

By
DC-AE/PJ-SAF

Author
Dietmar Trappiel

Extension
+49 9352 18-5734

Lohr am Main
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Memo

Recipient
FYI

Important Product Information for Bosch Rexroth embedded Controls

For the VxWorks operating systems used in embedded controls by Bosch Rexroth, information about several critical vulnerabilities in the network protocol stack has been published on July 29, 2019. [1],[2] The following devices are affected by the vulnerabilities:

- Embedded controls CML75 with an MLC/XLC firmware version < 14V22 Patch 4,
- Embedded controls XM21, XM22, XM42 with an MLC firmware version < 14V22 Patch 4,
- Industrial PC VPB40.4 with a firmware version < 14V22 Patch 4,
- Embedded controls CML75, CML85 with an MTX firmware version (all versions)

Embedded controls of the CML10, CML20, CML25, CML40, CMP60, CMP70, CML45 series as well as CML65 and HCT/HCQ (MTX micro) are not affected.

From MLC firmware version 14V22 Patch 4, all vulnerabilities have been fixed. Thus, it is recommended, to update your version to these versions as soon as possible.

Debugging for MTX firmware versions based on version 14V22 is currently in progress and is expected to be available in Q4/2019. Upon request, a preliminary version based on firmware version 14V22 can be provided.

In use cases in which a device update is not possible, compensatory measures are recommended which prevent or at least complicate taking advantage of the vulnerability. Always define such compensatory measures individually, in the context of the operational environment.

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Some possible measures are described in the DC Safety directive, for example the network segmentation (also refer to [3]). In general, it is highly recommended to implement the measures described in the DC Safety directive.

For more detailed technical information about the vulnerability, refer to [1],[2].

Sources:

[1] <https://www.us-cert.gov/ics/advisories/icsa-19-211-01>

[2] PSIRT Information: <https://psirt.bosch.com/Advisory/BOSCH-SA-761722.html>

More information:

[3] https://www.boschrexroth.com/various/utilities/mediadirectory/download/index.jsp?object_nr=R911342561