

26 November 2020
300481397/pbsa56

Security Advisory for Touch Panels of the BTP series of articles

Advisory Title

Uncontrolled Resource Consumption Vulnerability (CWE-400) was discovered at Touch-Panels of the BTP series.

Advisory ID

CVE-2020-12524
VDE-2020-047

Vulnerability Description

Uncontrolled Resource Consumption can be exploited to cause the HMI to become unresponsive and not accurately update the display content (Denial of Service).

Affected products

Article no	Article	Affected versions
1050387	BTP 2043W	All versions
1046666	BTP 2070W	All versions
1046667	BTP 2102W	All versions

Impact

When the HMI is subjected to i.e. a rapid flood of ICMP ping packets, the HMI stops responding to user input and the running program provides no visual changes. Once the attack stops, the HMI will return to normal functionality.

Personally liable partner:
Phoenix Contact Verwaltungs GmbH
Amtsgericht Lemgo HRB 5273
Kom. Ges. Amtsgericht Lemgo HRA 3746

Group Executive Board:
Frank Stührenberg (CEO)
Roland Bent, Dirk Görlitzer
Torsten Janwlecke, Ulrich Leidecker
Frank Possel-Dölken, Axel Wachholz

Deutsche Bank AG
(BLZ 360 700 50) 226 2665 00
BIC: DEUTDE33XXX
IBAN:
DE93 3607 0050 0226 2665 00

Commerzbank AG
(BLZ 476 400 51) 226 0396 00
BIC: COBADE33XXX
IBAN:
DE31 4764 0051 0226 0396 00

Classification of Vulnerability

Base Score: 7.5

Vector: CVSS:3.0/AV:N/AC:L/PR:N/UI:N/S:U/C:N/I:N/A:H

Temporary Fix / Mitigation

Phoenix Contact recommends operating network-capable devices in closed networks or protected with a suitable firewall. For detailed information on our recommendations for measures to protect network-capable devices, please refer to our application note:

[Measures to protect network-capable devices with Ethernet connection](#)

Acknowledgement

This vulnerability was discovered by Richard Thomas and Tom Chothia of University of Birmingham.

We kindly appreciate the coordinated disclosure of this vulnerability by the finder.