

Unlocking Software Supply Chain Security Updates from Ecma International: TC54 and OWASP

September 2025

Session and Speakers

Samina Husain (Secretary General, Ecma International)

- Introduction and Ecma's role in CRA-related global standards

Steve Springett (Chair Technical Committee TC 54)

- Introduction to TC54, CRA relevance, and an overview of current work in CycloneDX 1.7 and 2.0.
- Common Lifecycle Enumeration (CLE) (Co-Convenor)
- The Transparency Exchange API (TEA) (Co-Convenor)

Philippe Ombredanne

- Package-URL (Convenor)

Q&A



The banner features a teal background with a geometric pattern of overlapping squares in various shades of blue and green on the left side. In the top right corner, there is a white shield icon containing a checkmark, followed by the text "Open Regulatory Compliance". To the right of this is the text "CRA Mondays" in a large, bold, white font. Below this, the text "Unlocking Software Supply Chain Security:" is written in white, followed by "Updates from Ecma TC54 and OWASP" in a smaller white font. At the bottom, there are three circular headshots of men. Below the headshots, their names are listed in white text: "Steve Springett | Olle E Johansson | Philippe Ombredanne".

Open
Regulatory
Compliance

CRA Mondays

Unlocking Software Supply Chain Security:
Updates from Ecma TC54 and OWASP

Steve Springett | Olle E Johansson | Philippe Ombredanne

1. Overview Ecma
2. CRA and SBOM
3. TC54 - Software and system transparency

Thank you - Open Regulatory Compliance - Eclipse Foundation:

Shanda Giacomoni

Senior Marketing Manager

Juan Rico

Senior Program Manager

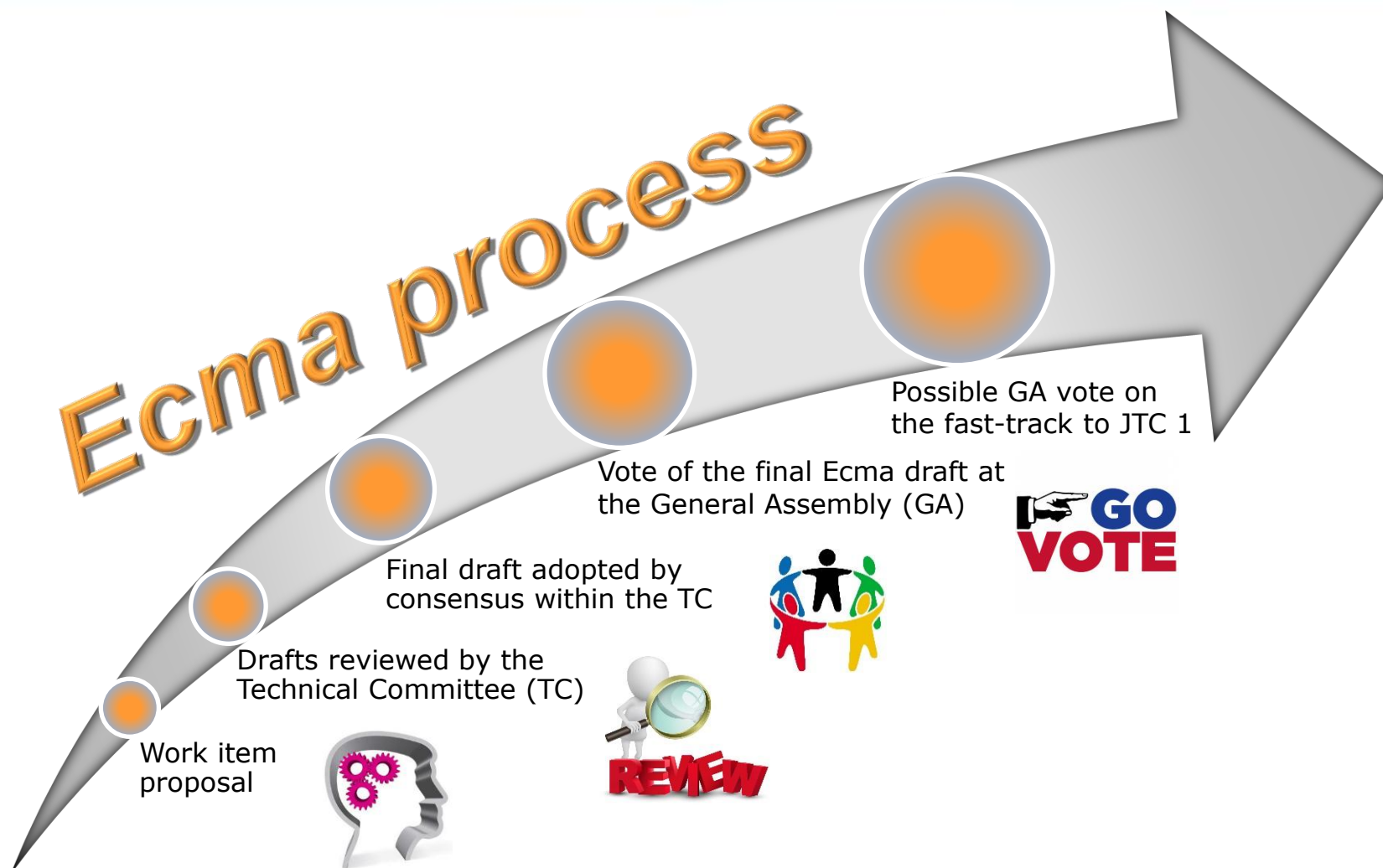
Founded in 1961

- **Ecma International** is a global industry association that develops standards for ICT, based in Geneva Switzerland.
- Covering a wide range of standardization topics, including hardware, software, communications, media, storage, consumer electronics, environmental technologies, and AI.
- Track record: Over **530** publications (standards/technical reports) and over **230** published by ISO/IEC.

<https://ecma-international.org/>

Experts-driven standards development

- Proactive group of experts
- Internationally recognized publication of standards
- Efficient and agile process



Ecma in collaboration with OWASP:

- **ECMA-424** - CycloneDX Bill of materials specification, *1st edition, June 2024*
- This Ecma International standard defines the CycloneDX v1.6 Bill of materials specification.

<https://ecma-international.org/technical-committees/tc54/?tab=published-standards>

Key items:

- SBOM
- Data model
- Security features
- *and more...*



Standard ECMA-424

1st Edition / June 2024

**CycloneDX
Bill of materials
specification**

Programme of work:

- To develop a standard for the CycloneDX software transparency and Bill of Materials specification.
- To develop a standard for the Transparency Exchange API (Project Koala) for discovering and sharing of software transparency information.
- To develop a standard and guidance for multiple BOM merging algorithms.
- To investigate the further direction of standards in the software transparency space.
- To evaluate and consider proposals for complementary or additional technology.

<https://ecma-international.org/technical-committees/tc54/>

TC54 – Task Groups

- *TC54-TG1 Transparency exchange API*
- *TC54-TG2 Package URL*
- *TC54-TG3 Common Lifecycle Enumeration*
- *TC54-TG4 OS Sustainability Specification **To be announced soon***

Thank you



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Ecma International has collaboration with other formal SDOs such as ISO, IEC, JTC 1, ITU-T, W3C, OWASP and IETF.

- Liaison relationships:
 - *ISO/IEC JTC 1 (Category A)*
 - Ability to propose Ecma standards as international standards
 - Ecma follows JTC 1 fast-track procedure which accelerates the path to approval and publication of the ISO/IEC standard
 - *ITU-T (A.5)*
 - Enables technical cooperation, exchange of documents and reference to Ecma standards

Ecma International and the Open Compute Project collaboration.

MoU relationships: <https://www.opencompute.org/about/alliance-partners>

- *to collaborate, explore and establishing new global standards in areas needed*

Ordinary



Bloomberg®

Google™



Meta

Associate



ByteDance

Lockheed Martin



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servicenow.



Functional Software



HITACHI
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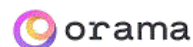
Small and Medium Enterprise



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Bundesverband für digitale Sozialität e.V.

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University

大阪産業大学
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