Release Notes

Release Note: Windows CE 6.0 Version 1.90
Product Involved: Falcon™ X3
Description: Falcon CE Windows CE 6.0 Version 1.90 Firmware Release
Business Unit: Mobile

Distribution Date: September 1, 2014
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Falcon™ X3 Windows CE 6.0 version 1.90.024.05 International

1. COMPATIBILITY

- For use on Falcon X3 Pilot or Production units.

**NOTE:**

**UPDATING WITH THIS FIRMWARE WILL REPLACE YOUR BOOTLOADER WITH A NEWER VERSION.**

Bootloader upgrade steps:

\\\[IMPORTANT\\] Be sure that the mobile computer has at least 58 MB of free space in flash available for the update process.

\\\[IMPORTANT\\] 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.

\\\[IMPORTANT\\] 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.

\\\[IMPORTANT\\] Download and install Datalogic Firmware Update utility version 4.8.2.0 or newer. Older versions of DFU will not work with firmware version 1.80 or newer.

1. Launch the Datalogic Firmware Update utility on the PC.
2. Explore to and select the Falcon X3 Windows CE “nkINTL.img” file, version 1.82 or newer.
3. The main battery must be well charged or you must use the device in a powered dock or with a USB rapid charger.

4. Connect the Falcon X3 to the PC using the dock and USB cable or RS232 cable, or using a Handy-Link USB client cable.

5. (Optional) Click the Query button to validate communication.

6. Click the Update button on the DFU.

7. Wait for the update to complete and for the device to reboot.

8. Performing a clean boot on the device is not necessary, but it is recommended. Clean boot erases all your data and applications, so please backup any relevant data before proceeding with a clean boot.

2. ENHANCEMENTS

2.1. Bar Code Decoding Enhancements

a. New capabilities have been added to 2D scanners to distinguish ISBT-128 labels and concatenate pairs of labels when very particular conditions are met.

b. QR Code implements a new parameter called "Encoding" which can allow correct decoding of QR Code labels with Japanese or Cyrillic double-byte characters.

c. Users can now select "None" for the Symbology ID of any symbology.

d. Devices with 2D scanners implement a new parameter to optimize reading bar code labels on displays.

e. The Decoded Data window has been improved, displaying a list of recently decoded label data that can be scrolled through, and offering the ability to view much more data for large 2D labels that have been decoded.

2.2. Other Enhancements

a. The Laird/Summit software has been updated to version 3.4.6.12 Wi-Fi drivers.

b. The Laird/Summit Wi-Fi radio's default profile has been changed to enable 802.11abg operation.

c. Microphone gain has been adjusted to optimize Voice over IP (VoIP).

3. CORRECTED DEFECTS

3.1. System Corrections

a. Audio is now correctly routed to a connected rugged headset when resuming.

b. AutoStart and AutoCAB now work correctly if the user removes and reinserts the...
battery during a cold boot.
c. Corrected a problem with the numeric keyboard that resulted in slow typing after unlocking the keyboard.
d. The rugged headset driver has been updated to eliminate radio emissions from the rugged headset itself when it is in use.
e. Remote Desktop Protocol now supports transmitting Page Up and Page Down keystrokes to the remote computer.
f. The "F_OnTop" key map correctly supports F1 and F2 keys.

3.2. Bar Code Decoding Corrections

g. Fixed an infinite loop when scanning GS1 DataBar Expanded labels with bad Application Identifiers which are then converted to GS1-128.
h. The check digit is now correctly suppressed on the EAN-8 linear component, if so configured, when decoding an EAN-8 label with a Composite Component.
i. Decoding of Codabar labels is enhanced.
j. On Falcon X3’s with 2D scanners, fixed a problem where the center of scanning was not aligned to the laser cross-hairs.
k. If an application uses the keyboard wedge to receive bar codes, the byte 0xEC is no longer entered before the data string.
l. Label programming now works correctly on 2D scanners when Minimum Settings set in the Decoding control panel applet.
m. MSI’s minimum allowable value for the Min and Max fields is now 3.
n. A problem in the logic used to correct Decoding applet’s Max field values that were too large has been corrected, now setting the value to the maximum allowed for the Max field for each symbology.
o. Fixed an incorrect Registry entry affecting UART communication with the SE1524-ER advanced long range scanner.
p. For devices with 2D imager, the ISBN+5 labels now transmit their add-ons.
q. Length parameters are now correctly overridden when setting Interleaved 2/5’s “Enable Case Code” parameter.
r. AIM ID extended codes for Codabar, Standard 2/5, and Interleaved 2/5 have been corrected.
s. Group Separator Substitution now correctly handles the space character.

3.3. Power Management Corrections

a. The “Low Battery” warning now appears when it should.

3.4. Communications Corrections

a. Corrected an intermittent loss of network session authentication credentials which
would cause a device freeze when trying to access a file server.
b. Implemented Laird Software version 3.4.6.12 Wi-Fi drivers, which fixes many
defects, including:
   a. Fixed a problem in 802.11d worldwide mode channel selection for country
code advertised in beacons.
b. Fixed an exception if CertPath was not set.
c. Fixed a problem with 802.11d worldwide mode for beacons in China.
d. Fixed a failure to display the radio mode in SCU.
e. Fixed a problem in the supplicant with higher encrypted certificates.
c. Fixed a problem where the supplicant was not starting when the radio was enabled
   after a warm boot.
d. Corrected a defect in support for new Ethernet controller chips in Ethernet cradle
   adapters and multi-slot docks.
e. The Headset Profile has been removed from the Bluetooth Manager, replaced by the
   Hands-Free Profile.

3.5. SDK Corrections

   a. Fixed an infinite loop when scanning GS1 DataBar Expanded labels with bad
   Application Identifiers which are then converted to GS1-128.
b. ActiveSync now reconnects correctly to ActiveSync/Windows Mobile Device Center
   after resetting the device by using the KernelIoControl() function.
c. AIM ID extended codes have been corrected in the Java SDK.
d. AIM ID extended codes have been corrected in the C SDK.
e. AIM ID extended codes have been corrected in the .NET SDK.
f. .NET SDK: DecodeHandle.GetAIMIdentifier now returns the correct AIM ID for
   Datamatrix.

3.6. DCU, DDU, DFU, DL Buttons, and PAL Corrections

   a. When “Auto warm boot to apply settings” in DCU is enabled, ActiveSync/Windows
   Mobile Device Center now reconnects after the device warm boots. Note: requires
   DCU 4.1.5 or newer.
b. ActiveSync/Windows Mobile Device Center now correctly disconnects when Windows
   CE devices reboot after applying a DCU configuration that triggers the device to
   reboot.
c. DCU now allows setting the “Group Separator Replacement” character to a printable
   character.
d. In DCU, for devices with 2D scanners, Code 128’s maximum allowable value for the
   Min and Max fields has been changed to 55 from 80.
e. DDU no longer launches several instances of its Advanced dialog if the user double-
taps on the Advanced button.
f. DL Buttons settings are now correctly applied to the device when DCU updates the
3.7. Internet Explorer and Locked Web Browser Corrections

a. The locked web browser now correctly opens as a normal window when “Full Screen” is not selected.
b. The locked web browser’s text box now accepts the Space character or the Period character.
c. The Taskbar is hidden when WebAppLock launches, leaving a gap where the taskbar was. The Taskbar is slow to display when exiting WebAppLock. Workaround: use the locked web browser.
d. WebAppLock’s “Trap keys” function does not work when using ActiveX. Workaround: use the locked web browser.
e. ActiveX scan events do not work in WebAppLock. Workaround: use the DL_SCAN metatag, this correctly receives scanning events.

3.8. Third-Party Application Corrections

a. Wavelink Avalanche is upgraded to version 5.3-53, correcting a problem that resulted in a freeze at start-up.
b. DHCP settings are lost after a reboot if set by Wavelink Avalanche Enabler.
c. Repaired a memory leak in Avalanche enabler that could crash the system after several days of use.
d. Wavelink Avalanche no longer writes to a log file on reboot.
e. DHCP settings are lost after a reboot if set by Wavelink Avalanche Enabler.

4. FILES

- nkINTL.img: Falcon X3 Windows CE International version 1.90
- ReleaseNote_FX3_WCE_1.90_Firmware.pdf (this document)

5. OTHER NOTES

Other Dependencies:

- Datalogic Firmware Utility 4.8.2.0 or newer
- Datalogic Configuration Utility 4.1.6.0 or newer
- Datalogic SDK v1.9.0.1 or newer
6. SUPPORT

Datalogic Mobile SW Download area:


Datalogic Mobile Support:

7. HISTORY

7.1.   Falcon™ X3 Windows CE 6.0 version 1.86.072.02 International

CORRECTED DEFECTS

Miscellaneous

- Corrected the problem that prevented the rugged headset from working after suspending and resuming.

7.2.   Falcon X3 Windows CE Version 1.85.072.03

ENHANCEMENTS

Miscellaneous

- Added new locked web browser with enhanced support.
  - Kiosk mode functionality, including locking the Task Bar and Start menu.
  - Configurable context menu
  - Whitelist of allowed web sites
  - Extends Microsoft® Internet Explorer
  - Configurable by new controls in Datalogic Desktop Utility and Datalogic Configuration Utility
- On devices with 2D imager, the pick list defaults were disabled to provide snappier scanning.
- Added DecodeSPI.setParamString method to the .NET SDK to set label prefix, suffix, and separator strings.
- In the .NET SDK, added another ReadString overload to provide the extended AIM code ID information.
- Updated Wi-Fi Summit drivers to 3.3.32 to improve synchronization and roaming issues.
- Improvements to the Code 128 decoder were made for devices with laser scanners to help read labels on curvy surfaces. We provided a new configuration in the General Options page to enable it.
- To improve the 2D scanner performance, the Postal Codes, GS1 Databar Limited, and Maxicode symbologies have been disabled by default. QR Code symbology is now enabled by default.
CORRECTED DEFECTS

Bar Code Decoding

- Corrected a decoding defect on devices with a 1D scanner that prevented reading poor grade Code 128 labels.
- Corrected decoding defect on devices with Laser and 2D imagers that caused poor grade Code 39 labels misread.
- Corrected an error on Falcon X3 devices with long range scanners that prevented reading Code 128 bar code labels with the “&” character as the first character.

DL Buttons, DCU and DDU

- Corrected an error that caused Alt+6 to disappear after DCU changes its action.
- Corrected a DCU error that prevented a function key such as F1 to open DDU applet.
- Removed WAL as the default application in DDU AppSelector.
- DL Buttons is now able to assign the pistol trigger with all of the available configurations.
- In DCU, the "Label Prefix," "Label Suffix," and "Data separator" controls now allow the user to set printable characters.

Miscellaneous

- Corrected an error that prevented the Avalanche Scan-To-Configure from working correctly.
- Avalanche now implements the Wavelink Task Bar to support Mobile Device Profiles that configure the feature.
- Corrected the Autostart function to accept NULL characters at the end of an Autostart.ini file.

7.3. Falcon X3 Windows CE Version 1.82.072.02

ENHANCEMENTS

Internationalization

- Implemented Multi-language User Interface support for Windows CE. Now the system supports eleven different languages.
- DCU now can set the language and locale configurations.

Wavelink Avalanche

- Updated Avalanche client to version 5.3-12.
Several improvements to Scan To Configure application.

Miscellaneous

- The Bootloaders are now incorporated into the nkINTL.img file. “Update.DMG” files are now obsolete.
- Implemented the keyboard lock feature. The status bar will display a keyboard lock icon when locked. Whenever the user presses a key while the keyboard is locked, the center LED will briefly flash white. Warm boot and keyboard unlock key sequences are still available.
- Improved the system to prevent suspending if the device is dropped on the floor.
- Added regsvrce.exe to the firmware so that users can register COM components.
- USB Mass Storage device capabilities were added to Windows CE devices. When enabled, the PC will be able to view the Micro-SD directly without ActiveSync.
- The “FlashDisk” directory name can be changed by modifying a Registry entry.
- Summit Wi-Fi driver has been updated to version 3.03.24.
- Updated the Ethernet dock drivers to support future Ethernet docks.
- Added Microsoft VoIP components.
- Added Microsoft Windows CE OS updates to September 2012.
- Processing performance has been improved in most functional areas.
- On devices with 2D scanners, the AIM ID is no longer automatically prepended to GS1 128 and GS1 DataBar family labels; the label ID is now user configurable to be prepended or appended to any symbology, or to not be prepended or appended.
- The Falcon X3’s Good Read Beep frequency has been changed.
- The Falcon X3’s battery consumption has been reduced with decreased keyboard backlight intensity being the only obvious change.

CORRECTED DEFECTS

Bar Code Decoding

- Factory Default, Minimum Settings, and Maximum Settings now configure the Wedge settings.
- The Clipboard setting is now persisted through a warm boot or cold boot.
- Conditional Add-on configurations now fully purge when the user deletes all conditions from the Decoding applet.
- On devices with 2D imager scanners, PDF417 will output binary data, the same as older versions, without translating it to Unicode data.
- Devices with 2D scanners now decode UPC/EAN with Composite Component bar code labels.
- Devices with 2D scanners now decode GS1-128 labels with Composite Component labels.
On devices with 2D scanners, GS1-DataBar Omnidirectional Stacked labels now decode when “Convert to GS1-128” is enabled.

On devices with 2D scanners, corrected an issue where the Green Spot and decode LED would remain on after reading the Factory Defaults configuration label while Release Scan mode was active.

On devices with 2D scanners, corrected AIM ID problems with GS1 Data Matrix.

On devices with 2D scanners, corrected the invalid parameter error when scanning a GS Substitution to NULL configuration label.

On devices with 2D scanners, added Checksum and Send Checksum to Standard 2 of 5 configurations.

On devices with 2D scanners, “+2” and “+5” add-ons can read more often when “Require Extensions” checkbox is not enabled.

Corrected errors when scanning programming labels after setting the Send Code ID.

On devices with 2D scanners, scan data is no longer corrupted when decoding GS1 DataBar Expanded labels with “Convert to GS1-128” for labels longer than 42 characters.

Devices with 2D scanners can now decode the maximum size GS1 DataBar Expanded barcode labels.

Devices with 2D scanners now can decode large GS1-DataBar Expanded Stacked barcode labels.

On the Falcon X3 running Windows CE, the 2D scanner’s illuminator will no longer be on during targeting in Release Scan mode.

Corrected a defect that caused small delays in triggering the Falcon X3’s XLR (Lorax) decoding module.

The Falcon X3’s XLR (Lorax) decoding module no longer turns on and stays on when restarting after removing the battery when the device is not suspended.

On the Falcon X3 with the XLR (Lorax) decoder, corrected miscellaneous errors in GS1-128 decoding of function characters.

**DCU and DDU**

DCU can now disable DDU’s Application Selector.

Corrected miscellaneous defects with DCU configurations.

Time zones in DCU now match time zones from 1.80 and newer devices.

Corrected minor issues with Postal and Micro-QR Code bar code configurations in DCU.

DCU can now automatically reboot the device even when the DDU configuration disables DDU.

DCU now configures decoding parameters added to the Decoding applet recently.

The “Show/Hide SIP” hot key functionality now works correctly.

Corrected issues with the DDU’s Application Selector password protection.

Corrected issues with DDU restoring to defaults (“Set Default” button).
- Corrected issues that allowed the Taskbar to unhide in certain conditions.
- Time zone is no longer corrupted when applying a pre-1.80 DCU configuration file to a 1.80 or later MUI Windows CE device.
- Label Prefix, Label Suffix, and Data Separator values are no longer corrupted when applying a pre-1.80 DCU configuration file to a 1.80 or later device.
- Time zone is no longer set incorrectly when applying a pre-1.80 DCU configuration file to a 1.80 or later device.
- DDU’s user interface has been rationalized and clarified.
- DCU allows users to configure the Proxy Port to any value between 0 and 65535 for Windows CE devices.

**SDK**

- Corrected an issue with the Java SDK method DeviceAPI.setTriggerType.
- Corrected the SetSystemPowerState() function, allowing the device to suspend.
- Corrected issues with the C# and VB.NET object disposal that prevented proper cleanup when the application terminated.
- Using the Memor SDK, corrected issues with the Green LED and timeout.
- Using the Memor SDK, corrected issues with the setXMLDescription() method.
- Corrected an ActiveSync issue after calling the C SDK SetSystemPowerState to reboot.
- Corrected a rare lockup issue when setting the time zone or accessing file system programmatically.

**Miscellaneous**

- Windows CE devices can now downgrade from version 1.8x to 1.7x using Update.DMG files, but LDR.exe version 1.09 is required.
- Corrected defects that resulted in intermittent failures to complete reboots when connected to an Ethernet network.
- the 2D scanner from operating.
- Corrected a minor audio playback problem with the rugged headset.
- The battery icons now appear in the taskbar when enabled.
- PAL now stores its data in FlashDisk, and other corrections.
- Corrected an Avalanche issue controlling the DDU taskbar.
- Removed clean boot after performing warm boot. This clean boot did not reset the coprocessor.
- When the device is inserted into an Ethernet dock while suspended, it will now resume and automatically connect to the network.
- Corrected miscellaneous Avalanche and Scan To Configure defects.
- Corrected a never-ending wait cursor Internet Explorer when deleting history, cookies, or temporary files.
- Updates to the contents of microSD cards made while the File Explorer window was hidden are now displayed.
Fixed audio clipping when the Falcon X3 is inserted in a Powered Mobile Dock.

7.4. **Falcon X3 Windows CE Version 1.70**

**ENHANCEMENTS**

**Wavelink Avalanche**

- Avalanche Enabler v5.2-02 now included in the firmware image with the following corrections and enhancements:
  - Corrected the defect that caused the device to crash when processing INI file shortcuts.
  - Added support for EAP-TLS for Summit Radio based devices.
  - Added SaaS support.
  - Added Device Wipe support.

**SDK Enhancements**

- Added a compatibility SDK so that most applications built for Kyman, Skorpio, and Memor will work on newer Skorpio X3, Falcon X3 and Elf devices.
- New API’s were added to Cold Boot, Warm Boot, or Clean Boot the device.
- Added new Decoding SDK functions. See SDK for details.
- Added new Bluetooth, Wi-Fi, and Battery SDK functions. See SDK for details.
- Added C / C++, Mobility Kit (.Net), and Java SDK compatibly for Viper, Skorpio, and Kyman.

**Decoding Enhancements**

- Bar code Prefix, Suffix and Data Separator now can have up to 128 characters instead of the single character.
- Configurable Group Separator characters were added to GS1-128 bar code configuration and AIM ID are unified with earlier usage.
- "Enable Code 128 Extensions" was changed to "Enable GS1-128 Coupon Code Extensions" in the Decoding applet and DCU.
- Removed Codabar "Wide Gaps" feature from Decoder applet.

**Other Enhancements**

- Updated the QFE to December 2011.
- Bluetooth Hands-free profile is now available.
- Bluetooth Personal Area Network and LAN Access Profiles are now available.
- Touch Screen calibration is no longer required for each cold boot.
- Added more key combinations to DL Buttons.

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Added Falcon X3 keyboard map files for new Alpha-Numeric and Numeric keyboards.

CORRECTED DEFECTS

 Decoder

- 2D scanners: UPC/EAN labels with add-ons didn’t decode when Pick List Mode is enabled.
- 2D scanners: The upper-ASCII characters were not sent for Data Matrix, GS1-128 and PDF417 bar code labels.
- 2D Scanners: Codabar converted to CLSI didn’t transmit the first and last digits of the encoded label data.
- We improved PDF417 decoding to better handle non-printable characters encoded in the label.
- UPC/EAN bar codes with 128-digit extensions are not decoded or are decoded incorrectly. We have removed support for UPC/EAN with 128-digit extensions.
- The 1D and 2D scanners cannot read Codabar bar code labels with wide gaps. We have removed support for Codabar with wide gaps.
- 2D scanner couldn’t read Code 128 bar code labels after a warm boot.
- 2D scanner couldn’t read Aztec Runes bar code labels. We added this support.
- 1D Scanners: Code 128 labels continue to decode when Enable Code 128 is disabled and GS1-128 is enabled.
- 2D scanner could not read EAN-128 when the maximum limit was set for more than 55.
- On very rare occasions, the scanner would lockup, leaving the Green Spot on.
- The speed of reading bar code labels using Falcon X3 with Lorax scanners has improved.

WebAppLock (WAL) and Internet Explorer

- Registry ActiveX component features weren’t working correctly.
- All redirects go to the Generic redirect instead of to the specific redirects intended.
- DL_Warning metatag displays only one warning, but does not work again when the next alpha key is pressed.
- WAL didn’t fill the entire windows when the Taskbar was hidden on WCE.

SDK

- SDK: Compatibility Layer (Mobility Kit) - SetParameterString(Suffix, ”x”) didn’t work correctly.
- SDK: Compatibility Layer (C++) - Get/SetParameterStrings(<ParamID>, <value>) works with WRONG TYPES parameters.
- SDK: Compatibility Layer (.NET) the DLScannerSetup methods didn’t work.
- SDK: Compatibility Layer (.NET) - DLScanner.ScanEnable didn’t work.
- SDK: Compatibility Layer - DLScanner.BarcodeTypeAsAIMIdentifier didn’t work.
- SDK: Compatibility Layer (.NET) - the Started, Stopped and TimeOut events didn’t work.
- SDK C#: Device.GetBatteryThreshold always sets the threshold to 0.

Miscellaneous

- Microphone sensitivity was too soft in the Audio control panel applet.
- Incoming connections from Bluetooth devices didn’t work. This will help connecting to a Bluetooth bar code scanner.
- Remote Desktop dialog boxes were not the correct size making it difficult to use.
- DCU DLButtons settings are not applied on CE device if configured on PC.
- In DDU, Admin tab, the Enable checkbox now works.
- DDU didn’t restore the Start control if Hide button options were checked and DDU was disabled.
- RDP client windows were oversize so that it couldn’t be used.

7.5. Datalogic Falcon X3 Windows CE v1.65.053

ENHANCEMENTS

Wi-Fi

- Summit driver 3.3.11 improved the roaming capability.

Wavelink Avalanche

- Avalanche Enabler v5.0-18 now included in the firmware image with the following enhancements:
  - Periodic Update Restriction.
  - Improved Communication between a Device User and an Administrator.
  - Additional Device Information and Reports at the Avalanche Console.
  - Increased Network Security.
  - Additional DLM Device Configuration from the Avalanche Console.

- Added more Wi-Fi parameters to the ScanToConfigure applet.
Scanner Functionality

- Added 2D scanner capability in Windows CE when hardware is available.
- Added Scanner wedge mode – send bar code data to the clipboard.

Other Enhancements

- Updated the QFE to April 2011.

CORRECTED DEFECTS
Decoder and SDK

- Ability to set the SDK SetTriggerType to TRIGGER_NONE and it will disable the specified trigger.
- Scanner intermittently kept the Green Spot and red LED indicator on indefinitely.
- Asynchronously calling DecodeSoftTriggerStop function disabled the soft trigger capability.
- Falcon X3 units with Lorax scan engine had difficulties reading different length Code 128 labels one after another.

WebAppLock

- WAL is updated to revision M.
- Enter key didn’t work in WAL but did in IE.
- F-keys didn’t work in WAL.
- Metatags didn’t disable scanner triggers.

Miscellaneous

- Improved power management software resolved the occasional Wi-Fi radio down and battery charging issues.
- Wi-Fi remained externally disabled after disconnecting to ActiveSync.
- JavaScript OnClick function now works in IE.

7.6. Datalogic Falcon X3 Windows CE v1.60.053

ENHANCEMENTS

- Added Code Pages, fonts, and locales to Western European version.
- The keyboard map file factory settings will persist after a clean boot.
- New FN keyboard is now supported.
- WebAppLock can use the "@" symbol as a command-line option to designate the home page.
CORRECTED DEFECTS

- Corrected the issue regarding the loss of RAM contents after a warm boot.
- Corrected the communications issue with the smart battery.
- Corrected the lockup issue after DCU downloads the configuration contents to the Falcon X3.
- Corrected the C# SDK exception error when disposing of the decode handle.
- Corrected various Wi-Fi roaming issues.
- Corrected Wi-Fi susceptibility to noise issues.
- Corrected an intermittent problem acquiring a Wi-Fi IP address while the Wavelink Enabler is running.
- Corrected the Application Selector issue after DDU was enabled and closed.
- Corrected the USB communications issue with the Host computer when using a USB extension cable longer than 1 meter.
- Corrected the lockup issue after auto-suspending while in the dock.
- Corrected the USB enumeration issue when inserted into the dock while suspended.
- Corrected the firmware updating issue causing the co-processor not to update properly.
- Corrected the Bluetooth headset reconnection issue after power cycling.
- Corrected the issue where DCU settings may not take effect after auto warm boot was enabled.
- We improved the Wi-Fi performance and stability. You must now warm boot instead of power cycling when changing to the ThirdPartyConfig mode for it to take effect.
- Corrected the exception errors when WebAppLock closes.
- Corrected the status icon issues in AppSelector.
- Corrected Persisted Registry Clear button issue.
- Corrected the silent update configuration issues from DCU or Avalanche.
- Corrected the various Wi-Fi radio down errors.
- Corrected the issue where Avalanche and Scan to Configure required passwords to launch and exit the application.
- Corrected the time zone issue in DCU when updating the unit.
- Corrected the screen will fade on resume issue.
- While resuming, the display will no longer display a momentary white screen.
- Corrected the lockup with a white screen issue.
- Corrected the battery “Unknown” type issue that prevents the battery from charging.
- Corrected an issue with touch screen which on rare occasions could become unresponsive.
7.7. Datalogic Falcon X3 Windows CE v1.51.40

**ENHANCEMENTS**

- Added support for Release Scan in the Decoding applet for Falcon X3 with Lorax scanner.
- Pal is included in the firmware.
- Dash and status have been added to DDU, AppSelector and WebAppLock browser.
- Summit driver version is now v3.2.21.

**CORRECTED DEFECTS**

- Falcon X3 units with Lorax scanner can lose some of the Code 128 bar code data.
- The Falcon X3 intermittently fails to completely suspend and the user must reboot the device.
- When using DCU to update AppSelector with multiple applications, it would lockup the device.
- After selecting the keyboard map file, it didn't take effect unless the user presses the Apply button before pressing the Ok button.
- Falcon X3 units with Lorax scanner, the triggers didn't operate correctly after suspending.
- The Falcon X3 would lockup if DLM SDK DeviceSetTriggerType() was called at the same time as the user was scanning a bar code.
- The latest Falcon X3 main boards does not wait for Power key to boot after hardware reset and battery insertion, and scanner triggers without user interaction.
- When connected to an Ethernet dock, the Falcon X3 didn't make a network connection.
- Falcon X3 units with Lorax scanner didn't transmit the last digit of a Code 128 bar code label.
- On occasion, the Power applet didn't recognize the battery.
- DLM .NET SDK applications will not launch correctly if launched from a stand-alone application.
- Applications that were developed using Compact Framework 2.0 didn't work.
- Pistol trigger didn't start scanning when other triggers were changed.
- The Falcon X3 occasionally failed to completely suspend (right red LED remains on) when the device auto suspends in the dock.
- The Falcon X3 doesn't decode MSI with two checkdigits on units with Lorax scan engines.
- The Falcon X3 doesn't decode correctly when "Second check digit Mod 11" is selected on units with Lorax scan engines.
- Some status icons were blank in the WebAppLock browser.
- The latest Falcon X3 main boards (662583015) have an issue that the system may immediately turn on and fire the scanner after installing the battery when the user pressed the hard reset button.
The Falcon X3 doesn't play WAV files in the Media Player.

7.8. **Datalogic Falcon X3 Windows CE v1.45.40**

**ENHANCEMENTS**

- Added Lorax scan engine capability to the system.
- Added Decoding timeout event functionality to the SDK.
- WebAppLock was added to Falcon X3 Windows CE.

**CORRECTED DEFECTS**

- Corrected the problem on Falcon X3 Windows CE preventing applications developed for .Net Compact Framework 2.0 from working.
- Ethernet is now available in Falcon X3 Windows CE.
- Corrected a problem that prevented the USB Flash memory stick enumerating after a reboot.
- Control + Esc keys will now generate an Escape VKEY.
- Corrected a problem that caused the system to lose communication with the smart battery after DCU was used.
- Corrected a problem preventing the last digit of a Code 128 label from being transmitted on units with a Lorax scan engine.
- Corrected a problem that locked up the system when SDK DeviceSetTriggerType function was called at the same time the scan engine was scanning.
- Corrected a problem losing scanner data and parameter settings with units with a Lorax scan engine.
- Corrected a problem where the triggers and aiming beams got out of sync after power cycling on units with a Lorax scan engine.
- Corrected a problem that applications using the DLM SDK would lose scan data after the Decoding Settings applet opened and closed.
- Improved USB ActiveSync connectivity.
- Corrected Avalanche pre-licensing issues.

7.9. **Datalogic Falcon X3 Windows CE v1.42.40**

**ENHANCEMENTS**

- When the Power Key is pressed, the Red scanning LED will turn on for the time it takes the device to completely suspend.
- Improved Wi-Fi using Summit 3.02.09.
- Improved Wavelink Avalanche 5.0-6.
CORRECTED DEFECTS

- The Falcon can now run applications that require Compact Framework 2.0.
- Corrected the Wi-Fi radio down in SCU on resume.
- The AppSelector now operates in this version.