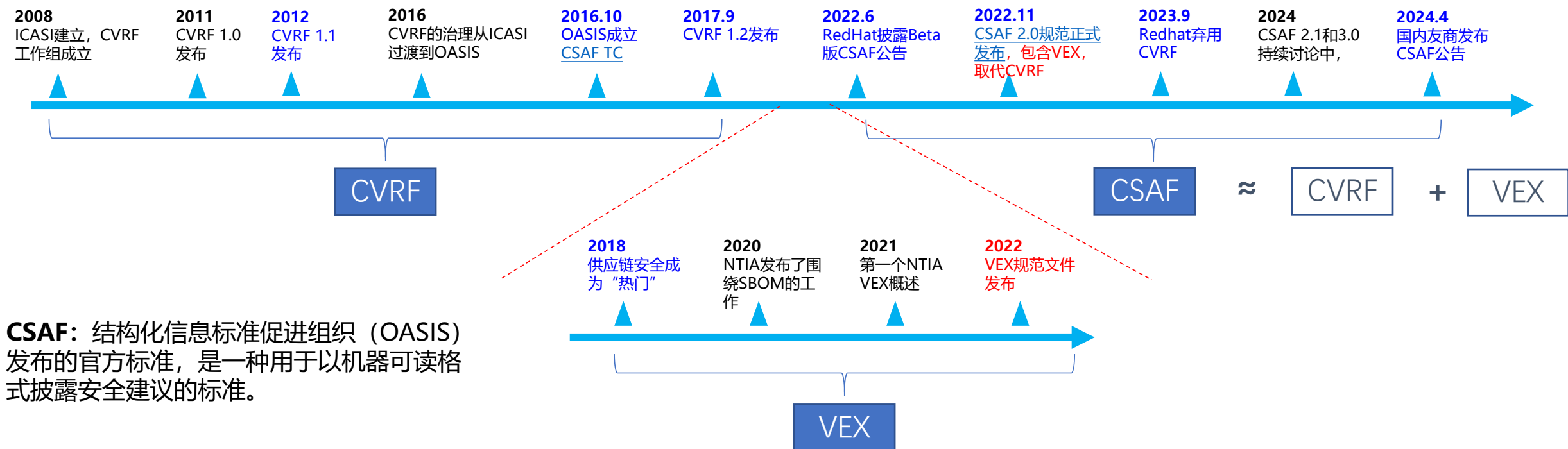


# openEuler支持CSAF格式漏洞公告

openEuler安全委员会

# CSAF标准是CVRF标准的继任者，同时也是VEX标准的具体实现形式之一



## CSAF发展历程:

- CVRF 是发布安全公告SA的行业标准格式, 最早由ICASI 发布, 2011年和2012年分别发布1.0和1.1版本;
- 2016年, CVRF的治理工作由OASIS接管, 在2017年发布1.2版本;
- 2018~2022年, 供应链安全成为“热门”, NTIA主导发布了VEX标准, 作为SBOM的“伴侣制品”;
- 2022年, OASIS正式发布CSAF 2.0规范, 包含VEX的实现, 取代CVRF;
- 2023年9月, Redhat停止发布CVRF格式的安全公告, 用CSAF替代;
- 2024年4月, 国内友商发布CSAF格式安全公告;

CVRF: 通用漏洞报告框架  
CSAF: 通用安全通告框架  
ICASI: 互联网安全促进行业联盟  
OASIS: 结构化信息标准推动组织  
VEX: 漏洞利用交换  
NTIA: 美国国家通信和信息管理局

# 安全公告维度的CSAF

```
"document":{
  "aggregate_severity":{
    "namespace":"https://nvd.nist.gov/vuln-metrics/cvss",
    "text":"Medium"
  },
  "category":"csaf_vex",
  "csaf_version":"2.0",
  "distribution":{ ...
  },
  "lang":"en",
  "notes":[ ...
  ],
  "publisher":{
    "issuing_authority":"openEuler security committee",
    "name":"openEuler",
    "namespace":"https://www.openeuler.org",
    "contact_details":"openeuler-security@openeuler.org",
    "category":"vendor"
  },
  "references":[ ...
  ],
  "title":"An update for uriparser is now available for openEuler-22.03-LTS-SP3",
  "tracking":{
    "initial_release_date":"2024-06-07T09:23:51+08:00",
    "revision_history":[
      {
        "date":"2024-06-07T09:23:51+08:00",
        "summary":"Initial",
        "number":"1.0.0"
      }
    ],
    "generator":{
      "date":"2024-06-07T09:23:51+08:00",
      "engine":{
        "name":"openEuler CSAF Tool V1.0"
      }
    },
    "current_release_date":"2024-06-07T09:23:51+08:00",
    "id":"openEuler-SA-2024-1690",
    "version":"1.0.0",
    "status":"final"
  },
  "product_tree":{ ...
  },
}
```

```
"vulnerabilities":[
  {
    "cve":"CVE-2024-34402",
    "notes":[
      {
        "text":"An issue was discovered in uriparser through 0.9.7. ComposeQueryEngine in UriQuery.c has an integer overflow via long keys or values, with a resultant buffer overflow.",
        "category":"description",
        "title":"Vulnerability Description"
      }
    ],
    "product_status":{
      "fixed":[ ...
      ],
    },
    "remediations":[
      {
        "product_ids":[ ...
        ],
        "details":"uriparser security update",
        "category":"vendor_fix",
        "url":"https://www.openeuler.org/en/security/safety-bulletin/detail.html?id=openEuler-SA-2024-1690"
      }
    ],
    "scores":[
      {
        "cvss_v3":{
          "baseSeverity":"MEDIUM",
          "baseScore":5.5,
          "vectorString":"CVSS:3.1/AV:L/AC:L/PR:N/UI:R/S:U/C:N/I:N/A:H",
          "version":"3.1"
        },
        "products":[ ...
        ],
      }
    ],
    "threats":[
      {
        "details":"Medium",
        "category":"impact"
      }
    ],
    "title":"CVE-2024-34402"
  }
]
```

安全公告维度的CSAF文件是从安全公告维度，对给定的产品构建已修复的漏洞映射。主要分为三部分：

- 1) document：对整个csaf文档的类型、语言、涉及链接、发布历史等概述
- 2) product\_tree:构建本次安全公告中涉及到的产品信息
- 3) vulnerabilities：披露本次安全公告中涉及的各个cve的详情、评分、产品状态、修复说明等

# CVE维度的CSAF

```
"document":{
  "aggregate_severity":{
    "namespace":"https://nvd.nist.gov/vuln-metrics/cvss",
    "text":"MEDIUM"
  },
  "category":"csaf_vex",
  "csaf_version":"2.0",
  "distribution":{ ...
  },
  "lang":"en",
  "notes":[ ...
  ],
  "publisher":{ ...
  },
  "references":[ ...
  ],
  "title":"openEuler cve CVE-2024-34402",
  "tracking":{
    "initial_release_date":"2024-05-10T08:23:50+08:00",
    "revision_history":[
      {
        "date":"2024-05-10T08:23:50+08:00",
        "summary":"Initial",
        "number":"1.0.0"
      },
      {
        "date":"2024-06-07T09:23:51+08:00",
        "summary":"Current version",
        "number":"2.0.0"
      }
    ]
  },
  "generator":{ ...
  },
  "current_release_date":"2024-06-07T09:23:51+08:00",
  "id":"CVE-2024-34402",
  "version":"2.0.0",
  "status":"interim"
},
"product_tree":{ ...
},
"vulnerabilities":[
  {
    "cve":"CVE-2024-34402",
    "notes":[
      {
        "text":"An issue was discovered in uriparser through 0.9.7. ComposeQueryEngine in UriQuery.c has an integer overflow via long keys or values, with a resultant buffer overflow.",
        "category":"description",
        "title":"Vulnerability Description"
      }
    ],
    "product_status":{
      "fixed":{ ...
      }
    },
    "remediations":[
      {
        "product_ids":[ ...
        ],
        "details":"uriparser security update",
        "category":"vendor_fix",
        "url":"https://www.openeuler.org/en/security/safety-bulletin/detail.html?id=openEuler-SA-2024-1534"
      },
      {
        "product_ids":[ ...
        ],
        "details":"uriparser security update",
        "category":"vendor_fix",
        "url":"https://www.openeuler.org/en/security/safety-bulletin/detail.html?id=openEuler-SA-2024-1690"
      }
    ],
    "scores":[
      {
        "cvss_v3":{
          "baseSeverity":"MEDIUM",
          "baseScore":5.5,
          "vectorString":"CVSS:3.1/AV:L/AC:L/PR:N/UI:R/S:U/C:N/I:N/A:H",
          "version":"3.1"
        },
        "products":[ ...
        ]
      }
    ],
    "threats":[
      {
        "details":"Medium",
        "category":"impact"
      }
    ],
    "title":"CVE-2024-34402"
  }
]
```

CVE维度的CSAF文件是从漏洞维度，披露产品影响程度信息和修补信息  
主要分为三部分：

- 1) document：对整个csaf文档的类型、语言、涉及链接、发布历史等概述
- 2) product\_tree:构建该cve涉及到的产品信息
- 3) vulnerabilities：披露该cve详情、评分、产品状态、修复说明等。



# openEuler社区支持CSAF漏洞披露格式

## ①安全公告维度CSAF

针对给定产品构建已修复漏洞的映射归档路径：  
<https://repo.openeuler.org/security/data/csaf/advisories/>

### 示例

2021/

2022/

2023/ 归档年份/

2024/

index.txt 所有文件路径

名称	大小
csaf-openEuler-SA-2024-1624.json	60 KB
csaf-openEuler-SA-2024-1625.json	14 KB
csaf-openEuler-SA-2024-1626.json	21 KB

index.txt - 记事本

文件(F) 编辑(E) 格式(O) 查看(V) 帮助(H)

2024/csaf-openEuler-SA-2024-1624.json

2024/csaf-openEuler-SA-2024-1625.json

2024/csaf-openEuler-SA-2024-1626.json

### 计划:

- 1、从7.5号开始，社区对新增漏洞支持CSAF格式的安全公告；
- 2、在9.30号前补齐历史漏洞的CSAF格式的安全公告；

## ②CVE维度CSAF

包含每个漏洞的产品影响程度信息，可以补充构建给定产品中未修复漏洞的映射归档路径：  
<https://repo.openeuler.org/security/data/csaf/cve/>

### 示例

2021/

2022/

2023/ 归档年份/

2024/

index.txt 所有文件路径

名称	大小
csaf-openEuler-CVE-2024-34403.json	54 KB
csaf-openEuler-CVE-2024-34402.json	53 KB

index.txt - 记事本

文件(F) 编辑(E) 格式(O) 查看(V) 帮助(H)

2024/csaf-openEuler-CVE-2024-34402.json

2024/csaf-openEuler-CVE-2024-34403.json

### 计划:

- 1、在11.1号前完成不受影响漏洞及其原因的支持和披露，发布CVE维度的CSAF；

## 决策和建议

➤ 同意openEuler社区支持CSAF格式的漏洞公告;

# THANKS