



terminated sp+0x40 into sp+0x440. The buffer sp+0x440 is immediately adjacent to sp+0x40 on the stack. Therefore, there is no NULL termination on the buffer sp+0x40 since it overflowed into sp+0x440. The strcpy() will result in invalid memory access. An interface value of length 0x3c4 will cause the service to crash."> using sprintf(). The destination buffer sp+0x40 is overflowed with the call to sprintf() for any interface values that are greater than 512-len("/etc/config-tools/config_interfaces interface=") in length. Later, at 0x1ea08 strcpy() is used to copy the contents of the stack buffer that was overflowed sp+0x40 into sp+0x440. The buffer sp+0x440 is immediately adjacent to sp+0x40 on the stack. Therefore, there is no NULL termination on the buffer sp+0x40 since it overflowed into sp+0x440. The strcpy() will result in invalid memory access. An interface value of length 0x3c4 will cause the service to crash." />

CVE-2019-5186

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CVE-2019-5186

Source: Mitre

Source: NIST

CVE.ORG

Print: PDF 



Certain versions of [Pfc200](#) from [Wago](#) contain the following vulnerability:

An exploitable stack buffer overflow vulnerability exists in the iocHECKD service "I/O-Check" functionality of WAGO PFC 200. An attacker can send a specially crafted packet to trigger the parsing of this cache file. At 0x1eb9c the extracted interface element name from the xml file is used as an argument to /etc/config-

tools/config_interfaces interface=<contents of interface element> using sprintf(). The destination buffer sp+0x40 is overflowed with the call to sprintf() for any interface values that are greater than 512-len("/etc/config-tools/config_interfaces interface=") in length. Later, at 0x1ea08 strcpy() is used to copy the contents of the stack buffer that was overflowed sp+0x40 into sp+0x440. The buffer sp+0x440 is immediately adjacent to sp+0x40 on the stack. Therefore, there is no NULL termination on the buffer sp+0x40 since it overflowed into sp+0x440. The strcpy() will result in invalid memory access. An interface value of length 0x3c4 will cause the service to crash.

CVE-2019-5186 has been assigned by [talos-cna@cisco.com](#) to track the vulnerability - currently rated as **HIGH** severity.

CVSS3 Score: **7 - HIGH**

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

HIGH

4.4 - MEDIUM

Access Vector	Access Complexity	Authentication
LOCAL	MEDIUM	NONE
Confidentiality Impact	Integrity Impact	Availability Impact
PARTIAL	PARTIAL	PARTIAL

CVE References

Description	Tags	Link
TALOS-2019-0966 Cisco Talos Intelligence Group - Comprehensive Threat Intelligence	Exploit Mitigation Third Party Advisory talosintelligence.com text/html	 MISC talosintelligence.com/vulnerability_reports/TALOS-2019-0966

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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 	Wago	Pfc200	-	All	All	All
Hardware 	Wago	Pfc200	-	All	All	All
Operating System	Wago	Pfc200 Firmware	03.02.02(14)	All	All	All
Operating System	Wago	Pfc200 Firmware	03.02.02\14\	All	All	All
Operating System	Wago	Pfc200 Firmware	03.02.02\14\	All	All	All

cpe:2.3:h:wago:pfc200:-:*:*:*:*:*:*:

cpe:2.3:h:wago:pfc200:-:*:*:*:*:*:*:

cpe:2.3:o:wago:pfc200_firmware:03.02.02(14):*:*:*:*:*:

cpe:2.3:o:wago:pfc200_firmware:03.02.02\:(14\).*:*:*:*:*.*

cpe:2.3:o:wago:pfc200_firmware:03.02.02\ (14\):*:*:*:*:*.*

No vendor comments have been submitted for this CVE

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