

Unauthenticated information leak in Bosch IP cameras

BOSCH-SA-659648-BT

Advisory Information

Advisory ID: BOSCH-SA-659648-BT

CVE Numbers and CVSS v3.1 Scores:

[CVE-2022-98765](#)

Base Score: [7.5 \(High\)](#)

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Summary

A vulnerability was discovered in internal testing of Bosch IP cameras of families CPP13 and CPP14, that allows an unauthenticated attacker to retrieve video analytics event data. No video data is leaked through this vulnerability.

Affected Products

Bosch Camera Firmware on: CPP13

CVE-2022-98765

Version(s): <= 8.91

Bosch Camera Firmware on: CPP14

CVE-2022-98765

Version(s): <= 9.10

Solution and Mitigations

Software Updates

The recommended approach is to update the affected Bosch firmware to a fixed version. If an update is not possible in a timely manner, users are recommended to follow the mitigations and workarounds described in the following section. The versions to fix this issue are listed in the Advisory Appendix.

A reboot of the camera is required after uploading the update.

The version of the firmware should be checked after the update to confirm successful installation e.g. in the web based interface (Services - System Overview)

Firewalling

Disallowing connections from insecure networks to the camera by means of a firewall prevents the attacker from accessing the information.

IP Filtering

The camera has the possibility to whitelist networks or IP addresses to only allow access from trusted networks or IPs, preventing an attacker from accessing the information.

Vulnerability Details

CVE-2022-98765

CVE description: A missing authentication check in Bosch IP cameras of families CPP13 and CPP14 allows an unauthenticated attacker to retrieve video analytics event data.

Problem Type:

[CWE-284 Improper Access Control](#)

CVSS Vector String: [CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:H/I:N/A:N](#)

Base Score: 7.5 (High)

Remarks

Security Update Information

With respect to Directive (EU) 2019/770 and Directive (EU) 2019/771 and their national transposition laws, please note:

It is your responsibility to download and/or install any security updates provided by us, for example to maintain product or data security. If you fail to install a security update provided to you within a reasonable period of time, we will not be liable for any product defect solely due to the absence of such security update.

Alternatively, we are entitled to directly download and/or install security updates regardless of your settings. In these cases, we will provide you with the relevant information, e.g. in this security advisory.

CVSS Scoring

Vulnerability classification has been performed using the [CVSS v3.1 scoring system](#) . The CVSS environmental score is specific to each customer's environment and should be defined by the customer to attain a final scoring.

Additional Resources

[1] Firmware Download Area: <https://downloadstore.boschsecurity.com/index.php?type=FW>

Please contact the Bosch PSIRT if you have feedback, comments, or additional information about this vulnerability at: psirt@bosch.com .

Revision History

Appendix

Fixed Versions

Camera Family	Version to fix this issue
CPP13	8.92.0048
CPP14	9.11.0009

[Firmware Download](#)

Material Lists

Bosch IP camera CPP13

Family Name	CTN	SAP#
AUTODOME inteox 7000i – 2 MP	NDP-7602-Z30	F.01U.381.159
	NDP-7602-Z30CT	F.01U.381.160
	NDP-7602-Z30K	F.01U.381.162
	NDP-7602-Z30-OC	F.01U.382.880
AUTODOME 7000i	NDP-7602-Z40	F.01U.389.322
		F.01U.394.938

Family Name	CTN	SAP#
AUTODOME 7100i IR - 2MP	NDP-7602-Z40L	F.01U.389.324 F.01U.394.936
AUTODOME 7100i IR - 8MP	NDP-7604-Z12L	F.01U.389.326 F.01U.394.918
DINION inteox 7100i IR	NBE-7604-AL NBE-7604-AL-OC	F.01U.394.676 F.01U.386.377
FLEXIDOME inteox 7100i IR	NDE-7604-AL NDE-7604-AL-OC	F.01U.394.577 F.01U.386.375
MIC inteox 7100i - 2MP	MIC-7602-Z30B MIC-7602-Z30BR MIC-7602-Z30W MIC-7602-Z30WR MIC-7602-Z30G MIC-7602-Z30GR	F.01U.382.403 F.01U.381.145 F.01U.382.404 F.01U.381.146 F.01U.382.405 F.01U.381.147
MIC inteox 7100i - 2MP OC	MIC-7602-Z30BR-OC MIC-7602-Z30WR-OC MIC-7602-Z30GR-OC	F.01U.382.397 F.01U.382.398 F.01U.382.399
MIC inteox 7100i – 8MP	MIC-7604-Z12BR MIC-7604-Z12WR MIC-7604-Z12GR	F.01U.381.148 F.01U.381.149 F.01U.381.150
MIC inteox 7100i – 8MP OC	MIC-7604-Z12BR-OC MIC-7604-Z12WR-OC MIC-7604-Z12GR-OC	F.01U.382.400 F.01U.382.401 F.01U.382.402

Bosch IP camera CPP14

Family Name	CTN	SAP#
FLEXIDOME indoor 5100i	NDV-5702-A	F.01U.394.427
	NDV-5703-A	F.01U.394.429
	NDV-5704-A	F.01U.394.454
FLEXIDOME indoor 5100i IR	NDV-5702-AL	F.01U.394.428
	NDV-5703-AL	F.01U.394.430
	NDV-5704-AL	F.01U.394.455
FLEXIDOME outdoor 5100i	NDE-5702-A	F.01U.394.558
	NDE-5703-A	F.01U.394.560
	NDE-5704-A	F.01U.394.562
FLEXIDOME outdoor 5100i IR	NDE-5702-AL	F.01U.394.559
	NDE-5703-AL	F.01U.394.561
	NDE-5704-AL	F.01U.394.563
FLEXIDOME panoramic 5100i	NDS-5703-F360	F.01U.385.628
	NDS-5704-F360	F.01U.385.629
FLEXIDOME panoramic 5100i IR	NDS-5703-F360LE	F.01U.385.630
	NDS-5704-F360LE	F.01U.385.631
FLEXIDOME multi 7000i	NDM-7702-A	F.01U.389.262
	NDM-7703-A	F.01U.389.263

Family Name	CTN	SAP#
FLEXIDOME multi 7000i IR	NDM-7702-AL	F.01U.389.264
	NDM-7703-AL	F.01U.389.265
DINION 7100i IR	NBE-7702-ALX	F.01U.390.686
	NBE-7703-ALX	F.01U.390.688
	NBE-7704-ALT	F.01U.390.691
	NBE-7704-ALX	F.01U.390.692
	NBE-7703-ALXT	F.01U.390.689
	NBE-7702-ALXT	F.01U.390.687
	NBE-7704-AL	F.01U.390.690
FLEXIDOME corner 7100i IR	NCE-7703-FK	F.01U.407.683
FLEXIDOME indoor 3100i	NDI-3702-A	F.01U.406.608
	NDI-3703-A	F.01U.406.610
FLEXIDOME indoor 3100i IR	NDI-3702-AL	F.01U.406.607
	NDI-3703-AL	F.01U.406.609
FLEXIDOME outdoor 3100i IR	NDE-3703-AL	F.01U.406.612
	NDE-3702-AL	F.01U.406.611
FLEXIDOME micro 3100i indoor	NUV-3702-F02	F.01U.408.377
	NUV-3702-F04	F.01U.408.378
	NUV-3702-F06	F.01U.408.379
	NUV-3703-F02	F.01U.408.380
	NUV-3703-F04	F.01U.408.381
	NUV-3703-F06	F.01U.408.383
	NUV-3702-F04H	F.01U.408.398
	NUV-3703-F02H	F.01U.408.399

Family Name	CTN	SAP#
FLEXIDOME micro 3100i outdoor	NUE-3702-F02	F.01U.408.367
	NUE-3702-F04	F.01U.408.370
	NUE-3702-F06	F.01U.408.372
	NUE-3703-F02	F.01U.408.373
	NUE-3703-F04	F.01U.408.374
	NUE-3703-F06	F.01U.408.375
DINION 3100i IR	NBE-3703-AL	F.01U.414.800
	NBE-3702-AL	F.01U.414.799
DINION 5100i IR	NBE-5702-AL	F.01U.393.997
	NBE-5703-AL	F.01U.393.998
	NBE-5704-AL	F.01U.393.999
AVIOTEC 8000i IR	FCS-8000-VFD-I	F.01U.406.348