

02 June 2020
300480415/pbsa56

Security Advisory for FL MGUARD, TC MGUARD, TC ROUTER and TC CLOUD CLIENT devices

Advisory Title

A critical vulnerability has been discovered in PPPD which is utilized in Phoenix Contact FL MGUARD, TC MGUARD, TC ROUTER and TC CLOUD CLIENT devices.

Advisory ID

CVE-2020-8597
VDE-2020-018

Vulnerability Description

FL MGUARD, TC MGUARD, TC ROUTER and TC CLOUD CLIENT devices are affected by a buffer overflow vulnerability within the PPP service.

The PPP service is not active by default, but is used commonly at TC ROUTER, TC CLOUD CLIENT.

It is also running in the following FL MGUARD and TC MGUARD configurations:

- Mobile data connection
- Router mode "Modem"
- Router mode "PPPoE"
- L2TP over IPsec

Malicious PPP peers could try to exploit the vulnerability from remote.

Affected products

Article no	Article	Affected versions	Current version
2200515	FL MGUARD RS4000 TX/TX VPN	< 8.8.2	download
2700197	FL MGUARD GT/GT	< 8.8.2	download
2700198	FL MGUARD GT/GT VPN	< 8.8.2	download
2700634	FL MGUARD RS4000 TX/TX	< 8.8.2	download
2700639	FL MGUARD SMART2 VPN	< 8.8.2	download
2700640	FL MGUARD SMART2	< 8.8.2	download
2700642	FL MGUARD RS2000 TX/TX VPN	< 8.8.2	download
2700967	FL MGUARD DELTA TX/TX	< 8.8.2	download
2700968	FL MGUARD DELTA TX/TX VPN	< 8.8.2	download
2701275	FL MGUARD PCI4000 VPN	< 8.8.2	download
2701278	FL MGUARD PCIE4000 VPN	< 8.8.2	download
2701875	FL MGUARD RS2005 TX VPN	< 8.8.2	download
2701876	FL MGUARD RS4004 TX/DTX	< 8.8.2	download
2701877	FL MGUARD RS4004 TX/DTX VPN	< 8.8.2	download
2702259	FL MGUARD RS4000 TX/TX-P	< 8.8.2	download
2702465	FL MGUARD RS4000 TX/TX VPN-M	< 8.8.2	download
2702547	FL MGUARD CENTERPORT	< 8.8.2	download
2702831	FL MGUARD CORE TX VPN	< 8.8.2	download
2702139	FL MGUARD RS2000 TX/TX-B	< 8.8.2	download
1053405	FL MGUARD SMART2 VPN/K1	< 8.8.2	download
1053403	FL MGUARD RS4000 TX/TX VPN/K1	< 8.8.2	download
1073940	FL MGUARD PCIE4000 VPN/K2	< 8.8.2	download
1073943	FL MGUARD RS4000 VPN/K2	< 8.8.2	download
1073944	FL MGUARD PCI4000 VPN/K2	< 8.8.2	download
2903441	TC MGUARD RS2000 3G VPN	< 8.8.2	download
2903588	TC MGUARD RS2000 4G VPN	< 8.8.2	download
1010462	TC MGUARD RS2000 4G VZW VPN	< 8.8.2	download
1010464	TC MGUARD RS2000 4G ATT VPN	< 8.8.2	download
2903440	TC MGUARD RS4000 3G VPN	< 8.8.2	download
2903586	TC MGUARD RS4000 4G VPN	< 8.8.2	download
1010461	TC MGUARD RS4000 4G VZW VPN	< 8.8.2	download
1010463	TC MGUARD RS4000 4G ATT VPN	< 8.8.2	download
2702528	TC ROUTER 3002T-4G	< 2.05.5	download

2702530	TC ROUTER 3002T-4G	< 2.05.5	download
2702529	TC ROUTER 2002T-3G	< 2.05.5	download
2702531	TC ROUTER 2002T-3G	< 2.05.5	download
2702532	TC ROUTER 3002T-4G VZW	< 2.05.5	download
2702533	TC ROUTER 3002T-4G ATT	< 2.05.5	download
2702886	TC CLOUD CLIENT 1002-4G	< 2.03.19	download
2702887	TC CLOUD CLIENT 1002-4G VZW	< 2.03.19	download
2702888	TC CLOUD CLIENT 1002-4G ATT	< 2.03.19	download

And all Innominate derivatives of FL MGUARD products.

Impact

Attackers may either crash the PPP service or execute code with system permissions.

Classification of Vulnerability

Base Score: 9.8

CVSSv3 Vector: AV:N/AC:L/PR:N/UI:N/S:U/C:H/I:H/A:H

At TC ROUTER and TC CLOUD CLIENT devices PPPD is not started by default but is activated as soon as packet data is enabled in the packet data setup.

The FL MGUARD and TC MGUARD is vulnerable only in certain configurations, listed under vulnerability description. Within these configurations, the MGUARD acts as PPP client, which establishes connections to remote peers.

Remediation

We strongly recommend updating the devices to the latest firmware as listed in the table above if the devices are used in configurations where PPPD is activated.