Charter 2022
Enterprise Architecture Working Group
Working Group Executive Overview

To promote research, development, and education of best practices and methodologies around a reference enterprise architecture for a secure and trusted cloud.

The Enterprise Architecture Working Group (EAWG) helps cloud customers and providers develop industry-recommended, secure, interoperable identity, access, and compliance management configurations and practices. The working group developed a cloud reference architecture, the CSA Enterprise Architecture (formerly the TCI), which overlays cloud platforms and solutions on existing common enterprise architectures hardened with security criteria and industry mappings from the CSA Cloud Controls Matrix. The EAWG will further develop additional reference models and education on categories of cloud solutions and related technologies for the secure configuration and adoption of emerging technologies in a vendor-neutral manner, inclusive of all CSA members and affiliates who wish to participate.

Working Group Scope and Responsibilities

The EAWG Enterprise Architecture is a methodology and a set of tools enabling security architects, enterprise architects, and GRC (Governance Risk and Compliance) professionals to leverage a common set of solutions that fulfill their everyday needs. ERA (Enterprise Reference Architecture) will assist in assessments where their internal IT and their cloud providers are in terms of security capabilities and roadmap planning to meet the security needs of their business. The ERA provides a security viewpoint on a typical Enterprise Architecture, thus taking a domain-based approach covering Business Operations, IT Operations, Security, and Risk Management and the classic layered architecture of Presentation, Application, Information, and Infrastructure domains. This approach covers the broadest range of architectures for both on-premise and cloud-hosted solutions, with capabilities of the reference architecture the same regardless of the hosting model.

Specific Responsibilities are:

- Update the EAWG Enterprise Reference Architecture Model and Website
- Update the EA to CCM Mapping and other accompanying documents
- Create educational material and update communication channels (e.g., website)
- Review the impact of different standards on the CSA Enterprise Reference Architecture
- Act as Cloud Security Alliance’s formal liaison group with CSA CCM, IoT, ICS, etc.
- Act as Cloud Security Alliance’s formal liaison group with CSA International Standardization Council (ISC) and other relevant Standards Developing Organizations (SDO’s) (e.g., ISO, NIST, etc.)

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Objectives and Goals

Design and maintain an enterprise reference architecture that can be used as a standard and a guide for the planning and designing of an organization's enterprise architecture. The CSA's reference architecture and methodology can be used to:

- Demonstrate what security controls (i.e., CCM) should be applied when and where within a company security program/management system
- Create a standardized, consistent, and efficient service design process
- Communicate how security contributes to achieving Vision and Strategy

Research Initiatives

Enterprise Architecture Update
The cloud reference architecture will be evaluated against the latest versions of architectures referenced by the EA. Real-world use cases will be leveraged to generate a common architecture. A complimentary reference guide will be developed to provide an overview, use, and description of the architectural elements.

- Technical Reference
  - Latest TOGAF, ITIL, SABSA, Jericho, Cobit overlay
  - Addition of elements (i.e., maturity models, DevOps, edge devices)
- Reference Guide
  - Defining architecture layers (i.e., domains, containers, capabilities)

Mapping to the CCM v4
The 197 security controls of the Cloud Controls Matrix v4 will be mapped to the approximately 365 architecture capabilities to add additional security measures and mitigations for business capabilities. A complimentary mapping guide will be developed to provide an overview, use, and description of the architectural elements.

Interactive Website
A three-dimensional model of the website will be recreated to customize the relevancy of the architecture elements based on user-selected criteria. Criteria include provider, tenant, SPI model, solution category, etc. (https://ea.cloudsecurityalliance.org/)

Solution Architectures for Cloud Categories
The working group will evaluate common cloud solutions for development as a solutions architecture that overlays the cloud reference architecture. The solution architectures will help end-users evaluate and meet cloud security criteria, business capabilities, and secure configurations of the cloud solution into the enterprise. Common solutions to consider: Zero Trust models (Software Defined Perimeter), CASB/SASE, WAF/Next-Gen Firewalls, SIEM.
• Survey enterprises on the top solutions with implementation challenges
• Templatize a solution reference architecture for overlay into the EA
• Workshop for continued development of multiple solution architectures

**Deliverable Schedule**

**Q4 2020**

• Published Shared Responsibility Matrix
• Published EA / CCMv3 Mapping

**Q2 2021**

• Published EA Reference Guide
• Published EA / CCMv3 Mapping Guide
• Published EA Technical Reference
• Published EA Interactive Website “Go Live!”

**Q2 2022**

• Publish EA Working Group Charter May

**Q4 2022**

• Publish EA Technical Reference
• Publish EA Reference Guide

**Q2/Q3 2023**

• Publish EA / CCMv4 Mapping
• Publish EA / CCMv4 Mapping Guide
• Publish EA Technical Reference
• Publish EA Reference Guide
• Publish EA Interactive Website “Go Live!”
• Present at RSA

**Future**

• Solution Architectures for Cloud Categories
Working Group Membership

The CSA appoints working group co-chairs. Membership includes representatives from the cloud computing industry.

Principal attendees will be designated representatives from an entity, and any alternative to be designated by each principal.

The co-chairs may appoint others as necessary to assure the effective execution of the defined work.

Other individuals may be invited to attend meetings by the principals as deemed necessary to provide inputs to topics under discussion.

Working Group Structure

Co-Chairs

The working group will be led by co-chairs in addition to the elected leadership. The co-chairs will assist with the leadership responsibility of the working group. The co-chairs may appoint others as necessary to assure the effective execution of the defined research.

Committees

The working group may designate and organize subcommittees to aid in research with the initiatives pertaining to the subject matter of the working group

Sub-Work Groups

Ad hoc sub-work groups composed of subject matter experts may be formed to plan or execute any related outreach, awareness, or research opportunities. Such sub-working groups shall report directly to the main working group.

Alignments with Outside Groups

The working group may also choose to allow resource sharing between cloud communities and other CSA working groups to assist in the timely completion of projects, programs, and other activities needed to support/enable the working group's defined body of work on, on-demand basis. The working group will share research and standards aligned with other CSA Working Groups, advisory groups, and industry partners (i.e., SDOs, gov).
Operations

Advisory

The CSA Working Group will be advised by the CSA Subject Matter Expert (SME) Advisory Council, International Standardization Council (ISC), and CSA Executive Team to ensure that the research under the working group remains within the scope of CSA and aligns with other industry partner research. The research will remain unique to the industry and refer to any redundant or replicated work.

Research Lifecycle

The CSA Working Group will follow the development of the CSA research lifecycle for all projects and initiatives:

https://cloudsecurityalliance.org/research/lifecycle/

Peer Review

We will seek CSA’s help in reaching out to peers for reviewing our charter, publications, and other documented activities of the working groups.

Communications Methods

Infrastructure & Resource Requirements

The working group will be composed of CSA volunteers and co-chairs, and/or committee(s). The working group will require typical project management, an online workspace, and technical writing assistance.

Work Group Conference Calls and In-person Meetings

The working group will hold conference calls no less than quarterly. Attendance or participation in the online workspace by the Principal or Alternate is required. The Alternate must have full authority to act on behalf of the Principal if the Principal is absent. In-person meetings will happen in a location to be determined.
Decision-making Procedures

A. Definition of a majority

1. A majority shall consist of more than half of the members who are present and voting.
2. In computing a majority, members abstaining shall not be taken into account.
3. In case of a tie, a proposal or amendment shall be considered rejected.
4. For the purpose under this Charter, a “member present and voting” shall be a member voting “for” or “against” a proposal, including proxy representative.
5. Proxy, where authority is delegated through a written statement or non-repudiated email, should be declared and inspected for validity by the working group leadership before voting starts.

B. Abstentions of more than fifty percent

1. When the number of abstentions exceeds half the number of votes cast (for votes, plus against votes, plus abstention votes), consideration of the matter under discussion shall be postponed to a later meeting, at which time abstentions shall not be taken into further account.

C. Voting procedures

1. The voting procedures are as follows:
   a. By a show of hands as a general rule unless a secret ballot has been requested; if at least two members, present and entitled to vote, so request before the beginning of the vote and if a secret ballot under b) has not been requested, or if the procedure under a) shows no clear majority
   b. By a secret ballot, if at least five of the members present and entitled to vote so request before the beginning of the vote (online voting is applicable)
2. The Chair(s) shall, before commencing a vote, observe any request as to the manner in which the voting shall be conducted, and then shall formally announce the voting procedure to be applied and the issue to be submitted to the vote. The Chair(s) shall then declare the beginning of the vote and, when the vote has been taken, shall announce the results.
3. In the case of a secret ballot, the working group leadership shall at once take steps to ensure the secrecy of the vote.

Duration

The working group will operate until November 2022 for its chartered deliverables, and at that time, consider charter renewal.
# Charter Revision History

<table>
<thead>
<tr>
<th>Date</th>
<th>Co-Chairs</th>
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<tbody>
<tr>
<td>April 07, 2017</td>
<td>Ryan Bergsma, and Dan Logan, Co-chair</td>
</tr>
<tr>
<td>July 13, 2020</td>
<td>Jon-Michael C. Brook, and Michael Roza, Co-chairs</td>
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<tr>
<td>June 30, 2021</td>
<td>Jon-Michael C. Brook, and Michael Roza, Co-chairs</td>
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<tr>
<td>August 03, 2022</td>
<td>Jon-Michael C. Brook, and Michael Roza, Co-chairs</td>
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