

# INSIGHTqcx

## Version 1.2.2

March 23<sup>rd</sup>, 2020

### 1. Introduction

This is a software release note for **version 1.2.2** of **INSIGHTqcx** Cordless Controller. This document details the software versions, key new features, and upgrade instruction for the version 1.1.6 release package.

### 2. Release Information

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

Controller Software		
#	Description	Version
1	Application	1.2.2
2	Database	0.0.5
3	OS	0.0.1

Tool Software		
#	Description	Version
1	Tool Display	100.2.0.1
2	Tool MCE	2.5.0.1

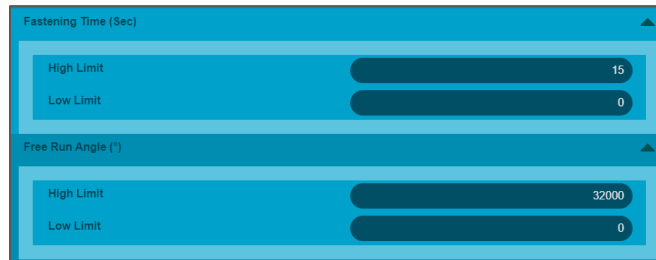
Note:

1. Users are highly recommended to upgrade both the controller and tool software. Please follow the upgrade instruction listed in the section below.

### 3. New Features & Improvements

#### 3.1 NEW Key Features

- 3.1.1 Added support for VW-XML 2.0/2.1 protocol
- 3.1.2 Added support for ProfiNet, Devicenet, Profibus fieldbuses
- 3.1.3 Support for TOHO protocol – compatible with version 13.2
- 3.1.4 Added MID 130 – Job Off. Please see section 3.4 below for the full list of supported Open Protocol MID
- 3.1.5 Support for Toolsnet 3.2 and 8.0 (without trace)
- 3.1.6 Added new *Fastening Time* for Pset
  - *Fastening Time* is defined as the time elapsed from Threshold(Snug) to Target
- 3.1.7 Added new *Free Run Angle* parameters for Pset
  - *Free Run Angle* is defined as the rotation angle from Start to Threshold(Snug)



The screenshot displays two configuration sections with sliders:

- Fastening Time (Sec):**
  - High Limit: 15
  - Low Limit: 0
- Free Run Angle (°):**
  - High Limit: 32000
  - Low Limit: 0

#### 3.2 Enhancements

- 3.2.1 Addressed issue related to configuration of more than 2 Psets for Batch Count/Socket/Rule
- 3.2.2 Fixed issue of displaying full 3 digits octet for IP address
- 3.2.3 Fixed issues related to MID 15, 35, 40, 41, 65, 410/411
- 3.2.4 Addressed issues related to Pairing
- 3.2.5 Corrected issue of updating wrong column in Event Log
- 3.2.6 Enhanced the length of ASCII characters for MID 150

### 3.3 Language Supported

#	Language	Native name
1	Chinese (Simplified)	中文(简体)
2	Spanish	Español
3	French	Français
4	German	Deutsch
5	Italian	Italiana
6	English	English
7	Korean	한국어
8	Japanese	日本語
9	Russian	Русский
10	Polish	Polskie
11	Portuguese	Português
12	Czech	Čeština

### 3.4 List of Supported Open Protocol MID

MID	Description	INSIGHTqx 1.2.2	MID	Description	INSIGHTqx 1.2.2
1	Communication start	●	51	Vehicle Id Number upload subscribe	●
2	Communication start acknowledge	●	52	Vehicle Id Number upload	●
3	Communication stop	●	53	Vehicle Id Number upload acknowledge	●
4	Command error	●	54	Vehicle Id Number upload unsubscribe	●
5	Command accepted	●	60	Last tightening result data subscribe	●
6	Spindle Connect Status	●	61	Last tightening result data upload	●
7	Spindle Connect Status Ack	●	62	Last tightening result data acknowledge	●
8	Spindle Connect Status Subscribe	●	63	Last tightening result data unsubscribe	●
9	Spindle Connect Status Unsubscribe	●	64	Old tightening result upload request	●
10	Parameter set numbers upload request	●	65	Old tightening result reply	●
11	Parameter set numbers upload reply	●	70	Alarm subscribe	●
12	Parameter set data upload request	●	71	Alarm Upload	●
13	Parameter set data upload reply	●	72	Alarm Upload acknowledge	●
14	Parameter set "selected" subscribe	●	73	Alarm Unsubscribe	●
15	Parameter set "selected"	●	74	Alarm Acknowledged on torque controller	●
16	Parameter set "selected" acknowledge	●	75	Alarm Acknowledged Ack	●
17	Parameter set "selected" unsubscribe	●	76	Alarm Status	●
18	Select Parameter set	●	77	Alarm Status acknowledge	●
19	Set Parameter set batch size	●	80	Read time upload request	●
20	Reset Parameter set batch size	●	81	Time upload reply	●
30	Job numbers upload request	●	82	Set Time in the Torque Controller	●
31	Job numbers upload reply	●	127	Abort job	●
32	Job data upload request	●	128	Job batch increment	●
33	Job data upload reply	●	129	Job batch decrement	●
34	Job "info" subscribe	●	130	Job Off	●
35	Job "info"	●	150	Identifier download request / reply	●
36	Job "info" acknowledge	●	250	Selector socket info subscribe	●
37	Job "info" unsubscribe	●	251	Selector socket info	●
38	Select Job	●	252	Selector socket info acknowledge	●
39	Job restart	●	253	Selector socket info unsubscribe	●
40	Tool data upload request	●	410	AutoDisable settings request	●
41	Tool data upload reply	●	411	AutoDisable settings reply	●
42	Disable tool	●	900	Trace	●
43	Enable tool	●	9,999	Keep alive message	●
50	Vehicle Id Number download request	●			

## 4. Upgrade Instruction

### 4.1 Controller Firmware Upgrades

Follow the instruction outlined in the *How-To Update INSIGHTqcx Firmware* article (see link below) on our customer portal to update the firmware for the INSIGHTqcx controller. **Please note that the Controller may take up to 60s to reboot and multiple reboot may be required during the full firmware upgrade process.**

- <https://irtoolhelp.ingersollrand.com/hc/en-us/articles/360039603114-How-To-Update-INSIGHTqcx-Firmware>

### 4.2 Tool Firmware Upgrades

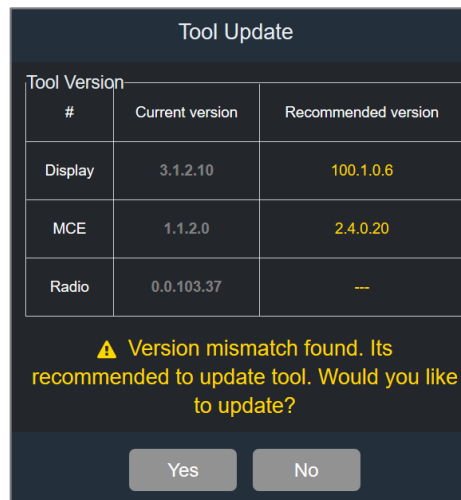
Tool firmware upgrades can be done directly using the INSIGHTqcx controller. The required latest firmware files are already included with the controller.

Prerequisite:

- To use the INSIGHTqcx to upgrade tool firmware, the display firmware version on the tool has to be 3.x.x or higher. For older tool display firmware (V1.x.x or 2.x.x) it is necessary to first update to version 3.x.x or higher using ICS.

Steps:

1. Connect the QX tool into the controller using a USB cable.
2. Once connected, an Update screen will appear to highlight the current vs recommended software versions (see sample screen shot below).



3. Follow the instruction on the screen to update the MCE and Display firmware. In some cases, the tool may need to be recycled power to complete the update process.
4. After the tool is updated, please perform a Factory Reset on the tool using Tool Settings → Factory Reset. Please note that the tool may take up to 8s to fully perform the factory reset.

**5. Revision History****Revision History**

<b>Version</b>	<b>Date</b>	<b>Summary of Changes</b>	<b>Author</b>
0.1	03/18/2020	Initial draft for version 1.2.2	Eng-Hua Yap
0.2	03/23/2020	Updated with more details for new parameters	Eng-Hua Yap