MATLAB[®] Compiler[™] Release Notes

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MATLAB[®] Compiler[™] Release Notes

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R2022b

Version: 8.5 New Features Bug Fixes Compatibility Considerations

MATLAB Runtime: Installation path updated to use MATLAB release name

MATLAB Runtime now installs to a folder whose name uses the corresponding MATLAB release name.

Previously, the default path to an installation of MATLAB Runtime included the MATLAB Runtime version, such as v912 in R2022a. The new installer uses the MATLAB release name in the installation path, for example, C:\Program Files\MATLAB\MATLAB Runtime\R2022b.

Application Deployment: Create a Deployment Script using the createDeploymentScript function

You can create a MATLAB deployment script from a MATLAB Compiler project file (.prj) using the createDeploymentScript function. This function converts the project deployment settings to the corresponding compiler.build commands. The generated MATLAB script creates a compiled component using the same settings as the MATLAB Compiler project.

Packaging: Obfuscate all MATLAB code prior to packaging

You can use the mcc command with the - j option to automatically convert all .m files to P-files before packaging. This option generates a P-code file with a .p extension for each .m file included in the mcc command. P-code files are an obfuscated, execute-only form of MATLAB code. For more details, see pcode.

Packaging: Specify encryption key for packaging MATLAB code

You can use the mcc command with the -k option to specify an AES encryption key and a MEX-file loader interface to retrieve the decryption key at runtime. If you do not specify any arguments after -k, mcc generates a 256-bit AES key and a loader MEX-file.

Apache Spark 3.x Support

When you create an Apache Spark™ application using mcc, the compiler uses Spark™ 3.x by default. You can specify other versions of Spark in the mcc command.

Functionality Being Removed or Changed

MATLAB Runtime Installer: Automated Mode removed

The option to install MATLAB Runtime noninteractively using the -mode automated option has been removed.

You can install MATLAB Runtime in silent mode by using installer command-line options or an installer control file. In silent mode, the installer runs as a background task and does not display any dialog boxes.

MATLAB Compiler Application Installers: Automated Mode removed

The option to install packaged MATLAB Compiler applications noninteractively using the -mode automated option has been removed.

You can install applications in silent mode by using installer command-line options or an installer control file. In silent mode, the installer runs as a background task and does not display any dialog boxes.

Option to build and package MATLAB code from within the Function Wizard for Excel addins has been removed

The option to build and package MATLAB code from within the Function Wizard for Excel[®] add-ins has been removed. To create an Excel add-in, use the compiler.build.excelAddIn function or the **Library Compiler** app.

Hadoop Compiler app and hadoopCompiler function will be removed Warns

The **Hadoop Compiler** app and the hadoopCompiler function will be removed in a future release. To create standalone MATLAB MapReduce applications or deployable archives from MATLAB map and reduce functions, use the mcc command.

-build and -package options in the applicationCompiler function will be removed *Warns*

The -build and -package options in the applicationCompiler function will be removed in a future release. To build applications, use the compiler.build.standaloneApplication function or the mcc command. To package and create an installer, use the compiler.package.installer function. The other options of the applicationCompiler function will not be changed.

The **Application Compiler** app will also not be changed. You can continue to the use the app to build applications.

-package option in the webAppCompiler function will be removed Warns

The -package option in the webAppCompiler function will be removed in a future release. To package MATLAB apps into web apps, use the compiler.build.webAppArchive function or the **Web App Compiler** app.

-build and -package options in the deploytool function will be removed *Warns*

The -build and -package options in the deploytool function will be removed in a future release. To build applications, use one of the compiler.build family of functions or the mcc command. To package and create an installer, use the compiler.package.installer function. The other options of the deploytool function will not be changed.

MATLAB Runtime support for Apache Ambari will be removed Warns

The ability to download MATLAB Runtime from within Apache Ambari[™] will be removed in a future release.

R2022a

Version: 8.4 New Features Bug Fixes Compatibility Considerations

Web Apps: Customize web app behavior to each user

An app author using MATLAB Compiler to create a web app can customize the behavior of the app to each logged-in user. Customization involves any user-specific behavior the app author deems necessary. For example:

- Loading user-specific data or configurations to a web app
- Enabling user-specific UI components while disabling others

To retrieve user-specific information from a web app, you use the compiler.UserInfo function within the app. This function returns a compiler.UserInfo object containing at minimum the following properties: UserID, DisplayName, and Groups.

To retrieve more information, you configure additional properties in the userinfo.json file in the webapps_private folder on MATLAB Web App Server[™]. The app author then uses the information from the compiler.UserInfo object to customize the web app to each user.

Customizing web app behavior to each user is supported in the MATLAB Web App Server product and not the development version of MATLAB Web App Server.

For details, see Customize Web App Behavior Based on User.

mcc: Explicitly include MATLAB preferences when building and packaging MATLAB code for deployment

When using the mcc command to build and package MATLAB code for deployment, you must explicitly include MATLAB preferences using the -a option. For example, on a Windows[®] system:

mcc -m helloWorld.m -a C:\Users\someuser\AppData\Roaming\MathWorks\MATLAB\R2022b\matlab.mlsetting

Compatibility Considerations

In R2021b and earlier releases, when you used the mcc command to build and package MATLAB code for deployment, MATLAB preferences were automatically included.

Functionality Being Removed or Changed

Option to build and package MATLAB code from within the Function Wizard for Excel addins has been removed

The option to build and package MATLAB code from within the Function Wizard for Excel add-ins has been removed. To create an Excel add-in, use the compiler.build.excelAddIn function or the Library Compiler app.

Hadoop Compiler app and hadoopCompiler function will be removed *Warns*

The **Hadoop Compiler** app and the hadoopCompiler function will be removed in a future release. To create standalone MATLAB MapReduce applications or deployable archives from MATLAB map and reduce functions, use the mcc command.

-build and -package options in the applicationCompiler function will be removed *Warns*

The -build and -package options in the applicationCompiler function will be removed in a future release. To build applications, use the compiler.build.standaloneApplication function or the mcc command. To package and create an installer, use the compiler.package.installer function. There are no changes to the other options of the applicationCompiler function.

There are also no changes to the **Application Compiler** app. You can continue to the use the app to build applications.

-package option in the webAppCompiler function will be removed *Warns*

The -package option in the webAppCompiler function will be removed in a future release. To package MATLAB apps into web apps, use the compiler.build.webAppArchive function or the **Web App Compiler** app.

-build and -package options in the deploytool function will be removed *Warns*

The -build and -package options in the deploytool function will be removed in a future release. To build applications, use one of the compiler.build family of functions or the mcc command. To package and create an installer, use the compiler.package.installer function. There are no changes to the other options of the deploytool function.

MATLAB Runtime support for Apache Ambari will be removed Warns

The ability to download MATLAB Runtime from within Apache Ambari will be removed in a future release.

R2021b

Version: 8.3

Bug Fixes

Compatibility Considerations

Packaging: Obfuscate file structures and file names

You can use the mcc command with the -s option to customize your archive for all deployment targets. This option obfuscates folder structures and file names in the deployable archive (.ctf file) from the end user.

Support Packages: Additional options for specifying support packages

You can use two new options to manually include support packages for all deployment targets.

- Use the mcc command with the -Z option to specify the method of adding support packages to the deployable archive.
- Use a compiler.build command with the SupportPackages option to specify the method of adding support packages.

To list installed support packages or those used by a specific file, see compiler.codetools.deployableSupportPackages.

Spark Version Support for Spark Applications

Support	Spark Version	Platform
Added	Spark 3.0	Linux [®] only

Functionality Being Removed or Changed

Hadoop Compiler app and hadoopCompiler function will be removed *Warns*

The **Hadoop Compiler** app and the hadoopCompiler function will be removed in a future release. To create standalone MATLAB MapReduce applications or deployable archives from MATLAB map and reduce functions, use the mcc command.

-build and -package options in the applicationCompiler function will be removed *Warns*

The -build and -package options in the applicationCompiler function will be removed in a future release. To build applications, use the compiler.build.standaloneApplication function or the mcc command. To package and create an installer, use the compiler.package.installer function. There are no changes to the other options of the applicationCompiler function.

There are also no changes to the **Application Compiler** app. You can continue to the use the app to build applications.

-package option in the webAppCompiler function will be removed *Warns*

The -package option in the webAppCompiler function will be removed in a future release. To package MATLAB apps into web apps, use the compiler.build.webAppArchive function or the **Web App Compiler** app.

-build and -package options in the deploytool function will be removed *Warns*

The -build and -package options in the deploytool function will be removed in a future release. To build applications, use one of the compiler.build family of functions or the mcc command. To package and create an installer, use the compiler.package.installer function. There are no changes to the other options of the deploytool function.

Option to build and package MATLAB code from within the Function Wizard for Excel addins will be removed

Warns

The option to build and package MATLAB code from within the Function Wizard for Excel add-ins will be removed in a future release. To create an Excel add-in, use the compiler.build.excelAddIn function or the Library Compiler app.

R2021a

Version: 8.2 New Features Bug Fixes Compatibility Considerations

Excel Integration: Create an Excel add-in package using the compiler.build.excelAddIn function

You can create a Microsoft[®] Excel add-in from the MATLAB command prompt using the compiler.build.excelAddIn function. This function, along with the compiler.build.ExcelAddInOptions function, provides an improved interface to specify various options associated with creating Excel add-ins. These functions are in addition to the existing Library Compiler app you use to create Excel add-ins.

Standalone Applications: Use thread-based parallel pool workers

You can create standalone applications that use thread-based parallel pool workers from Parallel Computing Toolbox $^{\text{TM}}$.

For more information, see Check Support for Thread-Based Environment (Parallel Computing Toolbox).

Web Apps: Use thread-based parallel pool workers

You can create web apps that use thread-based parallel pool workers from Parallel Computing Toolbox.

For more information, see Check Support for Thread-Based Environment (Parallel Computing Toolbox).

Functionality Being Removed or Changed

Hadoop Compiler app and hadoopCompiler function will be removed *Warns*

The **Hadoop Compiler** app and the hadoopCompiler function will be removed in a future release. To create standalone MATLAB MapReduce applications or deployable archives from MATLAB map and reduce functions, use the mcc command.

-build and -package options in the applicationCompiler function will be removed *Warns*

The -build and -package options in the applicationCompiler function will be removed in a future release. To build applications, use the compiler.build.standaloneApplication function or the mcc command. To package and create an installer, use the compiler.package.installer function. There are no changes to the other options of the applicationCompiler function.

There are also no changes to the **Application Compiler** app. You can continue to the use the app to build applications.

-package option in the webAppCompiler function will be removed *Warns*

The -package option in the webAppCompiler function will be removed in a future release. To package MATLAB apps into web apps, use the compiler.build.webAppArchive function or the **Web App Compiler** app.

-build and -package options in the deploytool function will be removed *Warns*

The -build and -package options in the deploytool function will be removed in a future release. To build applications, use one of the compiler.build family of functions or the mcc command. To package and create an installer, use the compiler.package.installer function. There are no changes to the other options of the deploytool function.

Option to build and package MATLAB code from within the Function Wizard for Excel addins will be removed

Warns

The option to build and package MATLAB code from within the Function Wizard for Excel add-ins will be removed in a future release. To create an Excel add-in, use the compiler.build.excelAddIn function or the Library Compiler app.

R2020b

Version: 8.1 New Features Bug Fixes Compatibility Considerations

Standalone Applications: Create standalone applications using compiler.build.standaloneApplication and compiler.build.standaloneWindowsApplication functions

You can create standalone applications from the MATLAB command prompt using the new compiler.build.standaloneApplication and

compiler.build.standaloneWindowsApplication functions. These functions, along with the compiler.build.StandaloneApplicationOptions function, provide an improved interface to specify various options associated with creating standalone applications. These functions complement the existing mcc command you use to create standalone applications.

The compiler.build.standaloneApplication function runs on any platform. The application extension is determined by the operating system you are running the function from.

The compiler.build.standaloneWindowsApplication function is available only on Windows operating systems.

Standalone Applications: Package standalone applications into Docker images on Linux operating systems

You can package standalone applications into Docker[®] images using the compiler.package.docker function. To create a Docker image, you create a standalone application using the compiler.build.standaloneApplication function and pass the Results object generated by the function as an input argument to the compiler.package.docker function. You can modify options associated with creating a Docker image using the compiler.package.DockerOptions function. For details, see Package MATLAB Standalone Applications into Docker Images.

This functionality is supported only on Linux operating systems.

Web Apps: Create web apps using the compiler.build.webAppArchive function

You can create web app archives from the MATLAB command prompt using the compiler.build.webAppArchive function. This function, along with the compiler.build.WebAppArchiveOptions function, provides an improved interface to specify various options associated with creating web app archives. You can then copy or upload the web app archives to the server.

Simulink: Read and write data using Simulink.sdi.Run objects in deployed applications

You can use import functions for the Simulation Data Inspector in Simulink[®] to read and write data in applications deployed using MATLAB Compiler or Simulink Compiler. The import functions have built-in readers that import data from MAT, CSV, and Microsoft Excel files into Simulink.sdi.Run and Simulink.sdi.Signal objects. You can also use Simulation Data Inspector export functions to write the data to the application workspace, a MAT-file, or a Microsoft Excel file. These functions are supported for deployment:

• Simulink.sdi.createRun

- Simulink.sdi.Run.create
- Simulink.sdi.addToRun
- add
- export function for Simulink.sdi.Signal objects
- export function for Simulink.sdi.Run objects
- Simulink.sdi.exportRun

Functionality Being Removed or Changed

Hadoop Compiler app and hadoopCompiler function will be removed *Warns*

The **Hadoop Compiler** app and the hadoopCompiler function will be removed in a future release. To create standalone MATLAB MapReduce applications or deployable archives from MATLAB map and reduce functions, use the mcc command.

-build and -package options in the applicationCompiler function will be removed *Warns*

The -build and -package options in the applicationCompiler function will be removed in a future release. To build applications, use the mcc command. To package and create an installer, use the compiler.package.installer function. There are no changes to the other options of the applicationCompiler function.

There are also no changes to the **Application Compiler** app. You can continue to the use the app to build applications.

-package option in the webAppCompiler function will be removed Warns

The **-package** option in the **webAppCompiler** function will be removed in a future release. To package MATLAB apps into web apps, use the **Web App Compiler** app.

-build and -package options in the deploytool function will be removed *Warns*

The -build and -package options in the deploytool function will be removed in a future release. To build applications, use the mcc command. To package and create an installer, use the compiler.package.installer function. There are no changes to the other options of the deploytool function.

Option to build and package MATLAB code from within the Function Wizard for Excel addins will be removed

Warns

The option to build and package MATLAB code from within the Function Wizard for Excel add-ins will be removed in a future release. To create an Excel add-in, use the **Library Compiler** app.

R2020a

Version: 8.0 New Features Bug Fixes Compatibility Considerations

Web Apps: Deploy web apps to MATLAB Web App Server integrated within an enterprise ecosystem

Beyond deploying web apps to the development version of MATLAB Web App Server (in MATLAB Compiler), you can deploy web apps to MATLAB Web App Server running in an enterprise ecosystem by using the MATLAB Web App Server product. The MATLAB Web App Server product supports integration with authentication standards such as OpenID Connect and LDAP so that you can control access to your web apps. You can host and share multiple apps developed using different releases of MATLAB. For more information, see the MATLAB Web App Server product page.

Web Apps: Run web apps containing Simulink simulations using Simulink Compiler

You can run web apps containing Simulink simulations by using Simulink Compiler. Using the APIs in Simulink Compiler, you can execute a Simulink simulation within a MATLAB app. Package an app as a web app using MATLAB Compiler and deploy the app to MATLAB Web App Server. For an example, see Simulink Simulation Web App.

Dependency Analysis: Additional options for excluding files from dependency analysis

You can use two new options to exclude files from dependency analysis.

- You can use the mcc command with the -X option to ignore data files read by common MATLAB file I/O functions. For a list of MATLAB file I/O functions whose data files are ignored when you use the -X option, see App Packaging Dependency Analysis (MATLAB).
- You can use the **%#exclude** pragma to ignore a dependency within a file during dependency analysis.

For details, see **%#exclude**.

Functionality Being Removed or Changed

Hadoop Compiler app and hadoopCompiler function will be removed Still runs

The **Hadoop Compiler** app and the hadoopCompiler function will be removed in a future release. To create standalone MATLAB MapReduce applications or deployable archives from MATLAB map and reduce functions, use mcc.

-build and -package options in the applicationCompiler function will be removed Still runs

The -build and -package options in the applicationCompiler function will be removed in a future release. To build applications, use the mcc command. To package and create an installer, use the compiler.package.installer function. There are no changes to the other options of the applicationCompiler function.

Also, there are no changes to the **Application Compiler** app. You can continue to the use the app to build applications.

-package option in the webAppCompiler function will be removed Still runs

The **-package** option in the **webAppCompiler** function will be removed in a future release. To package MATLAB apps into web apps, use the **Web App Compiler** app.

Building and packaging MATLAB code from within the Function Wizard for Excel add-ins will be removed

Still runs

The option to build and package MATLAB code from within the Function Wizard for Excel add-ins will be removed in a future release. To create an Excel add-in, use the **Library Compiler** app.

R2019b

Version: 7.1 New Features Bug Fixes Compatibility Considerations

File Versioning: Generate system-level file versioning on Windows systems for files created using deployment apps

On Windows systems, you can now generate target files with system-level version numbers using deployment apps. System-level versioning of files is supported for the following targets:

- Standalone applications
- Excel add-ins

You can specify the version number in the version section of any of the deployment apps or you can specify them using the mcc command. For more information, see mcc.

Compatibility Considerations

System-level file versioning for files created using deployment apps is supported on Windows systems only.

Web Apps: Internet Explorer web browser no longer supported

Web apps are no longer supported on the Internet Explorer[®] web browser. For a list of supported browsers, see Supported Browsers and Platform Incompatibilities.

Compatibility Considerations

If you access the web apps home page using the Internet Explorer web browser, you will get message saying **Incompatible Browser**. For a list of supported browsers, see Supported Browsers and Platform Incompatibilities.

MATLAB Runtime: Significantly reduced application sizes

Applications now include only your compiled code and no longer include MATLAB toolbox code. Depending on which toolboxes you use, this feature can reduce the size of your application significantly.

Web Apps: Compile on one platform and deploy to a server running on any other supported platform

You no longer need to compile your MATLAB functions on the same platform as your server instance. For example, you can author and compile your functions on a Microsoft Windows machine and deploy to a server instance running on Linux.

R2019a

Version: 7.0.1 New Features Bug Fixes Compatibility Considerations

MATLAB Runtime: Support for MATLAB software updates

MATLAB Runtime installers are now available for each update of a MATLAB release. You can now download a MATLAB Runtime installer that corresponds to the update level of your MATLAB software using the function compiler.runtime.download. For information about updates to MATLAB software, see Updates.

The MATLAB Runtime installer available on the MathWorks[®] website will always correspond to the latest MATLAB software update. Running the MATLAB Runtime installer will remove an existing installation of the runtime for that release and install the MATLAB Runtime at the update level it was created with.

For example, if you've installed MATLAB R2019a and a month or two later updated your MATLAB software, you can now update your MATLAB Runtime installer to correspond to the updated version of MATLAB. Running the installer will remove any existing R2019a installation of the MATLAB Runtime and install the updated version of the R2019a MATLAB Runtime. MATLAB Runtime installations from other releases will remain untouched.

An application installer created using the Application Compiler or Library Compiler apps will install a MATLAB Runtime at the same update level as the MATLAB software that created it.

For more information, see MATLAB Runtime Update FAQ on the MathWorks website.

Web Apps: Share resizeable apps or create apps that open web pages

In deployed web apps, you can now do the following:

- Interactively resize your web app.
- Program your MATLAB web app to open another URL using the web function.

Application Installer: Support for application installer size greater than 2GB on Windows

On Windows systems, you can now create installers that are greater than 2GB in size using the **Application Compiler** or **Library Compiler** apps. If the size of an installer is less than 2GB, the **Application Compiler** or **Library Compiler** app will create a self-extracting application installer. However, if the size of the installer exceeds 2GB, a zip archive is created.

Functionality Being Removed or Changed

Functionality	Result	Use Instead
Support for running deployed web apps in Internet Explorer will be removed in a future release.		Use the current versions of Google Chrome™ (recommended), Safari, Firefox [®] , or Microsoft Edge [®] to run deployed web apps instead.

R2018b

Version: 7.0

New Features

Web Apps: Set up and deploy web apps using a simpler workflow

You can now deploy a web app automatically to the MATLAB Web App Server. When you package the app using the **Web App Compiler**, specify the **Server app folder** where you want the packaged application (.ctf file) to be saved. This location is picked up by the server.

You can access the app folder from the MATLAB Web App Server application, as described in Configure MATLAB Web App Server.

Thus, your app is deployed and can be accessed on the web apps home page.

For an example, see Simple Mortgage Calculator Web App.

Web Apps: Run web apps in all commonly used browsers and iPads

You can now run web apps on all commonly used browsers such as Google Chrome, Internet Explorer, Safari, Firefox, and Microsoft Edge. You can also run them on iPads.

Web Apps: Upload and download files from a local system to a deployed web app

You can now upload and download files from a local system in a deployed web app using uigetfile and uiputfile.

You can call **uigetfile** in a web app to select files on your local system. You can select files by dragging and dropping them onto the app, or selecting them from the file browser.

You can call uiputfile to save files created in a web app to the Downloads folder associated with your browser.

Azure HDInsight: MATLAB Runtime is available for distribution as an Azure HDInsight script action

You can distribute MATLAB Runtime across an Azure[®] HDInsight[®] cluster using script action. Specify the following URL within your application to download the relevant files:

https://www.mathworks.com/supportfiles/downloads/R2018b/deployment_files/ R2018b/hdinsight

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R2018a

Version: 6.6 New Features Bug Fixes Compatibility Considerations

Web Apps: Run MATLAB App Designer apps in a web browser

You can package MATLAB apps created using App Designer using the **Web App Compiler** and host them using the MATLAB Web App Server. Each web app has a unique URL and can be accessed from a web browser using HTTP or HTTPS protocols.

For more information, see Web Apps.

mcc Function: Improved performance

The mcc function compilation and run-time performance has improved by at least 15% when compared with its performance in R2017b.

MATLAB Runtime: Faster startup time

MATLAB Runtime startup is at least 30% faster than R2017b in a network configuration. There is no noticeable change in its startup on a local machine.

MATLAB Runtime: MCRInstaller executable removed from installed MATLAB Compiler product

As of 2018a, the standalone MCRInstaller executable does not ship with the MATLAB Compiler product. In previous releases, when you installed the product, the MCRInstaller executable was installed in the *matlabroot*\toolbox\compiler\deploy*arch* folder.

Now, when you package a MATLAB function using the **Application Compiler** or **Library Compiler** app and select the **Runtime included in package** option, the app prompts you to download the MATLAB Runtime installer from mathworks.com. Once you accept the prompt, the installer is downloaded and packaged with your application.

If you do not have Internet access, you need to download the MATLAB Runtime installer from a computer that is connected to the Internet. After downloading the installer, you will need to transfer it to the computer that is not connected to the Internet.

Download Option	Steps	
MathWorks website	Select the appropriate platform and release- specific installer from:	
	<pre>https://www.mathworks.com/products/ compiler/matlab-runtime.html</pre>	
MATLAB desktop (with Internet access)	At the MATLAB command prompt, type:	
	compiler.runtime.download	

Compatibility Considerations

• There is a change in procedure for including MATLAB Runtime when packaging a new application or repackaging an existing application. If you have Internet access, the **Application Compiler** or **Library Compiler** app prompts you to download the MATLAB Runtime installer.

- If you do not have Internet access, you need to download the MATLAB Runtime installer from a computer that is connected to the Internet. After downloading the installer, you will need to transfer it to the computer that is not connected to the Internet.
- The procedure to run previous versions of packaged applications and to download MATLAB Runtime from the web remains unchanged.

Application Compiler: Automatically identify the MATLAB data type of numeric command line inputs to a standalone application

Application Compiler can create standalone applications that automatically identify numeric command line inputs and treat them as MATLAB doubles. After adding your main MATLAB file, in the Command Line Input Options section, select Treat inputs to the app as a numeric MATLAB double, and package your application.

For more information, see Determine Data Type of Command-Line Input (For Packaging Standalone Applications Only).

Apache Ambari: MATLAB Runtime is available for distribution as an Apache Ambari stack

You can distribute MATLAB Runtime across a Hadoop[®] cluster using Apache Ambari. Specify the following URL within your application to download the relevant files:

https://www.mathworks.com/supportfiles/downloads/R2018a/deployment_files/ R2018a/ambari/matlab-runtime-2018a-service.tgz

https://www.mathworks.com/supportfiles/downloads/R2018a/deployment_files/ R2018a/ambari/matlab-runtime-2018a-service.sha1

For more information, see the Apache Ambari documentation.

Cloudera: MATLAB Runtime can be downloaded as a parcel by Cloudera Manager

You can download MATLAB Runtime as a parcel from Cloudera[®] Manager. Specify the following URL within your application to download the relevant files:

https://www.mathworks.com/supportfiles/downloads/R2018a/deployment_files/ R2018a/cdhparcels

After downloading the parcel, you can and distribute and activate it across the cluster. For more information on how to work with Cloudera Manager and parcels, see the Cloudera documentation.

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R2017b

Version: 6.5 New Features Bug Fixes Compatibility Considerations

Functionality	Result	Use Instead	Compatibility Considerations
Support for running MATLAB MapReduce on Hadoop 1.x clusters will be removed in a future release.	Error	Use clusters that have Hadoop 2.x or higher installed to run MATLAB MapReduce.	Migrate MATLAB MapReduce code that runs on Hadoop 1.x to Hadoop 2.x.

Functionality Being Removed or Changed

Compiler Support: Create Excel Add-Ins using the freely available MinGW-w64 compiler on 64-bit Windows

You can use the MinGW-w64 version 5.3.0 compiler with MATLAB Compiler to generate Excel Add-Ins. The compiler can be installed as an add-on using the Add-On Explorer in the MATLAB desktop. Use the search term "MinGW-w64" in the Add-On Explorer to find and install the compiler.

You will also need to install the Windows 10 SDK to generate Excel Add-Ins using the MinGW-w64 compiler. You can download the Windows 10 SDK from Microsoft.

For an up-to-date list of supported compilers, see the Supported and Compatible Compilers website.

R2017a

Version: 6.4 New Features Bug Fixes Compatibility Considerations

Cloudera CDH: Deploy MATLAB applications against Apache Spark in Cloudera CDH

You can deploy MATLAB applications against Apache Spark in Cloudera CDH (version 5.7 and later). To deploy applications that use the MATLAB API for Spark to Cloudera CDH, see Deploying Applications to Using the MATLAB API for . To deploy tall array applications to Cloudera CDH, see Deploying Tall Arrays to a Enabled Hadoop Cluster. Tall array applications use the spark-submit script in Spark's bin directory to start applications on a cluster. Both workflows can be adopted for deployment against Spark "Hadoop Free" builds.

Apache Spark 2.x Support

Deploy MATLAB applications to Apache Spark 2.x. enabled clusters.

Functionality Being Removed or Changed

Functionality	Result	Use Instead	Compatibility Considerations
Support for running MATLAB MapReduce on Hadoop 1.x clusters will be removed in a future release.		Use clusters that have Hadoop 2.x or higher installed to run MATLAB MapReduce.	Migrate MATLAB MapReduce code that runs on Hadoop 1.x to Hadoop 2.x.

R2016b

Version: 6.3 New Features Bug Fixes Compatibility Considerations

Deployment of MATLAB Applications with Tall Arrays Against Apache Spark: Run MATLAB applications that use tall arrays as standalone executables against a Spark enabled cluster

MATLAB applications that contain tall arrays can be packaged as standalone applications and deployed against a Spark enabled cluster.

For more information, see Deploy Tall Arrays to a Spark Enabled Hadoop Cluster.

Deployment of MATLAB Applications against Apache Spark: Run MATLAB applications as standalone executables against a Spark enabled cluster using the MATLAB API for Spark

MATLAB applications can be executed against a Spark enabled cluster using the MATLAB API for Spark. The MATLAB API for Spark allows you to use Spark functions such as flatMap, mapPartitions, aggregate and others in your MATLAB code. It exposes the Spark programming model to MATLAB, allowing for MATLAB implementations of numerous Spark functions.

For more information, see Deploy Applications Using the MATLAB API for Spark.

Neural Network Training Models: Deploy Neural Network Toolbox functions that train a model

Use MATLAB Runtime to deploy functions that can train a model. To deploy MATLAB code that trains neural networks, see Create Standalone Application from Command Line. The following features are not supported in deployed mode:

- Training progress dialog, nntraintool
- genFunction and gensim to generate MATLAB code or Simulink blocks
- view method
- nctool, nftool, nnstart, nprtool, ntstool
- Plot functions

Packaging Standalone Applications: Automatically include dependent files when packaging standalone applications

You no longer need to include files accessed using standard file format functions or low-level I/O functions. The Application Compiler App automatically includes:

- Files that are accessed using standard file format functions. These dependent files include text, spreadsheets, images, audio, and video files. Scientific data formats are the only standard file formats that are not supported.
- Files that are accessed using low-level I/O functions.

For a list of supported functions, see Standard File Formats. For a list of supported I/O functions, see Low-Level File I/O.

Functionality Being Removed or Changed

Functionality	Result		Compatibility Considerations
Support for running MATLAB MapReduce on Hadoop 1.x clusters will be removed in a future release.		Hadoop 2.x or higher	Migrate MATLAB MapReduce code that runs on Hadoop 1.x to Hadoop 2.x.

R2016a

Version: 6.2

New Features

MATLAB Runtime Size: Smaller MATLAB Runtime footprint when deploying numerical applications without graphics or MATLAB user interfaces

Depending on application requirements, the memory footprint of MATLAB Runtime is now decreased by up to 60% when compared to previous releases.

R2015aSP1

Version: 6.0.1

R2015b

Version: 6.1

New Features

32-bit Excel Add-In Compatibility: Create Excel add-ins in a 64-bit MATLAB that are capable of running in 32-bit Microsoft Office.

Excel add-ins created using a 64-bit installation of MATLAB Compiler can be installed and used by 32-bit installations of Microsoft Office.

Hadoop Support for ImageDatastore: Deploy Hadoop packages with data imported from image collections that are too large to fit in memory

Use the datastore function to create an ImageDatastore, which can import data from image collections that are too large to fit in memory. ImageDatastore is a compatible datastore for use with mapreduce.

R2015a

Version: 6

New Features

MATLAB Compiler and builders repackaged as MATLAB Compiler and MATLAB Compiler SDK

- Functionality to create Excel add-in components for Microsoft Excel desktop applications has moved to MATLAB Compiler.
- Functionality to create C/C++ shared libraries has moved to MATLAB Compiler SDK $^{\text{TM}}$.
- Functionality to create CTF archive files for use with MATLAB Production Server[™] has moved to MATLAB Compiler SDK.

Generation of an application-specific MATLAB Runtime based on requirements for GPU support

MATLAB Compiler analyzes your MATLAB code for use of graphics or a GPU and defines and calculates optimized MATLAB Runtime. A MATLAB Runtime specific for each application is available for download from the web or included in the package.

MATLAB Compiler support for MATLAB objects for Hadoop integration

MATLAB Compiler now supports MATLAB objects as output from the map and reduce functions for Hadoop Integration.

R2014b

Version: 5.2

New Features

Deployable applications and libraries for Hadoop using MATLAB MapReduce

MATLAB Compiler includes a MapReduce compiler app that packages MapReduce applications for deployment against Hadoop. The applications can be compiled into either standalone applications or libraries for use in developing other applications.

R2014a

Version: 5.1 New Features Bug Fixes Compatibility Considerations

Faster packaging of compiled applications and libraries

MATLAB Compiler uses a new dependency resolution function that is faster.

Compatibility Considerations

The new dependency resolution function requires that p-code being used in a compiled function has an associated .m file containing the original source for the p-code.

Packaging of hardware support packages using the toolstrip user interface

The compiler apps now scan your code and the installed support packages to determine what needs to be packaged. The compiler will package all required support packages for distribution.

R2013b

Version: 5.0

New Features

Automatic download of version- and platform-specific MATLAB Compiler Runtime from MathWorks website

The MATLAB Compiler apps generate a platform specific installer that will automatically download and install the proper MATLAB Compiler Runtime if it is needed.

Toolstrip-style user interface for MATLAB Compiler apps

The MATLAB Compiler apps use a toolstrip for commonly used interface components and required input fields.

Customizable installers for deployed applications and libraries, including graphics, splash screen, and icons

The MATLAB Compiler apps have fields for supplying custom graphics, icons, developer profile details, and version numbers to the generated installer.

R2013a

Version: 4.18.1

R2012b

Version: 4.18 New Features Bug Fixes Compatibility Considerations

Apple Xcode 4.2 compiler support for generating or using C/C++ shared libraries on Mac OS X

MATLAB Compiler now supports C and C++ shared libraries generation for Mac OS X, using Apple Xcode compiler, version 4.2.

For more information on using Mac with MATLAB Compiler, see Writing Applications for Mac or Linux.

MATLAB Compiler Runtime (MCR) available for Web download

The MATLAB Compiler Runtime (MCR) is 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 Runtime page at https://www.mathworks.com/ products/compiler/mcr/ to download the MCR, as opposed to redistributing or packaging it with your applications or components.

Support for Icc Compiler To Be Removed

The lcc compiler that ships with Windows will no longer be supported as of R2013a.

For release R2012b, selecting the lcc compiler using mbuild -setup results in a warning, though the compiler is available. In R2013a, lcc will no longer appear in the list of available compilers.

R2012a

Version: 4.17 New Features Bug Fixes Compatibility Considerations

MATLAB Compiler Runtime (MCR) Available for Web Download

The MATLAB Compiler Runtime (MCR) is 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.

Support for Linux gcc 4.4 Compiler

MATLAB Compiler now supports Linux gcc 4.4.x compilers for both 32-bit and 64-bit architectures.

See https://www.mathworks.com/support/compilers/current_release/ for a complete up-to-date list of supported compilers and software.

Example of Deploying Graphical Function with Apple Xcode

An example demonstrating how to deploy a graphical MATLAB function with the Mac OS X Cocoa development layer, is available.

The function is compiled to a shared library target and then integrated into a deployed application using Apple Xcode.

See Writing Applications for Mac or Linux for more details.

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.

Support Updates for Microsoft Visual Studio Versions

The following changes to Microsoft Visual Studio[®] support apply for R2012a and R2012b.

	What Happens When You Attempt to Use This Version in R2012a	What Happens When You Attempt to Use This Version in R2012b
Microsoft Visual Studio 2010 Express, for 32-bit or 64-bit architectures	Not Available	Not Available
Microsoft Visual C++® 2008 for 32- bit or 64-bit architectures	Warns	Not Available

Support for Icc Compiler To Be Removed

The lcc compiler that ships with Windows will no longer be supported as of R2013a.

For releases R2012a and R2012b, selecting the lcc compiler using mbuild -setup results in a warning, though the compiler is available. For R2013a, lcc will no longer appear in the list of available compilers.

Functions and Function Elements Being Removed

Function or Function Element Name	What Happens When You Use the Function or Element	Do This Instead	Compatibility Considerations
<i>library</i> GetMcrID	Errors	Use one of the following functions without specifying an MCR ID: • getmcruserdata • setmcruserdata	For more information, see Setting and Retrieving MCR Data for Shared Libraries.
mclGetMcrUserData	Errors	Use getmcruserdata.	For more information, see Setting and Retrieving MCR Data for Shared Libraries.
mclSetMcrUserData	Errors	Use setmcruserdata.	For more information, see Setting and Retrieving MCR Data for Shared Libraries.
mclSetCmdLineUserData	Errors	No replacement	Not applicable

R2011b

Version: 4.16 New Features Bug Fixes Compatibility Considerations

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.

Function or Function Element Name	What Happens When You Use the Function or Element	Do This Instead	Compatibility Considerations
%#external	Errors	Rewrite the C or C++ function as a MEX-file and call it from your application.	For additional information, see Interfacing MATLAB Code to C/C++ Code in the User's Guide and Creating C/C++ Language MEX-Files in the MATLAB External Interfaces User's Guide.
<i>library</i> GetMcrID	Warnings	Use one of the following functions without specifying an MCR ID: • getmcruserdata • setmcruserdata	For more information, see Setting and Retrieving MCR Data for Shared Libraries.
mclGetMcrUserData	Warnings	Use getmcruserdata.	For more information, see Setting and Retrieving MCR Data for Shared Libraries.
mclSetMcrUserData	Warnings	Use setmcruserdata.	For more information, see Setting and Retrieving MCR Data for Shared Libraries.
mclSetCmdLineUserData	Warnings	No replacement	No support as of version R2012a.

Functions and Function Elements Being Removed

Function or Function Element Name	What Happens When You Use the Function or Element	Do This Instead	Compatibility Considerations
Control System Toolbox™ prescale GUI	Errors	No replacement	The Control System Toolbox prescale GUI is no longer compatible with MATLAB Compiler and cannot be deployed.

R2011a

Version: 4.15 New Features Bug Fixes Compatibility Considerations

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.

Error Reporting for Graphical Applications

MATLAB Compiler now provides error messages in pop-up windows for Windows and Macintosh graphical applications. You do not need to run a console in order to view these messages.

Microsoft Visual Studio Express 2010 Compilers Supported

Effective with this release, Microsoft Visual Studio Express 2010 compilers (32- and 64-bit versions) are now supported. Microsoft Visual Studio Express 2008 compilers (32- and 64-bit versions), which have been dropped from support. See Installation and Configuration in the *MATLAB Compiler User's Guide* for information about installing and configuring them. See https://www.mathworks.com/support/compilers/current_release/ for an up-to-date list of supported compilers.

Functions and Function Elements Being Removed

Function or Function Element Name	What Happens When you use the Function or Element	Use This Instead	Compatibility Considerations
mcc -F	Errors	deploytool -n	For information about using the command-line version of the Deployment Tool, see Using the Deployment Tool from the Command Line.

R2010bSP1

Version: 4.14.1

Bug Fixes

R2010b

Version: 4.14 New Features Bug Fixes Compatibility Considerations

Support for Microsoft Visual Studio 2010 Added

This release adds support for Microsoft Visual Studio software on both 32-bit and 64-bit systems. See the Installation and Configuration chapter in the *MATLAB Compiler User's Guide* for more information.

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.

mbuild -setup No Longer Needed Before Compiling Standalone Targets

You no longer need to specify a third-party compiler with mbuild -setup when building a standalone target. This is the case for both standalones and Windows standalones (standalone applications that suppress the DOS command window when running). For more information about when mbuild -setup is not needed, see When Not to Use mbuild -setup.

mcc Caching Automatically Managed for Linux Systems

In previous releases, you could manually manage cache for mcc on Linux systems.

As of R2010b, caching for mcc is automatically managed and tuned. No user intervention is required.

Mixing MATLAB Files and C or C++ Files Workflow Deprecated for Alternate Workflow

In previous releases, the workflow described in the procedure "Mixing MATLAB Files and C or C++ Files" detailed how to mix MATLAB and C or C++ source files. This workflow has been replaced with a more straight-forward approach for release R2010b.

Compatibility Considerations

Running the obsolete workflow (documented prior to R2010b) now results in a warning.

See Combining Your MATLAB and C/C++ Code for details on the recommended replacement workflow.

mcc -F Option Deprecated with Warning

As of R2011a, the mcc - F option will no longer process Deploytool Tool project files passed in or generate project files when invoked with command line arguments.

Compatibility Considerations

In R2010b, a warning will appear when the mcc - F command is issued. In R2011a, the command will generate an error.

Instead of using mcc - F, see Using the Deployment Tool from the Command Line in the User's Guide for replacement functionality.

%#EXTERNAL Pragma Deprecated For Standalones

Use of the **%#external** pragma to combine C/C++ code with a MATLAB application has been deprecated for standalone targets in release R2010b.

Compatibility Considerations

Using the **%#external** pragma in release R2010b results in a warning. In a future release, usage will result in an error.

See Interfacing MATLAB Code to C/C++ Code for details of the replacement workflow.

New Deployment Tool Project Format

Beginning in release R2010b, the Deployment Tool will store projects in a new format.

Compatibility Considerations

If you open a supported legacy project file with deploytool, you will automatically be prompted to save it in the new format.

If your legacy project files are in a nonuser-customized format, there is no action you need to take beyond converting your projects to the new format, when prompted.

Intel Macintosh 32-Bit Systems (Maci) No Longer Supported

Intel Macintosh 32-Bit systems, also known as Maci, are no longer supported as of release R2010b.

The software still supports Intel Macintosh 64-Bit systems, also known as Maci 64.

Compatibility Considerations

All MacIntosh bundles produced by deployment products are designed to run on 64-bit architectures and specific releases of the Apple operating system. Incompatibilities will result in an error from the Apple operating system.

R2010a

Version: 4.13

New Features

Bug Fixes

Desktop Icon Available for Launching 64-Bit Mac Applications

Macintosh 64-bit applications can now be launched conveniently from the desktop. See Using MATLAB Compiler on Mac or Linux for details about the Mac Application Launcher and other guidelines for UNIX, Linux, and Mac users.

New Video Demo Available

Watch a video about deploying applications using MATLAB Compiler.

Support for MATLAB Sparse Matrices

This release provides support for MATLAB sparse matrices via a C++ API. See Static Factory Methods for Sparse Arrays for a listing of capable classes and methods.

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 for more information.

linkdata on Not Supported in Deployed Standalones

In MATLAB, setting linkdata on can be used to link data between multiple plots in the same figure. This feature is not available for standalone applications run in deployed mode.

R2009bSP1

Version: 4.12

Bug Fixes

MCR Version Number Change

As described in the MATLAB Release Notes, the version number of the MATLAB Compiler Runtime (MCR) in release R2009bSP1 is different from the MCR version number in release R2009b.

R2009b

Version: 4.11 New Features Bug Fixes Compatibility Considerations

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.

Customizable MCR Start-Up Message

Console applications can now display a user-customizable message indicating that the MATLAB Compiler Runtime (MCR) is in the process of starting up. See Displaying MCR Initialization Start-Up and Completion Messages For Users for more information.

MATLAB Memory Shielding Available

The same memory shielding process available in MATLAB is now available for deployed applications. The process reserves memory to ensure resource-intensive applications are allocated proper run-time resources. See Reserving Memory for Deployed Applications with MATLAB Memory Shielding for more information.

Mac 64-Bit Support Available

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

New Format for Deployment Tool Projects

As of this release, deployment projects are being created in a new file format.

Compatibility Considerations

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). Recreate old projects with Deployment Tool to ensure they function properly.

Change in Windows Library Path

The path matlab\bin\arch has been removed for Windows and replaced by matlabroot\runtime \win32|win64. You may be required to reconfigure your deployment target computers. See Set MCR Paths for Development and Testing and Set MCR Paths for Run-Time Deployment for more information.

INLINE Option to MEX Function Deprecated

For more information on this change in support that will occur in R2010a, see Functionality Being Removed in the *MATLAB Release Notes*.

R2009a

Version: 4.10

New Features

Bug 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.

MATLAB Pcode Files Can Now Be Compiled

You can now compile protected MATLAB files (Pcode files or "P-files"). For more information about Pcode and P-files, see the MATLAB Function Reference.

New Functions Return Information About MCR State

New functions have been introduced that return data about MCR state, such as whether the MCR has been properly initialized or whether the MCR was launched with a JVM^{TM} instance enabled. For more information, see Retrieving MCR Attributes in the user guide.

Microsoft Visual Studio Express 2008 Compilers Supported

Microsoft Visual Studio Express 2008 compilers (32- and 64-bit versions) are now supported instead of Microsoft Visual Studio Express 2005 compilers (32- and 64-bit versions), which have been dropped from support. See Installation and Configuration for a complete list of supported compilers and information about installing and configuring them.

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 Compiler deployment requirements.

R2008b

Version: 4.9 New Features Bug Fixes Compatibility Considerations

Applications Created with Parallel Computing Toolbox Can Be Compiled

You can now compile MATLAB applications that use the Parallel Computing Toolbox. Resulting executables and components can scale to multicore and multiprocessing environments using the MATLAB Parallel Server[™]. For more information, see Improving Data Access Using the MCR User Data Interface for more information.

Data Sharing Between MATLAB Code, MCR Instance, and Wrapper Code Available

It is now possible to share data between an MCR instance, the MATLAB code running on that MCR, and the wrapper code that created the MCR, by implementing two MATLAB functions and four external C functions in a new API that may be called from within deployed application wrapper code. Using these functions may potentially improve performance and promote efficient use of computing resources. See Improving Data Access Using the MCR User Data Interface for more information.

64-Bit Addressing of mwArrays Is New Default, 32-Bit Addressing No Longer Supported

The MX_COMPAT_32_OFF variable, which allowed 32-bit addressing of mwArrays, is no longer supported. As in R2008a, the default is 64-bit (large array support). See "Addressing mwArrays Above the 2 GB Limit" for more information.

Microsoft Visual Studio 2008, 32-Bit and 64-Bit Editions, Now Supported

Support is now available for Microsoft Visual Studio 2008, 32-bit and 64-bit editions.

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.

Compatibility Considerations

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.

R2008a

Version: 4.8 New Features Bug Fixes Compatibility Considerations

C++ API Now Supports 64-Bit Default

In R2007b, the $MX_COMPAT_32_OFF$ variable allowed for 64-bit support. In this release, 64-bit is the default setting.

Compatibility Considerations

If you still require explicit 32-bit execution, see "Addressing mwArrays Above the 2 GB Limit" in the MATLAB Compiler User's Guide for more information.

CTF Archives Now Embedded in a Single Binary Executable for Convenient Deployment

As of R2008a, CTF data is now automatically embedded directly in the C/C++, main and Winmain, shared libraries and standalones by default for convenient deployment of applications. In order to override this default functionality, you must compile with the -C option. See "MCR Component Cache and CTF Archive Embedding" in the *MATLAB Compiler User's Guide* for more information.

Support Added for Microsoft Visual Studio 2008 Compiler

Support has been added for the compiler included with Microsoft Visual Studio 2008. See "System Requirements " in the *MATLAB Compiler User's Guide* for more details.

Replacement of the mclmcr Header File

Starting with R2008a, replace all occurrences of **#include** mclmcr.h with **#include** mclmcrrt.h.

Compatibility Considerations

If the library header created by MATLAB Compiler software is included in the external code, neither of these files need to be included, since the library header includes the correct file.

Run-Time Libraries Required for Applications Built with Microsoft Visual Studio 2008 Compiler

If you distribute a MEX-file, an engine application, or a MAT-file application built with the Visual Studio 2008 compiler, you must provide the Visual C++ run-time libraries. These files are required to run applications developed with Visual C++ on a computer that does not have Visual C++ 2008 installed. For information on locating the Microsoft Visual C++ 2008 Redistributable Package (x86), containing vcredist_x86.exe and vcredist_x64.exe, consult your Microsoft documentation.

Large Array Support Now Default for C and C++ Code

In R2008a, the default definition of MX_COMPAT_32 has been removed, and large array support is now the default for both C and C++ code. This new default may, in some cases, cause compiler warnings and errors. You can define MX_COMPAT_32 in your mbuild step to return to the previous default behavior.

Code compiled with MX_COMPAT_32 is *not* 64-bit aware. In addition, MX_COMPAT_32 controls the behavior of some type definitions. For instance, when MX_COMPAT_32 is defined, mwSize and mwIndex are defined to ints. When MX_COMPAT_32 is not defined, mwSize and mwIndex are defined to size_t. This can lead to compiler warnings and errors with respect to signed and unsigned mismatches.

For information about expected behavior of this feature in R2007b, see "Addressing mwArrays Above the 2 GB Limit" in the MATLAB Compiler User's Guide for more information..

This feature changes how the MWArray C++ Library functions are implemented. For more details, see "Addressing mwArrays Above the 2 GB Limit" in the MATLAB Compiler User's Guide.

Support Dropped for Borland Compilers

Borland compilers are no longer supported as of this release.

MATLAB Component Runtime Renamed

The MATLAB Component Runtime has been renamed to the MATLAB Compiler Runtime.

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 NE, and MATLAB Builder JA roadmap pages.

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.

Enforcement of Proper Return Types For C/C++ Methods

As of R2008a, the LCC compiler is more strict in enforcing **bool** return types from C and **void** returns from C++. For more information, see Code Proper Return Types From C and C++ Methods .

Changes in mclmcrrt.h and mclmcr.h Include Order

Changes introduced in this release now require that the header file mclmcr.h always be included after mclmcrrt.h in the preprocessing stage.

Compatibility Considerations

This change introduces a potential compatibility problem in subsequent releases of MATLAB Compiler. See the MathWorks support Web site for further information.

R2007b

Version: 4.7 New Features Bug Fixes Compatibility Considerations

Support Added for the Microsoft Platform SDK

Support has been added for the Microsoft Platform SDK Compiler. See System Requirements in the *MATLAB Compiler User's Guide* documentation for more details.

Project Files Use Relative Paths and Can Be Shared

Project files can now be enabled for use with other computers since project files now use relative paths. See Using Relative Paths with Project Files in the *MATLAB Compiler User's Guide* documentation for more details.

Replacement of MCRInstaller.zip and BUILDMCR Functionality

In past releases, you needed to include MCRInstaller.zip in your packaged application (created by running the buildmcr command). Now you must run the following files, which trigger self-extracting archives, that replace the functionality previously provided by MCRInstaller.zip. These files ship with MATLAB Compiler:

Platform	File Replacing MCRInstaller.zip
Windows	MCRInstaller.exe
UNIX (Except for Mac)	MCRInstaller.bin
Mac	MCRInstaller.dmg

Since there is no longer a need to create MCRInstaller.zip, buildmcr is no longer supported.

Type mcr or mcrinstaller at the MATLAB command prompt for a list of all available MCR installers, compatible platforms, version numbers, and other information. In addition, typing help mcr or help mcrinstaller at the command prompt will provide further details and assistance.

See Distribute MATLAB Code Using the MATLAB Compiler Runtime (MCR) for more information.

Addressing MWArrays Above the 2 GB Limit

As of R2007b, you can address MWArrays above the 2 GB limit. This is enabled by defining MX_COMPAT_32_OFF in your mbuild step. This feature will be the default as of R2008a.

This feature changes how the MWArray C++ Library functions are implemented. For more details, see "Addressing mwArrays Above the 2 GB Limit" in the *MATLAB Compiler User's Guide* documentation.

New Compiler Option -e

This new mcc option suppresses the appearance of the MS-DOS command window when generating a standalone application. Use -e in place of the -m option. See -e Suppress MS-DOS Command Window in the *MATLAB Compiler User's Guide* documentation.

Support for Borland Compilers Removed

Borland compilers are supported in Version 7.5 (R2007b), but will not be supported in a future version of MATLAB. Please prepare and plan accordingly.

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.
openmxl	Undefined Function Error	deploytool	Migrate to deploytool.
opencbl	Undefined Function Error	deploytool	Migrate to deploytool.

R2007a

Version: 4.6

New Features

Support Added for Intel Mac and Solaris 64

Support has been added for the following operating systems:

- 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.

Readme File Added

A readme file containing a customized checklist of deployment prerequisites is now generated in the output folder with each compiled application.

Warning About Future Borland Compiler Support

While still supported in this release, customers should prepare for discontinuance of support for the following Borland compilers:

- Borland C++Builder version 6.0
- Borland C++Builder version 5.0
- Borland C/C++ (free command-line tools) version 5.5

New Compiler Option -F

MATLAB Compiler 4.6 includes the - F option for both mcc and deploytool. Use this option to feed back a specific project file's settings to MATLAB Compiler. For more information, see the MATLAB Compiler User's Guide documentation.

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\msvc80compp.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 kenied, 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 https://www.mathworks.com/support/ for updates on these issues.

R2006b

Version: 4.5

New Features

Support for Java Components

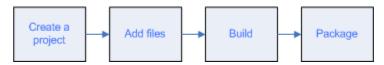
MATLAB Compiler, in conjunction with the optional MATLAB Builder JA, lets you convert MATLAB files into Java components.

Deployment Tool Graphical User Interface

As an alternative to the mcc command to invoke MATLAB Compiler, you can invoke the graphical user interface for MATLAB Compiler by issuing the following command at the MATLAB prompt:

deploytool

Use the Deployment Tool to perform the tasks shown in the following conceptual illustration:



R2006a

Version: 4.4

New Features

Support for .NET Components

This release provides support for a new target, .NET components. With the optional MATLAB Builder for .NET product, you can create both COM components that can be used in native code applications and .NET components that can be used in managed code applications.

MATLAB Compiler, in conjunction with the optional MATLAB Builder for .NET, lets you convert MATLAB files into .NET components that are accessible from any Common Language Specification (CLS)-compliant client code. In addition, you can build Common Object Model (COM) components that are accessible from Visual Basic, C/C++, Microsoft Excel, or any other COM client.

Support for Microsoft Visual C++ Version 8.0

MATLAB Compiler supports Microsoft Visual C++ Version 8.0 as a third-party compiler. However, if you use Microsoft Visual C++ Version 8.0 to generate applications/components, you must have the Microsoft Visual Studio 2005 run-time libraries available on the computer used for deployment. If you distribute your applications/components, you must make sure that any machine used for deployment has these run-time libraries installed. For more information, see solution 1–2223MW.

HP-UX No Longer Supported

MATLAB Compiler 4.4 (R2006a) does not support HP-UX. MATLAB Compiler 4.3 (R14SP3) was the last release to support HP-UX.

R14SP3

Version: 4.3

New Features

Platform Support

You can use MATLAB Compiler 4.3 on the following supported systems to create redistributable, standalone applications or software components. These applications or components can then be deployed to other systems with the same operating system.

Supported Platforms

MATLAB Compiler 4.3 is supported on these platforms:

- Windows
- Linux
- Solaris[™]
- HP-UX®
- Linux x86-64
- Mac OS[®] X

The MATLAB Compiler documentation has been updated to include configuration information for all the supported platforms.

R14SP2

Version: 4.2

New Features

Platform Support

You can use MATLAB Compiler 4.2 on the following supported systems to create redistributable, standalone applications or software components. These applications or components can then be deployed to other systems with the same operating system.

Supported Platforms

MATLAB Compiler 4.2 is supported on these platforms:

- Windows
- Linux
- Solaris
- HP-UX
- Linux x86-64

The MATLAB Compiler documentation has been updated to include configuration information for all the supported platforms.