



## Security Bulletin for XONA Critical Systems Gateway (CSG)

Bulletin ID	Date Published	Severity
XONA21-12	July 30, 2021	Low

### Summary

In the Linux kernel 5.5.0 and newer, the bpf verifier did not properly restrict the register bounds for 32-bit operations, leading to out-of-bounds reads and writes in kernel memory.

### Affected Products

Product	Version	Hardware
<b>XONA Critical Systems Gateway (CSG)</b>	3.3.2 and earlier	ML-350

### Solution

Although the CSG utilizes Secure boot, which already mitigates this issue, we disabled unprivileged access to BPF entirely. A security update for this issue is available in the 4.0 release update file, released in July 2021. To receive this update, login to your support portal account on the XONAsystems.com website or contact us for assistance by email: [support@xonasystems.com](mailto:support@xonasystems.com).