



cloud  
**CSA** security  
alliance®

April 2022 vEvent

1. ***News from CSA Global / CAIQ 4 release*** (20 mins) - Giulio Faini.

Abstract: Introduction and review of key elements of major new release of CAIQ questionnaire (v4)

2. ***IT Innovation in the Pharma industry*** (20 mins) - Flavio Aliberti

Abstract: Challenges and opportunities in Pharma industry and the role of innovation in shaping new scenarios.

3. ***Status update on new Swiss legislations*** (20 mins) - Yves Gogniat

Abstract: Swiss laws status update and future implications for Swiss companies for what concerns data privacy and security.

4. ***Q&A*** (20 mins) – All

126,000+  
INDIVIDUAL MEMBERS

105+  
CHAPTERS

400+  
CORPORATE MEMBERS

30+  
ACTIVE WORKING GROUPS



Strategic partnerships with  
governments, research  
institutions, professional  
associations and industry



CSA research is FREE!

2009

CSA FOUNDED

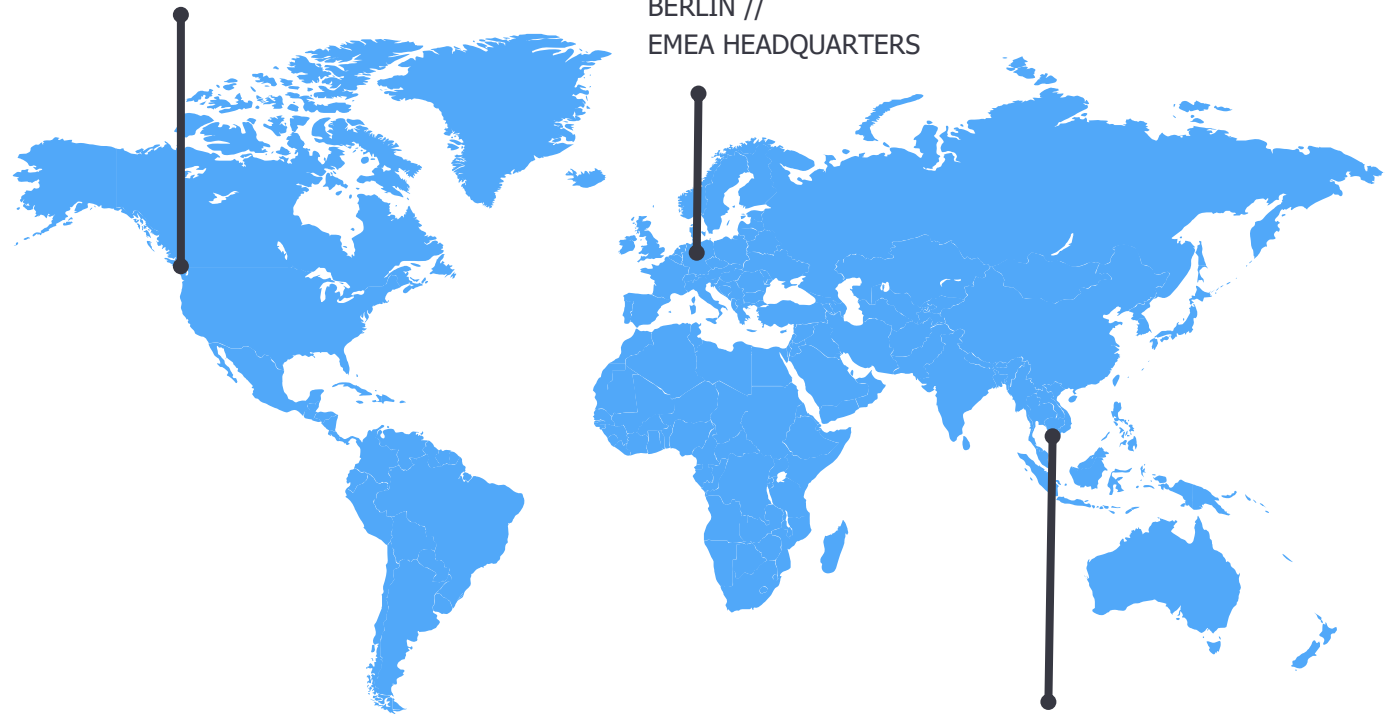
SEATTLE/BELLINGHAM, WA // US  
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BERLIN //  
EMEA HEADQUARTERS

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PACIFIC  
HEADQUARTERS



OUR COMMUNITY



# Certificates & Training

# CCSK (Certificate of Cloud Security Knowledge)



## Certificate of Cloud Security Knowledge (CCSK)

Teaches the fundamentals of cloud security including architecture, data security, managing risk and more.

### What are the benefits of earning your CCSK?

- **Prove** your competency in key cloud security issues through an organization that specializes in cloud research.
- **Increase** employment opportunities by filling the skills-gap for cloud-certified professionals.
- **Demonstrate** your technical knowledge, skills, and abilities to effectively use controls tailored to the cloud.
- **Learn** to establish a baseline of security best practices when dealing with a broad array of responsibilities, from cloud governance to configuring technical security controls.
- **Complement** other credentials such as the CISA, CISSP and CCSP.

<https://cloudsecurityalliance.org/education/ccsk>



# CCAK (Certificate of Cloud Auditing Knowledge)



*The industry's first global cloud auditing credential.*

The Certificate of Cloud Auditing Knowledge (CCAK) is the first credential available for industry professionals to demonstrate their expertise in the essential principles of auditing cloud computing systems.

## What will you learn when you earn the CCAK?

- **Assessment**
- **Evaluation**
- **Governance**
- **Compliance**
- **Internal Security**
- **Continuous Monitoring**



**Certificate of Cloud Auditing Knowledge**  
A Cloud Security Alliance® and ISACA® Credential

<https://cloudsecurityalliance.org/education/ccak/>

# Tools

# CCM (Cloud Controls Matrix)

**The CSA Cloud Controls Matrix (CCM) is a cybersecurity control framework for cloud computing.**

It is composed of 197 [control](#) objectives that are structured in 17 domains covering all key aspects of cloud technology. It can be used as a tool for the systematic assessment of a cloud implementation, and provides guidance on which security controls should be implemented by which actor within the cloud supply chain.

The controls framework is aligned to the [CSA Security Guidance for Cloud Computing](#), and is considered a de-facto standard for cloud security assurance and compliance.



<https://cloudsecurityalliance.org/artifacts/cloud-controls-matrix-v4/>



## Which security domains are covered by the CCM?

<b>A&amp;A</b>	Audit and Assurance	<b>IAM</b>	Identity & Access Management
<b>AIS</b>	Application & Interface Security	<b>IPY</b>	Interoperability & Portability
<b>BCR</b>	Business Continuity Mgmt & Op Resilience	<b>IVS</b>	Infrastructure & Virtualization Security
<b>CCC</b>	Change Control and Configuration Management	<b>LOG</b>	Logging and Monitoring
<b>CEK</b>	Cryptography, Encryption and Key Management	<b>SEF</b>	Sec. Incident Mgmt, E-Disc & Cloud Forensics
<b>DCS</b>	Datacenter Security	<b>STA</b>	Supply Chain Mgmt, Transparency & Accountability
<b>DSP</b>	Data Security and Privacy	<b>TVM</b>	Threat & Vulnerability Management
<b>GRC</b>	Governance, Risk Management and Compliance	<b>UEM</b>	Universal EndPoint Management
<b>HRS</b>	Human Resources Security		

<https://cloudsecurityalliance.org/artifacts/cloud-controls-matrix-v4/>

# CAIQ (Consensus Assessment Initiative Questionnaire)

CSA is thrilled to release the latest updates to the Consensus Assessment Initiative Questionnaire (CAIQ), a set of questions that allow cloud consumers and auditors to ascertain a cloud service provider's compliance with the [Cloud Control Matrix \(CCM\)](#).

Version 4 updates to CAIQ include:

- A more streamlined set of questions (261 compared to 310 in the previous version)
- Additional sections related to the Security Shared Responsibility Model (SSRM), which lets CSPs better describe the allocation of the responsibility.
  - **CSP-owned, CSC-owned, 3rd party-outsourced, Shared CSP and CSC.**
- Starting in July 2022 CSA will no longer be accepting CAIQ v3.1



<https://cloudsecurityalliance.org/blog/2021/06/07/caiq-v4-released-changes-from-v3-1-to-v4/>

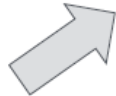
# Why Version 4?

- Ensure coverage of requirements deriving from new cloud technologies (e.g., IoT, microservices, containers, serverless)
- Increase interoperability & compatibility with other standards, laws and regulations (e.g., ISO27xxx series, NIST, GDPR, etc)
- Define allocation of responsibilities (Security Shared Responsibility Model)
- Facilitate controls implementation and operations
- Improve the auditability of controls

# Improved Control Language Clarity

## DSI-01 (CCM v3.0.1)

"Data and objects containing data shall be assigned a classification by the data owner based on data type, value, sensitivity, and criticality to the organization."



## DSP-01 (CCM v4.0)

"Establish, document, approve, communicate, apply, evaluate and maintain policies and procedures for the classification, protection and handling of data..."



## DSP-04 (CCM v4.0)

Classify data according to its type and sensitivity level."

### CCM v4.0

- Active voice (instead of passive in v3)
- Short & comprehensive specifications
- Each domain follows a top-down, policy to technical-level, ordered hierarchy of specifications
- First set of controls per domain is policy-oriented (see dsi-01 vs dsp-01)
- Same set of "verbs" is used consistently to specify implementation action within policy or technical level specifications

# The CSA STAR Program

- It's a governance, assurance and compliance program, focused on security and privacy, that creates trust and accountability in the cloud market.
- It's a consensus driven and industry lead program aimed to help CSPs and customers alike.



		AUDIT FREQUENCY	Security	Privacy
TYPE OF AUDIT	●—●—●	STAR Level 3	Continuous Auditing	_____
	●—●—○	STAR Level 2 Continuous	Level 2 + Continuous Self-Assessment	_____
		STAR Level 2	3rd Party Certification	GDPR CoC Certification
	●—○—○	STAR Level 1 Continuous	Continuous Self-Assessment	_____
		STAR Level 1	Self-Assessment	GDPR CoC Self-Assessment

↑ TRANSPARENCY & ASSURANCE

The most widely adopted cloud assurance & compliance in the market with a total of 1125 cloud service assessed:

- Level 1 has 975 services
- Level 2 has 150 services



# Circle

Circle is a global community that facilitates resources and security discussions within a diverse group of CSA partners to form the core foundation of the most vital information security community in the world.

## Benefits of CIRCLE:

- Network and connect with peers and subject matter experts
- Ask questions of thought-leaders, subject matter experts, and industry professionals
- Job board, including tools and resources for job seekers and companies searching for qualified candidates
- Participate in CSA research working groups or research discussions
- Receive early research releases
- Receive the latest information about CSA education, training, and certifications

<https://csachapter.io/switzerland>



# Research



53

# Research Publications in 2021

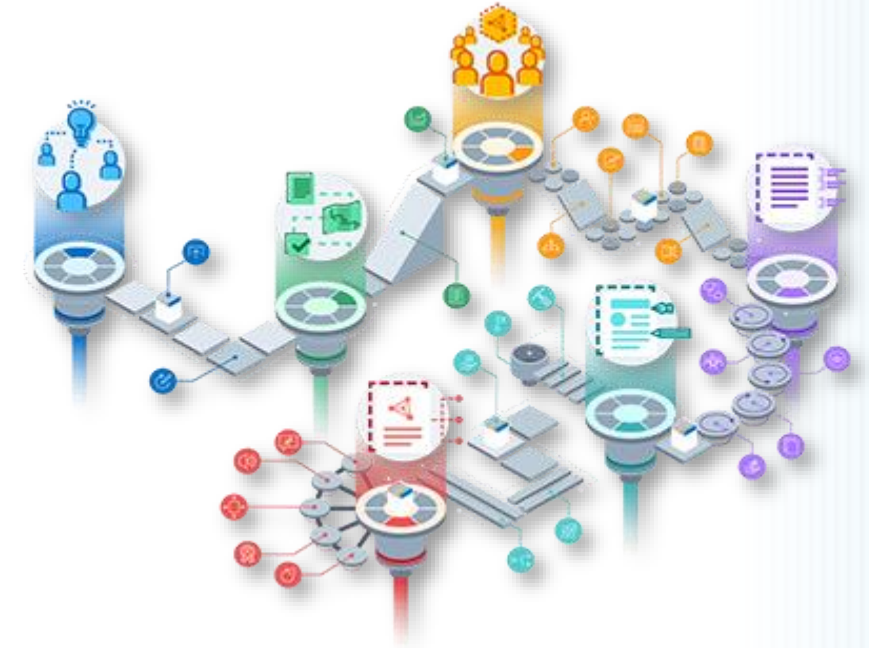


385+

Research Artifacts  
available for download

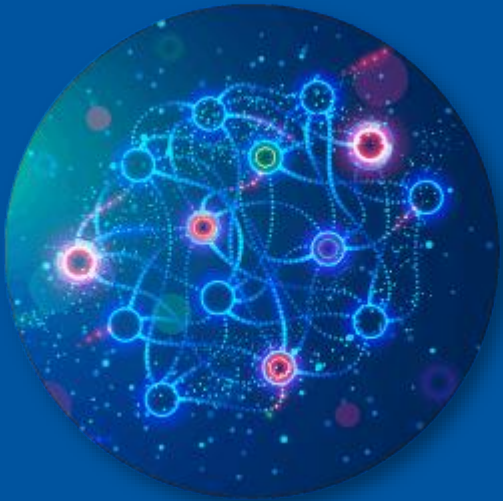
# WAYS TO ENGAGE WITH CSA RESEARCH

- 1. Join a Working Group**
- 2. Contribute to a Peer Review**
- 3. Download Research Artifacts (whitepapers)**
- 4. View the latest CloudBytes (webinars)**
- 5. Contribute to the CSA Blog**





# Working Groups



## Join a Working Group

The CSA Maintains Working Groups across **30 Domains** of Cloud Security (Artificial Intelligence, Blockchain, DevSecOps, Health Information Management, Industrial Control Systems, Internet of Things)

Working Groups work through quarterly objectives and combine contributions that can end up as white papers, blogs, and even webinars.

<https://cloudsecurityalliance.org/research/working-groups>

# Peer Reviews



## Contribute to a Peer Review

The CSA produces research whitepapers on cloud security best practices using peer reviews to vet the quality of research and adherence to cloud security standards, before research is accepted for publication.

There are approximately 2-4 peer reviews per month concerning various topics related to cloud security across CSA's 30 working group domains.

<https://cloudsecurityalliance.org/research/contribute>

# Research Releases



## Download Research Artifacts (white papers)

Once a research document completes the peer review process, it is published as a white paper on the CSA website, available for free download.

CSA maintains a repository of over 250 research white papers concerning cloud security best practices across 30 different domains of cloud security.

CSA white papers have been translated into 13 different languages.

<https://cloudsecurityalliance.org/artifacts>

## USEFUL CSA LINKS

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### **KNOWLEDGE CENTER (Online Learning Management System)**

<https://knowledge.cloudsecurityalliance.org>

### **CCSK EXAM SITE**

<https://ccsk.cloudsecurityalliance.org>

### **CSA STAR (Security, Trust and Assurance Registry), PROVIDER ASSURANCE PROGRAM**

<https://cloudsecurityalliance.org/star/>

### **DOWNLOAD CSA RESEARCH WHITEPAPERS**

<https://cloudsecurityalliance.org/artifacts>

### **CIRCLE**

<https://circle.cloudsecurityalliance.org>

### **CLOUDBYTES UPCOMING**

<https://cloudsecurityalliance.org/research/cloudbytes>

### **CLOUDBYTES RECORDED**

<https://cloudsecurityalliance.org/research/cloudbytes/previous>

### **BLOG**

<https://cloudsecurityalliance.org/blog>

**CSA** cloud security alliance®