

INSIGHTqcx™ and INSIGHTqcx™ (Internal DIO)

INTRODUCTION

This is the software release notes for versions 100.1.7.49 for INSIGHTqcx and 300.0.2.49 for INSIGHTqcx (with internal DIO) Cordless Controllers. 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	100.1.7.49	300.0.2.49
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	2.6/103.37

TOOL VERSIONS	
Description	Version
QX Tool Display	200.1.2.12
QX Series MCE	3.6.1.53
Tool Radio Version (CEL/Anaren)	2.6/103.37
QX Connect Series One Image	Display 120.4.2.37
	MCE 3.6.1.53
QX Wi-Fi Limitless One Image	Display 130.0.1.2
	Wi-Fi 3.0.3.2
	MCE 3.6.1.53
RTS	Display 0.0.5.14

2. Enhancements and Fixes

- Support added for both internal and external radios for tool communications.
- Improved Controller security on Network TCP Ports.
- Resolved invalid Pset error when set at high level limit for torque step.
- Time zone synchronization fixed between tool and controller for logs module(Cycle Results, Job Results, PFOP logs etc).
- Enhanced Tool-to-Controller communication to prevent radio lockups and wakeup issues.
- Improved stability for Controller-to-Toolsnet connectivity in multi-tool environments.
- Enhanced stability of Controller-to-PFOP protocol communication in multi-tool setups.
- Enabled quick job selection on the tool (via MES) after wake-up.
- Resolved tool freeze issue related to Wireless Energy Scan feature.
- Streamlined batch count issue for failed cycles on RTS tools.
- Fixed RTS firmware upgrade error from the controller interface.
- Resolved EOR (End of Rundown) status and results output issues to MES.
- Optimized delay behavior between two EOR transmissions.
- Fixed command error during barcode downloads via MID0050 on PFOP protocol.

3. Known Issues

It is recommended to download logs or results via remote UI. Downloading via local USB on the controller may take longer or fail in some cases.

4. Upgrade Instructions

4.1 Controller Firmware Update

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 100.1.7.49. See link:

<https://irtoolhelp.ingersollrand.com/hc/en-us/articles/4403936117139-Upgrading-to-an-MTC-Multi-Tool-Controller-controller>

NOTE: If not using multiple tools with the controller, ignore the section on Obtaining an MTC License.

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

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

4.1.3 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 300.0.2.49 using the .irb file.

- Go to our SendSafely site 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.

4.1.4 If updating from a QCX with internal DIO controller version other than 300.0.1.1, follow below instructions using the irb file for 300.0.2.49

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

SendSafely:

Link to SendSafely platform for collaborators –

<https://filesafe.ingersollrand.com/receive/?packageCode=R0xH0l3CZTge7FOl2JUtkroDyiqJLwxfulry0BLVYno#keycode=AFFzeIR6NhhkOTThSclWRyjOe9J-2x9fbcDhTjLCgkk>

Path of INSIGHTqcx in SendSafely –
Home / INSIGHTqcx MTC- Cordless Controller Firmware / INSIGHTqcx MTC / Version 100.1.7.49

Path of INSIGHTqcx (with internal IO) in SendSafely –
Home / INSIGHTqcx MTC- Cordless Controller Firmware / INSIGHTqcx MTC- Integrated IO / 300.0.2.49

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>

4.2 Tool Firmware Update

4.2.1 See link for QX tool updating instructions:

<https://irtoolhelp.ingersollrand.com/hc/en-us/articles/5120212430739--How-to-Update-QX-and-QX-Connect-tool-firmware-using-an-MTC-controller>

4.2.2 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	4/22/2025	Draft	Amol Kulkarni
0.02	4/22/2025	Updated Enhancements	Kartik Sahu