

---

# **Release Notes MC75x6 02.35.01 WM 6.1 Professional**

---

[Introduction](#)

[Description](#)

[Contents](#)

[Device Compatibility](#)

[Installation Requirements](#)

[Installation Instructions](#)

[Part Number and Release Date](#)

---

## **Introduction**

The released software v02.35.01 contains the images required to update MC75X6 devices to WM6.1 REV C.

MC75X6 Enterprise Digital Assistant (EDA) is a rugged handheld mobile device that incorporates a scanner and imager, color VGA display, camera, GPS and 3G WAN technologies in a single unit designed for the rigors of all-day, everyday usage. The MC75X6 delivers the latest version of the Microsoft WM 6.1 Phone Edition operating system, 802.11a/b/g and Bluetooth functionalities on all configurations.

## **Description**

### **General Enhancements:**

- Microsoft AKU 1.5.2 build 20963
  - WLAN Fusion version 3.0.0.0.304R supporting CCX v4
  - BTExplorer 2.1.1 Build 26835
  - MSP Agent 5.93, Airbeam 5.93, RD Client 5.93
- This software release has been tested on MSP 3.2 and passed MSP Compliance.
- WWAN HSDPA version (except Korean) - RIL v1.1.5.5, Mux 1.3.1.1, USB Client 1.0.9.2, RHA 0.32
  - Korean WWAN HSDPA version - RIL v1.1.5.5, Mux 1.3.1.1, USB Client 1.0.9.2, RHA 0.33
  - WWAN HSDPA Radio Configuration version (except Korean & Japanese) - HC25 Modem FW v2.050 - SW Rel2. Configuration

(Tue 28.04.2009)

- Korean WWAN HSDPA Radio Configuration version - HC25 Modem FW v2.052
- Japanese WWAN HSDPA Radio Configuration version - HC28 Modem FW v2.10
- WWAN HC25 Audio profile Firmware Update (except Japanese)
- v18.58.02
- Japanese WWAN HC25 Audio profile Firmware version
- v18.58.01
- GPS Firmware Update: SiRFLocClient3.5.0\_3.5.00.00-C17B1.07
- OS supports Internet Explorer 6 Mobile

Note: *Free memory (Program Memory) has been reduced because of Microsoft's requirement for a larger Page Pool for IE6. (Increased from 9MB to 15MB)*

ViewPort settings are changed to fit an IE Page on the screen.

- Changed IE Cache entries to take default values from MSFT (CacheLimit=5MB).
- IE Cache gets pointed to Persistent store (\Windows) so that we can have much larger data limit for IE browsing.
- ROM Compression algorithm changed to LZX from Xpress to meet the IMGFS free ROM space requirement.
- Bluetooth Headset support with VOIP / VoWLAN
- Updated Keyboard firmware for supporting external trigger handle. (new version 4.2)
- Support of 4GB & 8GB SDHC cards (High capacity) cards in Update loader.

Note: *This feature will be effective after the device is upgraded to this current release.*

- Added RS507 Whistler's Support (Bluetooth scanner)
- Removed Good Mobile Messaging shortcut (GetGOOD) from Programs

### **Features for supporting RS507 BT Scanner:**

#### **BTScannerCtlPanel App (Control panel app for configuring RS507 BT scanners):**

- The RS507 functionality will be disabled by default. Added an application that will let the user stage BT scanners as well as choose the port to use for BT communication.

#### **Features:**

Activates a new BT scanner driver and also creates a Serial Port Profile over which the terminal will communicate with the scanner (terminal is in server mode)

Allows the user choose the comm. port over which communication can take place. This is for advanced users who may already be using various BT virtual comm. ports

#### **Display\_BD\_Address App:**

- Allows the user to connect the RS507 BT scanner to the terminal by scanning the barcode displayed on the screen.

#### **BT Information App:**

- Allows the user to connect the RS507 BT scanner to the terminal by scanning the barcode displayed on the screen. BT Information application provides a command line option for customers who would like to launch the application programmatically and show barcode only. To display only barcode use '**ShowBarcodeOnly**' in command line argument.

#### **Notes:**

In BT Information & Display\_BD\_Address applications, the backlight is set to max when the barcode is displayed for better scanning and original state of backlight is reverted after window which displays barcode is closed.

BT Information & Display\_BD\_Address applications are compatible only with RS507 BT scanner. The onscreen barcodes generated by BT Information & Display\_BD\_Address applications cannot be decoded by any other scanner.

#### **Features/Fixes in Audio:**

- Fixed issue where-in device did not transfer audio to wired headset during a BT WAN call when using MS BT stack.
- SW AEC updates included.
- Increased Audio driver priority to be same as SDHX driver.
- Fixed: Microphone is muted after simultaneous operation of VOIP/WWAN call & either of the call is terminated.
- Fixed: BT recording feedback issue - When recording, voice can be heard from headset
- SPR 16570 Fix- AUDIOEX\_GetGain and AUDIOEX\_SetGain do not work to get and set audio gain properly. When setting gain via AUDIOEX\_SetGain API, then checking gain via AUDIOEX\_GetGain API, values are different.
- SPR 16415 Fix- AUDIOEX\_StartEchoCancellation and AUDIOEX\_SelectEchoCancellationMethod updated to support SoftwareEchoCancellation mode.

#### **Features/Fixes in Scanner/Imager:**

- Added support for the RS507 (handsfree Bluetooth 2D imager).
- Fixed ISBT concatenation issue.
- Fixed UPCEAN parameter verification issue.
- Updated DecoderId.dll. Fixes auto ISBT concatenation mode
- PixDLL version (5.10.102-1) with the following changes:
  - ï Pick list support for SE4500 block buster imager.
  - ï Fix for QR code stack fault.
  - ï QR code memory leak fix.
  - ï Japan code performance issue.

- ï Fix for data abort caused by partial decoding when a lower number of symbologies are enabled
- Fixed registry resource handle leak in CamHAL
- Fixed View finder scaling issue for Block buster.
- Added View finder rotate support for Block buster.
- Added fix for invalid decode attempt in CamScanPDD.
- Fixed: Some of barcodes I2of5 and D2of5 did not decode (2D SKU)
- Fixed: An exception is seen in the PixDLL when the RDClient is launched
- Fixed: When Read label timeout is smaller than beam timeout and timeout happens viewfinder will stay on.
- SPR 16280 Fix - 1D scanner terminal is blocked when scanning symbology I2of5 with less then 10 characters
- SPR 16320 Fix - 1D Scanner locks up entire device upon scanning a Codabar barcode.
- SPR 16050/17289 Fix - Improved imager performance when scanning an I2of5 barcode on red background.

#### **Features/Fixes in Camera:**

- Fixed: Camera brightness doesn't change instantaneously from one level to another.
- Updated Lens Correction settings
- Fixed 'Single Buffer' issue that doubled FPS.

#### **SystemInfo Applet:**

- Added support to display the proper locale information in ConfigInfo tab of SystemInfo applet.

#### **Serial driver:**

- SPR 16589 Fix: Com port is being closed immediately after data is sent to the Com Port buffer.

#### **KeyLight Applet:**

- SPR 16583 Fix: KeyLight applet settings doesn't persist on warm boot.

#### **USB Mass Storage Support:**

- USBFN driver modified in platform to expose Storage Card, Application and Cache Disk storage partitions on PC when USB client mode is Mass Storage.
- Modified USBConfig Applet to support switching between ActiveSync and Mass Storage Client Modes.

#### **MSR:**

- MSRAPI is updated to Support DCR7000-100.

### **GPS:**

- GPS Mux updated to fix enabling of autonomous mode and fix the SET ID in GPS\_WAN.

### **MC75x6 Specific Changes**

- New mDoc Flash support for upcoming higher flash memory (512MB MDOC Flash)
- Added support for external (SLED) trigger.
- Fixed: Pico Imager startup issue.
- Updated MSRMC50 dll as well as the MSRAPI32 dll (platform) to support the DCR 7000-100 (Debit only).
- SPR 17280 Fix - MSRMC50.DLL v2.09 update to fix memory leak related issues.
- Improved performance for VOIP handset and speakerphone (SW AEC updates)
- Fixed Roaming issue for Rogers Canada.
- Fixed: i Can't establish the data connection on some Spanish Telefonica SIM cards

*Note: the following reg key is also need explicitly for this to complete the fix:*

```
[HKEY_LOCAL_MACHINE\Software\Microsoft\RIL]
"SetCallControl"=dword:2
```

- SPR16486 fix: Updated HC25 WAN radio configuration to resolve WAN radio shutting off issue.

*HSDPA terminals need to be updated with modem configuration version 042809.*

*The terminal's modem configuration version can be checked using HSDPAConfigTool which is available for download.*

- SPR15982 Fix - lineGetCurrentSystemType API returns an error if the radio is turned off
- SPR 16133, 16817 Fix: IrDA Auto Detect issue. PC will rarely Auto Detect IrDA from MC75.
- SPR 16716 Fix - MC75 is not able to receive any data when using COM3 as IrDA for communication
- Fixed: Headset Audio gateway service was not being displayed in available services list in BTExplorer.
- SPR16385 Fix - Low Audio Volume on BT Audio Gateway Profile.
- Removed *SAMPLEMUSIC* and *WINDOWSLIVEIM* optional components in Chinese Simplified and Chinese Traditional Phone builds (75X6 cp and ct) to meet Microsoft IMGFS LTK Free ROM space requirement.

## **Bluetooth - BTE Explorer Release Notes 2.1.1 Build 26835**

### **Features/Fixed Issues in Bluetooth:**

- Added The IrMC Sync profile is enabled now by default in Phone terminal.
- Fixed issue where-in after removing a Hands Free AudioGateway, BTE Explorer was not allowing the user to re-create a new HF AG service.
- SPR 16287 Fix: Four functions which were previously deprecated from CustomerDLL: PowerBTRadio, SetMousePointer, AddFavorites, and DeleteFavorites have been returned to CustomerDLL.
- Fixed - Interaction issue between the HandsFreeProfile and the Parrot car kit during the initial connection.
- SPR16431 Fix: Resolved memory leak issue while using BTE Explorer Provisioning API commands.
- SPR16495 Fix: Issue printing 7 and 10 page report to Zebra RW420 Via Bluetooth. This change allows a registry key to be set that causes the VCOMM driver to attempt a flush operation prior to executing a requested purge operation. This is required in cases where the .NET wrapper is used to access the VCOMM serial port. This .NET wrapper issues a purge operation during the close process. In some cases this can cause data that is still buffered in the VCOMM driver to be discarded. This registry value sets a maximum amount of time (in milliseconds) to wait for this data to flush prior to purging the buffer. If the value is absent or set to zero (0) the VCOMM driver will revert to the default behavior (purging the buffer immediately upon receiving a purge operation request).  
This registry value is as follows. Note that this value must be DWord value:  
HKLM\Software\Stonestreet One\BTE Explorer\Device Settings\FlushTimeoutOnVCOMMPurgeMS (DWord)
- SPR16519 Fix: Static IP settings were lost after warm boot.
- SPR16829 Fix: Issue that was returning incorrect local com port number associated with a favorite connection.
- SPR16751 Fix: The Bluetooth icon disappears occasionally on a warm boot.

### **WLAN - Fusion Release Notes 3.0.0.304R:**

- Initial Fusion 3.0 release
- First Fusion version for Jedi radios certified for CCX support
  - Certified CCX support of the v4 feature set
- IPv6 support
- FIPS 140-2 Level 1 Certified
- Static Channel Masking
- Integrated Rapid Deployment Plug-in
- Field upgradeable regulatory rules
- Infrastructure Value Add features i Fast Roaming, Smart Scan
- Improved Profile Editor

- Certificate Marketing
- Improved Version Manifest

### **Fixed Issues in MSP Agent 5.93:**

- SMS staging support for AirBeam client
- Updated Fusion Public setting handler with change to support unlocking/locking Fusion options and profiles.
- Fixed issue where DHCP options 66/67 not applied correctly when Agent.AirBEAM settings applied. Issue only affected end users trying to RD client to configure AirBEAM settings to enable DHCP options 66/67. Issue did not affect MSP users.
- Added logic to display 'Remove device from cradle' message in RD when Fusion 3.0 settings are staged.
- Fixed issue where scanning some barcodes in RD through wedge mode caused the scan dialog to terminate without processing the barcode(s).
- Added support for Status attributes.
- Modified support for RS507 scanner to prompt RD user to connect/pair scanner.
- Changed abboot.exe startup delay from 5 to 10 seconds to resolve issue creating \Application\AirBeam folder.
- Added optional logic to use ExitWindowsEx() to reboot instead of CAD.DLL reboot call.
- Added cab mode installer to work around ActiveSync downloads of abup30.
- Added support for Fusion 3.0
- SPR 16293 Fix: Added logic to force updated regDoc to be uploaded to new relay server when a relay server is changed (Assembla 433)
- Added change in RD to recognize Utah WLAN setting as a network setting.
- Added new Utah adapter into adapter list and dhcp options reg file.
- Fixed issue with buffer overrun on relay server name in logic to apply relay server options file.
- Added logic to avoid sending invalid attribute values to MSP server. (Assembla 339, 388, 390)
- Added ability to select scanner in RD client (Assembla 405)
- Modified MSP agent (30agent.exe) to provide return code (Assembla 415)
- Modified MSP agent (30agent.exe) to support processing check-in packages (-C) when discovery document upload is enabled (-Rn). (Assembla 416)
- Fixed issue where RD locks up on scan profile screen when another process has scans enabled in foreground mode for Code128 or PDF417. Issue was first reported with Data Wedge running in foreground

mode. RD will now display an error message (Scan error: -8). (Assembla 414)

- SPR 15970 Fix: Fusion plug-in was modified to address issue with Fusion settings specify International (Allow Any Country) country code. (Assembla 386)
- Added logic to MSP client and RC client to power down GPRS phones before rebooting. A new component (WanPower.exe) has been added to the MSP client components. (Assembla 332)
- Updated the GPRS plug-in to workaround an issue where the plug-in power management logic did not work. (Assembla 358)
- Added change to logic that closes applications prior to rebooting to not close the i One Touch Activationi . Closing this window was causing MSP agent to exit before rebooting.

### Notes:

- SPR 16010: To obtain more granular Signal strength (RSSI) in Decibels (DB) the following registry key can be added.  
[HKEY\_LOCAL\_MACHINE\Software\Microsoft\RIL]  
"ForceUseOfCSQ"=dword: 00000001
- WWAN (Modem & AudioProfile) & GPS Firmware updates are not part of OSUpdate and are not modified as part of OSUpdate. These are available as separate installable downloads.

## Contents

1. 75x6w61HenUL023501.zip UpdateLoader Package contained in a ZIP file.
2. 75x6w61HenAB023501.APF Package file for deployment using AirBeam.

## Device Compatibility

This software release has been approved for use with the following Symbol devices.

| Device | Operating System   |
|--------|--------------------|
| MC75X6 | Windows Mobile 6.1 |

## Installation Requirements

MC75X6



## **Installation Instructions**

To update MC75X6 WM 6.x device to a newer version of the OS:

1. Copy Update Loader Package into \Temp or \Storage Card and run the Startupldr.exe.
2. The update will take about 5 minutes to complete. Please do not remove the device from A/C power during this time.

## **Part Number and Release Date**

20 August 2009

75x6w61HenUL023501.zip

75x6w61HenAB023501.APF