MC9090-G RFID Customer Release Notes
For Software Release Version 1.2

Customer Release Notes for Version 1.2	Released March 2008

Contents

Introduction

The *Customer Release Notes* are designed for the Motorola MC9090-G RFID mobile computer. The *Customer Release Notes* contain new features, major bug fixes, and a list open issues (not resolved at the time of the release).

The latest support documents updates are available at: http://www.symbol.com/manuals

- MC9090-G RFID Integrator Guide (PN: 72E-89963-xx)
- MC9090-G RFID Customer Release Notes (PN: 72E-899664-xx)

Enhancements:
- Gen2 support added to RFID DLL
- Updated RFID Demo.exe (sample application - ver 1.9)
- Updated Gemini_RFID.exe (sample application – ver 5.20)
- RFID dll version 3.18
- Fusion Build 2.5.2.0.071R-WM-PHOTON

Software Download

There are 2 ways software can be downloaded onto a device; using an SD card or using an AirBEAM upgrade. The software update package includes the files required to update the MC9090-G RFID Reader. Please note that an SD card or AirBEAM is required in order to upgrade the readers. Select the appropriate package for the update method being used. The Software Release Files table lists the updated software files contained in the update packages.

The software download is available at: http://support.symbol.com

Note: The entire software update bundle must be used. Do NOT mix the update files with previous releases.

Version	File	Date	Size
Software Update Packages			
SD Card Update Package	9090GRw50SD120003.zip	2/08	25 Mb
AirBEAM Update Package	9090GRw50AB120003.zip	2/08	25 Mb

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Software Release Files:

Image Type	Version	File Name	Date
Application Partition	00.00.01	9090GRw50LenAPP212.udl.bin	2/08
Operating System	01.39.0001	9090w50LenOS013901.sig	2/08
Monitor Lite	01.48.448	9090w50LenML0148XX.sig	9/07
Power Micro	11.27.01	9090w50LenPM112701.bin	9/07
Splash Screen	00.00.16	9090w50LenSC000016.bmp	9/07

MC9090-G RFID Software Upgrade

Installation Prerequisites

The following items are required to perform the update procedure:

- MC9090-G RFID mobile computer with external power supply
- SD Card
- Image Files
- StartUpLdr.exe application to flash the images
- CleanPS.bin application to reboot the mobile computer
- Pkgs.lst text file listing the images to flash onto the mobile computer
- MC9090-G RFID Integrator Guide (PN: 72E-89963-xx) available at: http://www.symbol.com/manuals

Notes: Not all of the files are updated every release. Read the release notes for information about which files were changed. There is not a specific order necessary when installing these files.

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Installation Instructions

This OS for the version 1.2 software update package is based on BSP 39. The update includes the files to update the MC9090-G RFID mobile computer.

SD Card, Package Re-Flash:

External AC power must be applied during this software image update procedure. Do not remove the device from A/C power during the upgrade:

1. Unzip the contents of 9090GRw50SD120003.zip file to the root folder of an SD card. *Please note only the files inside 9090GRw50SD120003 have to be copied, not the entire folder.*

2. Remove the Keypad and install the SD card in the SD card slot. See the *MC9090-G RFID Integrator Guide* (PN: 72E-89963-xx) available at: http://www.symbol.com/support, for detailed SD card installation instructions.

3. Use the external power supply and connect external A/C power to the device.

4. Navigate to the SD Card and start the STARTUPDLDR.EXE program.

Note: The update takes about 10 minutes to complete.

Upgrade the software image without AC power.

The "ULDRSETTINGS.CFG" is not required if ImageUpdate is being run on AC Power:

1. Unzip the 9090GRw50SD120003.zip file to the SD card root folder. *Note:* only the files inside 9090GRw50SD120003 have to be copied, not the entire folder.

2. Remove the Keypad (to access the SD card slot) and install the SD card. See the *MC9090-G RFID Integrator Guide Supplement* (PN: 72E-89963-xx) available at: http://www.symbol.com/support for detailed SD card installation instructions.

3. Navigate to the SD Card and start the STARTUPDLDR.EXE program.

4. Select the "ULDRSETTINGS.CFG" file. This file contains a flag "AllowUpdateOnBattery"

The flag *AllowUpdateOnBattery* set to 1 would allow Image update to continue on battery provided battery life is more than 90%.

Setting the flag *AllowUpdateOnBattery* to zero would not allow Imageupdate to continue. An update warning splash screen is displayed.

AirBEAM, Re-Flash:

AirBEAM zip file contains two AirBEAM upgrade files.

1. Install 9090w50LenAB013901.apf .This includes the OS, Splash and ML update packages.

2. Install package 9090w50RAppAB0212.apf. This updates the RFID components.

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Open Issues

The Customer Release Notes provide the user with known issues, and a listing of feature updates that have not been implemented. This list is an aid, but it not a complete listing of every issue.

	App/Tag Reads/etc	Issue	Frequency	User Impact / Workaround
		Open Issues		
1	Demo app application	Tag reads and writes on any memory bank using the RFIDDemo.exe will not work, when using the MC9090-GK0HJEFR6US.	Always	Use the MC9090-GK0HJEFR7US, if the demo application is being used. Or use the Gemini_RFID.exe application to accomplish simple tag reads/writes.
2	Demo app application	Writes to the log file, if log file option is selected does not work for tag reads or writes, if the MC9090-GK0HJEFR6US is used.	Always	Use the DRM Module MC9090-GK0HJEFR7US, if the demo application is being used for logging data to log files.
3	RFID DLL API's.	Occasional problem with MC9090-GK0HJEFR6US (Previous revision of hardware): Capability SetRFID_TAGCAP_G2_WORD _POINTER is showing **success** for values outside range instead of **Gen2 tag memory overrun** error	Intermittent error	Recommend that valid in-bound values only be provided when using on MC9090-GK0HJEFR6US (Previous revision of hardware).
4	RFID DLL API's.	Problem with MC9090-GK0HJEFR6US (Previous revision of hardware) Capability SetRFID_WRITECAP_G2_MEM_BANK_WORD_LEN is showing **timeout** from value 9 onwards instead of **Gen2 tag memory overrun** error.	Always	Recommend that valid in-bound values only be provided when using on MC9090-GK0HJEFR6US (Previous revision of hardware).

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Questions

For sales related enquiries, contact Motorola at 301 610-6100 (Monday-Friday 8:30 a.m. – 5:00 p.m. EST):
http://www.symbol.com/rfid

For technical assistance please call Motorola at 800-653-5350 (24x7 support line):
http://www.symbol.com/services/howto/howto_contact_us.html

Disclaimer

While Motorola has committed its best efforts to providing accurate information in this document, we assume no responsibility for any inaccuracies that may be contained herein, and we reserve the right to make changes to this document without notice.

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