Intellectual Property

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Revision History

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For the latest revision of this product document, please check our online documentation at [www.lantronix.com/support/documentation](http://www.lantronix.com/support/documentation).
Overview

This document describes Lantronix IoT device security best practices to protect against unauthorized access. Lantronix recommends using the guidelines below. These tips are not device-specific. Please see your device user guide for specific information on how to implement the suggestions.

Use a strong password

Change the factory default password, which could be called the Administrator, Telnet, or Web Manager password depending on the device. Use a strong password that is not easy to guess but is easy for you to remember. Include the following in your passwords:

- 8-12 characters
- Uppercase and lowercase letters
- Numbers
- At least one special character, such as @, #, ?, etc.

Disable unencrypted or unneeded protocols

Disable any protocols that don’t have encryption if you don’t use them. For example, Telnet, CLI Server, HTTP, and FTP should be disabled if available on your device and unneeded. Network discovery (UPnP and 77FE) protocols allow remote systems to discover or configure a device. Once device discovery is no longer needed, these protocols should be disabled as well.

Enable encryption and authentication

Enable encryption and authentication on protocols that support them, such as HTTPS. Use encryption for all Tunnel data, including SSH, SSL, and TCP AES. If the device has a wireless access point, enable WPA/WPA2 encryption.

Use signed firmware and scripts from authorized vendors

Keep your firmware up-to-date by installing the latest, digitally-signed firmware version to address any vulnerabilities. Only used scripts from authorized vendors on devices that support custom scripts. This feature is not available in all products.

Disable unused services

Disable any services that are not used, such as Bluetooth, BLE, or Wi-Fi.