

# GCVE: Global CVE Allocation System

Enhancing Flexibility, Scalability, Autonomy, and Resilience in Vulnerability Identification

 <https://www.gcve.eu/>

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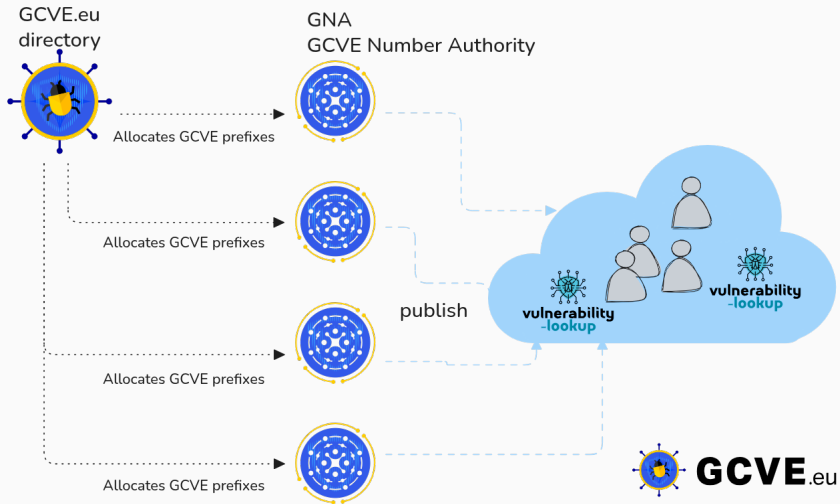
- CIRCL has developed several open-source tools, including MISP and Vulnerability-Lookup<sup>1</sup>, a project designed to manage vulnerabilities—from data collection to publication.
- We identified the need for a **simpler, more autonomous process for allocating vulnerability identifiers**.
- While the existing CNA process (part of the CVE Program) provides structure and consistency, it can be challenging for some publishers due to its procedural requirements.
- A certain level of resilience is essential, independently of geopolitical challenges.

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<sup>1</sup><https://vulnerability-lookup.org>

- The primary role of GCVE is to provide **globally unique identifiers** to GCVE Numbering Authorities (GNAs).
- **GNAs operate autonomously**, with full control over how they assign and manage identifiers.
- **GCVE publishes Best Current Practices (BCPs)** on directory management, Coordinated Vulnerability Disclosure (CVD), and publication protocols.
- GCVE maintains and publishes the **official directory of all GNAs**, including their publication endpoints.

# GCVE.eu - overview



- You are an existing CNA recognized by the CVE Program.
- You are not a CNA, but **meet at least one of the following conditions**:
  - You are a registered CSIRT or CERT listed on FIRST.org, part of the EU CSIRTs Network, or a member of TF-CSIRT.
  - You are a software, hardware, or service provider that regularly discloses vulnerabilities affecting your own products or services, and you have an official CPE vendor name assigned.
  - You have a public vulnerability disclosure policy and maintain a publicly accessible source for newly disclosed vulnerabilities.

- **GCVE-BCP-01**<sup>2</sup> — *Signature Verification of the Directory File*  
**Status:** PUBLISHED (Public Review) **Version:** 1.1  
**Published:** 25 April 2025
- **GCVE-BCP-02** — *Practical Guide to Vulnerability Handling and Disclosure*  
**Status:** DRAFT (Public Review) **Version:** 1.0  
**Published:** 16 May 2025
- **GCVE-BCP-03** — *Decentralized Publication Standard*  
**Status:** DRAFT (Public Review) **Version:** 1.0  
**Published:** 10 June 2025

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<sup>2</sup><https://gcve.eu/bcp/>

- GCVE reserves a set of GNA IDs for existing programs such as GHSA, the CVE Program, and EUVD.
- This approach **ensures compatibility and interoperability with established systems.**
- GCVE acts as a complementary framework that **enables autonomous publication and identifier assignment.**
- GCVE can be viewed as a functional equivalent to IANA for prefix allocation in the vulnerability coordination space.

- GCVE is an open program, GNAs can easily join, and the BCP process is active and open to contributions from the community.
- The publication standard is implemented as a reference in the open-source *vulnerability-lookup*<sup>3</sup> software, but it can be easily integrated into other tools or services.
- Existing **GNAs are already publishing autonomously**, and anyone can freely choose which GNA to retrieve information from.

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<sup>3</sup><https://vulnerability-lookup.org>



# Thank You for Your Attention

- For questions, want to join the initiative or become a GNA, contact: [info@gcve.eu](mailto:info@gcve.eu)



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