

# Developments in Cloud and IT/Security Assurance

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# Agenda

Overview of SOC1/SSAE16 and SOC2/SOC3 reports

Trends in cloud/IT outsourcing

Effectively transitioning to the updated SOC2/SOC3  
criteria effective 12/15/14

Using attestation reports to help address  
industry/regulatory requirements

Changing international standards and requirements

Cloud infrastructure governance, risk and controls

# Overview of SOC1/SSAE16 and SOC2/SOC3 reports



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# Service Organization Control (SOC) Reports Overview

Scope/Focus	Report Type	Summary
Internal Control Over Financial Reporting (ICOFR)	<b>SOC1</b> (SSAE16, ISAE 3402)	Detailed report relevant to ICOFR based on control objectives defined by the service provider
Operational Controls • Security, Availability, Confidentiality, Processing Integrity, and/or Privacy	<b>SOC2</b>	Detailed report based on Trust Services Principles and Criteria
	<b>SOC2 Enhanced Reporting</b>	Detailed report with additional controls and mappings added to show alignment with other standards/frameworks such as ISO 27001, CSA-CCM, HIPAA Security, etc.
	<b>SOC3</b>	Short report that excludes the detail of controls and test procedures performed.

- These reports are typically Type 2 reports covering design and effectiveness for a period of time.
- In some cases Type 1 point in time design reports may also be useful.

# Trends in cloud/IT outsourcing



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# Highlights from KPMG and HfS Research, Executive report: The State of Services & Outsourcing in 2014

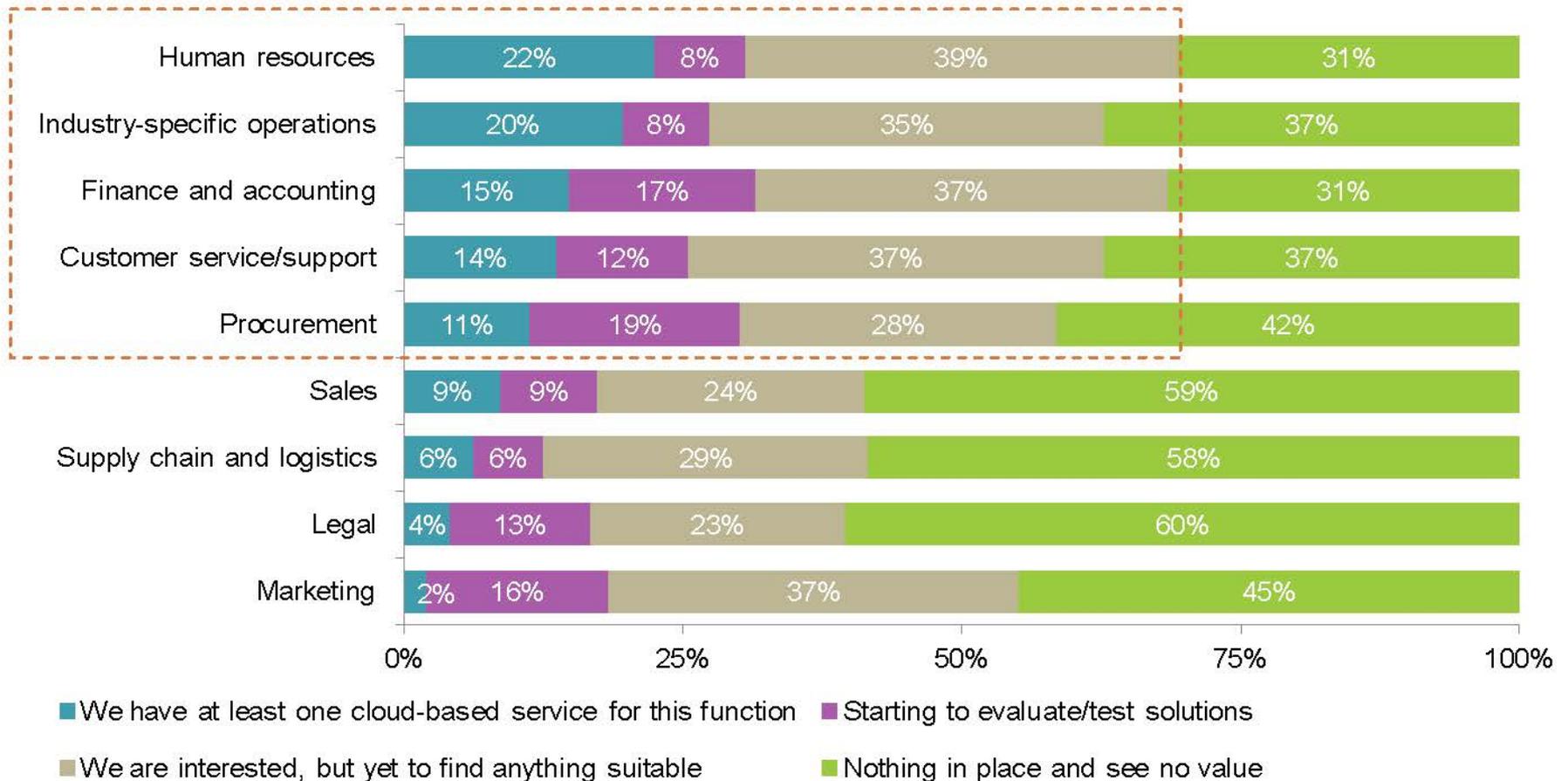
The conversation is moving rapidly away from process improvement and cost reduction. Anything rules-based must be automated/moved into the cloud/outsourced.

Both shared services and outsourcing are on the increase. One in four enterprise buyers are reinvesting heavily in their global shared services operations, while seven out of ten are continuing to make (largely moderate) investments in their outsourcing delivery.

Ambitious and sophisticated clients are now seeing the huge benefits of shifting from on-premise to as-a-Service delivery and many now view BPaaS as an alternative to outsourcing. This isn't something that is occurring in a few years, it's already happening where our latest research shows close to one-in-three enterprises already using (or about to use) BPaaS/cloud as an alternative to legacy outsourcing in areas such as HR, industry-specific operations, finance and accounting, and procurement.

# BPaaS is already replacing legacy outsourcing

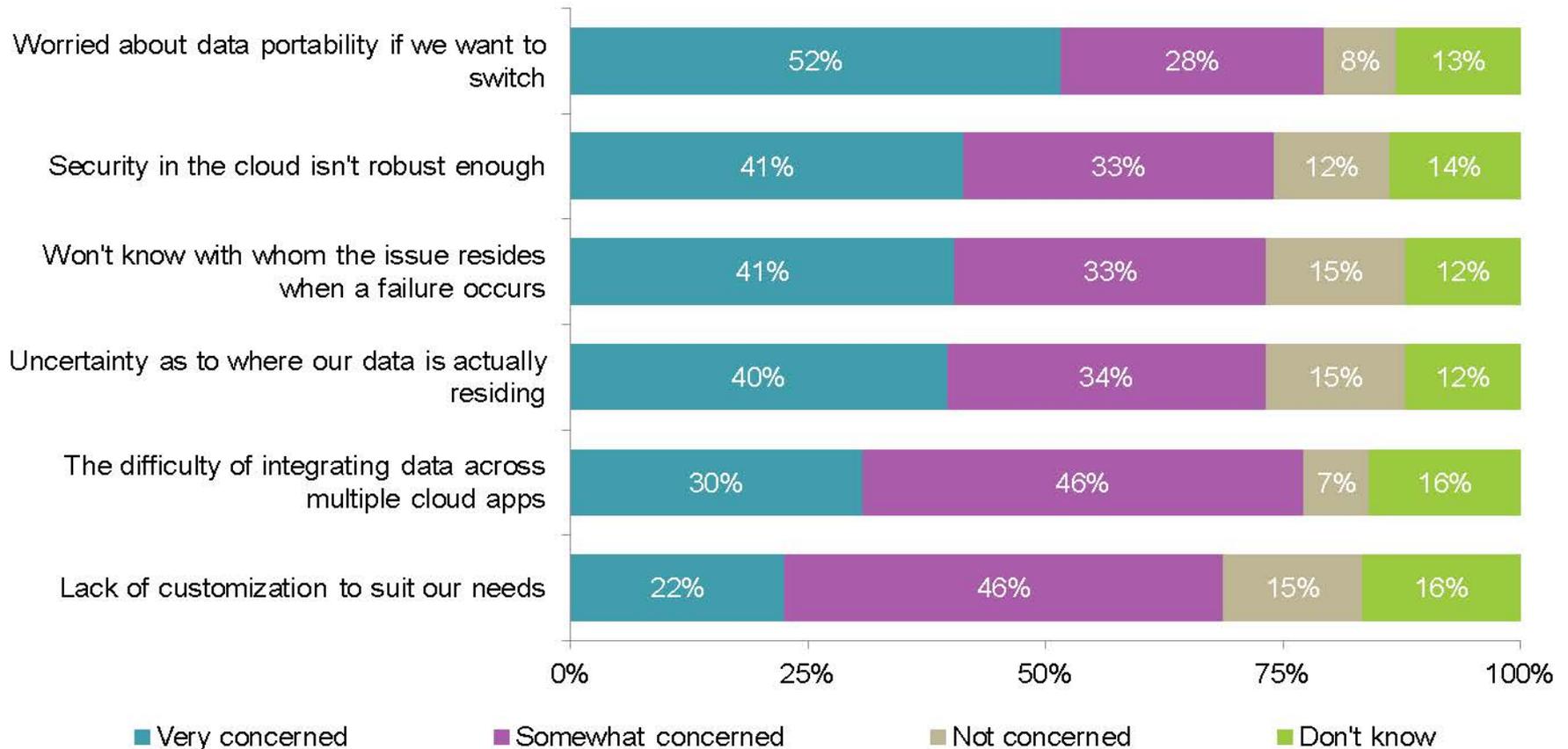
Q. In what areas are you considering cloud/as-a-service options to augment/replace traditional outsourcing?



Source: HfS Research State of Industry Study June 2014, conducted in conjunction with KPMG. (Sample 312 Enterprises)

# Cloud concerns

Reasons for avoiding BPaaS



n = 740 IT Managers in Enterprises

Source: HfS Research 2014.

Effectively transitioning to the  
updated SOC2/SOC3 criteria  
effective 12/15/14



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# Trust Services Criteria Summary – 2014 Update

Common Security Criteria		
<ul style="list-style-type: none"> <li>■ Organization and management</li> <li>■ Communications</li> <li>■ Risk Management and Design and Implementation of Controls</li> </ul>	<ul style="list-style-type: none"> <li>■ Monitoring of Controls</li> <li>■ Logical and Physical Access Controls</li> <li>■ System Operations</li> <li>■ Change Management</li> </ul>	
Availability	Confidentiality	Processing Integrity
<ul style="list-style-type: none"> <li>■ Capacity management</li> <li>■ Environmental and backup controls</li> <li>■ Disaster recovery</li> </ul>	<ul style="list-style-type: none"> <li>■ Life cycle protection</li> <li>■ Access from within and outside system</li> <li>■ Vendor commitments and compliance</li> <li>■ Changes to commitments</li> </ul>	<ul style="list-style-type: none"> <li>■ Error handling</li> <li>■ System inputs</li> <li>■ Data processing</li> <li>■ Data retention</li> <li>■ System output</li> <li>■ Data modification</li> </ul>

- **The Trust Services Criteria (excluding Privacy) were updated in February 2014.**
- **The updated criteria are effective for periods ending on or after December 15, 2014.**
- **The updates include simplification of the structure and increased focus on risk assessment.**

# Basic steps to complete preparations for the updated criteria

Realign controls based on new criteria structure

Link risk assessment to Trust Services Criteria

Verify controls are in place to address new criteria

# Summary of Changes

## Common Criteria – Security

<p><b>Organization and Management</b></p> <ul style="list-style-type: none"> <li>- <b>Organizational structure</b></li> <li>- Responsibility and accountability</li> <li>- Qualifications and resources</li> <li>- <b>Conduct standards and background screening</b></li> </ul>	<p><b>Risk Mgmt, Design, and Implementation of Controls</b></p> <ul style="list-style-type: none"> <li>- <b>Threat identification, risk analysis and risk management</b></li> <li>- Control design</li> <li>- Reassessment of risk mitigation considering changes</li> </ul>	<p><b>Logical and Physical Access Controls</b></p> <ul style="list-style-type: none"> <li>- Logical access system architecture</li> <li>- User provisioning and de-provisioning</li> <li>- User authentication</li> <li>- Physical access</li> <li>- Prevention of unauthorized external access</li> <li>- <b>Protection of information in transit</b></li> <li>- Malicious software prevention</li> </ul>	<p><b>System Operations</b></p> <ul style="list-style-type: none"> <li>- <b>Vulnerability management</b></li> <li>- Issue handling</li> </ul>
<p><b>Communications</b></p> <ul style="list-style-type: none"> <li>- System description</li> <li>- Commitments to external users</li> <li>- Internal and external user responsibilities</li> <li>- <b>Relevant information sharing</b></li> <li>- Issue reporting</li> <li>- Relevant system changes</li> </ul>	<p><b>Monitoring of Controls</b></p> <ul style="list-style-type: none"> <li>- Periodic evaluation of controls</li> </ul>		<p><b>Change Management</b></p> <ul style="list-style-type: none"> <li>- Addressing commitments and requirements</li> <li>- System updates</li> <li>- <b>Correction of deficiencies</b></li> <li>- Change management procedures</li> </ul>

**SUMMARY OF CHANGES:**

- **Criteria in red were made more specific in the 2014 update.**

# Summary of Changes – Availability, Confidentiality, Processing Integrity

Availability	Confidentiality	Processing Integrity
<ul style="list-style-type: none"><li>- <b>Capacity management</b></li><li>- Environmental and backup controls</li><li>- Disaster recovery</li></ul>	<ul style="list-style-type: none"><li>- Protection from design through implementation</li><li>- <b>Access from within system boundaries</b></li><li>- Access from outside system boundaries</li><li>- Vendor commitments</li><li>- <b>Vendor compliance</b></li><li>- Changes to commitments and requirements</li></ul>	<ul style="list-style-type: none"><li>- <b>Error handling</b></li><li>- System inputs</li><li>- Data processing</li><li>- <b>Data retention</b></li><li>- System output</li><li>- <b>Data modification</b></li></ul>

## SUMMARY OF CHANGES:

- **Criteria in red were made more specific in the 2014 update.**

# Changes to Common Criteria – Security

Ref.	Criteria Topic	Change Summary
<b>CC1</b>	<b>Organization and Management</b>	
CC1.1	Organizational structure	■ Made more specific – called out as a separate topic
CC1.2	Responsibility and accountability	
CC1.3	Qualifications and resources	
CC1.4	Conduct standards and background screening	■ Made more specific – calling out background screening
<b>CC2</b>	<b>Communications</b>	
CC2.1	System description	
CC2.2	Commitments to external users	
CC2.3	Internal and external user responsibilities	
CC2.4	Relevant information sharing	■ Made more specific – called out as a separate topic
CC2.5	Issue reporting	
CC2.6	Relevant system changes	

# Changes to Common Criteria – Security (continued)

Ref.	Criteria Topic	Change Summary
<b>CC3</b>	<b>Risk Management and Design and Implementation of Controls</b>	
CC3.1	Threat identification, risk analysis and risk management	<ul style="list-style-type: none"> <li>■ Made more specific – tying risk analysis to controls</li> </ul>
CC3.2	Control design	
CC3.3	Reassessment of risk mitigation considering changes	<ul style="list-style-type: none"> <li>■ Made more specific – focusing on actions taken</li> </ul>
<b>CC4</b>	<b>Monitoring of Controls</b>	
CC4.1	Periodic evaluation of controls	<ul style="list-style-type: none"> <li>■ Made more specific – focusing on design and operating effectiveness, and actions taken</li> </ul>

# Changes to Common Criteria – Security (continued)

Ref.	Criteria Topic	Change Summary
<b>CC5</b>	<b>Logical and Physical Access Controls</b>	
CC5.1	Logical access system architecture	
CC5.2	User provisioning and de-provisioning	
CC5.3	User authentication	
CC5.4	Access privilege management	
CC5.5	Physical access	
CC5.6	Prevention of unauthorized external access	
CC5.7	Protection of information in transit	<ul style="list-style-type: none"> <li>■ <b>Made more specific – calling out transmission, movement and removal</b></li> </ul>
CC5.8	Malicious software prevention	

# Changes to Common Criteria – Security (continued)

Ref.	Criteria Topic	Change Summary
<b>CC6</b>	<b>System Operations</b>	
CC6.1	Vulnerability management	■ Made more specific – adding emphasis to evaluation and counter-measures
CC6.2	Issue handling	
<b>CC7</b>	<b>Change Management</b>	
CC7.1	Addressing commitments and requirements	
CC7.2	System updates	
CC7.3	Correction of deficiencies	■ Made more specific – called out as a separate topic
CC7.4	Change management procedures	

# Changes to Common Criteria – Security (continued)

Ref.	Criteria Topic	Change Summary
<b>CC6</b>	<b>System Operations</b>	
CC6.1	Vulnerability management	<ul style="list-style-type: none"> <li>■ Made more specific – adding emphasis to evaluation and counter-measures</li> </ul>
CC6.2	Issue handling	
<b>CC7</b>	<b>Change Management</b>	
CC7.1	Addressing commitments and requirements	
CC7.2	System updates	
CC7.3	Correction of deficiencies	<ul style="list-style-type: none"> <li>■ Made more specific – called out as a separate topic</li> </ul>
CC7.4	Change management procedures	

# Changes to Criteria – Availability and Confidentiality

Ref.	Criteria Topic	Change Summary
<b>A</b>	<b>Availability</b>	
A1.1	Capacity management	<ul style="list-style-type: none"> <li>■ Made more specific – calling out capacity management</li> </ul>
A1.1	Environmental and backup controls	
A1.2	Disaster recovery	
<b>C</b>	<b>Confidentiality</b>	
C1.1	Protection from design through implementation	
C1.2	Access from within system boundaries	<ul style="list-style-type: none"> <li>■ Made more specific – called out as a separate topic</li> </ul>
C1.3	Access from outside system boundaries	
C1.4	Vendor commitments	
C1.5	Vendor compliance	<ul style="list-style-type: none"> <li>■ Made more specific – adding focus on monitoring and action taken</li> </ul>
C1.6	Changes to commitments and requirements	

# Changes to Criteria – Processing Integrity

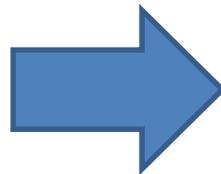
Ref.	Criteria Topic	Change Summary
<b>PI</b>	<b>Processing Integrity</b>	
PI1.1	<b>Error handling</b>	■ <b>Made more specific – now called out as a separate topic</b>
PI1.2	<b>System inputs</b>	
PI1.3	<b>Data processing</b>	
PI1.4	<b>Data retention</b>	■ <b>Made more specific – calling out data retention requirements</b>
PI1.5	<b>System output</b>	
PI1.6	<b>Data modification</b>	■ <b>Made more specific – focusing on authorization rather than just database management</b>

# Privacy Criteria – 2015 Anticipated Updates

## Current structure

### Privacy (approximately 75 criteria including different security criteria)

- Management
- Notice
- Choice and consent
- Collection
- Use and retention
- Access
- Disclosure to third parties
- Security for privacy
- Quality
- Monitoring and enforcement



## Anticipated new structure

### Common Security Criteria

- |                                                             |                                        |
|-------------------------------------------------------------|----------------------------------------|
| ■ Organization and Management                               | ■ Monitoring of Controls               |
| ■ Communications                                            | ■ Logical and Physical Access Controls |
| ■ Risk Management and Design and Implementation of Controls | ■ System Operations                    |
|                                                             | ■ Change Management                    |

### Privacy (approximately 20 criteria)

- Notice
- Choice and Consent
- Collection
- Use, Retention and Disposal
- Access
- Disclosure and notification
- Quality
- Monitoring and Enforcement

# Using attestation reports to help address industry/regulatory requirements



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# SOC2 Enhanced Reporting Overview

SOC2 Enhanced Reporting can potentially be used as a single framework to address multiple security-focused external compliance requirements.

Additional detail can be added to the SOC2 report to help address the needs of customers who have requirements related to other industry standards and frameworks

In most cases, the SOC2 Enhanced Report would cover the Trust Services Security and Availability criteria with additional controls and testing added to enable mapping to the relevant standards.

# SOC2 Enhanced Reporting Examples

Standard/Framework	Potential Benefit
<ul style="list-style-type: none"> <li>■ <b>ISO 27001</b></li> </ul>	<ul style="list-style-type: none"> <li>■ Address security requirements of global customers</li> <li>■ Could serve as a replacement for, or interim step toward ISO certification</li> </ul>
<ul style="list-style-type: none"> <li>■ <b>HIPAA Security Rule</b></li> </ul>	<ul style="list-style-type: none"> <li>■ Provide information on how the service provider's controls align with the requirements of the rule</li> </ul>
<ul style="list-style-type: none"> <li>■ <b>PCI DSS</b></li> </ul>	<ul style="list-style-type: none"> <li>■ Relevant to customers who may operate systems that process or store credit card account information</li> </ul>
<ul style="list-style-type: none"> <li>■ <b>Cloud Security Alliance Cloud Controls Matrix</b></li> </ul>	<ul style="list-style-type: none"> <li>■ Addresses a framework for cloud providers that many customers are familiar with</li> </ul>
<ul style="list-style-type: none"> <li>■ <b>NIST 800-53</b></li> </ul>	<ul style="list-style-type: none"> <li>■ Highly relevant standard to public sector customers</li> </ul>
<ul style="list-style-type: none"> <li>■ <b>NIST Cybersecurity Framework</b></li> </ul>	<ul style="list-style-type: none"> <li>■ Relevant to third parties who are interested in the service provider's cybersecurity efforts</li> </ul>
<ul style="list-style-type: none"> <li>■ <b>Other Industry Specific Standards</b></li> </ul>	<ul style="list-style-type: none"> <li>■ Provides a mechanism to show alignment of controls with the particular industry standard</li> </ul>

# Typical format

Specific topics/ requirements from specified framework	Reference to Related Service Provider Controls	Reference to related SOC2 Criteria
Sec 1.1	<Include control description>	##
Sec 1.2	<Include control description>	##
Sec 1.3	<Include control description>	##
Sec 1.4	<Include control description>	##
Sec 1.5	<Include control description>	##
etc.	etc.	etc.

- This format can be used to map the service provider's SOC2 controls to the relevant parts of other applicable frameworks/standards.
- This information can be extremely helpful to customers whose vendor risk and compliance management programs or requirements include these other standards/frameworks.
- This information would normally be included in the Other Information portion of the SOC2 report.

# Alignment of CCM 3.0.1 with the Trust Services Criteria

No.	Control Count	CCM Control Domain	(Primary) Trust Services Placement
1	AIS (04)	Application & Interface Security	CC5 Logical access CC7 Change management Also PI - Processing Integrity for AIS-03
2	AAC (03)	Audit Assurance & Compliance	CC3 Risk management CC4 Monitoring
3	BCR (11)	Business Continuity Management & Operational Resilience	A3 Disaster recovery A2 Environmental
4	CCC (05)	Change Control & Configuration Management	CC7 Change management CC5 Logical access
5	DSI (07)	Data Security & Information Lifecycle Management	CC Various Could also fit under Confidentiality
6	DCS (09)	Datacenter Security	CC5 Physical access
7	EKM (04)	Encryption & Key Management	CC5 Logical access
8	GRM (11)	Governance and Risk Management	CC3 Risk management CC1 Organization and management
9	HRS (11)	Human Resources	CC1 Organization and management CC2 Communications CC Security (various)

# Alignment of CCM 3.0.1 with the Trust Services Criteria (continued)

No.	Control Count	CCM Control Domain	(Primary) Trust Services Placement
10	IAM (13)	Identity & Access Management	CC5 Logical access CC3 Risk management CC7 Change management
11	IVS (13)	Infrastructure & Virtualization Security	CC5 Logical access CC7 Change management CC Security (various) Also A1 - Capacity Management for IVS-04
12	IPY (05)	Interoperability & Portability	CC Security (various)
13	MOS (20)	Mobile Security	CC Security (various) based on subtopic Largely user focused
14	SEF (05)	Security Incident Management, E-Discovery & Cloud Forensics	CC6 System operations CC2 Communications
15	STA (09)	Supply Chain Management, Transparency and Accountability	C1.4 Vendor commitments C1.5 Vendor compliance CC Security (various)
16	TVM (03)	Threat and Vulnerability Management	CC5 Logical access CC7 Change management

# Addressing CCM 3.0.1 within a SOC2 Report

Trust Services Criteria Category		(Primary) CCM Control Domain	
CC1.0	Organization and Management	HRS (11)	Human Resources
CC2.0	Communications		
CC3.0	Risk Management and Design and Implementation of Controls	AAC (03)	Audit Assurance & Compliance
CC4.0	Monitoring of Controls	GRM (11)	Governance and Risk Management
CC5.0	Logical and Physical Access Controls  (and potentially Processing Integrity for AIS-03)	AIS (04)	Application & Interface Security
		DCS (09)	Datacenter Security
		EKM (04)	Encryption & Key Management
		IAM (13)	Identity & Access Management
		IVS (13)	Infrastructure & Virtualization Security
		TVM (03)	Threat and Vulnerability Management

# Addressing CCM 3.0.1 within a SOC2 Report (continued)

Trust Services Criteria Category		(Primary) CCM Control Domain	
CC6.0	System Operations	SEF (05)	Security Incident Management, E-Discovery & Cloud Forensics
CC7.0	Change Management	CCC (05)	Change Control & Configuration Management
CC various	Security - various	DSI (07)	Data Security & Information Lifecycle Management
		IPY (05)	Interoperability & Portability
		MOS (20)	Mobile Security
A1.0	Availability	BCR (11)	Business Continuity Management & Operational Resilience
C1.0	Confidentiality	STA (09)	Supply Chain Management, Transparency and Accountability

# Changing international standards and requirements

# ISO 27001:2013 control objectives & controls

Ref.	Approx. # of Requirements	Domain
<b>General - Information Security Management System (ISMS)</b>	-	<ul style="list-style-type: none"> <li>■ ISMS Documentation</li> <li>■ Risk Assessment and Risk Treatment</li> <li>■ Statement of Applicability</li> <li>■ Internal Audit of ISMS</li> <li>■ Corrective Action/Continuous Improvement</li> </ul>
A.5	2	■ Security policy
A.6	7	■ Organization of information security
A.7	6	■ Human resources security
A.8	10	■ Asset management
A.9	14	■ Access control
A.10	2	■ Cryptography
A.11	15	■ Physical and environmental security
A.12	14	■ Operations security
A.13	7	■ Communications security
A.14	13	■ Information systems acquisition, development and maintenance
A.15	5	■ Supplier relationships
A.16	7	■ Information security incident management
A.17	4	■ Information security aspects of business continuity management
A.18	8	■ Compliance
Total	114	

# ISO 27018

- ISO/IEC 27018 (2014) – Information technology – Security techniques -- Code of practice for PII protection in public clouds acting as PII processors
- Builds on ISO 27001/27002 and ISO/IEC 29100 Information technology – Security techniques – Privacy framework
- Provides guidance for selecting PII protection controls within the process of implementing a cloud computing information security management system

# ISO 27018 Summary

## Additional Guidance to Supplement ISO 27001/27002

- |                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                          |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"><li>■ Information security policies*</li><li>■ Organization of information security*</li><li>■ Human resource security*</li><li>■ Asset management</li><li>■ Access control*</li><li>■ Cryptography</li><li>■ Physical and environmental security*</li><li>■ Operations security*</li></ul> | <ul style="list-style-type: none"><li>■ Communications security*</li><li>■ System acquisition, development and maintenance</li><li>■ Supplier relationships</li><li>■ Information security incident management*</li><li>■ Information security aspects of business continuity management</li><li>■ Compliance*</li></ul> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

\* Includes additional cloud guidance

# ISO 27018 Summary (continued)

## Public cloud PII processor extended control set for PII protection Building on eleven privacy principles of ISO/IEC 29100

### A.1 Consent and choice

- A.1.1 Obligation to co-operate regarding PII principals' rights

### A.2 Purpose legitimacy and specification

- A.2.1 Cloud PII processor's purpose
- A.2.2 Cloud PII processor's commercial use

### A.3 Collection limitation\*

### A.4 Data minimization

- A.4.1 Secure erasure of temporary files

### A.5 Use, retention and disclosure limitation

- A.5.1 PII disclosure notification
- A.5.2 Recording of PII disclosures

### A.6 Accuracy and quality\*

\* No specific cloud provisions included

### A.7 Openness, transparency and notice

- A.7.1 Disclosure of sub-contracted PII processing

### A.8 Individual participation and access\*

- A.9 AccountabilityA.9.1 Notification of a data breach involving PII
- A.9.2 Retention period for administrative security policies and guidelines
- A.9.3 PII return, transfer and disposal

### A.10 Information security

- A.10.1 Confidentiality or non-disclosure agreements
- A.10.2 Restriction of the creation of hardcopy material
- A.10.3 Control and logging of data restoration

- A.10.4 Protecting data on storage media leaving the premises
  - A.10.5 Use of unencrypted portable storage media and devices
  - A.10.6 Encryption of PII transmitted over public data-transmission networks
  - A.10.7 Secure disposal of hardcopy materials
  - A.10.8 Unique use of user IDs
  - A.10.9 Records of authorized users
  - A.10.10 User ID management
  - A.10.11 Data processing contract measures
  - A.10.12 Sub-contracted PII processing
  - A.10.13 Access to data on pre-used data storage space
- ### A.11 Privacy compliance
- A.11.1 Geographical location of PII
  - A.11.2 Intended destination of PII

# ISO 27017 (under development)

- Information Technology — Security Techniques — Code of practice for information security controls based on ISO/IEC 27002 for cloud services

# Cloud infrastructure governance, risk and controls



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# Common cloud provider challenges



Rising expectations of customers



New contractual requirements



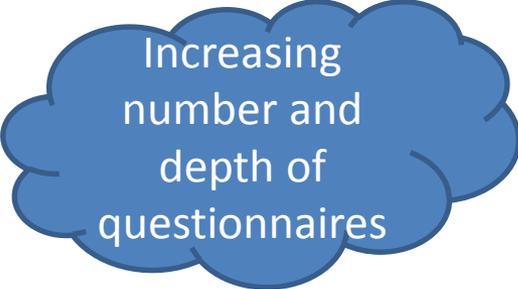
Multiple audit requirements



Increasing customer audit requests



Demands for more detailed information



Increasing number and depth of questionnaires

# Common cloud provider challenges (continued)

Inconsistencies  
across services/  
environments

Lack of a  
unified  
control set

Rapidly  
growing and  
changing  
environments

Launching of  
new services

Complexities  
of managing  
user access

Rapid agile  
development

Pressure to  
adopt Dev Ops  
model and relax  
segregation of  
duties

Managing risks for  
multi-provider  
solutions

# Key takeaways for service providers

Establish a governance function over cloud initiatives

Make it a priority internally to critically analyze and restrict privileged user access on an ongoing basis

Ensure that strong monitoring controls are in place

Move toward an integrated control set and consolidated set of audit activities, where feasible

Prioritize and quantify emerging requirements, assess readiness for incremental requirements, fix gaps, then add to control set and audit scope

Consider available assurance tools such as SOC2 Enhanced Reporting to provide additional detail where appropriate

# Conclusion



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# Additional Q&A



# Contact Information

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