

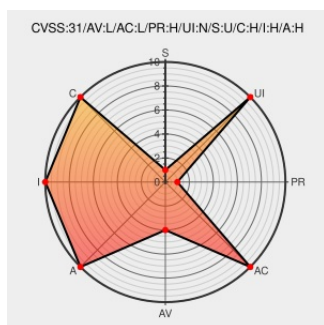


CVE-2022-34406

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CVE-2022-34406

[Source: Mitre](#)[Source: NIST](#)[CVE.ORG](#)[Print: PDF](#)

Certain versions of [C4130](#) from [Dell](#) contain the following vulnerability:

Dell PowerEdge BIOS and Dell Precision BIOS contain an Improper SMM communication buffer verification vulnerability. A local malicious user with high Privileges may potentially exploit this vulnerability to perform arbitrary code execution or cause denial of service.

CVE-2022-34406 has been assigned by [Dell](#) [secure@dell.com](#) to track the vulnerability - currently rated as **MEDIUM** severity.

Affected Vendor/Software: [Dell](#) - **PowerEdge Platform** version = **14G,15G**

CVSS3 Score: **6.7 - MEDIUM**

Attack Vector	Attack Complexity	Privileges Required	User Interaction
LOCAL	LOW	HIGH	NONE
Scope	Confidentiality Impact	Integrity Impact	Availability Impact
UNCHANGED	HIGH	HIGH	HIGH

CVE References

Description	Tags	Link
DSA-2022-204: Dell PowerEdge Improper SMM Communication Buffer Verification Vulnerability Dell US	web.archive.org text/html Inactive Link Not Archived	Dell MISC www.dell.com/support/kbdoc/en-us/000206296/dsa-2022-204-dell-poweredge-improper-smm-communication-buffer-verification-vulnerability

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There are currently no QIDs associated with this CVE

Known Affected Configurations (CPE V2.3)						
Type	Vendor	Product	Version	Update	Edition	Language
Hardware  	Dell	C4130	-	All	All	All
Operating System	Dell	C4130 Firmware	All	All	All	All
Hardware  	Dell	C4140	-	All	All	All
Operating System	Dell	C4140 Firmware	All	All	All	All
Hardware  	Dell	C6320	-	All	All	All
Operating System	Dell	C6320 Firmware	All	All	All	All
Hardware  	Dell	C6420	-	All	All	All
Operating System	Dell	C6420 Firmware	All	All	All	All
Hardware  	Dell	C6520	-	All	All	All
Operating System	Dell	C6520 Firmware	All	All	All	All
Hardware  	Dell	C6525	-	All	All	All
Operating System	Dell	C6525 Firmware	All	All	All	All
Hardware  	Dell	Dss8440	-	All	All	All
Operating System	Dell	Dss8440 Firmware	All	All	All	All
Hardware  	Dell	Fc430	-	All	All	All
Operating System	Dell	Fc430 Firmware	All	All	All	All
Hardware  	Dell	Fc630	-	All	All	All
Operating System	Dell	Fc630 Firmware	All	All	All	All
Hardware  	Dell	Fc640	-	All	All	All
Operating System	Dell	Fc640 Firmware	All	All	All	All
Hardware  	Dell	Fc830	-	All	All	All
Operating System	Dell	Fc830 Firmware	All	All	All	All
Hardware  	Dell	M630	-	All	All	All
Hardware  	Dell	M630p	-	All	All	All
Operating System	Dell	M630p Firmware	All	All	All	All

Operating System	Dell	M630 Firmware	All	All	All	All
Hardware  	Dell	M640	-	All	All	All
Hardware  	Dell	M640p	-	All	All	All
Operating System	Dell	M640p Firmware	All	All	All	All
Operating System	Dell	M640 Firmware	All	All	All	All
Hardware  	Dell	M830	-	All	All	All
Hardware  	Dell	M830p	-	All	All	All
Operating System	Dell	M830p Firmware	All	All	All	All
Operating System	Dell	M830 Firmware	All	All	All	All
Hardware  	Dell	Mx740c	-	All	All	All
Operating System	Dell	Mx740c Firmware	All	All	All	All
Hardware  	Dell	Mx750c	-	All	All	All
Operating System	Dell	Mx750c Firmware	All	All	All	All
Hardware  	Dell	Mx840c	-	All	All	All
Operating System	Dell	Mx840c Firmware	All	All	All	All
Hardware  	Dell	Nx3230	-	All	All	All
Operating System	Dell	Nx3230 Firmware	All	All	All	All
Hardware  	Dell	Nx3240	-	All	All	All
Operating System	Dell	Nx3240 Firmware	All	All	All	All
Hardware  	Dell	Nx3330	-	All	All	All
Operating System	Dell	Nx3330 Firmware	All	All	All	All
Hardware  	Dell	Nx3340	-	All	All	All
Operating System	Dell	Nx3340 Firmware	All	All	All	All
Hardware  	Dell	Nx430	-	All	All	All
Operating System	Dell	Nx430 Firmware	All	All	All	All
Hardware  	Dell	Nx440	-	All	All	All
Operating System	Dell	Nx440 Firmware	All	All	All	All

Operating System	Dell	R4470 Firmware	All	All	All	All
Hardware  	Dell	R230	-	All	All	All
Operating System	Dell	R230 Firmware	All	All	All	All
Hardware  	Dell	R240	-	All	All	All
Operating System	Dell	R240 Firmware	All	All	All	All
Hardware  	Dell	R250	-	All	All	All
Operating System	Dell	R250 Firmware	All	All	All	All
Hardware  	Dell	R330	-	All	All	All
Operating System	Dell	R330 Firmware	All	All	All	All
Hardware  	Dell	R340	-	All	All	All
Operating System	Dell	R340 Firmware	All	All	All	All
Hardware  	Dell	R350	-	All	All	All
Operating System	Dell	R350 Firmware	All	All	All	All
Hardware  	Dell	R430	-	All	All	All
Operating System	Dell	R430 Firmware	All	All	All	All
Hardware  	Dell	R440	-	All	All	All
Operating System	Dell	R440 Firmware	All	All	All	All
Hardware  	Dell	R450	-	All	All	All
Operating System	Dell	R450 Firmware	All	All	All	All
Hardware  	Dell	R530	-	All	All	All
Operating System	Dell	R530 Firmware	All	All	All	All
Hardware  	Dell	R540	-	All	All	All
Operating System	Dell	R540 Firmware	All	All	All	All
Hardware  	Dell	R550	-	All	All	All
Operating System	Dell	R550 Firmware	All	All	All	All
Hardware  	Dell	R630	-	All	All	All
Operating System	Dell	R630 Firmware	All	All	All	All

System						
Hardware  	Dell	R640	-	All	All	All
Operating System	Dell	R640 Firmware	All	All	All	All
Hardware  	Dell	R6415	-	All	All	All
Operating System	Dell	R6415 Firmware	All	All	All	All
Hardware  	Dell	R650	-	All	All	All
Hardware  	Dell	R650xs	-	All	All	All
Operating System	Dell	R650xs Firmware	All	All	All	All
Operating System	Dell	R650 Firmware	All	All	All	All
Hardware  	Dell	R6515	-	All	All	All
Operating System	Dell	R6515 Firmware	All	All	All	All
Hardware  	Dell	R6525	-	All	All	All
Operating System	Dell	R6525 Firmware	All	All	All	All
Hardware  	Dell	R730	-	All	All	All
Hardware  	Dell	R730xd	-	All	All	All
Operating System	Dell	R730xd Firmware	All	All	All	All
Operating System	Dell	R730 Firmware	All	All	All	All
Hardware  	Dell	R740	-	All	All	All
Hardware  	Dell	R740xd	-	All	All	All
Hardware  	Dell	R740xd2	-	All	All	All
Operating System	Dell	R740xd2 Firmware	All	All	All	All
Operating System	Dell	R740xd Firmware	All	All	All	All
Operating System	Dell	R740 Firmware	All	All	All	All
Hardware  	Dell	R7415	-	All	All	All
Operating System	Dell	R7415 Firmware	All	All	All	All
Hardware  	Dell	R7425	-	All	All	All
Operating System	Dell	R7425 Firmware	All	All	All	All

Hardware  	Dell	R750	-	All	All	All
Hardware  	Dell	R750xa	-	All	All	All
Operating System	Dell	R750xa Firmware	All	All	All	All
Hardware  	Dell	R750xs	-	All	All	All
Operating System	Dell	R750xs Firmware	All	All	All	All
Operating System	Dell	R750 Firmware	All	All	All	All
Hardware  	Dell	R7515	-	All	All	All
Operating System	Dell	R7515 Firmware	All	All	All	All
Hardware  	Dell	R7525	-	All	All	All
Operating System	Dell	R7525 Firmware	All	All	All	All
Hardware  	Dell	R830	-	All	All	All
Operating System	Dell	R830 Firmware	All	All	All	All
Hardware  	Dell	R840	-	All	All	All
Operating System	Dell	R840 Firmware	All	All	All	All
Hardware  	Dell	R930	-	All	All	All
Operating System	Dell	R930 Firmware	All	All	All	All
Hardware  	Dell	R940	-	All	All	All
Hardware  	Dell	R940xa	-	All	All	All
Operating System	Dell	R940xa Firmware	All	All	All	All
Operating System	Dell	R940 Firmware	All	All	All	All
Hardware  	Dell	T130	-	All	All	All
Operating System	Dell	T130 Firmware	All	All	All	All
Hardware  	Dell	T140	-	All	All	All
Operating System	Dell	T140 Firmware	All	All	All	All
Hardware  	Dell	T150	-	All	All	All
Operating System	Dell	T150 Firmware	All	All	All	All
Hardware  	Dell	T330	-	All	All	All

						
Operating System	Dell	T330 Firmware	All	All	All	All
Hardware 	Dell	T340	-	All	All	All
Operating System	Dell	T340 Firmware	All	All	All	All
Hardware 	Dell	T350	-	All	All	All
Operating System	Dell	T350 Firmware	All	All	All	All
Hardware 	Dell	T430	-	All	All	All
Operating System	Dell	T430 Firmware	All	All	All	All
Hardware 	Dell	T440	-	All	All	All
Operating System	Dell	T440 Firmware	All	All	All	All
Hardware 	Dell	T550	-	All	All	All
Operating System	Dell	T550 Firmware	All	All	All	All
Hardware 	Dell	T630	-	All	All	All
Operating System	Dell	T630 Firmware	All	All	All	All
Hardware 	Dell	T640	-	All	All	All
Operating System	Dell	T640 Firmware	All	All	All	All
Hardware 	Dell	Xe2420	-	All	All	All
Operating System	Dell	Xe2420 Firmware	All	All	All	All
Hardware 	Dell	Xe7420	-	All	All	All
Operating System	Dell	Xe7420 Firmware	All	All	All	All
Hardware 	Dell	Xe7440	-	All	All	All
Operating System	Dell	Xe7440 Firmware	All	All	All	All
Hardware 	Dell	Xe8545	-	All	All	All
Operating System	Dell	Xe8545 Firmware	All	All	All	All
Hardware 	Dell	Xr11	-	All	All	All
Operating System	Dell	Xr11 Firmware	All	All	All	All
Hardware 	Dell	Xr12	-	All	All	All

Operating System	Dell	Xr12 Firmware	All	All	All	All
Hardware 	Dell	Xr2	-	All	All	All
Operating System	Dell	Xr2 Firmware	All	All	All	All
cpe:2.3:h:dell:c4130:-:~::~~::~~::~~::~~::~~::~~:::						
cpe:2.3:o:dell:c4130_firmware:~::~~::~~::~~::~~::~~::~~:::						
cpe:2.3:h:dell:c4140:-:~::~~::~~::~~::~~::~~::~~:::						
cpe:2.3:o:dell:c4140_firmware:~::~~::~~::~~::~~::~~::~~:::						
cpe:2.3:h:dell:c6320:-:~::~~::~~::~~::~~::~~::~~:::						
cpe:2.3:o:dell:c6320_firmware:~::~~::~~::~~::~~::~~::~~:::						
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cpe:2.3:o:dell:c6420_firmware:~::~~::~~::~~::~~::~~::~~:::						
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cpe:2.3:o:dell:c6520_firmware:~::~~::~~::~~::~~::~~::~~:::						
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cpe:2.3:o:dell:c6525_firmware:~::~~::~~::~~::~~::~~::~~:::						
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cpe:2.3:o:dell:fc430_firmware:~::~~::~~::~~::~~::~~::~~:::						
cpe:2.3:h:dell:fc630:-:~::~~::~~::~~::~~::~~::~~:::						
cpe:2.3:o:dell:fc630_firmware:~::~~::~~::~~::~~::~~::~~:::						
cpe:2.3:h:dell:fc640:-:~::~~::~~::~~::~~::~~::~~:::						
cpe:2.3:o:dell:fc640_firmware:~::~~::~~::~~::~~::~~::~~:::						
cpe:2.3:h:dell:fc830:-:~::~~::~~::~~::~~::~~::~~:::						
cpe:2.3:o:dell:fc830_firmware:~::~~::~~::~~::~~::~~::~~:::						
cpe:2.3:h:dell:m630:-:~::~~::~~::~~::~~::~~::~~:::						
cpe:2.3:h:dell:m630p:-:~::~~::~~::~~::~~::~~::~~:::						
cpe:2.3:o:dell:m630p_firmware:~::~~::~~::~~::~~::~~::~~:::						

cpe:2.3:o:dell:m630_firmware:*****:
cpe:2.3:h:dell:m640:-:*****:
cpe:2.3:h:dell:m640p:-:*****:
cpe:2.3:o:dell:m640p_firmware:*****:
cpe:2.3:o:dell:m640_firmware:*****:
cpe:2.3:h:dell:m830:-:*****:
cpe:2.3:h:dell:m830p:-:*****:
cpe:2.3:o:dell:m830p_firmware:*****:
cpe:2.3:o:dell:m830_firmware:*****:
cpe:2.3:h:dell:mx740c:-:*****:
cpe:2.3:o:dell:mx740c_firmware:*****:
cpe:2.3:h:dell:mx750c:-:*****:
cpe:2.3:o:dell:mx750c_firmware:*****:
cpe:2.3:h:dell:mx840c:-:*****:
cpe:2.3:o:dell:mx840c_firmware:*****:
cpe:2.3:h:dell:nx3230:-:*****:
cpe:2.3:o:dell:nx3230_firmware:*****:
cpe:2.3:h:dell:nx3240:-:*****:
cpe:2.3:o:dell:nx3240_firmware:*****:
cpe:2.3:h:dell:nx3330:-:*****:
cpe:2.3:o:dell:nx3330_firmware:*****:
cpe:2.3:h:dell:nx3340:-:*****:
cpe:2.3:o:dell:nx3340_firmware:*****:
cpe:2.3:h:dell:nx430:-:*****:
cpe:2.3:o:dell:nx430_firmware:*****:
cpe:2.3:h:dell:nx440:-:*****:
cpe:2.3:o:dell:nx440_firmware:*****:
cpe:2.3:h:dell:r230:-:*****:
cpe:2.3:o:dell:r230_firmware:*****:

cpe:2.3:o:dell:r200_firmware:~::~:
cpe:2.3:h:dell:r240:~::~:
cpe:2.3:o:dell:r240_firmware:~::~:
cpe:2.3:h:dell:r250:~::~:
cpe:2.3:o:dell:r250_firmware:~::~:
cpe:2.3:h:dell:r330:~::~:
cpe:2.3:o:dell:r330_firmware:~::~:
cpe:2.3:h:dell:r340:~::~:
cpe:2.3:o:dell:r340_firmware:~::~:
cpe:2.3:h:dell:r350:~::~:
cpe:2.3:o:dell:r350_firmware:~::~:
cpe:2.3:h:dell:r430:~::~:
cpe:2.3:o:dell:r430_firmware:~::~:
cpe:2.3:h:dell:r440:~::~:
cpe:2.3:o:dell:r440_firmware:~::~:
cpe:2.3:h:dell:r450:~::~:
cpe:2.3:o:dell:r450_firmware:~::~:
cpe:2.3:h:dell:r530:~::~:
cpe:2.3:o:dell:r530_firmware:~::~:
cpe:2.3:h:dell:r540:~::~:
cpe:2.3:o:dell:r540_firmware:~::~:
cpe:2.3:h:dell:r550:~::~:
cpe:2.3:o:dell:r550_firmware:~::~:
cpe:2.3:h:dell:r630:~::~:
cpe:2.3:o:dell:r630_firmware:~::~:
cpe:2.3:h:dell:r640:~::~:
cpe:2.3:o:dell:r640_firmware:~::~:
cpe:2.3:h:dell:r6415:~::~:
cpe:2.3:o:dell:r6415_firmware:~::~:

cpe:2.3:h:dell:r650:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:h:dell:r650xs:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:o:dell:r650xs_firmware:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:o:dell:r650_firmware:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:h:dell:r6515:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:o:dell:r6515_firmware:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:h:dell:r6525:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:o:dell:r6525_firmware:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:h:dell:r730:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:h:dell:r730xd:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:o:dell:r730xd_firmware:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:o:dell:r730_firmware:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:h:dell:r740:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:h:dell:r740xd:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:h:dell:r740xd2:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:o:dell:r740xd2_firmware:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:o:dell:r740xd_firmware:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:o:dell:r740_firmware:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:h:dell:r7415:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:o:dell:r7415_firmware:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:h:dell:r7425:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:o:dell:r7425_firmware:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:h:dell:r750:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:h:dell:r750xa:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:o:dell:r750xa_firmware:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:h:dell:r750xs:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:o:dell:r750xs_firmware:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:o:dell:r750_firmware:~::~~::~~::~~::~~::~~::~~:::

```
cpe:2.3:h:dell:r7515:-:*:*:*:*:*:
```

```
cpe:2.3:o:dell:r7515_firmware:*.:.:.:.:.:.:.:
```

```
cpe:2.3:h:dell:r7525:-:*:*:*:*:*:*:
```

```
cpe:2.3:o:dell:r7525_firmware:*:*:*:*:*:*:
```

```
cpe:2.3:h:dell:r830:-:*:*:*:*:*:*:
```

```
cpe:2.3:o:dell:r830_firmware:*.:.:.:.:.:.:.:
```

```
cpe:2.3:h:dell:r840:-:*:*:*:*:*:*:
```

```
cpe:2.3:o:dell:r840_firmware:*:*:*:*:*:*:*:
```

```
cpe:2.3:h:dell:r930:-:*:*:*:*:*:*:
```

```
cpe:2.3:o:dell:r930_firmware:*.:.:.:.:.:.:.:
```

```
cpe:2.3:h:dell:r940:-:*:*:*:*:*:
```

```
cpe:2.3:h:dell:r940xa:-:*:*:*:*:*:
```

```
cpe:2.3:o:dell:r940xa_firmware:*.*.*.*.*.*.*.*
```

```
cpe:2.3:o:dell:r940_firmware:*.:.:.:.:.:.:.:
```

```
cpe:2.3:h:dell:t130:-:*:*:*:*:*:*:
```

```
cpe:2.3:o:dell:t130 firmware:*.~*~*~*~*~*~*~*
```

```
cpe:2.3:h:dell:t140:-:*:*:*:*:*:*:
```

```
cpe:2.3:o:dell:t140_firmware:*:*:*:*:*:*:
```

```
cpe:2.3:h:dell:t150:-:*:*:*:*:*:
```

```
cpe:2.3:o:dell:t150_firmware:*.:*:*:*:*:*:
```

```
cpe:2.3:h:dell:t330:-:*:*:*:*:*:
```

```
cpe:2.3:o:dell:t330_firmware:*.*.*.*.*.*.*.*
```

```
cpe:2.3:h:dell:t340:-:*:*:*:*:*:*:
```

```
cpe:2.3:o:dell:t340_firmware:*:*:*:*:*:*:
```

```
cpe:2.3:h:dell:t350:-:*:*:*:*:*:
```

```
cpe:2.3:o:dell:t350 firmware:*.~*~*~*~*~*~*~*~*~*
```

```
cpe:2.3:h:dell:t430:-:*:*:*:*:*:
```

```
cpe:2.3:o:dell:t430_firmware:*:*:*:*:*:*:
```

```
cpe:2.3:h:dell:t440:-:*:*:*:*:*:*:
```

cpe:2.3:o:dell:t440_firmware:*****:
cpe:2.3:h:dell:t550:-:*****:
cpe:2.3:o:dell:t550_firmware:*****:
cpe:2.3:h:dell:t630:-:*****:
cpe:2.3:o:dell:t630_firmware:*****:
cpe:2.3:h:dell:t640:-:*****:
cpe:2.3:o:dell:t640_firmware:*****:
cpe:2.3:h:dell:xe2420:-:*****:
cpe:2.3:o:dell:xe2420_firmware:*****:
cpe:2.3:h:dell:xe7420:-:*****:
cpe:2.3:o:dell:xe7420_firmware:*****:
cpe:2.3:h:dell:xe7440:-:*****:
cpe:2.3:o:dell:xe7440_firmware:*****:
cpe:2.3:h:dell:xe8545:-:*****:
cpe:2.3:o:dell:xe8545_firmware:*****:
cpe:2.3:h:dell:xr11:-:*****:
cpe:2.3:o:dell:xr11_firmware:*****:
cpe:2.3:h:dell:xr12:-:*****:
cpe:2.3:o:dell:xr12_firmware:*****:
cpe:2.3:h:dell:xr2:-:*****:
cpe:2.3:o:dell:xr2_firmware:*****:

No vendor comments have been submitted for this CVE

Social Mentions		
Source	Title	Posted (UTC)
 @CVEreport	CVE-2022-34406 : Dell PowerEdge BIOS and Dell Precision BIOS contain an Improper SMM communication buffer verificat... twitter.com/i/web/status/1...	2023-03-16 12:02:24
 /r/netcve	CVE-2022-34406	2023-03-16 12:38:41

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