What is UL 2900-2-2?

With more connected devices than ever, Underwriters Laboratories (UL) understands that there is increasing risk of cybercrime occurring through network connected devices. UL has developed this standard to assess the vulnerability of connected devices to known malware/exploits and protect business from these risks. The UL 2900-2-2 certification is UL's global standard for connected device cybersecurity.

Products tested undergo extensive testing, including static code reviews, vulnerability assessments and risk mitigation capabilities. The Eaton Gigabit Network card was assessed for SSH, SNMPv3, NTP, SMTPS, DHCP and MQTT via TLS 1.2.

Reducing cybersecurity risk is critical. Eaton can help.

Eaton takes cybersecurity seriously. That's why we've developed a network card that has enhanced protection built-in. The Gigabit Network card is the first in the industry to receive the UL 2900-2-2 certification which provides customers with confidence that the network card has been reviewed and tested and it meets the benchmark of this trusted brand. While hardware that lives behind a firewall is thought of as fully-protected, that isn't always enough to keep hackers out.

What's the benefit to customers?

Encryption and Password management are the two key enhancements that make this worth the wait.

Encryption

- Uses the most current version of Transport Layer Security protocol (TLS)
- Only secure protocols enabled by default
- Firmware is signed and encrypted, and will not boot if tampered with
- Secure SMTP for email alerts

Password Management

- Requires change of password on setup
- Configurable requirements for password complexity
- Certificate based authentication in machine to machine connections – no username/password information saved on the client machine, separate certificates for each protocol

Beyond enhanced cybersecurity, what does this card feature?

- Gigabit speed for compliance with networking equipment and gigabit only datacenter networks
- Compatibility with Eaton Intelligent Power manager (IPM) v1.61 or higher and several Eaton UPSs
- Connected devices can be rebooted remotely with load segment controls automatically, *or on a schedule*
- Reduced setup time and enables compatibility without changing port settings on the network switch
- Enhanced UPS capabilities – The UPS can be linked to other systems with the network card, thereby creating a system that can be used to save costs or provide additional functionality
- Self-setting, real-time clock with battery backup and linkage to NTP (Network Time Protocol) server ensures accurate reporting of event history
- Additional memory allows storage of current and prior firmware versions

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