SOFTWARE

TTCR 16.1

Enhanced Cybersecurity and Connectivity

TTCR 16.1 Software Upgrade

Total Train Comprehensive Release (TTCR) 16.1 is a Pro Built® control system upgrade that delivers significantly enhanced security capabilities for customers with Prodigy and Vanguard S5P control platforms. The release continues to support other platforms including Series 3++, Series 5 Vanguard, Vantage GC/XC, Guardian ODS/SDS, and EAS3.

Key Benefits

Enhanced cybersecurity delivered through software

This release adds the following new features through software updates on both the control platforms as well as TrainTools servers.

Existing Pro Built hardware can be kept in place – only requiring CCC's **Pro**OS download and configuration.

Prodigy

Encrypted Communication:
Prevent network sniffing of sensitive data like credentials

Communication Robustness:
Defend against denial-of-service attacks

Security Logs:
Ensure traceability of security events

Hardening Options:
Further harden the device by optionally disabling non-essential functions

Secure Boot:
Protect against unauthorized tampering of the embedded operating system

Vanguard S5P

Encrypted Communication:
Prevent network sniffing of sensitive data like credentials

Communication Robustness:
Defend against denial-of-service attacks

Security Logs:
Ensure traceability of security events

Hardening Options:
Further harden the device by optionally disabling non-essential functions

TrainTools

Latest Windows Operating Systems:
Support Windows Server 2022 and Windows 10 IoT Enterprise LTSC 2021 in addition to Windows Server 2019 and Windows 10 IoT Enterprise LTSC 2019

Integrated User Management:
Integrate with Windows authentication (local or domain) for TrainTools application security

Enhanced Security Controls:
Manage security keys, controller communication certificates, and device hardening options with ease

Updated Software Components:
Leverage the updated Maker Pro IDE and other software with enhancements and bug fixes

Get your system ready for the next generation of HMI

In addition to improving the control system security, TTCR 16.1 adds support for MQTT Sparkplug B client to Prodigy and Vanguard S5P control platforms – paving the way for integration with the next generation of CCC operator HMI software that leverages it. This lightweight Publish/Subscribe (Pub/Sub) protocol enables secure, bandwidth-efficient, and scalable communication that supplements the existing capabilities of these Pro Built platforms.

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