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THE FUTURE OF TEAM-BASED LABVIEW™ DEVELOPMENT!

WHAT'S NEW IN 6.1?

<http://wiki.dqmh.org/dqmh/release-notes/dqmh61>



ENHANCED "NEW MODULE" DIALOG

Original idea posted in [DOMH Consortium Toolkits Feature requests](#): Darren/Olivier-Jourdan/joerg.hampel

Default values for Tester virtual folder, Module virtual folder and relative path location (both for new modules and templates)

Module description (goes into the Description field of the module library file)

Specify a name, save path, and type for the new module. You can also optionally configure an icon overlaid on the new Delacor QMH module and have it added to the active project.

Module Name
Module 1

Module Save Path
C:\Users\admin\Desktop\DQMH 6.1 Tests\Libraries\Module 1

Module Description (Optional)

Virtual Folder for Module Tester (Optional)
Testers

Virtual Folder for Module Library (Optional)
Modules

Module Type
Cloneable

A Cloneable module can have multiple reentrant instances running simultaneously.

Include "Do Something" events in new module?

Follow the steps below to create a DQMH Module Template.

- Specify the path to the DQMH Module Library that will be the source code for your new template.
- Specify a description for the DQMH Module Template.
- Select the location for your module template.
 - LabVIEW Data
The module you specified will be copied and stored in the [LabVIEW Data]\DQMH Module Templates\Source folder. Specify a relative location in that folder to store your template.
 - Current Path
The module you specified will not be copied. Instead, the module template XML file will refer to the module in its current location.
- (Optional) Specify default values for the following module properties when a new module is created from this template.
 - Virtual Folder for Tester: Testers
 - Virtual Folder for Module Library: Modules
 - Path to Save Module Folder Relative to Project: Libraries
- Click OK. The template XML will be created in the [LabVIEW Data]\DQMH Module Templates\MetaData folder. If you specified a template location of "LabVIEW Data" in step 3, the module will also be copied to that location.

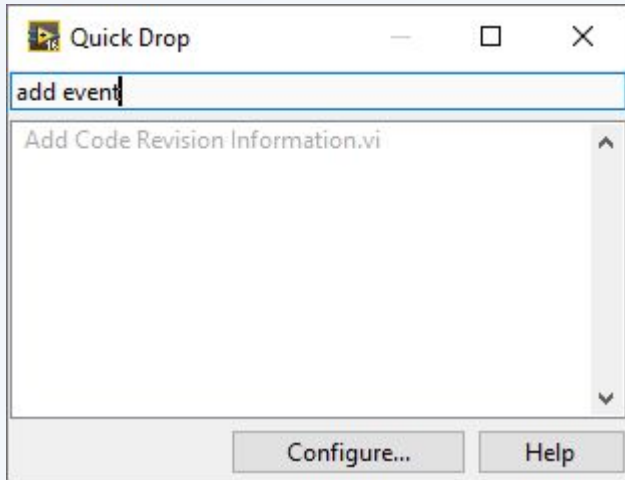
OK Cancel Help



SUPPORT FOR QUICK DROP

Original idea posted in [DQMH Consortium Toolkits Feature requests](#): Olivier-Jourdan

The Ctrl-E quick drop shortcut will now launch all DQMH scripting tools. Read the description of the plugin (Quick Drop > Configure > Ctrl-Key Shortcuts > Launch DQMH Tool) to see the commands for launching each tool.



Launch a DQMH scripting tool by typing one of the following strings in Quick Drop before pressing the Ctrl-Key shortcut for this plugin:

- Create New DQMH Event - ae, new event, add event, create event, ""
- Rename DQMH Event - re, rename event
- Remove DQMH Event - rme, remove
- Convert DQMH Event - ce, convert
- Add New DQMH Module - am, new mod, add mod, create mod
- Rename DQMH Module - rm, rename module
- Validate DQMH Module - vm, validate
- Create DQMH Module Template - ct, template
- Create RT Tester - crt, rt
- New DQMH Unit Test - cut, unit

Default Shortcut - [E]



SCRIPTING API

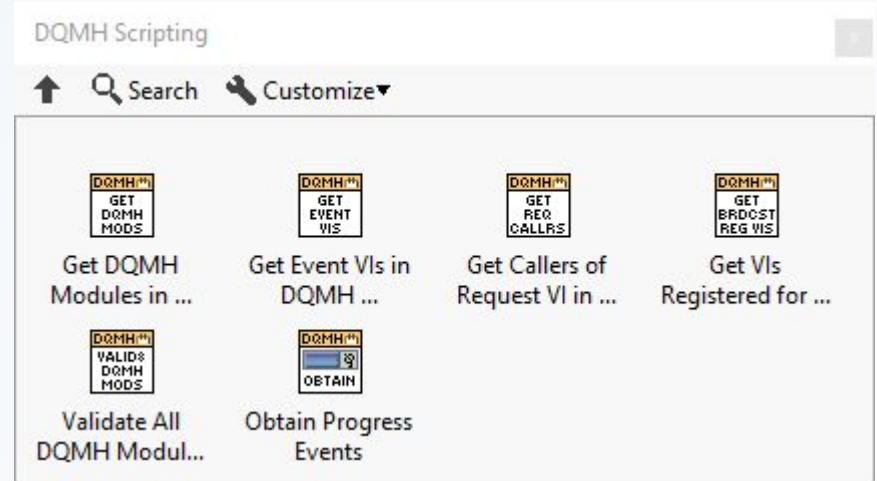
Original idea posted in [DQMH Consortium Toolkits Feature requests](#): Olivier-Jourdan

Get all modules in a project

Get all events in a module library

Get all callers of a request VI
in the project

Get all VIs registered for a broadcast
in the project

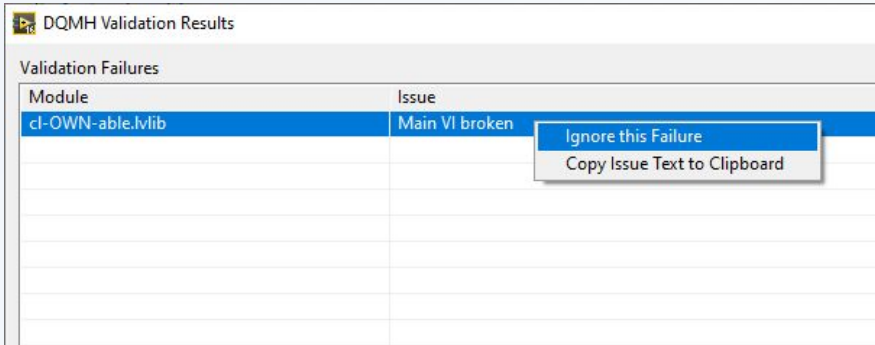


IGNORE INDIVIDUAL VALIDATION RESULTS

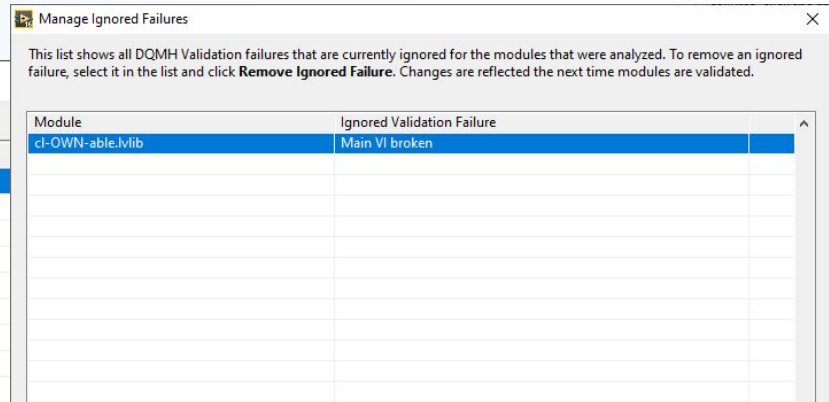
Original idea posted in [DOMH Consortium Toolkits Feature requests](#): Darren

Right-click any validation failure and choose to ignore it for future validation runs. The results UI lets you manage the validation failures for your modules.

Validation tests that can flag individual VIs will check for the 'Issue Text' in the VI description.



Module	Issue
cl-OWN-able.lvlib	Main VI broken



This list shows all DQM Validation failures that are currently ignored for the modules that were analyzed. To remove an ignored failure, select it in the list and click **Remove Ignored Failure**. Changes are reflected the next time modules are validated.

Module	Ignored Validation Failure
cl-OWN-able.lvlib	Main VI broken



MORE GOOD STUFF...

Validate tests for broken VIs - *Original idea posted in [DQMH Consortium Toolkits Feature requests](#): Darren*

Return a validate failure if the Main VI and/or Tester VI for a module are broken.

New 'Show Diagram on Init' data member - *Original idea posted in [DQMH Consortium Toolkits Feature requests](#): Darren*

All our shipping modules (Project Template, CML Template, Module Template, and shipping example) have been updated to have a new 'show main VI diagram on init' checkbox on their testers. This parameter is wired to the "Start Module" VI for those modules and implements the new functionality where, on startup, the module main VI diagram is displayed and Retain Wire Values is enabled. A validate+fixer has been added to update old modules to include this new functionality.

Remove extraneous text from error labels - *Original idea posted in [DQMH Consortium Toolkits Feature requests](#): psmorris*

Renamed the Reply Payload error cluster to just "error" instead of "[request name] error". Updated the scripting code to create new reply payload error clusters with the simple label "error".

New Null Broadcast Events--constant VI - *Original idea posted in [DQMH Consortium Toolkits Feature requests](#): FabiolaDelaCueva*

Added the new 'Null Broadcast Events--constant.vi' to all template DQMH modules. Also added a new validate+fixer to add this VI to old modules that don't have it.



MORE GOOD STUFF...

New progress VI for headless validation - *Original idea posted in [DQMH Consortium Toolkits Feature requests: joerg.hampel](#)*

The 'Obtain Progress Events.vi' will be on the DQMH Scripting palette and will allow the user to monitor the progress of a headless validation via events.

New Legal and Version Info Constant VIs + About VI

There is now an 'About DQMH' VI in the DQMH palette. The Project Template, CML Template, Module Template, and Shipping Example have all been updated with a button in various UIs to launch the About box.

Improve scripting for 'event only' modules - *Original idea posted in [DQMH Consortium Toolkits Feature requests: psmorris](#)*

The New Event scripting tool now works properly for scripting the new event in the main VI even if the EHL does not have a Delacor Message Queue tunnel input

Improve Error Reported error reporting - *Original idea posted in [DQMH Consortium Toolkits Feature requests: Ozfarmboy](#)*

Improved the code in the Error Reported broadcast of the tester VIs to return more useful error information. This change was made to the testers in the module template, project template, and CML template. There is also a validate+fixer to fix the issue in the existing code.



RESOURCES

- DQMH Website (dqmh.org)
- DQMH Wiki (wiki.dqmh.org)
- DQMH Online Documentation (delacor.com)
- DQMH Trusted Advisors (dqmh.org)

- DQMH Podcast ([Wired-in Software](#))
- DQMH Youtube Playlist ([Youtube](#))
- Tom's LabVIEW Adventures ([Youtube](#))
 - [What's new in DQMH6?](#)



QUESTIONS?



THANK YOU!

