

INSIGHTqcx™ and INSIGHTqcx™ - with Internal DIO

INTRODUCTION

This is the software release notes for versions 100.1.8.11 for INSIGHTqcx and 300.0.3.32 for INSIGHTqcx (with internal DIO) Cordless Controllers for global customers. This document details the software version, Tool Versions Supported, New Features, Enhancements & Upgrade instructions for this release.

1. Release Information

NOTE: Please upgrade both the tool and controller with the latest versions as outlined in this section.

The following software releases are launched as part of this release package.

CONTROLLER VERSIONS		
Description	INSIGHTqcx	INSIGHTqcx With Internal DIO
Application	100.1.8.11	300.0.3.32
Database	1.0.0	1.0.0
Operating System	1.0.0	1.0.0
Radio	2.23	2.23
Controller Radio Version (CEL/Anaren)	2.6/103.37	NA

TOOL VERSIONS	
Description	Version
QX Legacy Tools	Display 200.1.2.12
	MCE 3.6.1.53
Tool Radio Version (CEL/Anaren)	Radio 2.6/103.37
QX Connect Series One Image	Display 120.4.2.37
	MCE 3.6.1.53
QX Wi-Fi4 Limitless One Image	Display 130.0.1.2
	Wi-Fi 3.0.3.2
	MCE 3.6.1.53

QX Wi-Fi6 Limitless One Image	Display 140.0.1.3
	Wi-Fi 140.0.1.3
	MCE 3.6.1.59
RTS	Display 5.15

2. Enhancements and fixes

- **QX WiFi6 Tool Support:** Enabled support for tools on the newly launched QX-WiFi6 platform.
- **Radio Tool Communication Logs:** Added logging capability for radio tool communications to improve traceability and diagnostics.

Fixes and Improvements

- **External Radio:** Improved system accuracy by addressing incorrect external radio binary configurations.
- **Cycle Result Screen:** Enhanced screen reliability by resolving the issue that caused blank pages on the cycle result screen.
- **ToolsNet Server Connectivity:** Enhanced server stability by eliminating intermittent disconnection issues with the ToolsNet server.
- **Rundown Angle Transfer to MES (PFOP):** Enabled reliable data flow by resolving the issue preventing rundown angle values from reaching MES.
- **PFOP Grey Icon Display:** Improved visual consistency by addressing icon display issues after controller power cycles in static IP mode.
- **Invalid Barcode Handling:** Refined job selection logic to ensure proper reset after scanning invalid barcode strings.
- **UI Behavior:** Optimized user interface responsiveness by eliminating persistent “Please wait” messages and blank accessory assignment screens.
- **Controller Session Handling:** Fixed unexpected logout events and brief blank screen occurrences.
- **USB Mode System Fault:** Fixed a fault triggered when tools were connected via USB.

3. Known Issues

- **Tool Firmware Update Failure:** Firmware updates may occasionally fail with an error. Retrying the update typically resolves the issue.
- **Radio Log Download Error:** Attempting to download radio logs may result in an error message.

4. Upgrade Instructions

4.1. INSIGHTqcx Firmware Upgrade Process

4.1.1 If updating from QCX version 2.x.x, you must perform a USB Image Update to version 100.1.5.10. Then update to version 100.1.8.11. See link:

[How To perform USB Image Update](#)

4.1.2 If updating from QCX controller version 100.x.x.x, follow below instructions.

- Go to our SendSafely/FTP and copy the Application (.irb) file to your PC or USB drive.

4.2 INSIGHTqcx with Internal DIO

4.2.1 If updating from QCX with internal DIO controller version 300.0.1.1, you must perform a USB Image Update to version 300.0.2.28. Then update to version 300.0.2.32 using the .irb file.

- Go to our SendSafely/FTP and copy the USB Image file (rootfs.ext4) to a USB drive.
- Save the rootfs.ext4 file to a Sandisk 2.0 USB drive (FAT32). Insert the drive into one of the USB ports on the controller. Power on the controller. Wait up to 10 minutes for the controller to complete the update. Power off the controller. Remove the USB drive. Power on the controller.

4.2.2 If updating from a QCX with internal DIO controller version other than 300.0.1.1, follow below instructions using the irb file for 300.0.3.32

Go to our SendSafely/FTP and copy the Application (.irb) file to your PC or USB drive.

SendSafely:

Link to SendSafely platform – [Sendsafely Link](#)

Path of INSIGHTqcx in SendSafely –

Home / INSIGHTqcx MTC- Cordless Controller Firmware / INSIGHTqcx MTC /

Path of INSIGHTqcx (with internal IO) in SendSafely –

Home / INSIGHTqcx MTC- Cordless Controller Firmware / INSIGHTqcx MTC- Integrated IO /

Register for Sendsafely : <https://irtoolhelp.ingersollrand.com/hc/en-us/articles/25600256116243--INSIGHT-Control-Latest-Global-Releases>

See link for controller updating instructions:

<https://irtoolhelp.ingersollrand.com/hc/en-us/articles/5120119326867--How-to-Update-firmware-on-an-MTC-controller>

4.3 Tool Firmware Update

4.3.1 See link for QX tool updating instructions: - [How to Update QX Tools](#)

4.3.2 Updating an RTS tool:

- To update an RTS tool using a controller, plug the tool into the updated controller with a USB cable. Follow the messages on the controller to complete the update.
- If updating an RTS tool from a version earlier than 4.3, the tool should be recalibrated on the application after the update to ensure proper behavior.
- This new tool release has updated algorithms to enhance the performance of the RTS025, RTS060 and RTS140 tools. Therefore, verification on the application should be performed.

5. Revision History

Version	Date	Summary of Changes	Author
0.01	08/21/2025	Final	Amol Kulkarni