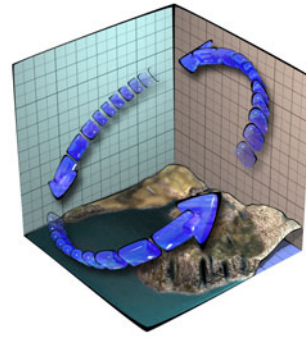




HLA/DIS Toolbox for MATLAB and Simulink 1.0.1 Release Notes

This document provides the following release-specific information for HLA/DIS Toolbox for MATLAB and Simulink 1.0.1:

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Systems Supported

HLA/DIS Toolbox 1.0.1 has the following software requirements:

- ♦ Microsoft Windows 2000 and XP
- ♦ MATLAB 7 (R14) Service Pack 1.
- ♦ VR-Link 3.9.5, C++ 7.1 version
- ♦ MÄK RTI 2.4, C++ 7.1 version, or a link compatible RTI built with C++ 7.1.

Qt Toolkit Compatibility

The version of the Qt Toolkit used to build the HLA/DIS Toolbox is not compatible with the version used to build the MÄK RTI. Therefore, you cannot use the MÄK RTIspy with the HLA/DIS Toolbox.

Network Compatibility

HLA only

HLA/DIS Toolbox 1.0.1 was built against VR-Link 3.9.5 and is compliant with:

- ♦ RPR-FOM 1.0 and a subset of 2.0 (draft 6, 14, and 17)
- ♦ MÄK RTI 2.4.

DIS only

HLA/DIS Toolbox 1.0.1 supports DIS 2.0.4, IEEE 1278.1, 2.1.4, and IEEE 1278.1a, and can therefore interoperate with DIS applications of any of these versions.

RTI Support

HLA/DIS Toolbox 1.0.1 works with RTIs that are link compatible with the HLA RTI 1.3 specification and the SISO-Standard DLC C++ API for IEEE 1516 specification. RTIs must have been built with Visual C++ 7.1.

FOM Support

HLA/DIS Toolbox 1.0.1 has built-in support for versions 0.5, 0.7, 0.8, 1.0, and 2.0, drafts 6, 14, and 17, of the RPR FOM. It also supports VR-Link's ability to support alternative FOMs through the FOM Mapper. By default, HLA/DIS Toolbox 1.0.1 uses RPR FOM 1.0.

The values for specifying different versions of the RPR FOM are:

- ♦ RPR FOM 0.5: `.5`
- ♦ RPR FOM 0.7: `.7`
- ♦ RPR FOM 0.8: `.8`
- ♦ RPR FOM 1.0: `1.0`
- ♦ RPR FOM 2.0 draft 6: `2.006`
- ♦ RPR FOM 2.0 draft 14: `2.0014`
- ♦ RPR FOM 2.0 draft 17: `2.0017`.

New Features and Changes

HLA/DIS Toolbox for MATLAB and Simulink 1.0.1 is a bug-fix release. There are no new features.

Documentation Updates

The FED files for HLA/DIS Toolbox are installed in `matlabroot\toolbox\hladistb1.0\Fedfiles`.

The following function descriptions are not in *MAK HLA/DIS Toolbox for MATLAB and Simulink Developer's Guide*.

DtAppLauncher()

DtAppLauncher() launches an example application or applications, as follows:

```
DtAppLauncher(@functionHandle,showState,'protocol')
```

where:

- ♦ `@functionHandle` is a function handle to an application or a CELL Array of function handles.
- ♦ `showState` specifies (as true or false) whether or not to display the state of the application after each loop.
- ♦ `protocol` specifies the protocol used by the application (as 'DIS', 'HLA13', or 'HLA1516').

```
% To run a MAK sample application talk in HLA 1.3 protocol  
DtAppLauncher(@talk,true,'HLA13');
```

DtCreateAppState()

DtCreateAppState() creates a default application state (AppState structure) for the specified protocol, to be passed to sample applications.

```
% To create a HLA 1.3 Application state
appState = DtCreateAppState('HLA13');
% Passable to MAK examples like talk and listen
appState = talk(appState);
```

DtDISSettings()

DtDISSettings() sets static DIS settings for an exercise connection, in the following format:

```
DtDISSettings('destAddr',sendBufferSize,recvBufferSize,'multiCastAddr',
    MulticastTTL)
```

where:

- ♦ *destAddr* is the destination address. Default = '0.0.0.0'.
- ♦ *sendBufferSize* is the send buffer size. Default = -1 (system default).
- ♦ *recvBufferSize* is the receive buffer size. Default = -1 (system default).
- ♦ *multiCastAddr* is the multicast address. Default = '0.0.0.0'.
- ♦ *MulticastTTL* is the multicast time to live. Default = -1 (system default).

```
% To set all the default settings
DtDISSettings('0.0.0.0',-1,-1,'0.0.0.0',-1));
```

DtGetEnum()

DtGetEnum() returns the value of an enumeration via automated parsing by MATLAB.

- ♦ DtGetEnum() returns all the enumeration classes and values
- ♦ DtGetEnum(*enumClass*) returns all the enumeration values of the enumeration class
- ♦ DtGetEnum(*enumClass*,*enumName*) returns the enumeration value for the specific enumeration name (*enumName*) in the *enumClass*.

DtGetError()

DtGetError returns an error string for the *DtExerciseConn* if a function fails.

DtVersion()

DtVersion returns the version of the HLA/DIS Toolbox.

Bug Fixes

HLA/DIS Toolbox 1.0.1 fixes the following problems:

- ♦ The talkTM example now works correctly.
- ♦ In HLA, generic interactions are now created properly.
- ♦ Various m-code bugs have been corrected.
- ♦ Simulink publish examples now run using the Makland terrain database.

Know Problems

The HLA/DIS Toolbox is not thread safe. Do not run multiple Simulink models containing the HLA/DIS Blocksets at the same time.

