WOODWARD

VxWorks Urgent/11 Patch – MicroNet Plus 5200 CPUs

Issue

As announced in August (see Security Bulletin 01661), a set of vulnerabilities known as "Urgent/11" were discovered in the network stack (IPnet) used in Wind River VxWorks Real-Time Operating Software versions 6.5 and later. These versions of VxWorks are used on certain MicroNet Plus CPUs.

Woodward has integrated patches provided by Wind River into the 5200 CPU Footprint software and is now in the final stages of verification testing. This security bulletin addresses how to patch versions of the MicroNet CPU 5200 products identified below (the "Affected Units"). These patches will be made available on Woodward.com by October 7, 2019.

Notes:

- The Urgent 11 vulnerabilities do not apply to 5466-1035 and older MicroNet CPUs because earlier versions of VxWorks used a different network stack.

- The 5466-1045 Cyber-Ready CPU is covered in a separate Security Bulletin (01665).

Description

The necessary Service Pack can be downloaded from the Woodward website. For the systems covered in this bulletin, installing the Service Pack will be the only required step.

The patches described in this bulletin addresses the following vulnerabilities:

CVE-2019-12255, CVE-2019-12260, CVE-2019-12261, CVE-2019-12263 CVE-2019-12256, CVE-2019-12257, CVE-2019-12258, CVE-2019-12262, CVE-2019-12264, CVE-2019-12259, CVE-2019-12265

Affected Units

MicroNet Plus: 5466-1141, 5466-1145, 5466-1245

Please note that these CPUs may be components in systems or cabinet assemblies manufactured by the turbine OEM, by Woodward or by Woodward Channel Partners

For the CPUs listed above there is no impact to Coder or the GAP Application.

Corrective Action

1. Download Service Pack 9927-2721 from Woodward.com.

2. Insure that the turbine is shut down, but leave the MicroNet system powered up. Connect a laptop containing the Service Pack and the Woodward AppManager tool to the CPU (use the Syscon CPU in redundant systems). Woodward recommends using AppManager version 3.14 or later to install the upgrades.

3. Following the instructions in AppManager, install the Service Pack on each CPU contained in the system.

4. Woodward's RTN network is not affected by Urgent 11, however you may wish to update the RTN modules in expansion chassis. If so follow the same procedure.

5. Restart the system and confirm proper operation.

Most sites should be able to install the Service Pack without assistance, however if you are not comfortable doing this, please contact your support resource for the system (the turbine OEM, Woodward or a Woodward Distributor/Partner). If contacting Woodward directly, you may work through your assigned Account Manager or email ***turbinehelpdesk@woodward.com***.

Additional Information
ICS Advisory 19-211-01: **https://www.us-cert.gov/ics/advisories/icsa-19-211-01**

Wind River Security Advisory: **https://www.windriver.com/security/announcements/tcp-ip-network-stack-ipnet-urgent11/security-advisory-ipnet/**

WOODWARD

PO Box 1519, Fort Collins CO 80522-1519, USA
1041 Woodward Way, Fort Collins CO 80524, USA
Phone +1 (970) 482-5811

Email and Website—www.woodward.com

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