



# CYBER ADVISORY

**Cal OES**  
GOVERNOR'S OFFICE  
OF EMERGENCY SERVICES

**CALIFORNIA CYBERSECURITY INTEGRATION CENTER**



CYBER ADVISORY

**TLP: CLEAR**

27 December 2024

## Apache Multiple Vulnerabilities

Apache

MINA

HugeGraph

Traffic Control

The California Cybersecurity Integration Center (Cal-CSIC) has become aware of three new Apache vulnerabilities, two rated critical, and one currently unrated. These vulnerabilities affect various Apache products.<sup>1,2,3,4</sup>

CVE-2024-52046, with a CVSS 4.0 score of 10, affects Apache MINA versions 2.1 – 2.1.9 and 2.2 – 2.2.3. This vulnerability allows attackers to exploit deserialization through specially crafted deserialization data, potentially leading to remote code execution (RCE) attacks.<sup>5</sup>

CVE-2024-43441, with no current CVSS rating, affects Apache HugeGraph-Server versions from 1.0.0 – before 1.5.0. This vulnerability allows for authentication bypass by Assumed-Immutable Data.<sup>6</sup>

CVE-2024-45387, with a current CVSS 3.1 score 9.9 and no current CVSS 4.0 score, affects Traffic Ops in Apache Traffic Control versions 8.0.0 – 8.0.1. This vulnerability allows a privileged user to execute structured query language (SQL) against the database by sending a specially-crafted (PUT) request.<sup>7</sup>

The Cal-CSIC recommends the following actions:

- Upgrade Apache MINA to versions 2.0.27, 2.1.10, and 2.2.4
  - In addition, Apache states users also need to explicitly allow the classes the decoder will accept in the ObjectSerializationDecoder instance, using one of the three methods listed here: [CVE-2024-52046: Apache MINA: MINA applications using unbounded deserialization may allow RCE- Apache Mail Archives](#)<sup>8</sup>
- Upgrade Apache HugeGraph-Server to version 1.5.0
- Upgrade Apache Traffic control to version 8.0.2

CAL-CSIC-202412-006

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For further information on applying upgrades please refer to:

- [CVE-2024-52046: Apache MINA: MINA applications using unbounded deserialization may allow RCE-Apache Mail Archives](#)
- [CVE-2024-43441: Apache HugeGraph-Server: Fixed JWT Token\(Secret\)-Apache Mail Archives](#)
- [CVE-2024-45387: Apache Traffic Control: SQL Injection in Traffic Ops endpoint PUT deliveryservice request comments-Apache Mail Archives](#)

### Organization, Source, Reference, and Dissemination Information

#### Organization Description

California Government Code § 8586.5 established the California Cybersecurity Integration Center (Cal-CSIC) as the central organizing hub of state government's cybersecurity activities, including information sharing, intelligence analysis, incident response, and overarching cybersecurity strategy. The Cal-CSIC is responsible for reducing the likelihood and severity of cyber incidents that could damage California's economy, critical infrastructure, and public or private sector networks in our state.

#### Customer Feedback

If you need further information about this issue, contact the Cal-CSIC at our email address [CalCSIC@caloes.ca.gov](mailto:CalCSIC@caloes.ca.gov) or by telephone at (833) REPORT1. To help us identify ways to better assist you, please submit feedback [calcsic@caloes.ca.gov](mailto:calcsic@caloes.ca.gov).

#### Source Summary Statement

This report was compiled from a variety of sources, predominately open-source reporting.

#### Handling Caveats

**Traffic Light Protocol (TLP):** Recipients may share TLP:CLEAR information with the world; there is no limit on disclosure. Subject to standard copyright rules, TLP:CLEAR information may be shared without restriction.

#### Information Needs

HSEC 1.1; HSEC 1.2; HSEC 1.5; HSEC 1.8; HSEC 1.10; STAC KIQ 1.1; KIQ 1.2; KIQ 1.3; KIQ 1.4; KIQ 1.5

<sup>1</sup> Bleeping Computer; "Apache Warns of Critical Flaws in MINA, HugeGraph, Traffic Control;" <https://www.bleepingcomputer.com/news/security/apache-warns-of-critical-flaws-in-mina-hugegraph-traffic-control/>; accessed 26 December 2024

<sup>2</sup> NIST; "CVE-2024-52046 Detail;" <https://nvd.nist.gov/vuln/detail/CVE-2024-52046>; accessed 26 December 24

<sup>3</sup> NIST; "CVE-2024-43441 Detail;" <https://nvd.nist.gov/vuln/detail/CVE-2024-43441>; accessed 26 December 24

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<sup>4</sup> NIST; "CVE-2024-45387 Detail;" <https://nvd.nist.gov/vuln/detail/CVE-2024-45387>;  
accessed 26 December 24

<sup>5</sup> CVE Program; "CVE-2024-52046;" <https://www.cve.org/CVERecord?id=CVE-2024-52046>; accessed 26 December 24

<sup>6</sup> CVE Program; "CVE-2024-43441;" <https://www.cve.org/CVERecord?id=CVE-2024-43441>; accessed 26 December 24

<sup>7</sup> CVE Program; "CVE-2024-45387;" <https://www.cve.org/CVERecord?id=CVE-2024-45387>; accessed 26 December 24

<sup>8</sup> Apache; "CVE-2024-52046: Apache MINA: MINA applications using unbounded deserialization may allow RCE;"  
<https://lists.apache.org/thread/4wxktgjjpggdbto15d515wdcto1hb0qmv8>; accessed 26 December 24

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