



GE VERNOVA

UR Product Family

UR Webserver Vulnerability

Security Notice

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Security: GE Vernova Proprietary Information – Class III (Confidential)

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Overview

The UR family of IEDs offers read-only webserver support where the users can view limited information about the respective relay. The UR allows the configuration of the port for HTTP access through the setting "HTTP TCP PORT NUMBER". Configuring the value of this setting to 0 was intended to turn off the webserver functionality. Recently, PSE (TSO, Poland) reported that configuring the HTTP TCP port number to 0 did not disable HTTP access.

At the time of this advisory publication, no public exploitation of this security vulnerability is known.

GE Vernova thanks PSE (TSO, Poland) for reporting this weakness.

Background

The UR family of advanced protection and control relays provides one integrated platform that delivers leading edge protection, control, monitoring, and metering solutions for critical power system applications. UR platform supports proven protection algorithms, expandable I/O, integrated monitoring, and high accuracy metering capabilities with the latest in communications technologies, the UR family of devices provides the situational awareness needed for a reliable, secure, and efficient modern grid.

UR relays are digital devices designed to be installed and operated in a utility & industrial environment and connected to secure private networks.

Vulnerability Details

The UR family of relays supports webserver access at a port configured through the setting “HTTP TCP PORT NUMBER”. By default, the port number is configured to 80. Since firmware version 7.00 the range of this setting is 0 to 65535, with the value of 0 closing the HTTP port after an additional reboot. It was recommended to configure the HTTP port to 0 when the HTTP service is not needed.

We are confirming the erroneous behavior of the UR platform when the “HTTP TCP PORT NUMBER” setting is configured to 0. When the HTTP port number is configured to 0, after the device is rebooted a random port number is opened for the HTTP protocol and the HTTP server can be accessed using that random port.

Affected products/versions

Products	Versions
UR Family: B30, B90, C30, C60, C70, C95, D30, D60, F35, F60, G30, G60, L30, L60, L90, M60, N60, T35, T60	All firmware versions from FW 7.xx

Action

GE Vernova strongly recommends that users with impacted firmware versions update their UR devices to UR firmware version 8.3x, released in May 2022, or greater to resolve this vulnerability. GE Vernova will work with customers on minor releases for affected UR firmware.

As a workaround, we recommend the UR users to either configure the firewall to effectively block all HTTP traffic to their relays or configure the UR relay’s HTTP TCP port to a non-zero value and block traffic to only that port using firewall.

GE Vernova also recommends that customers secure the physical access to UR relays, and they protect their digital devices using a defense-in-depth strategy. This includes, but is not limited to, placing digital devices inside the control system network security perimeter, deploying, and maintaining access controls, monitoring and Intrusion Detection, security awareness training, security policies, network segmentation and firewalls, strong and active password management, data encryption, antivirus and other mitigating applicable technologies.

Please refer UR Deployment guide for secure configuration of UR IED and system.

Product support

For help with any aspect of your GE Vernova Grid Solutions product, visit our website to contact our support team, 24/7, as follows:

Region	E-mail	Telephone
Global Contact Centre	ga.support@gevernova.com	+44 1785 250070
Central and East Asia and Pacific	ga.supportCEAP@gevernova.com	+61 414 730 964
India	ga.supportIND@gevernova.com	+91 44 22648000
Middle East, North Africa and Turkey	ga.supportMENAT@gevernova.com	+971 42929467
Europe, Russia, CIS and Sub-Saharan Africa	ga.supportERCIS@gevernova.com	+34 94 4858854
North America	ga.supportNAM@gevernova.com	+1 877 605 6777
Latin America	ga.supportLAM@gevernova.com	+55 11 36187308