Release Notes

Release Note:	**Skorpio™ X4 WEC7 Version 2.02.073.01 International** **Distribution Date:** March 24, 2021
Product Involved:	Skorpio™ X4 Windows Embedded Compact 7.0
Description:	**Skorpio™ X4 Windows Embedded Compact 7.0 Version 2.02.073.01 International Firmware Release**
Business Unit:	Mobile Computers

Distribution Scope: ☐ **Internal** ☒ **External – specify:** **Public**

Skorpio™ X4 Windows Embedded Compact 7.0 version 2.02.073.01 International

1. COMPATIBILITY

- For use on Skorpio X4 Pilot or Production units.
- Recommend using DXU version 2.0.0.1543 or later. Older versions of DXU used with WEC7 firmware version 1.70 or later may crash when attempting to change Wi-Fi profiles. WEC7 DXU files created prior to firmware version 1.70 can still be applied to devices, but can no longer be modified in DXU version 2.0 or newer.
- **Units equipped with new Truly display cannot be downgraded to firmware 1.80 or previous versions.**
- Units equipped with 1D scanner module must be cold booted if firmware is downgraded from 2.00 version or clean booted if firmware is upgraded to 2.01 version.
- Be sure that the mobile computer's battery is well charged to avoid any risk of unrecoverable issues during the upgrade. Datalogic recommends you USE A POWERED SINGLE SLOT DOCK or A USB POWER ADAPTER.
- Do NOT operate the mobile computer until the update is completely finished. Do NOT press keys on the keyboard. Do NOT touch the touchscreen. Do NOT press the ON/OFF button. Do NOT press the pistol trigger. Do NOT disconnect the mobile computer from external power during the update.

2. ENHANCEMENTS

None

3. CORRECTED DEFECTS

3.1. Decoding Corrections

a. Fixed an issue causing Standard 2 of 5 barcode with 2-bar start/stop to be not decoded. (136404)

4. KNOWN LIMITATIONS

4.1. Bar Code Decoding

a. The 2D scanner does not decode with picklist enabled when aiming at the composite or add-on portion of a label. (65389) Workaround: Aim at the base label.
b. When Picklist mode is enabled, the 2D scanner will only decode UPC/EAN labels with extensions when the cross-hairs are pointed at the base label. (65567)
c. Read rate of 2D scanner is very low on Iphone box labels. (79996)
d. The 1D scanner may not decode EAN barcode with low quiet zone. (87480)
e. Group Separator may not be reported scanning Code-128 label. (133718)

4.2. Communications

a. Bluetooth HID profiles do not automatically reconnect as designed. (6131, 59207, 59208, 59209, 59210)

4.3. USB

a. The device may fail to connect over a USB connection with some USB hubs or extended length USB cables. (64123)

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4.4. Wi-Fi

a. Under some circumstances Wi-Fi could not connect using PEAP-MSCHAP V2 security protocol with Radius authentication server. (76537, 76539)
b. Wi-Fi auto profile feature is slow in switching between radio profiles. (87783)
c. Device working with Orinoco network equipment might lose radio connection unexpectedly. (92086) Workaround: disable/enable wi-fi module or reboot device.
d. In some cases device might lose radio connection temporary during roaming phase. (103419, 106339, 107392, 107475, 114237, 121935, 132773, 134201, 135121, 136007)

4.5. DXU and DDU

Refer to DXU release note for further information about corrected defects and known limitations.

4.6. SDK

a. Device.BtGetPairingInfo() .NET function returns wrong BTPair data. (41388)
b. Device.BtDiscoverSerialDevices() .NET function asked for PIN during discovery phase if BT discovered device requires it. (41630)
c. Native MS Wi-Fi API functions to retrieve RSSI, SSID and BSSID using DeviceIoControl returns error. (78024) Workaround: adopt customized DL SDK functions.
d. Application that simulates scanner continuous mode using DL SDK functions might cause the application itself to stop working after some time. (90040)

Refer to SDK release note for further information about corrected defects and known limitations.

4.7. Miscellaneous

a. Disable automatic SIP option is not supported in MS IE. (72150)

5. FILES

- nk.img [Skorpio™ X4 Windows Embedded Compact 7 version 2.02.073.01 International]
- ReleaseNotes_Skorpio X4_WEC7_v2.02.pdf (this document)

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6. OTHER NOTES

Other Dependencies:

- Datalogic DXU v2.0.0 or newer
- Datalogic SDK v2.2.0.67 or newer

Upgrade Methods:

- Datalogic DXU: see the specific DXU section available in the device user manual.

7. SUPPORT

Datalogic Download area:

https://developer.datalogic.com/mobile-computers/products/skorpio-x4/windows/firmware

Datalogic Technical Support Request:

https://www.datalogic.com/eng/support-service-sp-18.html#technical_support

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8. HISTORY

Skorpio™ X4 Windows Embedded Compact 7.0 version 2.01.073.02 International

ENHANCEMENTS

No enhancements are implemented in this release.

CORRECTED DEFECTS

Decoding Corrections

- Fixed an issue on 1D scanner causing GS1-128 labels to be not decoded when Code 128 was disabled. (123111)
- Fixed an issue for 2D scanner causing device battery consumption when placed in suspend prior to pulling the trigger. (132670)

DXU and DDU Corrections

- Fixed an issue preventing to configure symbols keys as Toggle SIP hot key. (75563, 121917)

Skorpio™ X4 Windows Embedded Compact 7.0 version 2.00.073.03 International

ENHANCEMENTS

Decoding Enhancements

- Updated 1D scanner to 2.0.0.2 version. (112410)

Wi-Fi Enhancements

- Updated radio adapter driver to MCP-8.0.0.47_Release_3.11 version improving connection logic to non-Enterprise grade Wi-Fi systems without controller.

CORRECTED DEFECTS

Decoding Corrections

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- Fixed an issue for 1D scanner causing device battery consumption in stand-by mode. (105740)

Wi-Fi Corrections

- Fixed an issue causing in some cases to lose radio connection temporary during roaming phase. (111882, 115092)

Skorpio™ X4 Windows Embedded Compact 7.0 version 1.90.073.02 International

ENHANCEMENTS

Miscellaneous Enhancements

- Included support to new Truly display. (100025)
- Updated WEC7 embedded certificates list. (105709)
- Added the ability to download an exe file in Deployment section for Scan2Deploy. (106168)

CORRECTED DEFECTS

DXU and DDU Corrections

- Corrected an issue that prevented DXU to setup hidden Wi-Fi profile. (108523)

Miscellaneous Corrections

- Fixed an issue that caused full screen application to be not properly displayed when display auto-rotation feature was enabled together with taskbar disabled.

Skorpio™ X4 Windows Embedded Compact 7.0 version 1.80.073.06 International

ENHANCEMENTS

Miscellaneous Enhancements

- Upgraded Windows Embedded Compact 7 to Update 73 September 2019. (98201)

CORRECTED DEFECTS

DXU and DDU Corrections

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- Corrected taskbar display issue in DDU with full screen application after display rotation. (103209)
- Corrected an issue preventing to apply wi-fi channels setting using DXU. (103897)
- Corrected an issue preventing to get DXU configuration if pre-v2.0 DXU configuration was applied before. (103899)
- Corrected an issue that prevented DXU to setup wi-fi profile with WEP encryption. (105597)

Miscellaneous Corrections

- Fixed an issue that in some rare circumstances caused device to not turn on using USB charger. (101519)
- Fixed an issue that caused characters drop when quickly typed. (104496)
- Fixed an issue that prevented to disable all 5 GHz channels in the wi-fi applet. (104742)

Skorpio™ X4 Windows Embedded Compact 7.0 version 1.70.071.05 International

ENHANCEMENTS

Bar Code Decoding Enhancements

- Included support to DotCode for Halogen2-DL scan engine. (74693)

Wi-Fi Enhancements

- Updated radio adapter driver to MCP-8.0.0.47_Release_3.10 version improving the roaming logic for the single AP use case. (98368)

Miscellaneous Enhancements

- Upgraded Windows Embedded Compact 7 to Update 71 March 2019. (98201)

CORRECTED DEFECTS

DXU and DDU Corrections

- Now the DXU applet can retain the Port setting from the last time it was launched. (61644)

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Skorpio™ X4 Windows Embedded Compact 7.0 version 1.61.068.02 International

ENHANCEMENTS

Wi-Fi Enhancements

- Now Control Panel>System>Device Name is also adopted as Cisco radio client name. (97256)

CORRECTED DEFECTS

Miscellaneous Corrections

- Fixed an issue that caused DXU Remote Control to stop working when device was connected using USBLan protocol. (96813)

Skorpio™ X4 Windows Embedded Compact 7.0 version 1.60.068.05 International

ENHANCEMENTS

Wi-Fi Enhancements

- Improved EAP configuration user interface in DL Wi-Fi applet. (93780)
- DL Wi-Fi applet has been changed to persist the registry when 'Apply' button is pressed. (85486)

Miscellaneous Enhancements

- Introduced support for PFX certificates to the Certificates control panel. (90822)

CORRECTED DEFECTS

Bar Code Decoding Corrections

- Composite "Convert to GS1-128" option works if the Composite label embeds valid GS1-128 Application Identifiers in it. (63747)
- When "Required 2D component" is enabled, the 2D scanner reports GS1 DataBar Expanded labels with their composite components only if 1D label does include a linkage flag indicating to the reader that it should look for a 2D part. (65401)
- Fixed an issue that caused the 1D scanner to read inverse 1D code only if maximum settings were enabled. (94205)

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Wi-Fi Corrections

- Fixed an issue causing Wi-Fi missing connection using EAP-TLS security protocol with certificate. (79463)
- Device can obtain DHCP address from BINTEC router setting the following specific system registry entry for DHCP: [HKLM\Comm\tiwlnapi1\Parms\TcpIp]"DhcpConstantRate"=0. (88371)
- Now device can connect to 5GHz Wi-Fi not broadcasted radio profile after rebooting. (89922)

Miscellaneous Corrections

- Fixed an issue that caused rare locks up with critically low memory error message. (75194)
- Fixed an issue that might cause device to rarely lock up when suspended in SD/4SD Ethernet cradle. (76814, 92619)
- Now device is able to reconnect to Ethernet network in 4SD after dock loses power and powers back on. (86349)
- Fixed an issue that might cause at times the SX4 to lock up during cold boot batch file execution. (89965)
- Fixed an issue that might cause device to lock up if inserted into an Ethernet dock while suspending. (92141)

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ENHANCEMENTS

Wi-Fi Enhancements

- Introduced support to EAP-TLS protocol 1.2 version.

Miscellaneous Enhancements

- Updated EVL WEC7 library to 1.2.3.0 version.

CORRECTED DEFECTS

Bar Code Decoding Corrections

- The 2D scanner can correctly decode Australian Post labels. (48697)

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- Fixed an issue in the 2D scanner that allowed Composite labels longer than the maximum length value to be decoded. (63700)
- Fixed AIM ID of Japanese Postal code for 2D scanner. (70135)
- Now minimum decoding length setting for Code 128 is maintained. (81376)

Power Management Corrections

- Reviewed the charge current when charging a battery that is less than 3V using USB Power Adapter. (84876)
- Fixed an issue that did prevent the device to be charged with USB Power Adapter if the battery was empty. (85865)

DXU and DDU Corrections

- Now each registry entry in DXU has a unique key path - value name. (83466)
- Default extension settings have now been added to DXU for both 1D and 2D scanners. And conditional add-ons are only displayed in DXU for 1D scanners. (83500)
- Corrected order of 2D symbologies in DXU and fixed incorrect symbology names. (83501)
- Postal symbologies added to DXU for 2D scanners. (83502)

Audio Corrections

- Audio is now muted when volume is set to minimum. (48781)

Miscellaneous Corrections

- Fixed an issue causing longer time to delete files stored in flash memory on newer devices. (85047)
- Fixed an issue that might rarely cause device to lock-up during use with different screen patterns. (69478, 70627)

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ENHANCEMENTS

No enhancements are implemented in this release.

CORRECTED DEFECTS

Bar Code Decoding Corrections

- Now in Release Scan target mode, after illumination turns on with no barcode, pressing scan button again the laser is turned on even if no label is decoded. (69553)

Communications Corrections

- Now Dial-Up connection type is available. (82025)

Power Management Corrections

- Fixed an issue that did prevent the device to boot up with USB Power Adapter. (48380, 83057, 83262)
- Now a suspended device indicates it is charging when using a cable plugged into the side USB charging port. (60579)

SDK Corrections

- Now EAP profiles can use Windows Credentials for network authentication. (82454)

Miscellaneous Corrections

- Fixed an issue that could cause a device failure in copying multiple small file if configured in mass storage mode. (75175)
- Fixed an issue causing device to lock-up on Ethernet 4SD if disconnecting and reconnecting power supply. (85222)

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ENHANCEMENTS

DXU Enhancements

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- Now DXU does allow settings of advanced wi-fi options. (75370)
- PC connection settings are now available in DXU. (78905)

Miscellaneous Enhancements

- Introduced DL-Stager Scan2Deploy feature. (73957)
- Updated EVL WEC7 library to 1.1.31.0 version. (78744)
- Updated radio adapter driver to MCP-8.0.0.47_Release_3.6 version implementing auto-recovery mechanism for radio module. (77716, 78743)
- Upgraded Windows Embedded Compact 7 to Update 68 June 2018. (79988)

CORRECTED DEFECTS

Bar Code Decoding Corrections

- The 2D scanner is now able to decode GS1 DataBar Stacked labels. (65557)
- Fixed an issue to prevent the 2D scanner to incorrectly decode the first digits of USPS PLANET labels. (65663)
- Fixed an issue to prevent the 2D scanner to incorrectly decode the first digits of USPS POSTNET labels. (65664)
- Now the 2D scanner is able to decode closely spaced Code 128 labels on part number stickers. (67552)

Communication Corrections

- Now Bluetooth serial connections do not fail when rapidly suspending and resuming device. (73799)
- Ethernet connection using DHCP is now properly supported and comparable with SX3. (78210)

Power Management Corrections

- Now device automatically resumes when inserted into dock once it has been connected using both 4SD and SSD Ethernet dock. (76106)

USB Corrections

- Fixed an issue that, if a USB cable was attached to the side connector when the device was suspended, the device might not connect to a PC over ActiveSync on resume. (60657)

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Wi-Fi Corrections

- Now 802.11a channel is properly displayed in Stats tab of DL Wi-Fi applet. (77796)
- Fixed an issue that turning on "Driver Logging" option in DL Wi-Fi applet could produce false error message. (77911)
- Fixed an issue that caused EU model might not work properly on channels 149, 153, 157, 161. (78704)
- Now CCX setting is properly reported in DL Wi-Fi applet. (81941)

SDK Corrections

- Now DL Wi-Fi applet does correctly display 5 GHz channel list if unavailable channels have been selected with SDK function. (78299, 80859)
- Fixed an issue that caused the impossibility to run Java / Cre-Me JVM applications. (78418)

Audio Corrections

- Set safe volume level and notch for the rugged headset. (80063)

Skorpio™ X4 Windows Embedded Compact 7.0 version 1.31.067.01 International

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Skorpio™ X4 Windows Embedded Compact 7.0 version 1.30.067.02 International

ENHANCEMENTS

Bar Code Decoding Enhancements

- Implemented 1D scanner aimer feature as blinking green line. (73604)

Wi-Fi Enhancements

- Introduced improved DL Wi-Fi applet for a better user experience as default alternative for WCU applet. (64134)

Miscellaneous Enhancements

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- Updated radio adapter firmware to 4.2.3-Rev 8.9.0.0.45 version. (77714)
- Upgraded Windows Embedded Compact 7 to Update 67 Wave 5 March 2018 supporting Transport Layer Security protocol (TLS) versions 1.1 and 1.2. (74994)

CORRECTED DEFECTS

Communication Corrections

- Fixed an issue that did prevent Bluetooth Hands-Free profiles to automatically reconnect after a reboot. (59407)

Wi-Fi Corrections

- DL Wi-Fi applet can supports Wi-Fi auto profile feature. (72688)

SDK Corrections

- Now SDK .NET allows to create WEP wi-fi profile. (76252)
- Now SDK .NET allows to create WPA-TKIP wi-fi profile. (76258)

Miscellaneous Corrections

- Now languages and/or code pages are properly supported in WEC7 for application developed for CE6. (75256)
- Cab file installation from FlashDisk\Cab folder is now silent. (76600)

Skorpio™ X4 Windows Embedded Compact 7.0 version 1.22.065.03 International

ENHANCEMENTS

Miscellaneous Enhancements

- Updated 1D scanner to 1.5.1.0 version.
- Updated EVL WEC7 library to 1.1.25.0 version.

CORRECTED DEFECTS

Bar Code Decoding Corrections

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- Now the 2D scanner reports both pair of labels when "Require ISBT 128 Concatenation" is enabled. (48553)
- Fixed an issue to prevent the 1D scanner to incorrectly decode programming labels. (50223)
- Fixed an issue that could cause the 1D scanner to decode only a portion of a wide Standard 2 of 5 label. (63856)

Communication Corrections

- The Bluetooth "Authentication Request" PIN prompt appears when a second Hands-Free profile becomes discoverable after deleting a previous Hands-Free pairing as expected. (59412)
- Fixed an issue that might cause the device to not connect to Ethernet if put in the Ethernet dock while resuming. (74050)

USB Corrections

- Now if a USB Mass Storage device is connected to a suspended device through a hub, the USB device is properly (re)mounted on resume. (60597)
- Fixed an issue to prevent device to not connect to a PC over Activesync/WMDC resuming from single slot dock. (74045)

Wi-Fi Corrections

- Now Wi-Fi channels setting is maintained at reboot also for ETSI models. (73172)

Miscellaneous Corrections

- Now RDP password setting is maintained after warm boot. (70832)
- Maximum size of the system RAM memory for WEC 7 is 128MB due to MS design. (64299)

Skorpio™ X4 Windows Embedded Compact 7.0 version 1.20.065.05 International

ENHANCEMENTS

Miscellaneous Enhancements

- Upgraded Windows Embedded Compact 7 to Update 65. (72318)

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- Updated radio adapter driver to MCP-8.0.0.47_Release_3.3 version. (72562)
- Updated radio adapter firmware to 4.2.3-Rev 8.9.0.0.44 version.
- Updated radio adapter utility to 9.2 version.
- Updated Avalanche Enabler to 5.3-97 version. (72040)
- Implemented USBLAN PC Connection Control protocol. (73152)
- Now device supports also previous Ethernet cradle chip. (71883)

CORRECTED DEFECTS

Bar Code Decoding Corrections

- Now the 2D scanner can decode QR Code labels even if Data Encoding is set to “Shift JIS”. (48630)

Communication Corrections

- Fixed an issue preventing Bluetooth Hands-Free profiles to not automatically reconnect after a resume. (59406)

USB Corrections

- Fixed an issue preventing device to get an internet connection via USB ActiveSync connection. (71890)

Wi-Fi Corrections

- Fixed an issue causing Wi-Fi profile connection to fail if more than one Wi-Fi profile was configured in WCU. (61559)

Miscellaneous Corrections

- Now RDP dialogs fit correctly the screen size. (59356)

Skorpio™ X4 Windows Embedded Compact 7.0 version 1.12.065.01 International

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Skorpio™ X4 Windows Embedded Compact 7.0 version 1.11.064.01 English

ENHANCEMENTS

Miscellaneous Enhancements

- Updated radio adapter driver to MCP-8.0.0.47_Release_3.0 version.
- Updated radio adapter firmware to 4.2.3-Rev 8.9.0.0.43 version.
- Updated radio adapter utility to 8.9 version.

CORRECTED DEFECTS

Bar Code Decoding Corrections

- Fixed an issue that may cause the illumination of the 1D scanner to stay on after removing the device from the dock and then scanning. (65002)
- Now the 2D scanner transmits the linear component of GS1-128 with CC-B Composite labels also when AIM IDs are enabled. (65396)

Power Management Corrections

- Fixed a problem that may cause the device to suspend immediately after pressing the power key to resume. (64351)

Wi-Fi Corrections

- Fixed an issue in WCU that prevented special characters to be inserted as SSID. (58802)
- Fixed an issue causing the device failing to resume with black screen after using ScanToConfigure to configure Wi-Fi. (71414)

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Skorpio™ X4 Windows Embedded Compact 7.0 version 1.00.064.06 English

First production release

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