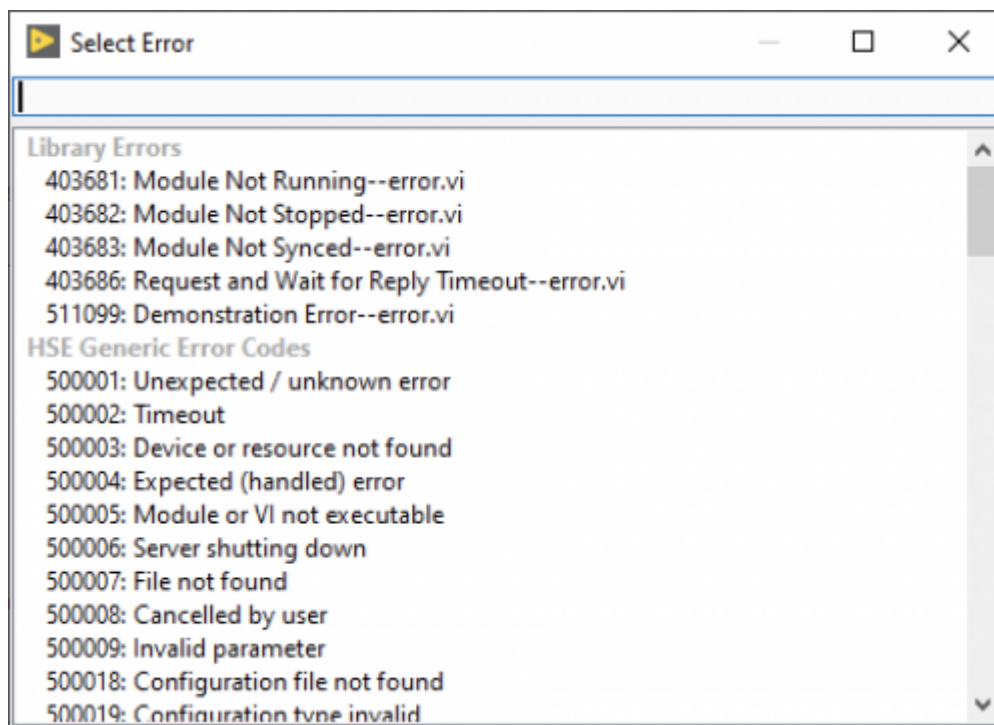


01 Overview

The *HSE Error Code Helper Quick Drop Plugin* tool integrates into the LabVIEW IDE and helps with managing and reusing (i.e. remembering) existing error codes as well as creating new error codes.

How it works

The plugin will bring up a dialogue window with a search field and a list of pre-defined error codes. Codes are separated into several sections. The first section called “Library Errors” contains errors specific to the code module from which the tool was invoked. All following sections contain generic error definitions.



The user can search for errors by typing in numbers (error codes) or keywords (error descriptions). Pressing enter (or double-clicking an entry) will finish the selection process and close the dialogue.

What it does

Depending on the user action, there are three possible outcomes:

1. Selecting an existing generic code
2. Selecting an existing library-specific code
3. Entering a new code

The F3 key will center the QDUI window, always on the primary monitor.

Selecting an existing generic code

If the user selects an existing code from the list of generic codes, the tool will create an error cluster constant with the code and source as selected and place the object on the cursor to drop.

If an error constant or error control was selected on the BD before invoking the QD, the tool will update it with the selected code instead of creating a new constant.

Selecting an existing library-specific code

If the user selects an existing code from the library or class, the tool will select the corresponding constant VI and place the object on the cursor to drop.

Entering a new code

If the user does not select a code but types in a new code (integer) into the search field, the tool will create a new error constant VI and place it into the lvlib/lvclass containing the VI from which the QD was invoked.

It will open an additional window and query the user for the error source string and if the newly created constant VI should have a string input for additional information. Eventually, it will place the new VI on the cursor to drop.

Error Code Definitions

The tool shows error codes from two different sources:

1. Any error constant VIs found in the lvlib/lvclass that hosts the VI from which the QD was invoked
2. Any generic error codes defined in the <LabVIEW>/project/errors directory

Error Constant VIs

The tool will parse the lvlib/lvclass that hosts the VI from which the QD was invoked and find all VIs which file name ends in "-error.vi". For these VIs, the tool is able to extract the error code definition from error rings, error cluster constants or inputs wired to the 'Error Cluster From Error Code.vi'.

Error XML Files

Generic error code definitions are stored in NI's error XML format and installed into the <LabVIEW>\project\errors directory. The plugin will parse all XML files named HSE*-errors.txt and show contents in alphabetical order.

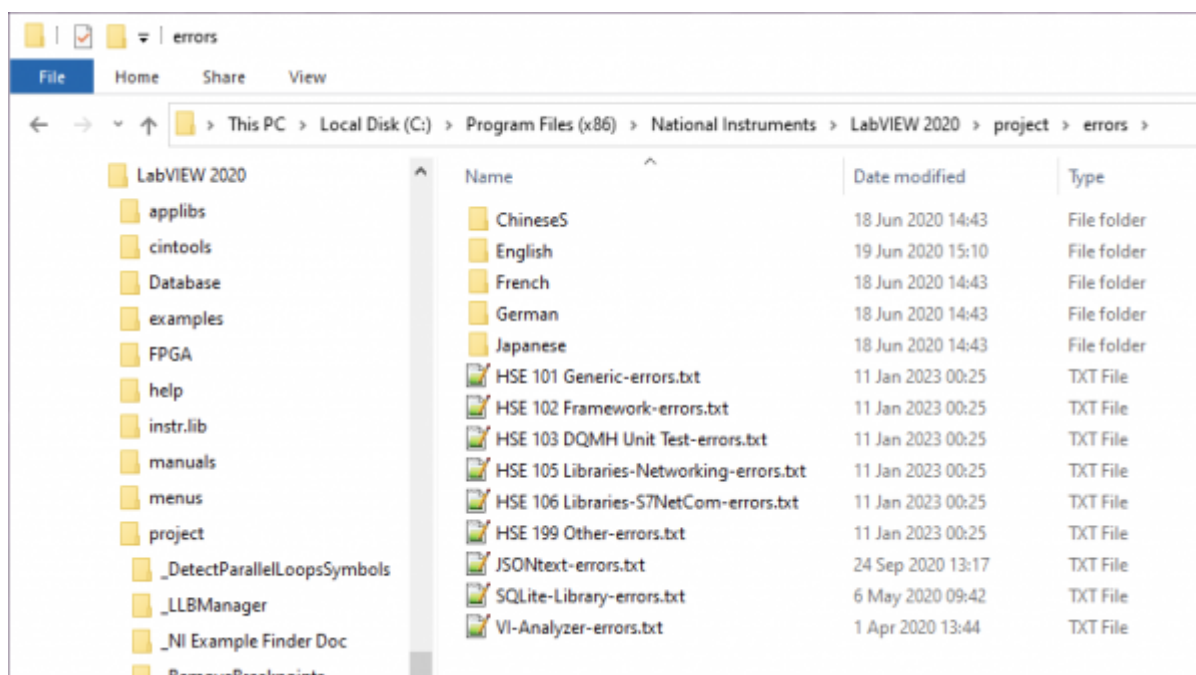
How to distribute via installer.

HSE Error Code Definitions.vip:

At HSE, we maintain our generic errors in a separate repository and we distribute those error definitions via a VI package (.vip).



The error XML files are named HSE 1xx SomeCategory-errors.txt, with xx being a 2-digit number. This allows a dedicated order for different categories of generic errors. Customers can add more files named HSE 0xx ... or HSE 2xx ... etc. When updating the HSE Generic Error Definitions, VIPM will remove all HSE 1xx files before installing the new set of files.



You can use the built-in editor via *Tools → Advanced → Edit Error Codes...*:

 HSE 101 Generic-errors.txt - Error Code Editor

File Edit Help

Range Name (non-localized name stored in the Error Ring)

Range Display Name (localized name that users will see in the Error Ring)

Comments about this file

Errors

Code	Text
500001	Unexpected / unknown error
500002	Timeout
500003	Device or resource not found
500004	Expected (handled) error
500005	Module or VI not executable
500006	Server shutting down

+

↓ 1 2

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Note: Changes to error code text files will not take effect until you restart LabVIEW.

Save

Close

Help

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