

MATLAB[®] Builder[™] JA Release Notes

How to Contact MathWorks



www.mathworks.com Web
comp.soft-sys.matlab Newsgroup
www.mathworks.com/contact_TS.html Technical Support



suggest@mathworks.com Product enhancement suggestions
bugs@mathworks.com Bug reports
doc@mathworks.com Documentation error reports
service@mathworks.com Order status, license renewals, passcodes
info@mathworks.com Sales, pricing, and general information



508-647-7000 (Phone)



508-647-7001 (Fax)



The MathWorks, Inc.
3 Apple Hill Drive
Natick, MA 01760-2098

For contact information about worldwide offices, see the MathWorks Web site.

MATLAB® Builder™ JA Release Notes

© COPYRIGHT 2006–2012 by The MathWorks, Inc.

The software described in this document is furnished under a license agreement. The software may be used or copied only under the terms of the license agreement. No part of this manual may be photocopied or reproduced in any form without prior written consent from The MathWorks, Inc.

FEDERAL ACQUISITION: This provision applies to all acquisitions of the Program and Documentation by, for, or through the federal government of the United States. By accepting delivery of the Program or Documentation, the government hereby agrees that this software or documentation qualifies as commercial computer software or commercial computer software documentation as such terms are used or defined in FAR 12.212, DFARS Part 227.72, and DFARS 252.227-7014. Accordingly, the terms and conditions of this Agreement and only those rights specified in this Agreement, shall pertain to and govern the use, modification, reproduction, release, performance, display, and disclosure of the Program and Documentation by the federal government (or other entity acquiring for or through the federal government) and shall supersede any conflicting contractual terms or conditions. If this License fails to meet the government's needs or is inconsistent in any respect with federal procurement law, the government agrees to return the Program and Documentation, unused, to The MathWorks, Inc.

Trademarks

MATLAB and Simulink are registered trademarks of The MathWorks, Inc. See www.mathworks.com/trademarks for a list of additional trademarks. Other product or brand names may be trademarks or registered trademarks of their respective holders.

Patents

MathWorks products are protected by one or more U.S. patents. Please see www.mathworks.com/patents for more information.

Summary by Version	1
Version 2.2.4 (R2012a) MATLAB® Builder™ JA Software	4
Version 2.2.3 (R2011b) MATLAB® Builder™ JA Software	5
Version 2.2.2 (R2011a) MATLAB® Builder™ JA Software	6
Version 2.2.1 (R2010bSP1) MATLAB® Builder™ JA Software	7
Version 2.2 (R2010b) MATLAB® Builder™ JA Software	8
Version 2.1 (R2010a) MATLAB® Builder™ JA Software	10
Version 2.0.4 (R2009b) MATLAB® Builder™ JA Software	11
Version 2.0.3 (R2009a) MATLAB® Builder™ JA Software	13
Version 2.0.2 (R2008b) MATLAB® Builder™ JA Software	14
Version 2.0.1 (R2008a) MATLAB® Builder™ JA Software	15
Version 2.0 (R2007b) MATLAB® Builder for Java™ Software	16

Version 1.1 (R2007a) MATLAB® Builder for Java™
Software 19

Version 1.0 (R2006b) MATLAB® Builder for Java™
Software 22

Compatibility Summary for MATLAB® Builder™ JA
Software 25

Summary by Version

This table provides quick access to what's new in each version. For clarification, see "Using Release Notes" on page 2.

Version (Release)	New Features and Changes	Version Compatibility Considerations	Fixed Bugs and Known Problems
Latest Version V2.2.4 (R2012a)	Yes Details	Yes Summary	Bug Reports Includes fixes
V2.2.3 (R2011b)	Yes Details	No	Bug Reports Includes fixes
V2.2.2 (R2011a)	Yes Details	No	Bug Reports Includes fixes
V2.2.1 (R2010bSP1)	No	No	Bug Reports Includes fixes
V2.2 (R2010b)	Yes Details	Yes Summary	Bug Reports Includes fixes
V2.1 (R2010a)	Yes Details	No	Bug Reports Includes fixes
V2.0.4 (R2009b)	Yes Details	Yes Summary	Bug Reports Includes fixes
V2.0.3 (R2009a)	Yes Details	No	Bug Reports Includes fixes
V2.0.2 (R2008b)	Yes Details	Yes Summary	Bug Reports Includes fixes
V 2.0.1 (R2008a)	Yes Details	No	Bug Reports Includes fixes
V2.0 (R2007b)	Yes Details	Yes Summary	Bug Reports Includes fixes
V1.1 (R2007a)	Yes Details	No	Bug Reports Includes fixes
V1.0 (R2006b)	Yes Details	No	No

Using Release Notes

Use release notes when upgrading to a newer version to learn about:

- New features
- Changes
- Potential impact on your existing files and practices

Review the release notes for other MathWorks® products required for this product (for example, MATLAB® or Simulink®). Determine if enhancements, bugs, or compatibility considerations in other products impact you.

If you are upgrading from a software version other than the most recent one, review the current release notes and all interim versions. For example, when you upgrade from V1.0 to V1.2, review the release notes for V1.1 and V1.2.

What Is in the Release Notes

New Features and Changes

- New functionality
- Changes to existing functionality

Version Compatibility Considerations

When a new feature or change introduces a reported incompatibility between versions, the **Compatibility Considerations** subsection explains the impact.

Compatibility issues reported after the product release appear under Bug Reports at the MathWorks Web site. Bug fixes can sometimes result in incompatibilities, so review the fixed bugs in Bug Reports for any compatibility impact.

Fixed Bugs and Known Problems

MathWorks offers a user-searchable Bug Reports database so you can view Bug Reports. The development team updates this database at release time

and as more information becomes available. Bug Reports include provisions for any known workarounds or file replacements. Information is available for bugs existing in or fixed in Release 14SP2 or later. Information is not available for all bugs in earlier releases.

Access Bug Reports using your MathWorks Account.

Documentation on the MathWorks Web Site

Related documentation is available on mathworks.com for the latest release and for previous releases:

- Latest product documentation
- Archived documentation

Version 2.2.4 (R2012a) MATLAB Builder JA Software

This table summarizes what's new in Version 2.2.4 (R2012a):

New Features and Changes	Version Compatibility Considerations	Fixed Bugs and Known Problems
Yes Details below	Yes Summary	Bug Reports Includes fixes

MATLAB Compiler Runtime (MCR) Now Available for Web Download

The MATLAB Compiler Runtime (MCR) is now available for downloading from the Web to simplify the distribution of your applications or components created with the MATLAB® Compiler.

Direct your end users to the MATLAB Compiler™ product page to download the MCR, as opposed to redistributing or packaging it with your applications or components.

Changes in MCR User Data Interface Arguments for Compiling Parallel Computing Toolbox Applications

Parallel Computing Toolbox™ configurations are now referred to as *parallel profiles*, as of R2012a.

See “Profiles in Compiled Applications” in the *Parallel Computing Toolbox Release Notes* for complete information.

Compatibility Considerations

The older MCR User Data Interface argument `ParallelConfigurationFile` and `MAT` files will still be supported until Parallel Computing Toolbox documentation states otherwise, but note that if you use the `ParallelConfigurationFile` argument, you must supply a configuration `.mat` file, rather than a profile `.settings` file. If the `ParallelProfile` argument is used, a configuration `.mat` file or a profile `.settings` file can be used.

Version 2.2.3 (R2011b) MATLAB Builder JA Software

This table summarizes what's new in Version 2.2.3 (R2011b):

New Features and Changes	Version Compatibility Considerations	Fixed Bugs and Known Problems
Yes Details below	No	Bug Reports Includes fixes

Faster Installation of MATLAB Compiler Runtime (MCR) with Improved MCR Installer

The Application Deployment products now feature faster installation of the MATLAB Compiler Runtime (MCR) through improved MCR Installer technology. In addition to improved performance, the new installer provides a common interface for all platforms.

Support for Graphics Processing Unit (GPU) in Parallel Computing Toolbox Applications

MATLAB Compiler generated executables and components now benefit from better performance when used with Parallel Computing Toolbox applications. The improvement is due to support of the Graphics Processing Unit (GPU) feature.

For more information, see “GPU Computing” in the *Parallel Computing Toolbox User's Guide*, as well as the Parallel Computing Toolbox examples in the deployment user's guides for additional information about compiling your deployable application with GPU.

Version 2.2.2 (R2011a) MATLAB Builder JA Software

This table summarizes what's new in Version 2.2.2 (R2011a):

New Features and Changes	Version Compatibility Considerations	Fixed Bugs and Known Problems
Yes Details below	No	Bug Reports Includes fixes

Local Worker Support for Parallel Computing Toolbox Applications

MATLAB Compiler and the builders now support local workers in Parallel Computing Toolbox applications.

For information about this feature, see “Use a Local Cluster” for general information on Local Workers. Also, see the *Parallel Computing Toolbox User's Guide* for information about working with compilable PCT applications.

Version 2.2.1 (R2010bSP1) MATLAB Builder JA Software

This table summarizes what's new in Version 2.2.1 (R2010bSP1):

New Features and Changes	Version Compatibility Considerations	Fixed Bugs and Known Problems
No	No	Bug Reports Includes fixes

Version 2.2 (R2010b) MATLAB Builder JA Software

This table summarizes what's new in Version 2.2 (R2010b):

New Features and Changes	Version Compatibility Considerations	Fixed Bugs and Known Problems
Yes Details below	Yes Summary	Bug Reports Includes fixes

Include the MCR Installer from a Link on Your Local Network

This feature lets you add a link to an MCR Installer residing on a local area network. Adding this link allows you to invoke the installer over the network, as opposed to copying the installer physically into each deployable package.

See “Packaging (Optional)” in the *MATLAB Compiler User's Guide*, or in your respective Builder product User's Guide, for more details.

Tool Tips Available for WebFigures

Tool tips are now available for your convenience, as you work with WebFigures. See your product User's Guide and Example Guide for more information about WebFigures.

Changes to MWApplication Methods

In this release, `MWApplication.initializeApplication` is being deprecated. It is being replaced by `MWApplication.initialize`.

In addition, `MWApplication.terminate` is being added for special configurations where JVM shutdown hooks are not expected to run.

Compatibility Considerations

Calls to `MWApplication.initializeApplication` will generate warnings for R2010b. Make appropriate changes to your code as soon as possible.

For detailed information, see the Javadoc link
`com.mathworks.toolbox.javabuilder` on the MATLAB Builder™ JA
product roadmap.

Version 2.1 (R2010a) MATLAB Builder JA Software

This table summarizes what's new in Version 2.1 (R2010a):

New Features and Changes	Version Compatibility Considerations	Fixed Bugs and Known Problems
Yes Details below	No	Bug Reports Includes fixes

Deployment Tool Now Available from Command Line

You can now invoke the Deployment Tool GUI from the command line. See “Using the Deployment Tool from the Command Line” in the *MATLAB Compiler User's Guide* for more information.

Native Data Types Available for Cell Arrays and Data Structures

MATLAB Programmers now have the option of using native Java™ data types for cell array and data structure handling. These native types provide data in a more useful, easy-to-process output. See “Using Native Java with Cell Arrays and Struct Arrays” for more information about using the feature with MATLAB Builder JA.

Version 2.0.4 (R2009b) MATLAB Builder JA Software

This table summarizes what's new in Version 2.0.4 (R2009b):

New Features and Changes	Version Compatibility Considerations	Fixed Bugs and Known Problems
Yes Details below	Yes Summary	Bug Reports Includes fixes

Redesigned Deployment Tool GUI

The new Deployment Tool (deploytool) interface features intuitive task-based navigation, a cancellable progress dialog, fast loading of previously-created projects, and ability to add supporting files as folders. The GUI also features new context sensitive help.

Alternate Graphic Renderers Now Available

Graphic renderers Z-Buffer and OpenGL are now available for invocation. See “Supported Renderers for WebFigures” for more information.

Mac 64-Bit Support Available

Support for Macintosh® 64-bit processors is now available.

JRE Auto-Detection Available for Web Applications

The Java Runtime (JRE) auto-detection code (previously available for MATLAB Builder JA components) is now available to Web applications, through support on Web servers.

New Video Demo Available

Watch a video about deploying applications using MATLAB Builder JA.

New Format for Deployment Tool Projects

If you have projects that were created with the Deployment Tool prior to R2009b, those projects will continue to work. However, projects created or

changed in R2009b cannot be opened in previous versions of Deployment Tool (deploytool).

Version 2.0.3 (R2009a) MATLAB Builder JA Software

This table summarizes what's new in Version 2.0.3 (R2009a):

New Features and Changes	Version Compatibility Considerations	Fixed Bugs and Known Problems
Yes Details below	None	Bug Reports Includes fixes

Reduced MCR Size Saves on Transfer Time

MCR copying and transfer time has been improved by 50% following a reduction in the file's contents. The change will not reduce processor time or memory consumption since the deleted files were not loaded into RAM.

Customized readme.txt Produced with Each Compilation

An enhanced version of the `readme.txt` file, which is generated with each successful compilation, is now customized to include specific instructions about MATLAB Builder JA deployment requirements.

Ability to Specify Run-Time Options to the MATLAB Compiler Runtime (MCR)

You can now specify run-time options `-nojvm`, `-nodisplay`, and `-logfile` to the MATLAB Compiler Runtime (MCR). For more information about this feature, see "Dynamically Specifying Run-Time Options to the MCR" in the product User's Guide.

Enhanced Javadoc

Auto-generated Sun™ Javadoc has been enhanced to include information of interest to Java developers. For more information, see "Learning About Java Classes and Methods by Exploring the Javadoc" in the product User's Guide.

Version 2.0.2 (R2008b) MATLAB Builder JA Software

This table summarizes what's new in Version 2.0.2 (R2008b):

New Features and Changes	Version Compatibility Considerations	Fixed Bugs and Known Problems
Yes Details below	Yes Summary	Bug Reports Includes fixes

Applications Created with Parallel Computing Toolbox Now Can Be Compiled

MATLAB applications that use the Parallel Computing Toolbox are now able to be compiled. Resulting executables and components can scale to multicore and multiprocessing environments using MATLAB Distributed Computing Server. For more information, see “Improving Data Access Using the MCR User Data Interface and MATLAB Builder JA” in the product User’s Guide.

Warning Results When Running Figure-Generating Applications or Printing with -nojvm Flag

As of R2008b, running a figure-generating application or printing with the -nojvm option results in a warning message. In some cases, figure rendering may succeed, and in other cases it may not. Similarly, various MATLAB graphics functions dependent on Java, such as graphics passed with -R -nojvm, will not result in displayable graphics. In a future release, the -nojvm option will no longer support figure-generating or printing and will be removed.

Same Name Class Objects Shared Between MCR Instances Will Not Work Correctly

If the same class name is used in two or more separate MCR instances within the same process, the object will not work correctly. This bug impacts all component based targets: C/C++ shared libraries, COM/.Net targets, and Java targets. This bug does not affect standalone executables. This is due to a bug in the MATLAB Object System and is being addressed.

Version 2.0.1 (R2008a) MATLAB Builder JA Software

This table summarizes what's new in Version 2.0.1 (R2008a):

New Features and Changes	Version Compatibility Considerations	Fixed Bugs and Known Problems
Yes Details below	No	Bug Reports Includes fixes

MATLAB Application Deployment Web Example Guide Available

A new publication, the *MATLAB Application Deployment Web Example Guide*, is now available from the MATLAB Compiler, MATLAB Builder JA, and MATLAB Builder NE roadmap pages. From MATLAB, select **Help > Product Help** and select the product from the left pane.

The guide provides full examples of common tasks performed by the MATLAB programmer, IT specialist, and others who play significant roles in deploying MATLAB applications to the Web.

Version 2.0 (R2007b) MATLAB® Builder for Java™ Software

This table summarizes what's new in Version 2.0 (R2007b):

New Features and Changes	Version Compatibility Considerations	Fixed Bugs and Known Problems
Yes Details below	Yes Summary	Bug Reports Includes fixes

New features and changes introduced in this version are:

- “Support for RMI” on page 16
- “Interactive MATLAB Graphics Support (WebFigures)” on page 16
- “Enhanced CTF Archives” on page 16
- “Web Deployment Documentation” on page 17
- “Enhanced Javadoc Support” on page 17
- “Functions Being Removed” on page 17

Support for RMI

The Sun Microsystems® Java™ native RPC mechanism, RMI, is now supported for “Creating Scalable Web Applications Using RMI”. RMI support enables automatic generation of interface code for Java remoting, allowing components to be started in separate processes.

Interactive MATLAB Graphics Support (WebFigures)

Interactive graphics are now available for user-developed Web applications, using AJAX technology to enable rotating, zooming, and panning. See “Deploying a Java Component Over the Web” for more information.

Enhanced CTF Archives

Output JAR files containing embedded CTF files are now produced for more convenient deployment.

Web Deployment Documentation

The basics of Web deployment with MATLAB Builder for Java, interactive Web graphics, and performance features using RMI are now included in the User's Guide documentation.

Enhanced Javadoc Support

Sun Microsystems® Javadoc™ is now searchable from the MathWorks Web site.

Functions Being Removed

The following functions were removed in R2007b:

Function Being Removed	What Happens When You Run the Function?	Use This Instead	Compatibility Considerations
buildmcr	Errors	MCRInstaller.exe (Windows), MCRInstaller.bin (UNIX), MCRInstaller.dmg (Mac)	See “Distribute MATLAB Code Using the MATLAB Compiler Runtime (MCR)” in the MATLAB Compiler User's Guide documentation.
comtool	Undefined Function Error	deploytool	Migrate to deploytool.
dotnettool	Undefined Function Error	deploytool	Migrate to deploytool.
mxltool	Undefined Function Error	deploytool	Migrate to deploytool.
opennbl	Undefined Function Error	deploytool	Migrate to deploytool.

Function Being Removed	What Happens When You Run the Function?	Use This Instead	Compatibility Considerations
openmx1	Undefined Function Error	deploytool	Migrate to deploytool.
opencb1	Undefined Function Error	deploytool	Migrate to deploytool.

Version 1.1 (R2007a) MATLAB® Builder for Java™ Software

This table summarizes what's new in Version 1.1 (R2007a):

New Features and Changes	Version Compatibility Considerations	Fixed Bugs and Known Problems
Yes Details below	No	Bug Reports Includes fixes

New features and changes introduced in this version are:

- “Support Added for Win 64, Mac, Intel Mac, and Solaris 64” on page 19
- “Support Dropped for Solaris 2” on page 19
- “Java Objects Accessible by the MATLAB Java Interface” on page 20
- “Conversion Methods Available for Java Primitive Types” on page 20
- “Image Conversion from RGB to Java AWT Format Available” on page 20
- “Issues with the Microsoft Windows Vista Operating System” on page 20

Support Added for Win 64, Mac, Intel Mac, and Solaris 64

Support has been added for the following operating systems:

- Windows® 64-bit
- Macintosh
- Intel® Mac
- Solaris™ 64-bit

Support Dropped for Solaris 2

Support has been dropped for the Solaris 2 operating system. It has been replaced by support for Solaris 64.

Java Objects Accessible by the MATLAB Java Interface

You can now pass Java objects, by reference, to compiled MATLAB functions and be assured the objects are fully accessible by the MATLAB Java interface.

Conversion Methods Available for Java Primitive Types

Conversion methods are now available that force MATLAB numeric array data into Java primitive numeric types.

Image Conversion from RGB to Java AWT Format Available

Conversion of RGB image data to Java AWT image object data format is now available.

Issues with the Microsoft Windows Vista Operating System

The following are known issues with Windows Vista™ as of this release. To resolve these issues, ensure you are logged in as Administrator.

- With User Account Control (UAC) enabled, a standard user is not able to write to a folder in the `c:\Program Files` folder. See the *MATLAB Release Notes* for more details regarding this issue.
- With User Account Control (UAC) enabled, a standard user is not able to register DLLs. When `mbuild -setup` attempts to register `mwcomutil.dll`, the following errors are displayed:

```
Trying to update options file:
  C:\Users\qe\AppData\Roaming\MathWorks\MATLAB\R2007a\compopts.bat
From template:
  C:\PROGRA-1\MATLAB\R2007a\bin\win64\mbuildopts\msvc80comp.bat

Done . . .

--> "C:\PROGRA-1\MATLAB\R2007a\bin\win64\mwregsvr C:\PROGRA-1\MATLAB\R2007a\bin\
```



```
win64\mwcomutil.dll"
```

```
Error: DllRegisterServer in C:\PROGRA-1\MATLAB\R2007a\bin\win64\mwcomutil.dll
failed
Undefined subroutine &mexsetup::expire called at C:\PROGRA-1\MATLAB\R2007a\bin\
mexsetup.pm line 839.
```

This is also the case when MATLAB Builder for Excel invokes `mbuild` in an attempt to register DLLs after a compilation completes.

- The following message is displayed when MATLAB Builder for .NET, attempts to install a DLL into the Global Assembly Cache from a network location:

```
Unhandled Exception: System.IO.FileLoadException: could not load file or assembly
'GACInstaller, Version=1.0.2568.30711, Culture=neutral, PublicKeyToken=null' or
one of its dependencies. Failed to grant permission to execute. (Exception from
HRESULT: 0x80131418)
File name: 'GACInstaller, Version=1.0.2568.30711, Culture=neutral,
PublicKeyToken=null' ---> System.Security.Policy.PolicyException: Execution
permission cannot be acquired.
    at System.Security.SecurityManager.ResolvePolicy(Evidence evidence,
PermissionSet reqdPset, PermissionSet optPset, PermissionSet denyPset,
PermissionSet& denied, Boolean checkExecutionPermission)
    at System.Security.SecurityManager.ResolvePolicy(Evidence evidence,
PermissionSet reqdPset, PermissionSet optPset, PermissionSet denyPset,
PermissionSet& denied, Int32& securitySpecialFlags, Boolean
checkExecutionPermission)
```

- Printing from a compiled application is not currently available with Microsoft Windows Vista. The following message is displayed if you attempt to print on systems with the Microsoft Windows Vista 32-bit operating system installed:

```
PrintImage Error
StartPage failed with error 6: The handle is invalid.
```

Printing with Vista 64-bit installed results in an error message that lists a manifest as missing. Please check <http://www.mathworks.com/support/> for updates on these issues.

Version 1.0 (R2006b) MATLAB® Builder for Java™ Software

This table summarizes what's new in Version 1.0 (R2006b):

New Features and Changes	Version Compatibility Considerations	Fixed Bugs and Known Problems
Yes Details below	No	Bug Reports See also “Known Issues” on page 23.

New features and changes introduced in this version are:

- “Introducing MATLAB® Builder for Java®” on page 22
- “Support for MATLAB Features in Java” on page 22
- “Deployment Tool User Interface” on page 23
- “Known Issues” on page 23

Introducing MATLAB Builder for Java

MATLAB Builder for Java® is an extension to MATLAB Compiler software. Use this builder to wrap MATLAB functions into one or more Java classes that comprise a Java package. Each of the MATLAB functions is encapsulated as a method of a Java class and can be invoked from within a Java application.

When you distribute the application to your users, you must include supporting files generated by the builder as well as the MATLAB Component Runtime (MCR), which is provided by the product. Your users do not have to purchase and install MATLAB.

Support for MATLAB Features in Java

MATLAB Builder for Java provides robust data conversion, indexing, and array formatting capabilities to preserve the flexibility of MATLAB when called from Java code. To support the MATLAB data types, the builder provides the `MWArray` class hierarchy. You can use `MWArray` and other Java class members in your application to convert native arrays to MATLAB

arrays and vice versa. builder also provides automatic data conversion for passing arguments that are Java types.

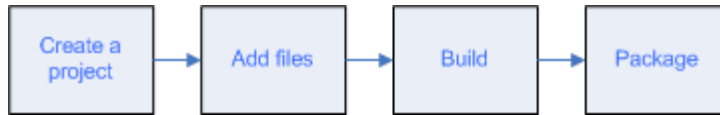
MATLAB Builder for Java provides custom error handling so that errors originating from MATLAB functions are reported as standard exceptions. The error description contains specific references to the MATLAB code, thus simplifying the debugging process.

Deployment Tool User Interface

To use the builder, open the Deployment Tool by issuing the following MATLAB command:

```
deploytool
```

You can use the Deployment Tool to create a project that encapsulates MATLAB code. You can perform the following tasks using the Deployment Tool:



Known Issues

The following issue is known and a patch to fix the problem is available at the linked bug report.

Data Returned by toArray Referencing Sparse Format May Be Corrupt

The data returned by calling `toArray` on a `MWNumericArray` or `MWLogicalArray` object that references a MATLAB array stored in sparse format may be incorrect or corrupted. More information and a patch that corrects this issue can be found at the Customer Bug Reports area of the MathWorks Web site: <http://www.mathworks.com/support/bugreports/?product=MJ&release=R2006b>. At the Bug Reports page, select **R2006b** in the Release list, and select **MATLAB Builder for Java** in the Product list.

This bug does not affect normal (nonsparse) arrays, nor does it affect other methods of retrieving data from a sparse array, such as `get`, `getDouble`, and `getData`.

Compatibility Summary for MATLAB® Builder™ JA Software

This table summarizes new features and changes that might cause incompatibilities when you upgrade from an earlier version, or when you use files on multiple versions. Details are provided in the description of the new feature or change.

Version (Release)	New Features and Changes with Version Compatibility Impact
Latest Version V2.2.4 (R2012a)	See “Changes in MCR User Data Interface Arguments for Compiling Parallel Computing Toolbox Applications” on page 4
V2.2.3 (R2011b)	None
V2.2.2 (R2011a)	None
V2.2.1 (R2010bSP1)	None
V2.2 (R2010b)	See “Changes to MWApplication Methods” on page 8.
V2.1 (R2010a)	None
V2.0.4 (R2009b)	See “New Format for Deployment Tool Projects” on page 11.
V2.0.3 (R2009a)	None.
V2.0.2 (R2008b)	See “Warning Results When Running Figure-Generating Applications or Printing with -nojvm Flag” on page 14.
V2.0.1 (R2008a)	None
V2.0 (R2007b)	See “Functions Being Removed” on page 17.
V1.1 (R2007a)	None
V1.0 (R2006b)	None