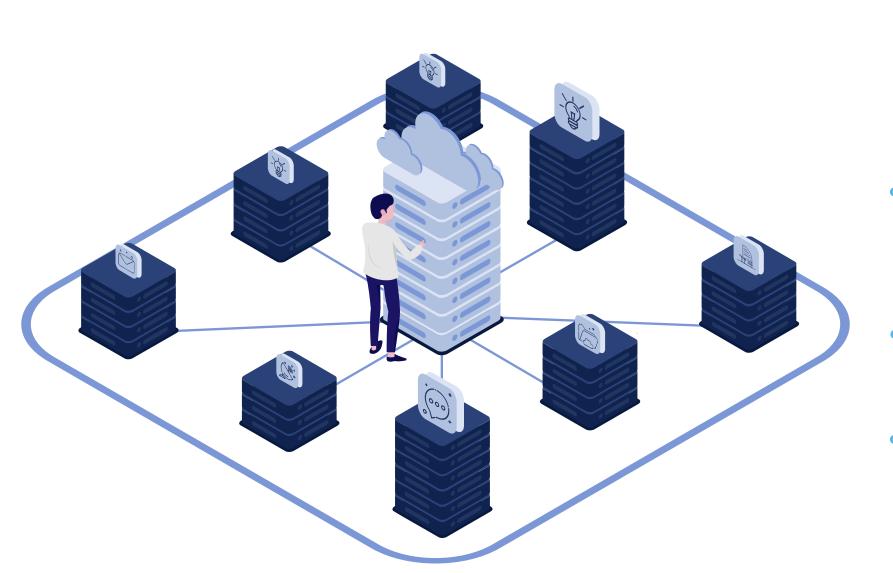
Many of the organization's existing privacy compliance efforts can be leveraged to meet new frameworks and regulations. Even if the requirements are not a 1:1 match, the underlying process and controls can be tweaked to get the organization the rest of the way there.

GOOD NEWS: If your organization has already implemented a privacy program, you are not starting from scratch.



Cross Border Privacy Rules & Privacy Recognition for Processors





There are two systems that were originally agreed upon by APEC economies, the **Cross-Border Privacy Rules(CBPR)** and the **Privacy Recognition for Processors (PRP)**. The systems approach privacy from a controller and processor perspective, respectively.

There are currently nine jurisdictions participating in the CBPR system, including:

- USA
- Singapore
- Philippines

- Mexico
- The Republic of Korea
- Japan
- Australia
- Canada
- Chinese Taipei

The systems are overseen by the Joint Oversight Panel (JOP), but enforcement is a joint operation, with local enforcement authorities playing a key role (FTC for the US).

The system seeks to provide a baseline of privacy considerations for all jurisdictions involved and allows for further requirements in member jurisdictions.



Polling Question 3



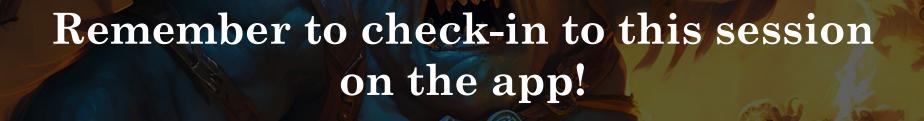
What is a major benefit of including ISO/IEC 27701 in your existing ISO/IEC 27001 certification?

- a) Comprehensive approach to privacy program
- b) Flexible control structure for organizations operating in numerous jurisdictions
- c) Good overlap with other privacy frameworks and regulations
- d) All of the above





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