Stored XSS in Map-card through malicious device name

Moderate **bramkragten** published **GHSA-r584-6283-p7xc** 5 days ago

Package

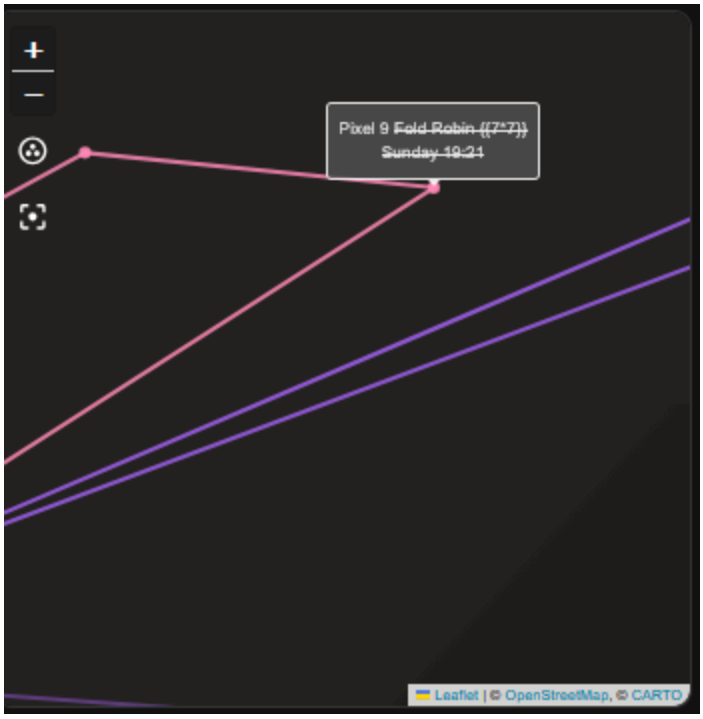
Home Assistant (pip)

Affected versions	Patched versions
2020.02 to 2026.01	2026.01

Description

Summary

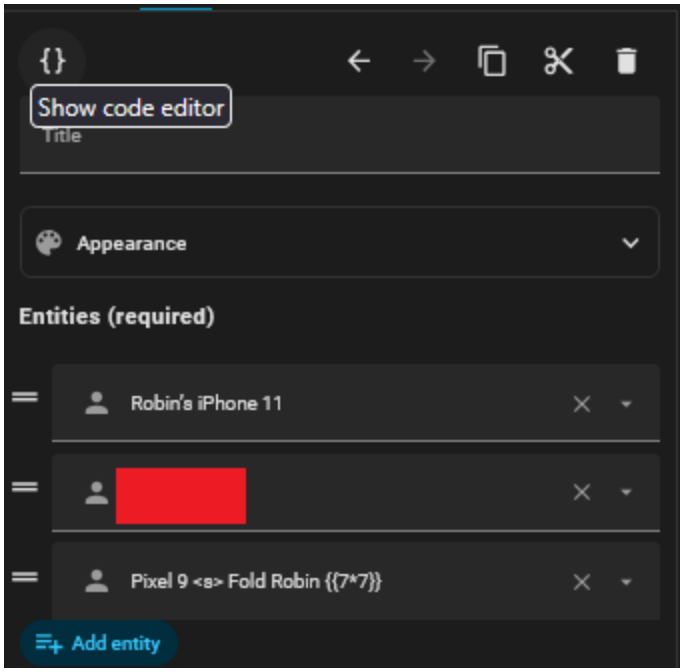
An authenticated party can add a malicious name to their device entity, allowing for Cross-Site Scripting attacks against anyone who can see a dashboard with a Map-card which includes that entity. It requires that the victim hovers over an information point (The lines or the dots representing that device's movement, as shown in the screenshot below, with the example showing a html-injection using `<s>` to strikethrough the text)



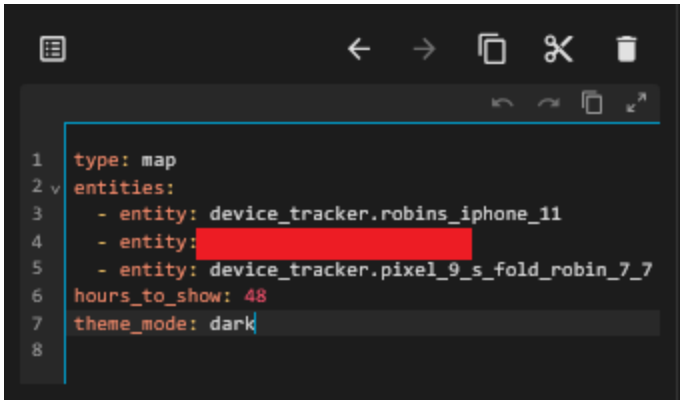
This allows an authenticated user to execute JavaScript in the context of any other users accessing a dashboard.

Details

The vulnerability exists in the map-card by adding a malicious entity and having the property `hours_to_show` set.
See example below, with the malicious entity being `Pixel 9 <s> Fold Robin {{7*7}}`:
Map card with malicious device entity:



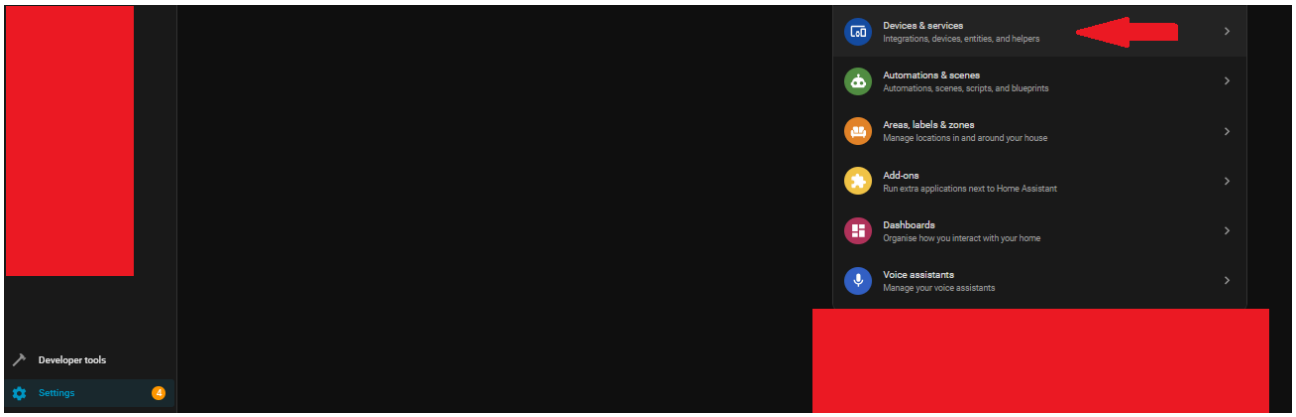
YAML-view of same card:

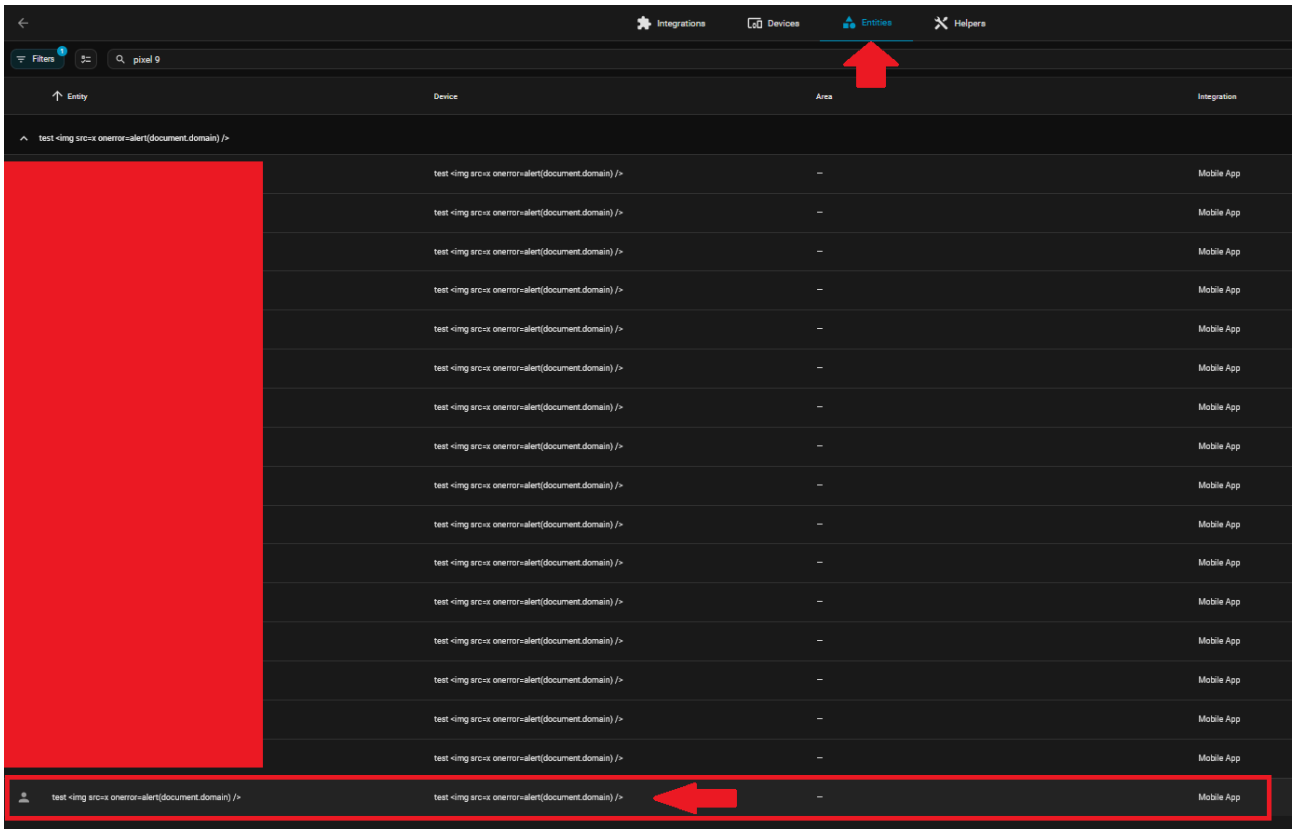


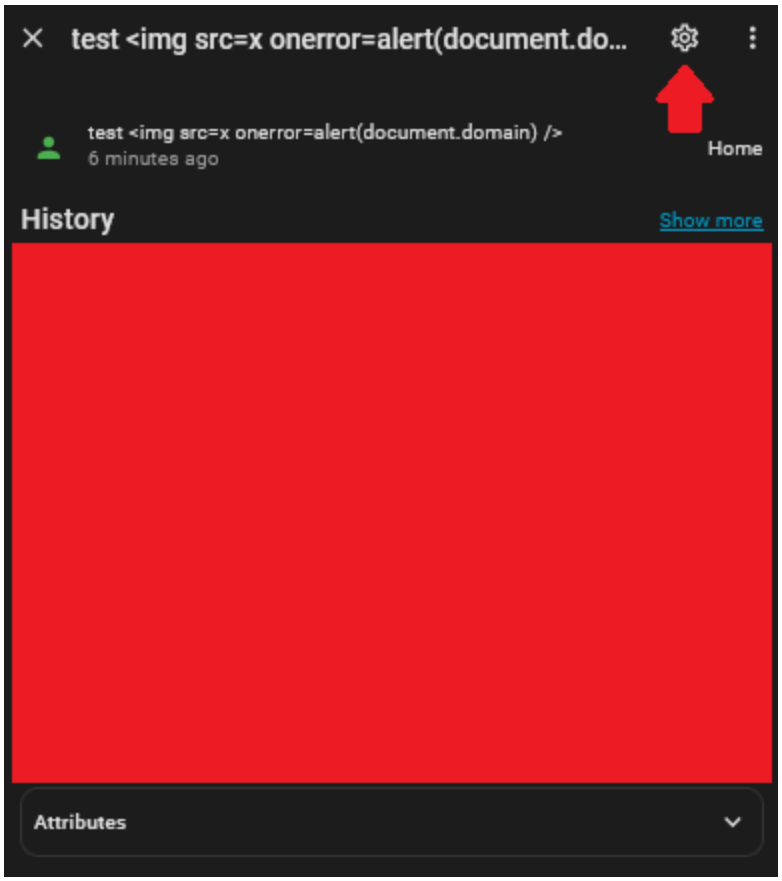
This issue largely resembles the issue documented in: CVE-2025-62172, but with an entity which can be displayed in a Map, instead of in an energy-dashboard.

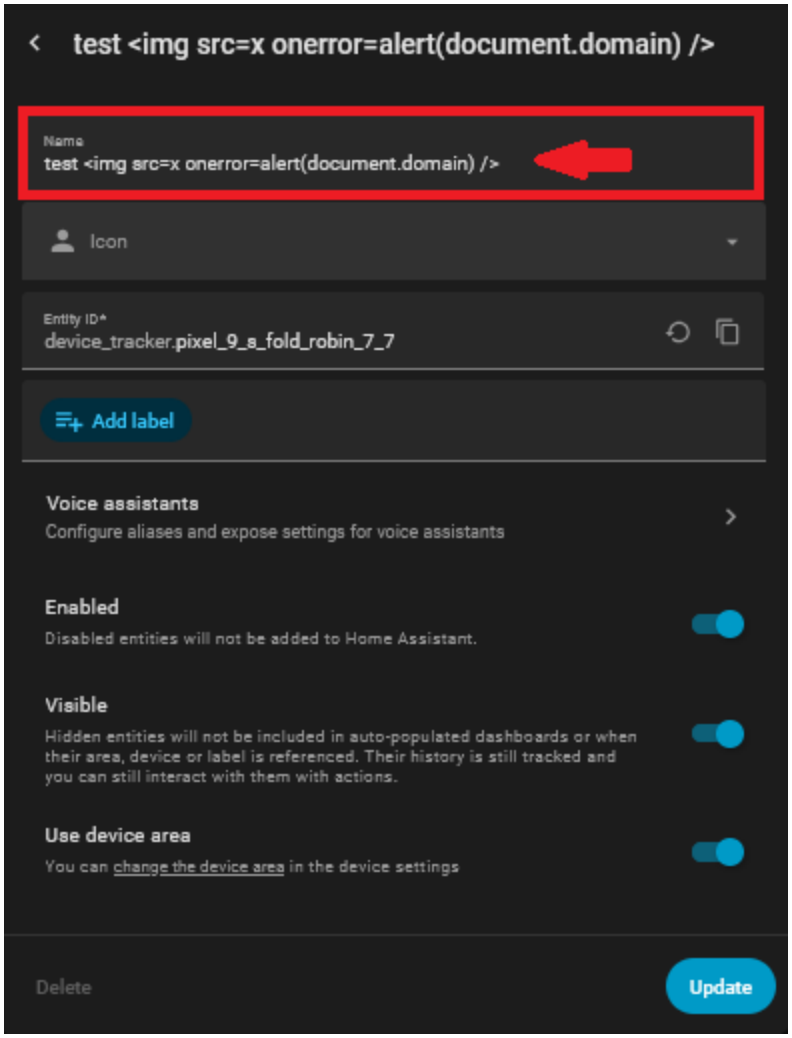
PoC

1. Register a new sensor (or device) or change the name of an existing one, which provides a location
2. Change the name to something malicious, for example `test <img src=x onerror=alert(document.domain) />`
   For a new entity, it should work when setting the name. For old entities, go here:

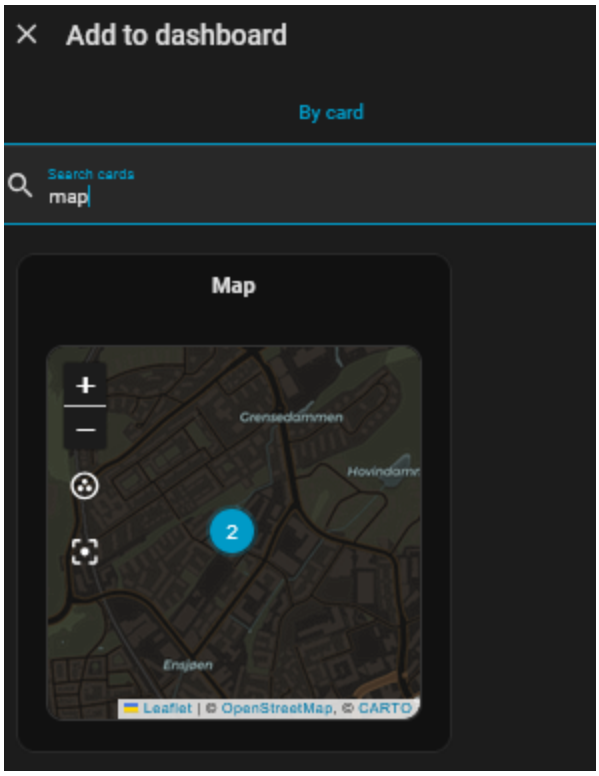

Devices & services
Integrations, devices, entities, and helpers
Automations & scenes
Automations, scenes, scripts, and blueprints
Areas, labels & zones
Manage locations in and around your house
Add-ons
Run extra applications next to Home Assistant
Dashboards
Organise how you interact with your home
Voice assistants
Manage your voice assistants
Developer tools
Settings

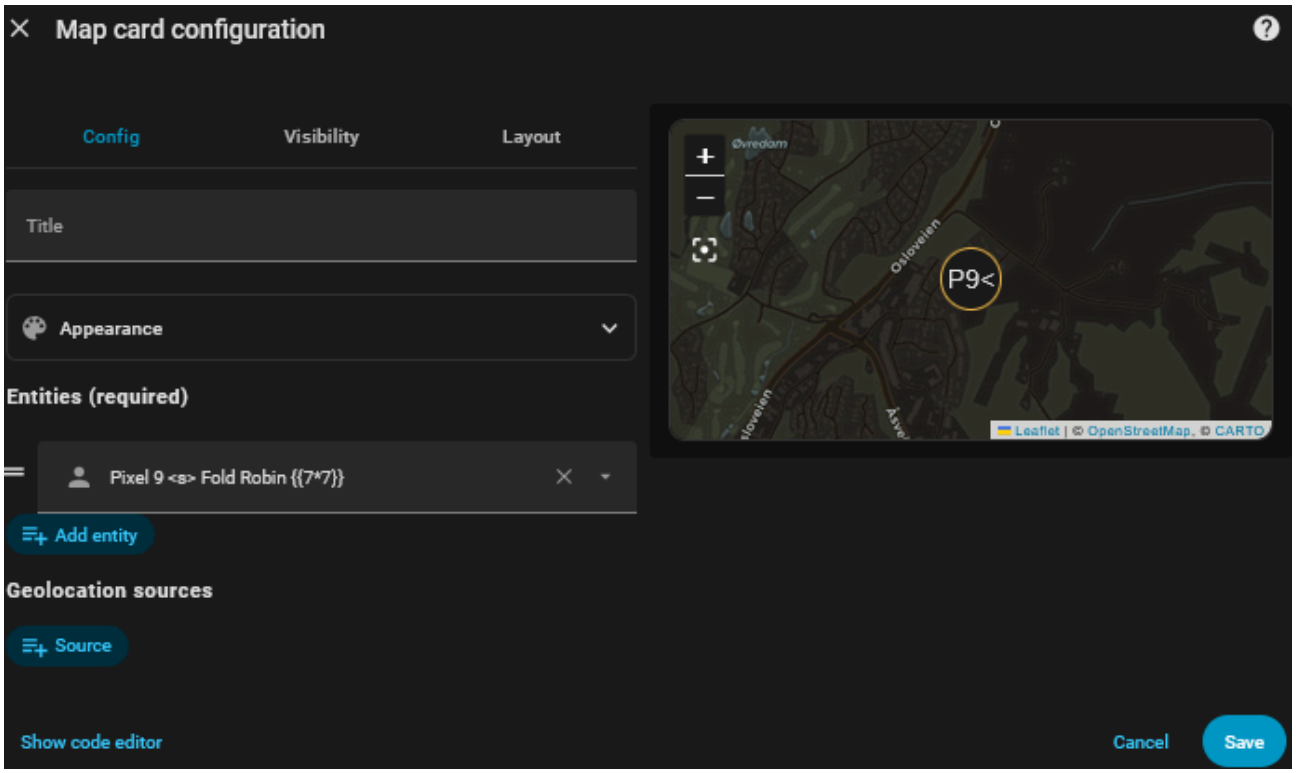

Integrations
Devices
Entities
Helpers
Filters
pixel 9
Entity
Device
Area
Integration
test
Mobile App

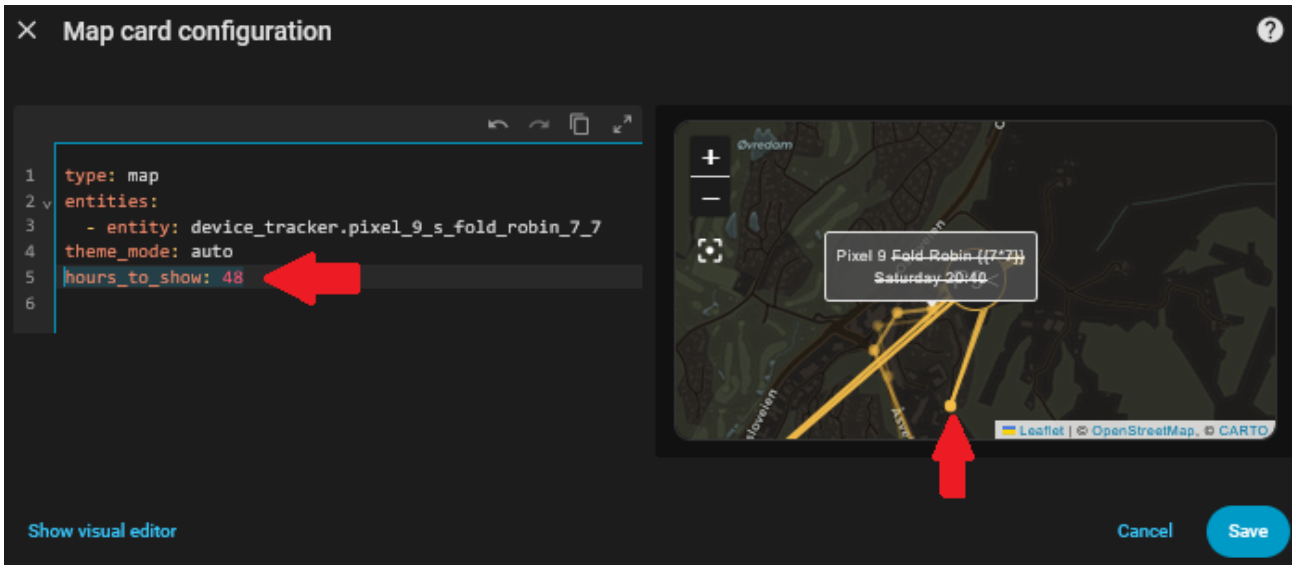

test <img src=x onerror=alert(document.do...
test
6 minutes ago
Home
History
Show more
Attributes


test
Name
test
Icon
Entity ID*
device_tracker.pixel_9_s_fold_robin_7_7
Add label
Voice assistants
Configure aliases and expose settings for voice assistants
Enabled
Disabled entities will not be added to Home Assistant.
Visible
Hidden entities will not be included in auto-populated dashboards or when their area, device or label is referenced. Their history is still tracked and you can still interact with them with actions.
Use device area
You can change the device area in the device settings
Delete
Update

3. Add the entity to a map card, which has the "hours to show"-attribute set, to display movement history

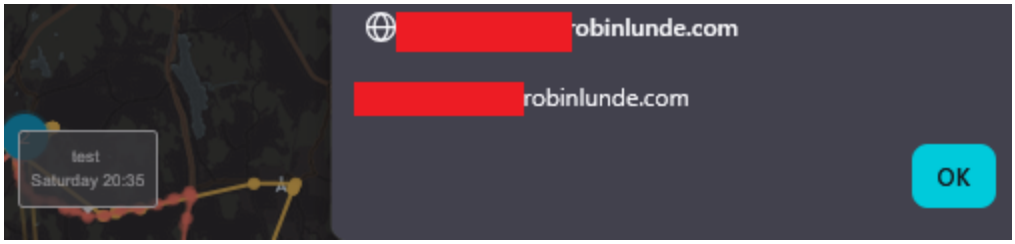






(The left arrow showing the custom setting, and the right arrow showing a data point which needs to be hovered)

4. The payload executes when hovering a data-point (here shown with an "alert(document.domain"-payload)



Impact

The impact of this vulnerability is that a user can target other users of the system and perform account takeover through client side exploitation of XSS.

In the context of this system, I believe the vulnerability to be less impactful than the CVSS metric describes, as it requires a specific setup (map-card with attribute `hours_to_show` set, as this brings up the trail). It is interesting to note that any user who sets this attribute, will be highly likely to trigger the vulnerability through normal use. It also has no potential for being imported through seemingly innocent integrations and can only be set explicitly by another invited user, a device name, a cloud service or through social engineering. Other devices which has the same sensor can trigger the same vulnerability, and I expect there to exists cloud-based devices that would enable a threat actor to deliver the payload remotely.

Suggested CVSS score:
CVSS:4.0/AV:N/AC:L/AT:P/PR:L/UI:A/VC:H/VI:H/VA:H/SC:H/SI:H/SA:H/E:P

Suggested criticality: **Medium**

Credit: Robin Lunde - https://robinlunde.com

Severity

Moderate

CVE ID

CVE-2026-33044

Weaknesses

▶ CWE-80

Credits

 **pwnpanda** Reporter