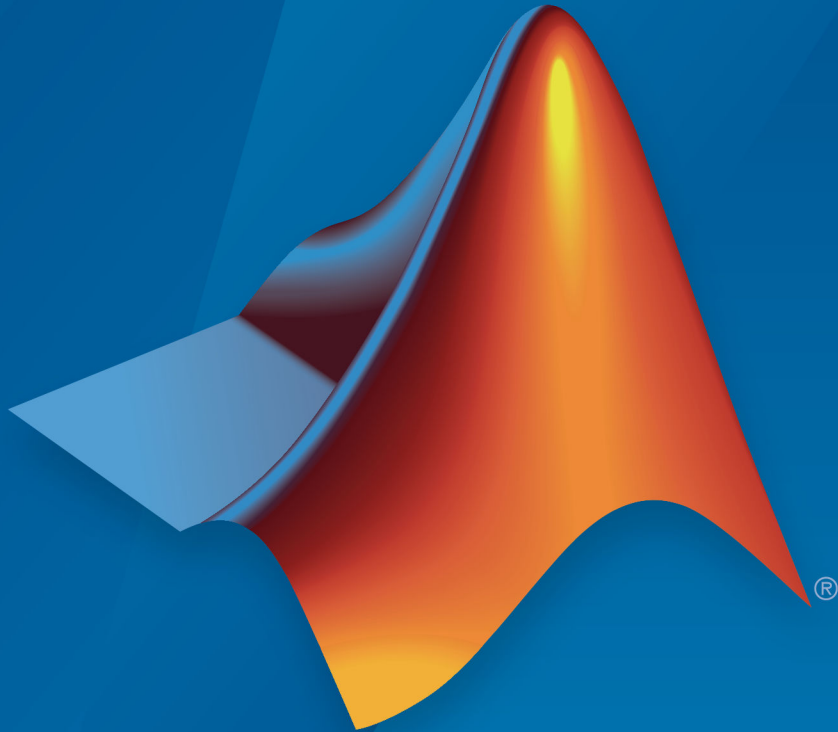


MATLAB® Compiler SDK™ Release Notes



MATLAB®

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MATLAB® Compiler SDK™ Release Notes

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R2017b

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R2018a

Version: 6.5

New Features

Bug Fixes

Compatibility Considerations

C++ Shared Library Integration: Generate C++ shared libraries using MATLAB Data API

You can generate C++ shared libraries using the new MATLAB Data API that leverages modern C++ semantics and design patterns. The **Library Compiler** app automatically generates shared libraries using both the old `mwArray` API and the new MATLAB Data API. The new shared library files can be found in a folder named `v2` in the project folder.

For more information, see “Integrate a C++ MATLAB Data API Shared Library into an Application”.

Compatibility Considerations

Shared libraries created with the `mwArray` API cannot be interchangeably used with files generated using the MATLAB Data API.

Compiler Support for C/C++ Shared Library Integration

Support	Compiler	Platform
Added	GNU® gcc 6.x	Linux®
Added	Xcode 9.x	macOS

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

Python Version Support for Python Package Integration

Support	Python® Version	Platform
Added	Python 3.6, as of R2017b	All platforms
Discontinued	Python 3.4	All platforms

RESTful API for Service Discovery: Discover MATLAB functions deployed on MATLAB Production Server

You can get information about the archives deployed to MATLAB Production Server™ and the MATLAB functions contained within those deployed archives using the discovery

service API. You can use the API to find out the names of the deployed functions and the number and size and of the inputs and outputs.

For more information, see “RESTful API”.

JSON Encode and Decode Functions: Convert data between MATLAB and JSON for MATLAB Production Server

You can convert data in both directions between MATLAB and JSON, including server requests and responses using MATLAB Production Server JSON schema. You can use these functions when making RESTful API calls to the server. For more information, see the following reference pages:

- `mps.json.encode`
- `mps.json.decode`
- `mps.json.encoderrequest`
- `mps.json.decoderresponse`

R2017b

Version: 6.4

New Features

Bug Fixes

Compatibility Considerations

Functionality Being Removed or Changed

Functionality	Result
WebFigures: Support for exporting figures to a deployed Java® or .NET application will be removed in a future release.	Warns

Compiler Support: Create C/C++ shared libraries and generic COM components 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 SDK to generate C/C++ shared libraries and generic COM components. 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 generic COM components 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.

Python Package Integration: Support for Python 3.6

You can use Python 3.6 with MATLAB Compiler SDK to generate Python packages that can be integrated with Python applications.

R2017a

Version: 6.3.1

Bug Fixes

R2016b

Version: 6.3

New Features

Bug Fixes

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

R2016a

Version: 6.2

New Features

Bug Fixes

HTTPS Support for Excel Add-ins: Securely integrate Excel Add-ins with MATLAB Production Server using HTTPS

Excel® add-ins can securely connect to MATLAB Production Server using HTTPS and evaluate deployed MATLAB functions. Using HTTPS provides transmission-layer encryption. A server certificate must be installed when using HTTPS, and can be either self-signed or signed by a trusted Certificate Authority (CA). Self-signed certificates need to be installed in the certificate store of the local machine running the Excel add-in.

For more information, see [Change the Server Configuration](#).

RESTful API and JSON: Develop clients for MATLAB Production Server in any programming language that supports HTTP

The MATLAB Production Server RESTful API enables you to evaluate MATLAB functions on remote servers using JSON representation of MATLAB data types. You can create client programs in any programming language with an HTTP library.

Client code that uses the MATLAB Production Server RESTful API and JSON representation of MATLAB data types can be written in web-based languages such as JavaScript® and embedded in HTML pages. These web pages can then be used to send and retrieve requests from a MATLAB Production Server instance.

For more information, see [RESTful API and JSON](#).

R2015aSP1

Version: 6.0.1

Bug Fixes

R2015b

Version: 6.1

New Features

Bug Fixes

Python Integration: Deploy MATLAB components as native Python packages, for integration with applications written in Python

MATLAB Compiler SDK packages MATLAB functions into software components that you integrate into native Python applications. MATLAB Compiler SDK provides APIs to execute compiled MATLAB functions on the MATLAB Runtime.

For more information, see [Python Package Integration](#).

R2015a

Version: 6.0

New Features

Bug Fixes

Packaging of your MATLAB programs as C/C++ shared libraries, Microsoft .NET assemblies, and Java classes

MATLAB Compiler SDK packages MATLAB functions into software components that you integrate into applications. MATLAB Compiler SDK includes APIs to integrate the packaged components using C, C++, Microsoft .NET, or Java.

Royalty-free distribution of software components to users who do not need MATLAB

MATLAB functions compiled with MATLAB Compiler SDK execute on the MATLAB Runtime. The MATLAB Runtime is a freely distributable execution engine made up of shared libraries that MATLAB uses to run MATLAB files on systems without an installed version of MATLAB.

Development and test framework for MATLAB Production Server for integration with web and enterprise systems

MATLAB Compiler SDK includes everything you need to develop client applications for MATLAB Production Server:

- Client APIs execute MATLAB functions on the server.
- Excel add-in to execute MATLAB functions on the server.
- Production Server Compiler app tests the integration between clients and compiles MATLAB functions for deployment to the server.
- Test server tests client code and server configuration together.

Encryption of MATLAB code to protect your intellectual property

MATLAB Compiler SDK encrypts your MATLAB code so that it cannot be read or copied.