

## **SA-CDS-20180315-003: Vulnerability in the WAGO Ethernet TCP/IP driver**

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Version: V1.0  
Severity: Moderate

### **Description**

Independent researcher reported a vulnerability to the NCCIC ICS which can affect the availability of the WAGO Ethernet TCP/IP driver and serial communication.

### **Impact**

Successful exploitation of this vulnerability allows a remote attacker to cause a denial of service of the WAGO Ethernet TCP/IP driver and serial communication. The device can be still used with same functionality via 3S TCP/IP level 2 driver and WAGO Service Communication over TCP/IP.

### **Affected Products**

To our current knowledge following products with firmware version 10 and prior are affected by these vulnerabilities:

- 750-880
- 750-881
- 750-852
- 750-829
- 750-831
- 750-889
- 750-882
- 750-885

## **Vulnerability Characterization**

This advisory is based upon the report of the NCCIC ICS.

### **Improper resource shutdown or release (CWE-404)**

The vulnerability can be exploited remotely by sending special crafted packets to the TCP/IP port 2455 which results in a denial-of-service condition of the communication via WAGO Ethernet TCP/IP driver and serial communication until a restart of the device.

## **Solution**

Update your device to the latest firmware (FW 11 or later). In case this is not feasible, disable the CODESYS communication via WBM (Navigation > Port > "CoDeSys") or Ethernet Settings Tool (Protocol > "PLC (Port 2455)", or limit the access to the TCP/IP port 2455 to trusted devices.

## **Mitigation**

- Update your device to the latest firmware.
- Disable the CODESYS communication via WBM or via Ethernet Settings Tool.
- Restrict network access to the device.
- Do not directly connect the device to the internet.
- Restrict the number of users, with access to the device, to a minimum.
- Change the default passwords of devices.
- Do not install software from untrusted sources.

## **Additional Resources**

None

## **Reported**

This vulnerability was originally reported by Younes Dragoni of Nozomi Networks to NCCIC ICS.

## **Disclaimer**

The security instructions given here have exclusively technical-informatory character; contractual stipulations remain unaffected.

<http://global.wago.com/en/wago/impressum/software-user-agreement/index.jsp>

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