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# Memory leak in ptp\_unpack\_Sony\_DPD() secondary enumeration list in ptp-pack.c

Low msmeissn published [GHSA-g8xw-p5wj-mrxv](#) 3 days ago

## Package

**libgphoto2**

### Affected versions

&lt;= 2.5.33

### Patched versions

None

## Description

### Summary

A memory leak exists in `ptp_unpack_Sony_DPD()` in `camlibs/ptp2/ptp-pack.c` (lines 884–885). When processing a secondary enumeration list (introduced in 2024+ Sony cameras), the function overwrites `dpd->FORM.Enum.SupportedValue` with a new `calloc()` without freeing the previous allocation from line 857. The original array and any string values it contains are leaked on every property descriptor parse.

Tested against commit [dc49f1b](#).

### Technical Details

File: `camlibs/ptp2/ptp-pack.c`, lines 884–885

First allocation (line 857) never freed:

```
dpd->FORM.Enum.SupportedValue = calloc(N,
sizeof(dpd->FORM.Enum.SupportedValue[0]));
```

Overwrite without free (lines 884–885):

```
N = dtoh16o(data, *poffset);
dpd->FORM.Enum.SupportedValue = calloc(N,
sizeof(dpd->FORM.Enum.SupportedValue[0]));
```

A malicious device can trigger repeated property descriptor responses, causing unbounded heap growth and eventual memory exhaustion in the host process.

## Suggested Fix

```
N = dtoh16o(data, *poffset);
```

- `free(dpd->FORM.Enum.SupportedValue);`
- `dpd->FORM.Enum.SupportedValue = NULL;`  
`dpd->FORM.Enum.SupportedValue = calloc(N,`  
`sizeof(dpd->FORM.Enum.SupportedValue[0]));`

## Impact

Heap memory exhaustion via repeated crafted Sony property descriptor responses. A malicious device can cause the libgphoto2 host process to consume unbounded memory. CWE-401. Independently fixable from all other findings.

### Severity

Low 2.4 / 10

#### CVSS v3 base metrics

Attack vector	Physical
Attack complexity	Low
Privileges required	None
User interaction	None
Scope	Unchanged
Confidentiality	None
Integrity	None
Availability	Low

[Learn more about base metrics](#)

CVSS:3.1/AV:P/AC:L/PR:N/UI:N/S:U/C:N/I:N/A:L

### CVE ID

CVE-2026-40336

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### Weaknesses

▶ CWE-401

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### Credits



**Sebasteuo**

Reporter