

# BizTalk RFID Mobile Provider Release Notes For Software Release Version 1.0.0.7

## Release Notes for Version

Released July 2012

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### Introduction

This *Release Notes* is for the Biztalk Motorola Mobile provider v1.0.0.7

MotorolaProvider is a BizTalk RFID DSPI (Device Service Provider Interface) and enables the BizTalk Mobile RFID to interface with Motorola RFID LLRP based Readers (MC3190Z and MC9090Z).

Provider is designed to support the operations specified in BizTalk RFID Mobile Programming model and also extends the Motorola custom extension parameter & commands. Please refer the “DSPI Mobile Provider for Motorola RFID Readers” documentation for more details.

The *Release Notes* contains the features and known issues of MotorolaMobileProvider.

### Software Download

The version 1.0.0.7 software contains the BizTalk RFID Mobile Provider:

Version	File	Date	Size
1.0.0.7	<a href="#">BizTalkRFIDMobileProviderV1.0.0.7.zip</a>	July 2012	1.03 MB

### Contents of the BizTalkRFIDMobileProviderV1.0.0.7.zip file:

IMAGE TYPE	VERSION	FILE NAME	DATE
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## BizTalk RFID Mobile Provider Release Notes For Software Release Version 1.0.0.7

Cab File	1.0.0.7	Motorola.DSPI.Installer.CAB	17-July-12
SETUP (to deploy the CAB image from Desktop through ActiceSync)	1.0.0.7	BizTalkRFIDMobileDSPI.msi, Setup.exe	17-July-12

### Important Notes:

- This release is for MC9090Z and MC3190Z Handheld Readers which are enabled with LLRP.
- The Motorola BizTalk RFID Mobile Provider supports most of Provider commands. The commands which are not supported will be returned with Unsupported Command Error.
- The **ReadTagsApp** application provided by Microsoft BizTalk RFID Mobile can be used to test the inventory operation.
- The **ManagementApp** application provided by Microsoft BizTalk RFID Mobile can be used to view and configure the properties exposed via the provider.
- It is recommended to read the tag event asynchronously without blocking the Notification Event to get optimal performance.
- Setreadfilter allow filters upto a maximum tree depth of 5.

### Prerequisites

The following Items are required to use BizTalk RFID Mobile Provider

- Handheld Reader MC9090Z or MC3190Z with LLRP support
- .NET Compact Framework 2.0 Service Pack 2.
- Install Microsoft BizTalk RFID Mobile in the device. Please refer the link for more details on installation of BizTalk RFID Mobile <http://www.microsoft.com/downloads/details.aspx?FamilyID=fad06953-7bfa-477c-97c4-79972923bc46&displaylang=en>
- Disk space required on the device is On a Windows Mobile device, 2 megabytes (MB) for MS BizTalk RFID Mobile
- SQL Server™ Compact Edition 3.5 (SQL Server CE).
- The provider internally uses the Symbol.RFID3.Device.dll for the RFID Commands and Symbol.Barcode.dll for the Barcode Reading respectively. The following are dependency DLLs used and the later versions of these DLL can also be used.

#### RFID API3

- .NET DLL Symbol.RFID3.Device.dll v1.2.0.0

#### Barcode

- Symbol.Barcode.dll v1.6.1.16
- Symbol.dll v1.6.1.4
- Symbol.standardForms.dll V1.6.1.5

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### New Features

- Support for additional Provider commands
  1. setreadFilter command
  2. GetReadFilter command
  3. Vendor Extension waitTimeMillis for GetTags command
  
- Support for vendor extension to the tag-based commands, including
  1. Motorola.PC ,Motorola.TargetTag and, Motorola.IsBlockWrite for WriteID command
  2. Motorola.IsUnlockPermanent for lock command
  3. Motorola.MemoryBank for GetPartialTagData command
  4. Motorola.MemoryBank for GetTagData command
  5. Motorola.IsBlockWrite and Motorola.MemoryBank WritePartialTagData command
  6. Motorola.IsBlockWrite and Motorola.MemoryBank WriteTagData command
  
- Exposes advanced device functionality through the following vendor commands
  1. BlockErase
  2. AccessSequence
  
- Supported below provider property
  1. Setup Connection Timeout
  
- Supported below device property
  1. General Properties
    - Device Id
    - Description
    - Vendor
    - Air Protocols in Use and Air protocols supported
    - Request Timeout
    - Supported Transport Types
    - Reset to Factory Defaults
    - Debug Trace Level
  2. Inventory Control Related Properties
    - Enable Extended Data, Memory Bank Id, Memory Bank Passcode, Tag Data Byte Offset, Tag Data Byte Count
    - Maximum TagId Byte Count, Maximum Memory Bank Byte Count
  3. Event Processing Service properties
    - Filtering Enabled
    - Filter Synchronous Tags
    - Event Types Filter
    - TagId Match Pattern
    - Rssi CutOff
  4. Properties related to reader capabilities
    - Model Name
    - Is Utc Clock Supported
    - Is Block Erase Supported
    - Is Block Write Supported
    - Is Recommission Supported
    - Is Block Permalock Supported
    - Is Write User Memory Indicator Supported
    - Maximum Number of Operations in Access Sequence
    - Maximum number of pre-filters

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- Supported below source property
  1. Standard Properties
    - Source Enabled
    - Power Level
    -
  2. Antenna Configuration Related Properties
    - Gain
    - Receive Sensitivity
    - RF Mode
    - Tari
    -
  3. Singulation and Pre-filter Related Properties
    - Singulation properties: Tag Transit Time, Tag Population Estimation
    - Singulation properties: Enable State Aware, Inventory State, Select Flag
    - Pre-filter properties: Tag Pattern, Tag Pattern Bit Count, State Aware Action, State Aware Target, State Unaware Action, Bit Offset, Memory Bank
    - Pre-filter properties: Filter Index
    -
  4. RF Related Properties
    - Transmit Frequency
- Supported below vendor extensions for each tag Read
  1. Channel index
  2. First Seen Timestamp UTC
  3. Last Seen Timestamp UTC
  4. First Seen Timestamp UTC Uptime
  5. Last Seen Timestamp UTC Uptime
  6. PC
  7. XPC
  8. CRC
- Supported RSSIcutoff value as percentage property also.

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### Known Issues

1. Barcode functionality is not supported in the console based application.
2. In installing provider cab from PC, user needs to un-install and install setup.exe every time that needs to be installed in device. In future short cut menu will be added in the PC to install in multiple device without un-install the setup in PC (Enhancement)
3. No provision given to the user to get the EAS alarm notifications after NXP\_SET\_EAS operation
4. Installing the older version of provider upon latest version will not remove the latest version. The workaround is to un-install the latest version manually from the mobile ,open the RFID manager once and install the older version
5. Impinj QT Read/Write and NXP Change config Operations are not supported as part of operation sequence.
6. GetdefaultPropertProfile() and GetCurrentPropertyProfile() will return profile named "unnamed".It will not return the property profile
7. For BlockPermaLock operation in the accessSequence , the user/application developer must handle exception while retrieving vendor defined parameters for each TagReadEvent/tagListEvent

# BizTalk RFID Mobile Provider Release Notes For Software Release Version 1.0.0.7

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## Quick Reference Guide

Please refer the Microsoft BizTalk RFID Mobile Documentation to write Mobile Application and use Motorola BizTalk RFID Mobile Provider DLL.

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## Questions

For sales related enquiries, contact Motorola Inc. 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](http://www.symbol.com/services/howto/howto_contact_us.html)

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## Disclaimer

While Motorola Inc. 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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