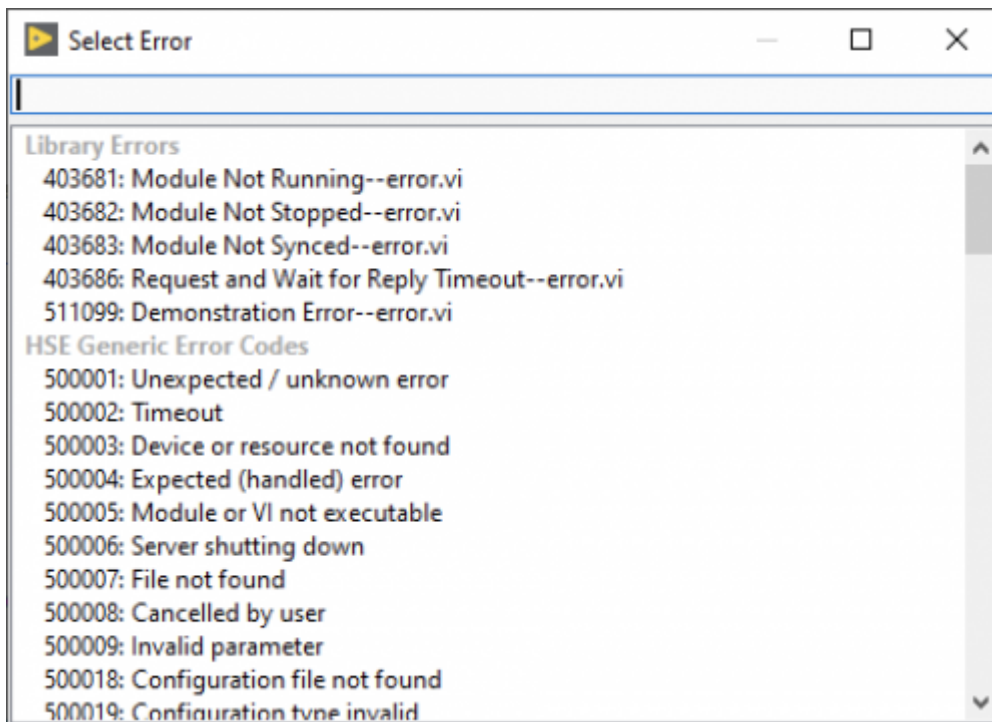


# 01 Overview

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 can either be specific to the code module from which the tool was invoked, or generic.



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

### 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 lplib/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.

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## Error Code Definitions

The tool shows error codes from two different sources:

1. Any error constant VIs found in the lplib/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 lplib/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.

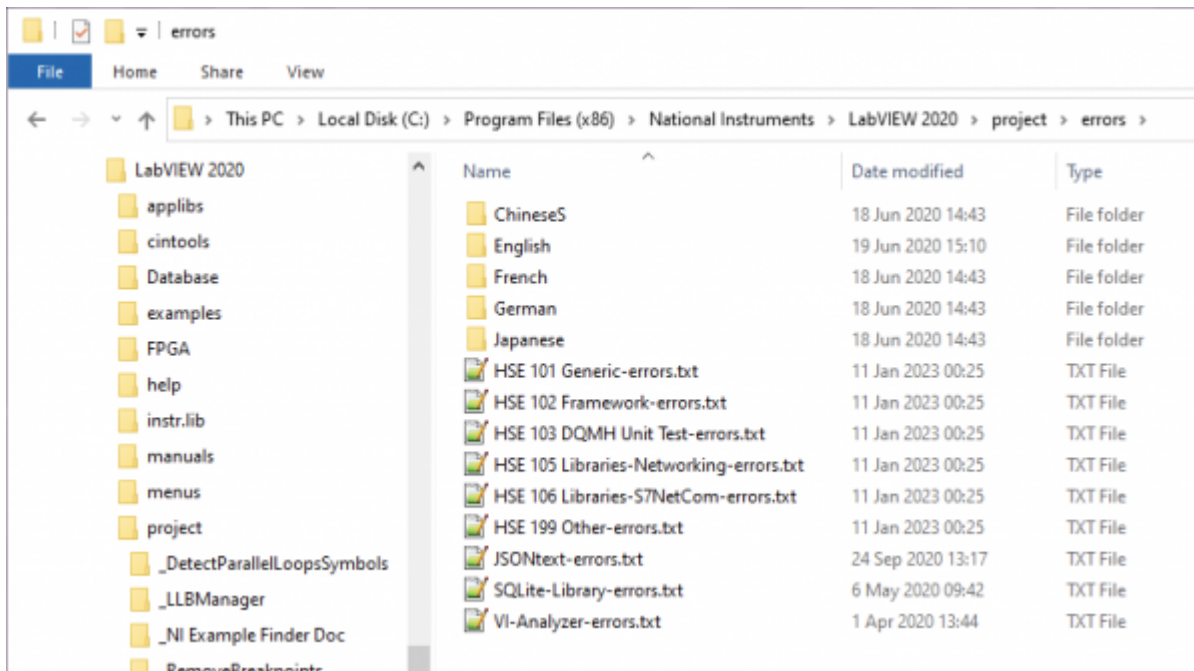
The plugin will parse all XML files named HSE\*-errors.txt and show contents in alphabetical order.



HSE's generic errors will be 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 ones.



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         |

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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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Last update: **2023/05/01 22:16**

