CVE-2017-10723

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CVE-2017-10723

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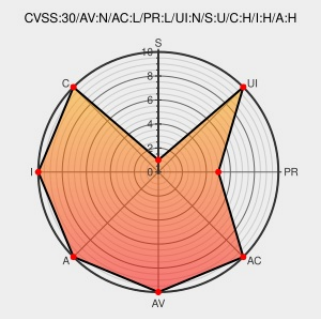

Certain versions of Endoscope Camera from Ishekar contain the following vulnerability:

Recently it was discovered as a part of the research on IoT devices in the most recent firmware for Shekar Endoscope that an attacker connected to the device Wi-Fi SSID can exploit a memory corruption issue and execute remote code on the device. This device acts as an Endoscope camera that allows its users to use it in various industrial systems and settings, car garages, and also in some cases in the medical clinics to get access to areas that are difficult for a human being to reach. Any breach of this system can allow an attacker to get access to video feed and pictures viewed by that user and might allow them to get a foot hold in air gapped networks especially in case of nation critical infrastructure/industries. The firmware contains binary uvc_stream that is the UDP daemon which is responsible for handling all the UDP requests that the device receives. The client application sends a UDP request to change the Wi-Fi name which contains the following format: "SETCMD0001+0001+[2 byte length of wifiname]+[Wifiname]. This request is handled by "control_Dev_thread" function which at address "0x00409AE0" compares the incoming request and determines if the 10th byte is 01 and if it is then it redirects to 0x0040A74C which calls the function "setwifiname". The function "setwifiname" uses a memcpy function but uses the length of the payload obtained by using strlen function as the third parameter which is the number of bytes to copy and this allows an attacker to overflow the function and control the $PC value.

CVE-2017-10723 has been assigned by cve@mitre.org to track the vulnerability - currently rated as HIGH severity.

CVSS3 Score: 8.8 - HIGH

Attack Vector	Attack Complexity	Privileges Required	User Interaction
NETWORK	LOW	LOW	NONE
Scope	**Confidentiality Impact**	**Integrity Impact**	**Availability Impact**

UNCHANGED HIGH HIGH HIGH

CVSS2 Score: 6.5 - MEDIUM

Access Vector	Access Complexity	Authentication
NETWORK	LOW	SINGLE
Confidentiality Impact	**Integrity Impact**	**Availability Impact**
PARTIAL	PARTIAL	PARTIAL

CVE References

Description	Tags	Link
IoT_vulnerabilities/Shekar_boriscope_sec_issues.pdf at master · ethanhunnt/IoT_vulnerabilities · GitHub	Exploit, Third Party Advisory, github.com, text/html	MISC github.com/ethanhunnt/IoT_vulnerabilities/blob/master/Shek
Shekar Endoscope Weak Default Settings / Memory Corruption ≈ Packet Storm	Third Party Advisory, VDB Entry, packetstormsecurity.com, text/html	MISC packetstormsecurity.com/files/153241/Shekar-End Settings-Memory-Corruption.html
Bugtraq: Newly releases IoT security issues	Mailing List, Third Party Advisory, seclists.org, text/html	BUGTRAQ 20190609 Newly releases IoT security issues

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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	Ishekar	Endoscope Camera	-	All	All	All
Hardware	Ishekar	Endoscope Camera	-	All	All	All
Operating System	Ishekar	Endoscope Camera Firmware	All	All	All	All
Operating System	Ishekar	Endoscope Camera Firmware	All	All	All	All

cpe:2.3:h:ishekar:endoscope_camera:-:*:*:*:*:*:*:*:

cpe:2.3:h:ishekar:endoscope_camera:-:*:*:*:*:*:*:*:

cpe:2.3:o:ishekar:endoscope_camera_firmware:*:*:*:*:*:*:*:*:

cpe:2.3:o:ishekar:endoscope_camera_firmware:*:*:*:*:*:*:*:*:

No vendor comments have been submitted for this CVE

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