

# **HAMPEL SOFTWARE ENGINEERING**

**hse-db**

**HAMPEL SOFTWARE ENGINEERING**

**Version 1.0.3 (2021-11-11)**

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# 1. STATE MACHINES

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## 2. CALLING DEPENDENCY DIAGRAMS

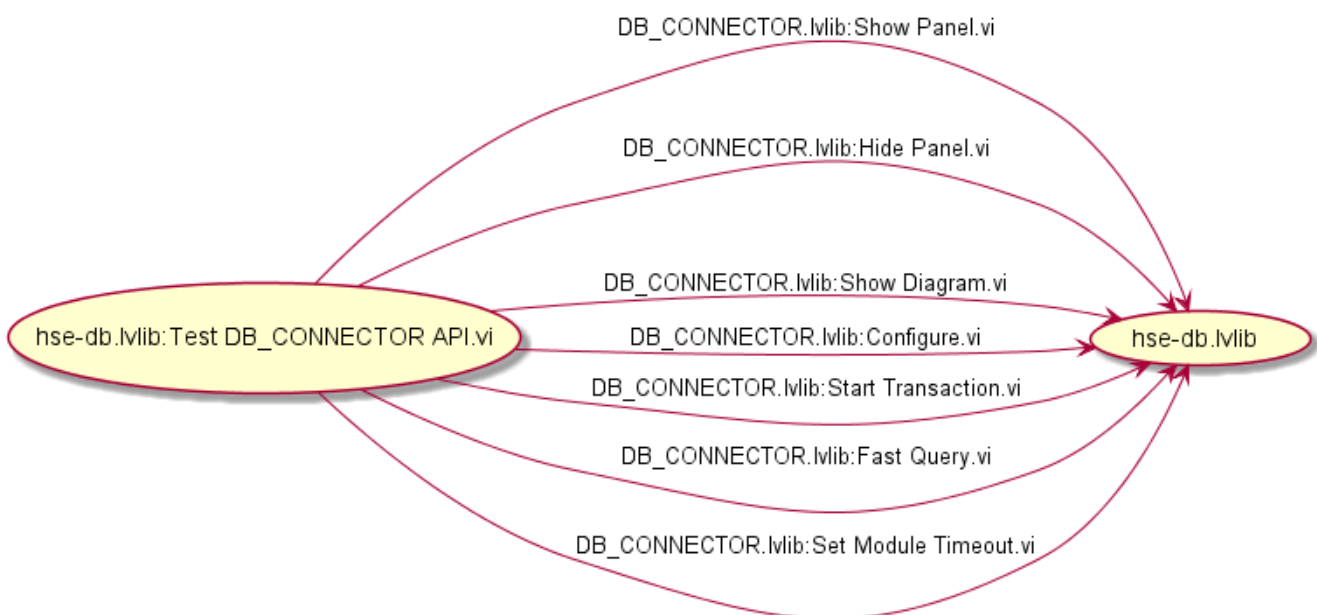
### 2.1. OVERVIEW

#### 2.1.1. PROJECT

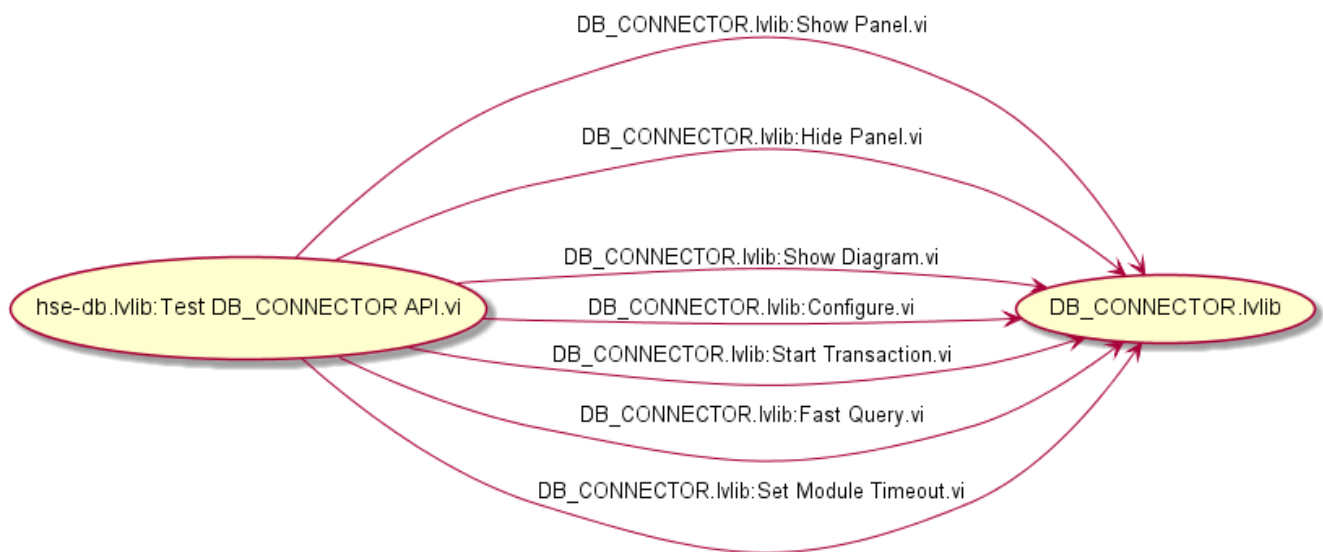


### 2.2. CALLERS

#### 2.2.1. HSE-DB.LVLIB

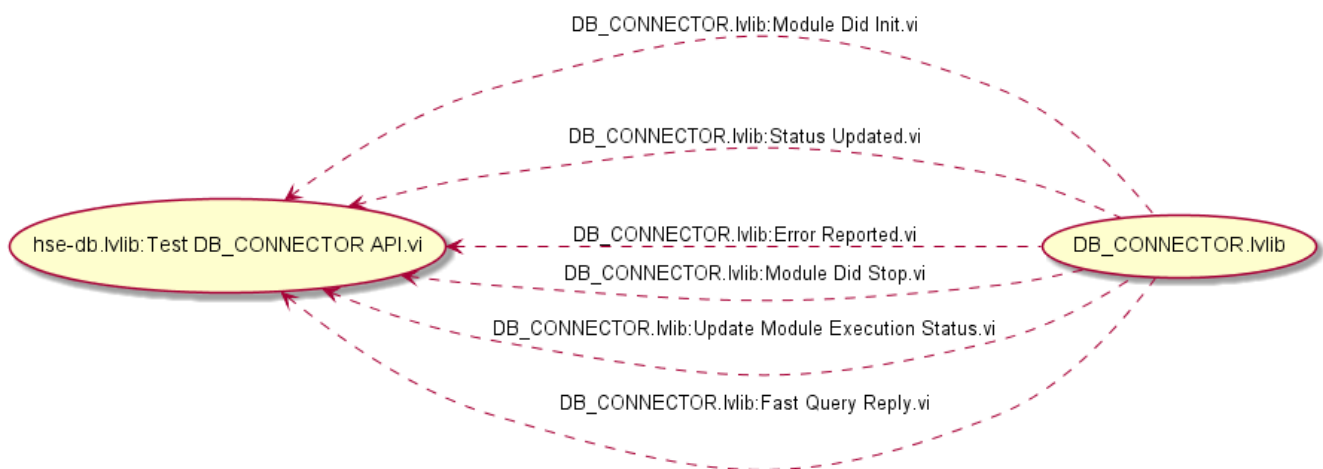


#### 2.2.2. DB\_CONNECTOR.LVLIB



## 2.3. LISTENERS

### 2.3.1. DB\_CONNECTOR.LVLIB



# APPENDIX A: DQMH

DQMH modules documentation

## A.1. HSE-DB.LVLIB

**Type:** Cloneable

**Responsibility:** No description found (add content in DQMH module lvlib description)

### A.1.1. MODULE START/STOP CALLS

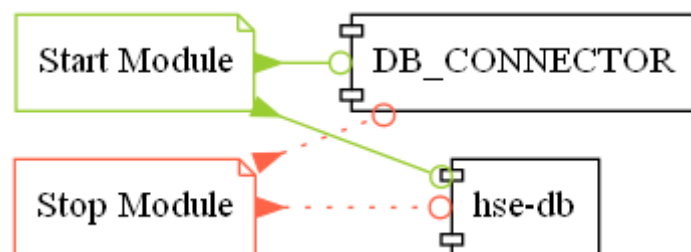


Table 1. Start and Stop module callers

Function	Callers
hse-db.lvlib:Start Module.vi	DB_CONNECTOR.lvlib:Load Module.vi hse-db.lvlib:Test DB_CONNECTOR API.vi
hse-db.lvlib:Stop Module.vi	DB_CONNECTOR.lvlib:Handle Exit.vi hse-db.lvlib:Test DB_CONNECTOR API.vi

### A.1.2. MODULE RELATIONSHIP

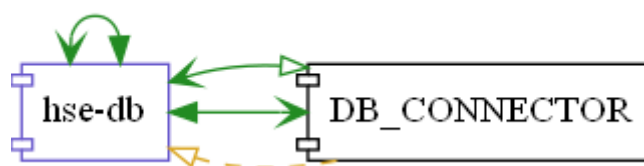


Table 2. Requests callers

Request Name	Callers
hse-db.lvlib:DB_CONNECTOR.lvlib:Show Panel.vi	hse-db.lvlib:Test DB_CONNECTOR API.vi
hse-db.lvlib:DB_CONNECTOR.lvlib:Hide Panel.vi	hse-db.lvlib:Test DB_CONNECTOR API.vi
hse-db.lvlib:DB_CONNECTOR.lvlib:Show Diagram.vi	hse-db.lvlib:Test DB_CONNECTOR API.vi
hse-db.lvlib:DB_CONNECTOR.lvlib:Configure.vi	hse-db.lvlib:Test DB_CONNECTOR API.vi
hse-db.lvlib:DB_CONNECTOR.lvlib:Connect.vi	
hse-db.lvlib:DB_CONNECTOR.lvlib:Close Connection.vi	
hse-db.lvlib:DB_CONNECTOR.lvlib:Start Transaction.vi	hse-db.lvlib:Test DB_CONNECTOR API.vi

Request Name	Callers
hse-db.lvlib:DB_CONNECTOR.lvlib:Fast Query.vi	hse-db.lvlib:Test DB_CONNECTOR API.vi
hse-db.lvlib:DB_CONNECTOR.lvlib:Set Module Timeout.vi	hse-db.lvlib:Test DB_CONNECTOR API.vi
hse-db.lvlib:DB_CONNECTOR.lvlib:Get DB-Type.vi	hse-db.lvlib:Test DB_CONNECTOR API.vi
hse-db.lvlib:DB_CONNECTOR.lvlib:Query.vi	DB_CONNECTOR.lvlib:Query - String - 2D.vi DB_CONNECTOR.lvlib:Query - String - 1D.vi DB_CONNECTOR.lvlib:Query - String - Scalar.vi DB_CONNECTOR.lvlib:Query - Int64 - 2D.vi DB_CONNECTOR.lvlib:Query - Int64 - 1D.vi DB_CONNECTOR.lvlib:Query - Int64 - Scalar.vi DB_CONNECTOR.lvlib:Query - DBL - 2D.vi DB_CONNECTOR.lvlib:Query - DBL - 1D.vi DB_CONNECTOR.lvlib:Query - DBL - Scalar.vi
hse-db.lvlib:DB_CONNECTOR.lvlib:Commit Transaction.vi	hse-db.lvlib:Test DB_CONNECTOR API.vi
hse-db.lvlib:DB_CONNECTOR.lvlib:Rollback Transaction.vi	hse-db.lvlib:Test DB_CONNECTOR API.vi

Table 3. Broadcasts Listeners

Broadcast Name	Listeners
hse-db.lvlib:DB_CONNECTOR.lvlib:Module Did Init.vi	
hse-db.lvlib:DB_CONNECTOR.lvlib>Status Updated.vi	
hse-db.lvlib:DB_CONNECTOR.lvlib>Error Reported.vi	
hse-db.lvlib:DB_CONNECTOR.lvlib:Module Did Stop.vi	
hse-db.lvlib:DB_CONNECTOR.lvlib:Update Module Execution Status.vi	
hse-db.lvlib:DB_CONNECTOR.lvlib:Fast Query Reply.vi	

Table 4. Used requests

Module	Requests
DB_CONNECTOR.lvlib	hse-db.lvlib:DB_CONNECTOR.lvlib:Show Panel.vi hse-db.lvlib:DB_CONNECTOR.lvlib:Hide Panel.vi hse-db.lvlib:DB_CONNECTOR.lvlib:Show Diagram.vi hse-db.lvlib:DB_CONNECTOR.lvlib:Configure.vi hse-db.lvlib:DB_CONNECTOR.lvlib:Start Transaction.vi hse-db.lvlib:DB_CONNECTOR.lvlib:Fast Query.vi hse-db.lvlib:DB_CONNECTOR.lvlib:Set Module Timeout.vi
DB_CONNECTOR.lvlib	hse-db.lvlib:DB_CONNECTOR.lvlib:Get DB-Type.vi hse-db.lvlib:DB_CONNECTOR.lvlib:Commit Transaction.vi hse-db.lvlib:DB_CONNECTOR.lvlib:Rollback Transaction.vi

Table 5. Registered broadcast

Module	Broadcasts



Module	Broadcasts
DB_CONNECTOR.lvlib	Error Reported.vi Fast Query Reply.vi Module Did Init.vi Module Did Stop.vi Status Updated.vi

### A.1.3. MODULE CUSTOM ERRORS



Custom errors are added to the module via vi named `*--error.vi`.

Module hse-db.lvlib use the following custom errors:

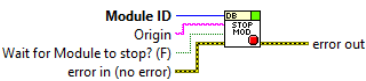
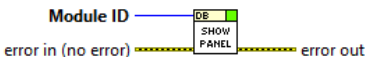
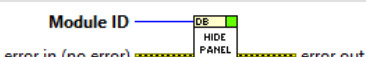
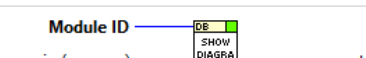

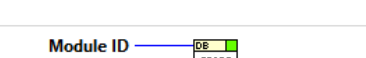



Table 6. Custom errors


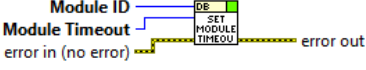





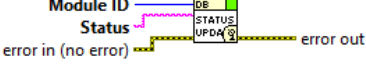

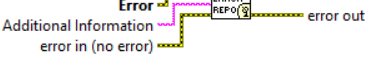

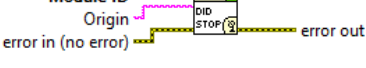

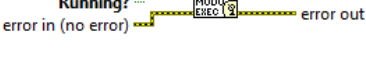


Name	Code	Description
Module Running as Singleton	403680	The "%s" module is currently running as singleton, but the Start Module VI was called with 'Run as Singleton' specified as FALSE.
Module Not Stopped	403682	%s Module did not finish clean up on exit.
Module Not Synced	403683	%s Module was unable to synchronize events.
Module Not Running	403684	Not a single instance of "%s" Module running.
Module Running as Cloneable	403685	The "%s" module is currently running as cloneable, but the Start Module VI was called with 'Run as Singleton' specified as TRUE.
Request Timed Out	403686	The reply for the request "%s" of the "%s" Module timed out.
Request and Wait for Reply Timeout	403686	%s
Master Reference Not Closed	403687	The "%s" module cannot be run as singleton because the Master Reference is still open from a prior run as cloneable. If you plan on running this module as both singleton and cloneable, consider changing your Main VI to wire a value of TRUE to the 'Close Master Reference' input of Init Module.vi.

### A.1.4. EVENT LIST

Table 7. Events

Name	Type	Connector pane	Description	S.	R.	I.
Start Module			Launches the Module Main.vi.			

Name	Type	Connector pane	Description	S.	R.	I.
Stop Module			<p>Send the Stop request to the Module's Main.vi. If <b>Wait for Module to stop?</b> is TRUE, then this VI will not complete execution until the Module Main VI has stopped running.</p> <p><b>Note:</b> If the cloneable module is running as singleton, then the 'Wait for Module to stop?' input is ignored... this VI will <b>always</b> wait until a cloneable Main VI running as singleton has stopped running.</p> <p><b>Note:</b> This VI was modified by the <b>Validate DQMH Module</b> tool to upgrade it to the DQMH 5.1 approach to poll the execution state of a cloneable module running as singleton to know when the module has gone idle.</p>			
Show Panel	→		Send the Show Panel request to the Module's Main.vi.			
Hide Panel	→		Send the Hide Panel request to the Module's Main.vi.			
Show Diagram	→		This VI tells the Module to show its block diagram to facilitate troubleshooting (add probes, breakpoints, highlight execution, etc).			
Configure	→		Triggers the auto-configuration of the module			
Connect	→		Connect to database.			
Close Connection	→		Close connection to the database.			
Start Transaction	→		Start a transaction to get sure all following SQL commands get executed or none.			
Fast Query	→		An asynchronous query to the DB. This request does not block and has no reply. To receive the db response register to the corresponding broadcast.			
Get DB-Type	→		Returns the type of the database in <b>DB-Type</b>			
Query	→		Send a SQL-Query to the database.			
Commit Transaction	→		Commit a transaction. Either all SQL-commands get committed or, in case of an error, all get rejected.			

Name	Type	Connector pane	Description	S.	R.	I.
Set Module Timeout		 <p>Module ID Module Timeout error in (no error)</p>	Overrides the DQMh internal Module Timeout with the specified value (must be greater than 0)			
Rollback Transaction		 <p>Module ID error in timed out? error out</p>	Rollback the active transaction.			
Module Did Init		 <p>Module ID Origin Initialized? error in (no error)</p>	Send the Module Did Init event to any VI registered to listen to this module's broadcast events.			
Status Updated		 <p>Module ID Status error in (no error)</p>	Send the Status Updated event to any VI registered to listen to events from the owning module.			
Error Reported		 <p>Module ID Error Additional Information error in (no error)</p>	<b>Note:</b> This VI was modified by the <b>Validate DQMh Module</b> tool to parse additional information tags out of the incoming error source string.			
Module Did Stop		 <p>Module ID Origin error in (no error)</p>	Send the Module Did Stop event to any VI registered to listen to this module's broadcast events.			
Update Module Execution Status		 <p>Module ID Running? error in (no error)</p>	Fire the Get Module Execution Status request.			
Fast Query Reply		 <p>Module ID Return Data Meta Data Field Names error in (no error)</p>	The database reply from a (asynchronous) "Fast Query".			

**Type:**  → Request |  → Request and Wait for Reply |  → Broadcast

**Scope:**  → Protected |  → Community

**Reentrancy:**  → Preallocated reentrancy |  → Shared reentrancy

**Inlining:**  → Inlined

## A.2. DB\_CONNECTOR.LVLIB

**Type:** Cloneable

**Responsibility:** No description found (add content in DQMh module lplib description)

### A.2.1. MODULE START/STOP CALLS

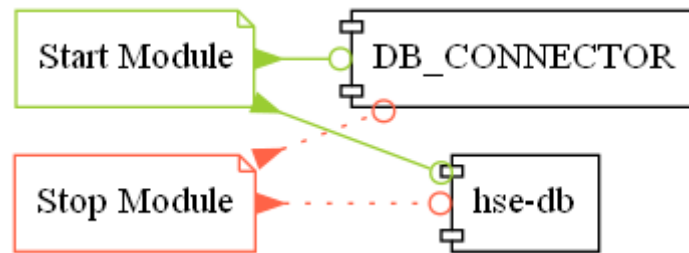


Table 8. Start and Stop module callers

Function	Callers
DB_CONNECTOR.lvlib:Start Module.vi	DB_CONNECTOR.lvlib:Load Module.vi hse-db.lvlib:Test DB_CONNECTOR API.vi
DB_CONNECTOR.lvlib:Stop Module.vi	DB_CONNECTOR.lvlib:Handle Exit.vi hse-db.lvlib:Test DB_CONNECTOR API.vi

## A.2.2. MODULE RELATIONSHIP

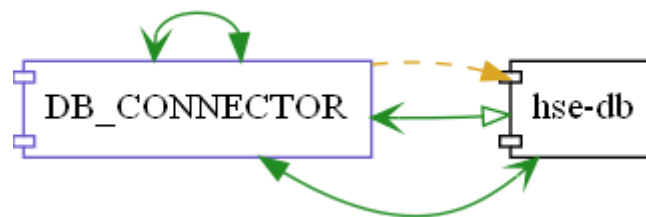


Table 9. Requests callers

Request Name	Callers
hse-db.lvlib:DB_CONNECTOR.lvlib:Show Panel.vi	hse-db.lvlib:Test DB_CONNECTOR API.vi
hse-db.lvlib:DB_CONNECTOR.lvlib:Hide Panel.vi	hse-db.lvlib:Test DB_CONNECTOR API.vi
hse-db.lvlib:DB_CONNECTOR.lvlib:Show Diagram.vi	hse-db.lvlib:Test DB_CONNECTOR API.vi
hse-db.lvlib:DB_CONNECTOR.lvlib:Configure.vi	hse-db.lvlib:Test DB_CONNECTOR API.vi
hse-db.lvlib:DB_CONNECTOR.lvlib:Connect.vi	
hse-db.lvlib:DB_CONNECTOR.lvlib:Close Connection.vi	
hse-db.lvlib:DB_CONNECTOR.lvlib:Start Transaction.vi	hse-db.lvlib:Test DB_CONNECTOR API.vi
hse-db.lvlib:DB_CONNECTOR.lvlib:Fast Query.vi	hse-db.lvlib:Test DB_CONNECTOR API.vi
hse-db.lvlib:DB_CONNECTOR.lvlib:Set Module Timeout.vi	hse-db.lvlib:Test DB_CONNECTOR API.vi
hse-db.lvlib:DB_CONNECTOR.lvlib:Get DB-Type.vi	hse-db.lvlib:Test DB_CONNECTOR API.vi
hse-db.lvlib:DB_CONNECTOR.lvlib:Query.vi	DB_CONNECTOR.lvlib:Query - String - 2D.vi DB_CONNECTOR.lvlib:Query - String - 1D.vi DB_CONNECTOR.lvlib:Query - String - Scalar.vi DB_CONNECTOR.lvlib:Query - Int64 - 2D.vi DB_CONNECTOR.lvlib:Query - Int64 - 1D.vi DB_CONNECTOR.lvlib:Query - Int64 - Scalar.vi DB_CONNECTOR.lvlib:Query - DBL - 2D.vi DB_CONNECTOR.lvlib:Query - DBL - 1D.vi DB_CONNECTOR.lvlib:Query - DBL - Scalar.vi

Request Name	Callers
hse-db.lvlib:DB_CONNECTOR.lvlib:Commit Transaction.vi	hse-db.lvlib:Test DB_CONNECTOR API.vi
hse-db.lvlib:DB_CONNECTOR.lvlib:Rollback Transaction.vi	hse-db.lvlib:Test DB_CONNECTOR API.vi

Table 10. Broadcasts Listeners

Broadcast Name	Listeners
hse-db.lvlib:DB_CONNECTOR.lvlib:Module Did Init.vi	hse-db.lvlib:Test DB_CONNECTOR API.vi
hse-db.lvlib:DB_CONNECTOR.lvlib>Status Updated.vi	hse-db.lvlib:Test DB_CONNECTOR API.vi
hse-db.lvlib:DB_CONNECTOR.lvlib>Error Reported.vi	hse-db.lvlib:Test DB_CONNECTOR API.vi
hse-db.lvlib:DB_CONNECTOR.lvlib:Module Did Stop.vi	hse-db.lvlib:Test DB_CONNECTOR API.vi
hse-db.lvlib:DB_CONNECTOR.lvlib:Update Module Execution Status.vi	hse-db.lvlib:Test DB_CONNECTOR API.vi
hse-db.lvlib:DB_CONNECTOR.lvlib:Fast Query Reply.vi	hse-db.lvlib:Test DB_CONNECTOR API.vi

Table 11. Used requests

Module	Requests
hse-db.lvlib	hse-db.lvlib:DB_CONNECTOR.lvlib:Query.vi

Table 12. Registered broadcast

Module	Broadcasts
☒—☒	☒—☒

## A.2.3. MODULE CUSTOM ERRORS



Custom errors are added to the module via vi named `*--error.vi`.

Module DB\_CONNECTOR.lvlib use the following custom errors:

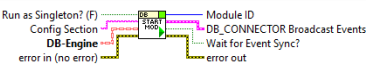
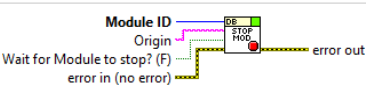
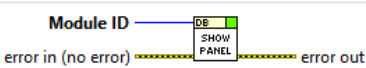
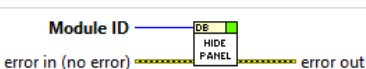
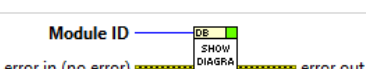

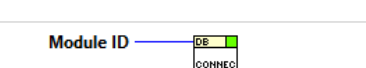
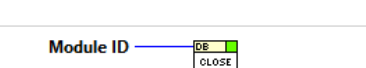
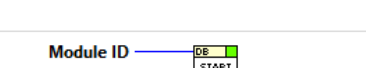
Table 13. Custom errors


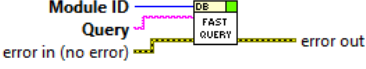

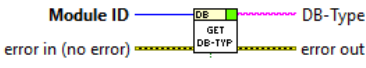

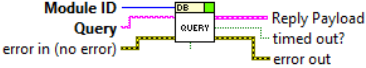

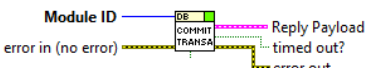

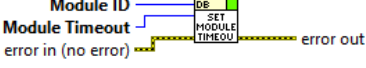





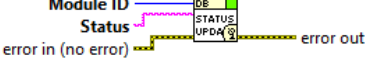

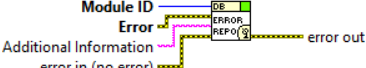

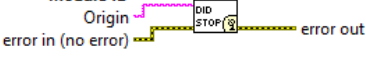

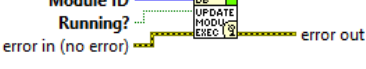


Name	Code	Description
Module Running as Singleton	403680	The "%s" module is currently running as singleton, but the Start Module VI was called with 'Run as Singleton' specified as FALSE.
Module Not Stopped	403682	%s Module did not finish clean up on exit.
Module Not Synced	403683	%s Module was unable to synchronize events.
Module Not Running	403684	Not a single instance of "%s" Module running.
Module Running as Cloneable	403685	The "%s" module is currently running as cloneable, but the Start Module VI was called with 'Run as Singleton' specified as TRUE.
Request Timed Out	403686	The reply for the request "%s" of the "%s" Module timed out.
Request and Wait for Reply Timeout	403686	%s

Name	Code	Description
Master Reference Not Closed	403687	The "%s" module cannot be run as singleton because the Master Reference is still open from a prior run as cloneable. If you plan on running this module as both singleton and cloneable, consider changing your Main VI to wire a value of TRUE to the 'Close Master Reference' input of Init Module.vi.

## A.2.4. EVENT LIST

Table 14. Events

Name	Type	Connector pane	Description	S.	R.	I.
Start Module			Launches the Module Main.vi.			
Stop Module			<p>Send the Stop request to the Module's Main.vi. If <b>Wait for Module to stop?</b> is TRUE, then this VI will not complete execution until the Module Main VI has stopped running.</p> <p><b>Note:</b> If the cloneable module is running as singleton, then the 'Wait for Module to stop?' input is ignored... this VI will <b>always</b> wait until a cloneable Main VI running as singleton has stopped running.</p> <p><b>Note:</b> This VI was modified by the <b>Validate DQMH Module</b> tool to upgrade it to the DQMH 5.1 approach to poll the execution state of a cloneable module running as singleton to know when the module has gone idle.</p>			
Show Panel	→		Send the Show Panel request to the Module's Main.vi.			
Hide Panel	→		Send the Hide Panel request to the Module's Main.vi.			
Show Diagram	→		This VI tells the Module to show its block diagram to facilitate troubleshooting (add probes, breakpoints, highlight execution, etc).			
Configure	→		Triggers the auto-configuration of the module			
Connect	→		Connect to database.			
Close Connection	→		Close connection to the database.			
Start Transaction	→		Start a transaction to get sure all following SQL commands get executed or none.			

Name	Type	Connector pane	Description	S.	R.	I.
Fast Query		 Module ID Query error in (no error) error out	An asynchronous query to the DB. This request does not block and has no reply. To receive the db response register to the corresponding broadcast.			
Get DB-Type		 Module ID error in (no error) error out DB-Type	Returns the type of the database in <b>DB-Type</b>			
Query		 Module ID Query error in (no error) Reply Payload timed out? error out	Send a SQL-Query to the database.			
Commit Transaction		 Module ID error in (no error) Reply Payload timed out? error out	Commit a transaction. Either all SQL-commands get committed or, in case of an error, all get rejected.			
Set Module Timeout		 Module ID Module Timeout error in (no error) error out	Overrides the DQMH internal Module Timeout with the specified value (must be greater than 0)			
Rollback Transaction		 Module ID error in timed out? error out	Rollback the active transaction.			
Module Did Init		 Module ID Origin Initialized? error in (no error) error out	Send the Module Did Init event to any VI registered to listen to this module's broadcast events.			
Status Updated		 Module ID Status error in (no error) error out	Send the Status Updated event to any VI registered to listen to events from the owning module.			
Error Reported		 Module ID Error Additional Information error in (no error) error out	<b>Note:</b> This VI was modified by the <b>Validate DQMH Module</b> tool to parse additional information tags out of the incoming error source string.			
Module Did Stop		 Module ID Origin error in (no error) error out	Send the Module Did Stop event to any VI registered to listen to this module's broadcast events.			
Update Module Execution Status		 Module ID Running? error in (no error) error out	Fire the Get Module Execution Status request.			
Fast Query Reply		 Module ID Return Data Meta Data Field Names error in (no error) error out	The database reply from a (asynchronous) "Fast Query".			

**Type:**  → Request |  → Request and Wait for Reply |  → Broadcast

**Scope:**  → Protected |  → Community

**Reentrancy:**  → Preallocated reentrancy |  → Shared reentrancy

Inlining:  → Inlined



# APPENDIX B: LIBRARIES

Misc. reuse libraries

## B.1. HSE-CONFIG.LVLIB

**Responsibility:** No description found (add content in lvlib description)

**Version:** 1.0.0.0

Table 15. Nested libraries

Name	Type
[config-base.lvclass]	LVClass
[config-ini.lvclass]	LVClass

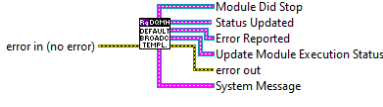
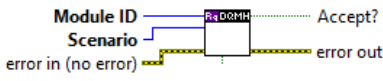
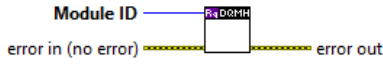
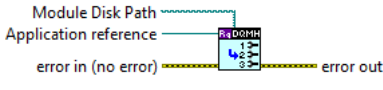
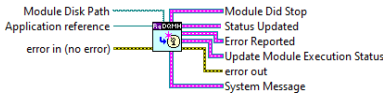
This library has no functions set to non private scope.

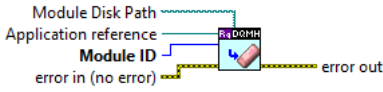
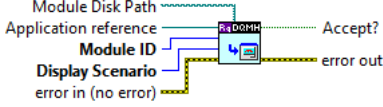
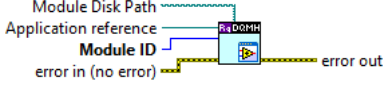
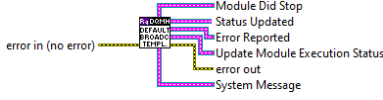


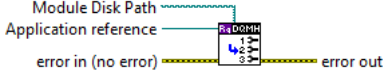
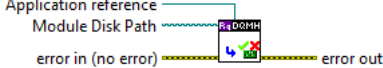
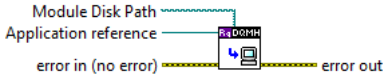
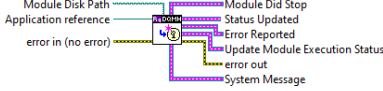
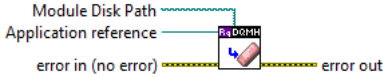
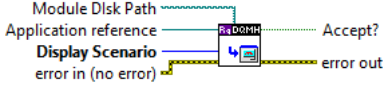
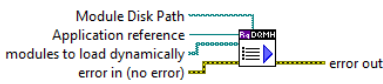
## B.2. HSE-DQMH-DYNAMICREQUESTERS.LVLIB

**Responsibility:** No description found (add content in lvlib description)

**Version:** 1.0.0.0

Table 16. Functions (non private scope only)

Name	Connector pane	Description	S.	R.	I.
Default Broadcast (Cloneable)--template					
Request UI Display (Cloneable)--template		No description found (add content in vi description)			
Show Diagram (Cloneable)--template		No description found (add content in vi description)			
DQMH Configure (Cloneable)		Calls the "Configure" request VI of the module in <b>path</b>			
DQMH Obtain Default Broadcast Events (Cloneable)		Calls the "Obtain Default Broadcast Events" request VI of the module in <b>path</b>			

Name	Connector pane	Description	S.	R.	I.
DQMH Prepare (Cloneable)		Calls the "Prepare" request VI of the module in <b>&lt;b&gt;path&lt;/b&gt;</b>			
DQMH Request UI Display (Cloneable)		Calls the "Request UI Display" request VI of the module in <b>&lt;b&gt;Path to module directory&lt;/b&gt;</b> . Hands over the <b>&lt;b&gt;Module ID&lt;/b&gt;</b> and the <b>&lt;b&gt;Display Scenario&lt;/b&gt;</b> .			
DQMH Show Diagram (Cloneable)		Calls the "Request UI Display" request VI of the module in <b>&lt;b&gt;Path to module directory&lt;/b&gt;</b> . Hands over the <b>&lt;b&gt;Module ID&lt;/b&gt;</b> and the <b>&lt;b&gt;Display Scenario&lt;/b&gt;</b> .			
Default Broadcast—template					
Request UI Display—template		No description found (add content in vi description)			
Set Modules—template		No description found (add content in vi description)			
DQMH Configure		Calls the "Configure" request VI of the module in <b>&lt;b&gt;path&lt;/b&gt;</b>			
DQMH Load API Tester		Calls the "Load Module" request VI of the module in <b>&lt;b&gt;path&lt;/b&gt;</b>			
DQMH Load Module		Calls the "Load Module" request VI of the module in <b>&lt;b&gt;path&lt;/b&gt;</b>			
DQMH Obtain Default Broadcast Events		Calls the "Obtain Default Broadcast Events" request VI of the module in <b>&lt;b&gt;path&lt;/b&gt;</b>			
DQMH Prepare		Calls the "Prepare" request VI of the module in <b>&lt;b&gt;path&lt;/b&gt;</b>			
DQMH Request UI Display		Calls the "Request UI Display" request VI of the module in <b>&lt;b&gt;Path to module directory&lt;/b&gt;</b> . Hands over the <b>&lt;b&gt;Module Name&lt;/b&gt;</b> and the <b>&lt;b&gt;Display Scenario&lt;/b&gt;</b> .			
DQMH Set Modules		Calls the "Set Modules" request VI of the module in <b>&lt;b&gt;Path to module directory&lt;/b&gt;</b> . Hands over paths to all dynamically loaded modules in <b>&lt;b&gt;modules to load dynamically&lt;/b&gt;</b> .			

Name	Connector pane	Description	S.	R.	I.
DQMH Set Runtime Menu		Calls the "Set Runtime Menu" request VI of the module in <b>Path to module directory</b>. Hands over the <b>Path to .rtm file</b>.			
DQMH Show Diagram		Calls the "Request UI Display" request VI of the module in <b>Path to module directory</b>. Hands over the <b>Module Name</b> and the <b>Display Scenario</b>.			
DQMH Show Panel		Calls the "Show Panel" request VI of the module in <b>Path to module directory</b>			
DQMH Stop Module		Calls the "Stop Module" request VI of the module in <b>Path to module directory</b>			

Scope: → Protected | → Community

Reentrancy: → Preallocated reentrancy | → Shared reentrancy

Inlining: → Inlined

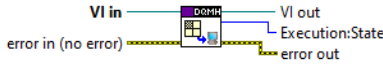

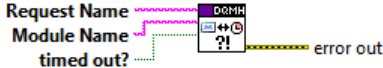

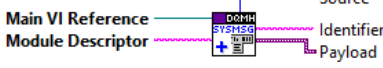

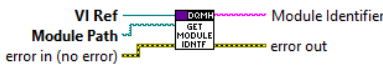

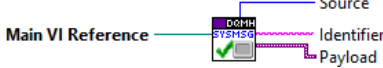

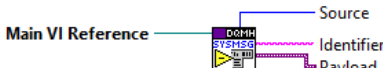




## B.3. HSE-DQMH.LVLIB


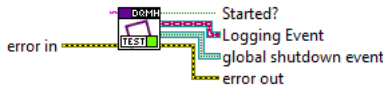
**Responsibility:** No description found (add content in lplib description)

**Version:** 1.0.0.0

Table 17. Functions (non private scope only)

Name	Connector pane	Description	S.	R.	I.
DQMH Build Module Disk Path From DQMH Path		Parses the Instance Name for the Clone ID and returns the full path to the module's directory, the Clone ID and the module's name			
DQMH Get Fully Delimited Instance Name from Module Name		Parses the fully delimited VI name from the module path and the module name. For cloneables, the clone ID is appended to the VI name.			
DQMH Get Module Type		Returns the type (singleton or cloneable) of the module in <b>Module Path</b>			

Name	Connector pane	Description	S.	R.	I.
DQMH Load Main VI Reference		<p>Loads the VI reference to a Singleton DQMH module's main.vi. On Linux RT in Runtime Environment, the main.vi is loaded reentrant in order to circumvent a bug in LabVIEW.</p> <p>Details: On Linux RT with Embedded UI enabled running a startup.exe, a VI server invoke method (Control Value.set) doesn't work. This is possibly related to / covered by CAR 514879 (see <a href="https://forums.ni.com/t5/Delacor-Toolkits-Discussions/Deploy-and-run-at-Startup-for-RT-systems/m-p/3620339/highlight/true#M256">https://forums.ni.com/t5/Delacor-Toolkits-Discussions/Deploy-and-run-at-Startup-for-RT-systems/m-p/3620339/highlight/true#M256</a>).</p> <p>In order for this VI to work, you need to: 1. set the DQMH module's main.vi execution setting to "preallocated clone reentrant execution" 2. set the DQMH module's main.vi scope to "community" 3. add the hse-dqmh.lvlib as a friend in the DQMH module's .lvlib Friends properties</p>			
DQMH Request Reply Timed Out—error		No description found (add content in vi description)			
DQMH System Message - Add to Run-Time Menu		Sends the modul's <b>Path</b> and <b>Module Descriptor</b> via the "Add to Run-Time Menu" System Message broadcast. The UI Manager inserts the module into the relevant locations in the run-time menu.			
DQMH System Message - Get Module Identifier		No description found (add content in vi description)			
DQMH System Message - Ready for Display		No description found (add content in vi description)			
DQMH System Message - Remove from Run-Time Menu		No description found (add content in vi description)			
DQMH System Message - Removed from Subpanel		No description found (add content in vi description)			
DQMH Tester Cleanup hse-appl		If the hse-application object was instantiated and the hse-logger was initialized when starting the Tester, this VI cleans up both objects.			

Name	Connector pane	Description	S.	R.	I.
DQMH Tester Prepare hse- appl - Get Name and Path		<p>Returns APP-NAME as Project Name and /APP-NAME_Source as Project Path</p> <p>HSE projects follow this folder structure: /APP-NAME_Config ..... Configuration Files /APP-NAME_Data ..... Measured and Other Data /APP-NAME_Source ..... LabVIEW Sources /APP-NAME ..... Compiled Application</p> <p>REAL-TIME: As the configuration directory on real-time systems always needs to reside at "C:\&lt;Project Name&gt;_Config\", and as it tedious (embedded UI) or impossible (no embedded UI) to enter the path, it can be supplied via the optional Real-Time App Name string input.</p>			
DQMH Tester Prepare hse- appl		<p>If the hse-application class is not running, queries the user for the path of the containing application and instantiates the hse-appl class. Returns if it did load the class.</p> <p>HSE projects follow this folder structure: /APP-NAME_Config ..... Configuration Files /APP-NAME_Data ..... Measured and Other Data /APP-NAME_Source ..... LabVIEW Sources /APP-NAME ..... Compiled Application</p> <p>The hse-application:ApplicationInit.VI expects the "APP-NAME_Source" folder and the "application name", and processes these to automatically find the "_Config" and "_Data" directories.</p> <p>REAL-TIME: As the configuration directory on real-time systems always needs to reside at "C:\&lt;Project Name&gt;_Config\", and as it tedious (embedded UI) or impossible (no embedded UI) to enter the path, it can be supplied via the optional Real-Time App Name string input.</p>			

Scope:  → Protected |  → Community

Reentrancy:  → Preallocated reentrancy |  → Shared reentrancy















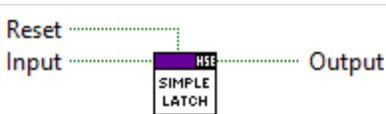


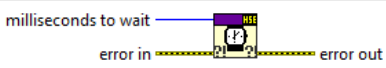

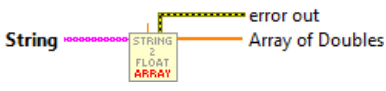

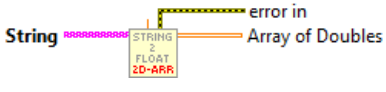

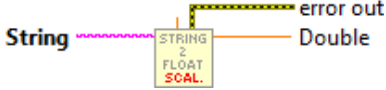

Inlining:  → Inlined

## B.4. HSE-MISC.LVLIB



**Responsibility:** source code password: bowman-tyro-kickback-besides

**Version:** 1.0.0.0

Table 18. Functions (non private scope only)


Name	Connector pane	Description	S.	R.	I.
ColorCycle	 <p>Colorcycle Reset Error In</p> <p>Color All Colors Color Count Error Out</p>	<p>With every call, this VI returns a color from a color pallet. If the last color from a pallet is reached, the VI continues with the first color.</p> <p>This Vi is useful to give plots and graphs better looking colors.</p> <p>The color sets are inspired by a subset of the colormaps from the Python plotting library Matplotlib.</p>			
Get Enum Details from Type String	 <p>type string IN</p> <p>Name Item Strings Item Count</p>	No description found (add content in vi description)			
Get Multiple Attributes from Variant	 <p>Variant in Keys error in</p> <p>Values error out</p>	No description found (add content in vi description)			
Graph Scale Axis	 <p>Values error in</p> <p>Maximum Minimum error out</p>	Calculates usefull values for the Graph scaling (Minimum, Maximum) that go 10% over the min/max-values and include zero.			
Set Multiple Attributes to Variant	 <p>Variant in Keys Values error in</p> <p>Variant out error out</p>	Set multiple attributes (key-values-pairs) to a variant.			
Simple Edge Detection (Falling)	 <p>Current Bit</p> <p>Falling Edge found?</p>	<p>Returns True if a falling edge (True -&gt; False) occures.</p> <p>(This VI is inlined.)</p>			
Simple Edge Detection (Rising)	 <p>Current Bit</p> <p>Rising Edge found?</p>	<p>Returns True if a rising edge (False -&gt; True) occures.</p> <p>(This VI is inlined.)</p>			
Simple Latch	 <p>Reset Input</p> <p>Output</p>	A simple boolean latch with reset functionality.			
Wait_ErrorCluster	 <p>milliseconds to wait error in</p> <p>error out</p>	Simple wrapper for the Wait function that allows for data flow.			
ConvertStringToFloat_Array-1D	 <p>String</p> <p>error out Array of Doubles</p>	converts array of string values to floating point values			
ConvertStringToFloat_Array-2D	 <p>String</p> <p>error in Array of Doubles</p>	converts array of string values to floating point values			
ConvertStringToFloat_Scalar	 <p>String</p> <p>error out Double</p>	converts single string value to floating point value			


Name	Connector pane	Description	S.	R.	I.
Filename Sanitizer		+++Removes all characters that are not supported in filenames (/ \ : * ? " < >)	)		
:imgpath: empty.png [empty.png]	Find Data Type	:imgpath: hse_misc.lvlib_Find_Data_Type.vi___.png [hse- misc.lvlib:Find Data Type.vi]	N		


Name	Connector pane	Description	S.	R.	I.
:imgpath: empty.png [empty.png]	Represent Boolean	:imgpath: hse_misc.lvlib_Represent_Boolean.vi____.png [hse-misc.lvlib:Represent Boolean.vi]	N o d e s c r i p t i o n f o u n d (a d d c o n t e n t i n v i d e s c r i p t i o n)		
:imgpath: inlined.png [inlined.png]	Text to UTF-8 Wrapper	:imgpath: hse_misc.lvlib_Text_to_UTF_8_Wrapper.vi____.png [hse-misc.lvlib:Text to UTF-8 Wrapper.vi]	C o n v e r t s L a b V I E W t e x t t o U T F - 8.		




Name	Connector pane	Description	S.	R.	I.
:imgpath: inlined.png [inlined.png]	UTF-8 to Text Wrapper	:imgpath: hse_misc.lvlib_UTF_8_to_Text_Wrapper.vi____.png [hse-misc.lvlib:UTF-8 to Text Wrapper.vi]	Converts UTF-8 text to text encoded in the specified system.		
:imgpath: inlined.png [inlined.png]	U8-Array to U64	:imgpath: hse_misc.lvlib_U8_Array_to_U64.vi____.png [hse-misc.lvlib:U8-Array to U64.vi]	Convert an array of Bytes (U8) to an array of U64.		


Name	Connector pane	Description	S.	R.	I.
:imgpath: empty.png [empty.png]	U64-Array to U8	:imgpath: hse_misc.lvlib_U64_Array_to_U8.vi____.png [hse- misc.lvlib:U64-Array to U8.vi]	Co nv er t an ar ra y of U6 4 to an ar ra y of By te s (U 8).		

Name	Connector pane	Description	S.	R.	I.
:imgpath: empty.png [empty.png]	Variant_BuildClusterFromElementArray	:imgpath: hse_misc.lvlib_Variant_BuildClusterFromElementArray.vi___.png [hse- misc.lvlib:Variant_BuildClusterFromElementArray.vi]	Fr o m th e La bV IE W O pe n So ur ce pr oj ec t Da ta M an ip ul ati on lib ra ry v1 .4. 0 by Fr an co is N or m an di n (ht tp s:/ /gi th ub .c o m/ La bV IE W- O pe n		

Name	Connector pane	Description	S.	R.	I.
:imgpath: inlined.png [inlined.png]	Variant_EmptyCluster	:imgpath: hse_misc.lvlib_Variant_EmptyCluster.vi____.png [hse-misc.lvlib:Variant_EmptyCluster.vi]	Fr o m th e La bV IE W O pe n So ur ce pr oj ec t Da ta M an ip ul ati on lib ra ry v1 .4. 0 by Fr an co is N or m an di n (ht tp s:/ /gi th ub .c o m/ La bV IE W- O pe n- So		

Name	Connector pane	Description	S.	R.	I.
:imgpath: inlined.png [inlined.png]	LV Timestamp to Unix Epoch	:imgpath: hse_misc.lvlib_LV_Timestamp_to_Unix_Epoch.vi _.png [hse-misc.lvlib:LV Timestamp to Unix Epoch.vi]	Co nv ert a La bV ie w Ti m es ta m p (U TC Ti m ez on e) to a U ni x Ep oc h Ti m es ta m p (C ti m e_ t).		



Name	Connector pane	Description	S.	R.	I.
:imgpath: inlined.png [inlined.png]	Seconds to Time	:imgpath: hse_misc.lvlib_Seconds_to_Time.vi____.png [hse- misc.lvlib:Seconds to Time.vi]	Co nv er t a t i m e r a n g e (in se co nd s) to a t i m e str in g in th e for m at "h h: m m: ss ". E. g. 36 80 s -> "0 1: 01 :2 0".		


Name	Connector pane	Description	S.	R.	I.
:imgpath: empty.png [empty.png]	Unix Epoch to LV Timestamp	:imgpath: hse_misc.lvlib_Unix_Epoch_to_LV_Timestamp.vi _.png [hse-misc.lvlib:Unix Epoch to LV Timestamp.vi]	Co nv ert a U ni x Ep oc h Ti m es ta m p (C ti m e_ t) to a La bV ie w Ti m es ta m p (U TC Ti m ez on e).		


Name	Connector pane	Description	S.	R.	I.
:imgpath: inlined.png [inlined.png]	Error_AddAdditionalInformation	:imgpath: hse_misc.lvlib_Error_AddAdditionalInformation. vi__.png [hse- misc.lvlib>Error_AddAdditionalInformation.vi]	Ad ds <b >A dd iti on al Inf o< /b > to th e so ur ce of <b >E rr or In </ b>		



Name	Connector pane	Description	S.	R.	I.
:imgpath: empty.png [empty.png]	Error_AppendErrorsToSource	:imgpath: hse_misc.lvlib_Error_AppendErrorsToSource.vi_ _.png [hse- misc.lvlib>Error_AppendErrorsToSource.vi]	Take s th e fir st el e m en t of <b> >e rr or s in </ b> an d co nc at en at es all ot he r el e m en ts' co de an d so ur ce int o th e so ur ce of th e fir st er ro r		

Name	Connector pane	Description	S.	R.	I.
:imgpath: empty.png [empty.png]	Error_Clear	:imgpath: hse_misc.lvlib_Error_Clear.vi___.png [hse-misc.lvlib>Error_Clear.vi]	Clears the error in <b>error in</b>		
:imgpath: empty.png [empty.png]	Error_Helper_BuildCluster	:imgpath: hse_misc.lvlib_Error_Helper_BuildCluster.vi___.png [hse-misc.lvlib>Error_Helper_BuildCluster.vi]	Builds an error cluster from <b>Code</b> and <b>Additional Info</b>		

Name	Connector pane	Description	S.	R.	I.
:imgpath: empty.png [empty.png]	Error_Helper_OverwriteCluster	:imgpath: hse_misc.lvlib_Error_Helper_OverwriteCluster.vi __.png [hse- misc.lvlib>Error_Helper_OverwriteCluster.vi]	If <b>Error Information with <b>Code</b> > and <b>Additional Info</b>.		

Name	Connector pane	Description	S.	R.	I.
:imgpath: empty.png [empty.png]	Error_Helper_RaiseError	:imgpath: hse_misc.lvlib_Error_Helper_RaiseError.vi____.png [hse-misc.lvlib>Error_Helper_RaiseError.vi]	If <b>RaiseError? </b> is true, , puts the error in <b>ErrorToRaise </b> on the error output and adds <b>Additional Info</b> > to the source of the er		





Name	Connector pane	Description	S.	R.	I.
:imgpath: empty.png [empty.png]	Error_Helper_RaiseErrorFromLabel	:imgpath: hse_misc.lvlib_Error_Helper_RaiseErrorFromLabel.vi___.png [hse- misc.lvlib>Error_Helper_RaiseErrorFromLabel.vi]	If <b >R ais e? </ b> is tr ue , se ts an er ro r wi th co de se t by <b >E rr or La be ls< /b > an d so ur ce by <b >A dd iti on al Inf o< /b >		


Name	Connector pane	Description	S.	R.	I.
:imgpath: empty.png [empty.png]	Error_LogToFile	:imgpath: hse_misc.lvlib_Error_LogToFile.vi___.png [hse- misc.lvlib>Error_LogToFile.vi]	If <b> >e rr or in </ b> is tr ue , wr ite s th e er ro r to th e fil e id en tifi ed by <b> >p at h< /b > an d cl ea rs th e er ro r.		


Name	Connector pane	Description	S.	R.	I.
:imgpath: empty.png [empty.png]	Event_CloseRegistrationRef	:imgpath: hse_misc.lvlib_Event_CloseRegistrationRef.vi__. png [hse- misc.lvlib:Event_CloseRegistrationRef.vi]	U n r e g i s t e r s t h e g i v e n e v e n t r e g i s t r a t i o n f r o m t h e H S E- E v e n t		


Name	Connector pane	Description	S.	R.	I.
:imgpath: inlined.png [inlined.png]	Event_Generate	:imgpath: hse_misc.lvlib_Event_Generate.vi____.png [hse- misc.lvlib:Event_Generate.vi]	Ge ne ra te s an HS E- Ev en t an d se nd s <b >N a m e< /b >, <b >P ar a m et er </ b> an d <b >D at a< /b > as ev en t da ta.		




Name	Connector pane	Description	S.	R.	I.
:imgpath: inlined.png [inlined.png]	Event_GetRefAndReg	:imgpath: hse_misc.lvlib_Event_GetRefAndReg.vi__.png [hse-misc.lvlib:Event_GetRefAndReg.vi]	Ge ts th e HS E- Ev en t ref nu m an d a ne w ev en t re gis tr ati on ref nu m for it.		
:imgpath: inlined.png [inlined.png]	Event_LoadOrCreateRefs	:imgpath: hse_misc.lvlib_Event_LoadOrCreateRefs.vi__.png [hse-misc.lvlib:Event_LoadOrCreateRefs.vi]	Re tu rn s th e ref nu m of th e HS E- Ev en t		
:imgpath: inlined.png [inlined.png]	Hash Core	:imgpath: hse_misc.lvlib_Hash_Core.vi__.png [hse-misc.lvlib:Hash Core.vi]			
:imgpath: empty.png [empty.png]	Hash	:imgpath: hse_misc.lvlib_Hash.vi__.png [hse- misc.lvlib:Hash.vi]			

Name	Connector pane	Description	S.	R.	I.
:imgpath: empty.png [empty.png]	Delete Duplicates From 1D- Array (String)	:imgpath: hse_misc.lvlib_Delete_Duplicates_From_1D_Arr ay_(String).vi___.png [hse-misc.lvlib>Delete Duplicates From 1D-Array (String).vi]	(v 0. 2. 1b ; 20 17 -0 8- 14 16 :4 4)		

Name	Connector pane	Description	S.	R.	I.
:imgpath: empty.png [empty.png]	Sort 2D-Array	:imgpath: hse_misc.lvlib_Sort_2D_Array.vi____.png [hse-misc.lvlib:Sort 2D-Array.vi]	Sorts a 2D string array by the column declared in <b>Search parameters</b> and by <b>Sort Order</b>.		

Name	Connector pane	Description	S.	R.	I.
:imgpath: empty.png [empty.png]	String_PadWithCharacters	:imgpath: hse_misc.lvlib_String_PadWithCharacters.vi__p ng [hse-misc.lvlib:String_PadWithCharacters.vi]	Ad ds <b >c ha r (A SC II) </ b> ch ar ac ter s to <b >s tr in </ b> un til it is <b >l en gt h< /b > ch ar ac ter s lo ng .  Co m m on AS CII ch ar ac ter s: 0x 09 ... ta b		
			0x 20		


Name	Connector pane	Description	S.	R.	I.
:imgpath: empty.png [empty.png]	String_StripNullValues	:imgpath: hse_misc.lvlib_String_StripNullValues.vi___.png [hse-misc.lvlib:String_StripNullValues.vi]	Re m ov es all N U L L va lu es fro m a str in g		


Name	Connector pane	Description	S.	R.	I.
:imgpath: empty.png [empty.png]	Generate Clone Name	:imgpath: hse_misc.lvlib_Generate_Clone_Name.vi____.png [hse-misc.lvlib:Generate Clone Name.vi]	Give n th e ful ly qu ali fie d na me of a VI (m ea ni ng th e na me in cl ud es an y lib ra ry na me es pa ce pr efi xe s), thi s VI ret ur ns th e na me of a cl on e of		

Name	Connector pane	Description	S.	R.	I.
:imgpath: empty.png [empty.png]	ShowRunningVIs	:imgpath: hse_misc.lvlib_ShowRunningVIs.vi____.png [hse- misc.lvlib:ShowRunningVIs.vi]	Re tu rn s a li st of VI s in me m or y		
			or th e fir st cl on e th at ge ts cr ea te d, bu t yo u ca n re qu es t th e Nt h cl on e by su pp lyi ng th e "C lo ne		


Name	Connector pane	Description	S.	R.	I.
:imgpath: empty.png [empty.png]	StringLogger	:imgpath: hse_misc.lvlib_StringLogger.vi___.png [hse-misc.lvlib:StringLogger.vi]	Simple helper VI for writing data to a log file.		
			<b>Path Data</b> <b>Label</b> for the folder structure, and <b>Function</b> is part of the		



Name	Connector pane	Description	S.	R.	I.
:imgpath: empty.png [empty.png]	TypeDescriptor_GetName	:imgpath: hse_misc.lvlib_TypeDescriptor_GetName.vi__pn g [hse-misc.lvlib:TypeDescriptor_GetName.vi]	Fr o m th e La bV IE W O pe n So ur ce pr oj ec t Da ta M an ip ul ati on lib ra ry v1 .4. 0 by Fr an co is N or m an di n (ht tp s:/ /gi th ub .c o m/ La bV IE W- O pe n		

Name	Connector pane	Description	S.	R.	I.
:imgpath: inlined.png [inlined.png]	TypeDescriptor_GetPString	:imgpath: hse_misc.lvlib_TypeDescriptor_GetPString.vi__. png [hse- misc.lvlib:TypeDescriptor_GetPString.vi]	Fr o m th e La bV IE W O pe n So ur ce pr oj ec t Da ta M an ip ul ati on lib ra ry v1 .4. 0 by Fr an co is N or m an di n (ht tp s:/ /gi th ub .c o m/ La bV IE W- O pe n- So		

Scope:  → Protected |  → Community

Reentrancy:  → Preallocated reentrancy |  → Shared reentrancy

Inlining:  → Inlined

## B.5. HSE-DB-ADO.LVLIB

**Responsibility:** No description found (add content in lvlib description)

**Version:** 1.0.0.0

Table 19. Nested libraries

Name	Type
[DB-ADO.lvclass]	LVClass
ADO-DB-Driver.lvlib	Library


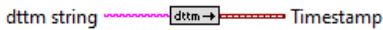


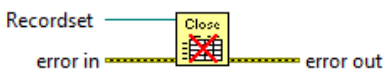
This library has no functions set to non private scope.


## B.6. ADO-DB-DRIVER.LVLIB

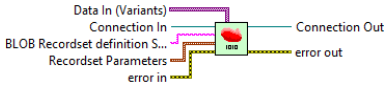
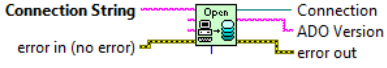
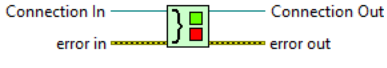
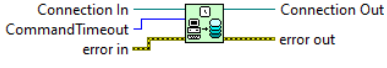
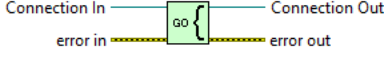
**Responsibility:** ADO-DB driver.


**Version:** 1.0.0.0


Table 20. Functions (non private scope only)

Name	Connector pane	Description	S.	R.	I.
convert " to NULL		No description found (add content in vi description)			
Convert from date-first Timestamp		No description found (add content in vi description)			
Convert to date-first Timestamp		No description found (add content in vi description)			
format floats for database		No description found (add content in vi description)			
format floats[] for database	[hse db ado.lvlib ADO DB Driver]_for_database.vi_.png[ hse-db-ado.lvlib:ADO-DB-Driver.lvlib:format floats[] for database.vi]	No description found (add content in vi description)			
Close Recordset+		No description found (add content in vi description)			

Name	Connector pane	Description	S.	R.	I.
Create New Record in Recordset		No description found (add content in vi description)			
Open Recordset+		No description found (add content in vi description)			
parse field names from SELECT statement		No description found (add content in vi description)			
Read Recordset (DBVIEW)		No description found (add content in vi description)			
Read Recordset (DOUBLE)		No description found (add content in vi description)			
Read Recordset (STRING)		No description found (add content in vi description)			
Read Recordset (VARIANT)		No description found (add content in vi description)			
SQLSTATE Lookup		No description found (add content in vi description)			
_Database Driver Catalog		No description found (add content in vi description)			
Close Connection+		No description found (add content in vi description)			
Create and Read Recordset		No description found (add content in vi description)			
Execute SQL Command (no data returned)		No description found (add content in vi description)			
Get Database Errors		No description found (add content in vi description)			
Get Table Info		No description found (add content in vi description)			

Name	Connector pane	Description	S.	R.	I.
Insert BLOB data		No description found (add content in vi description)			
Open Connection+		No description found (add content in vi description)			
Rollback Transaction on Error		No description found (add content in vi description)			
Set Command Timeout		No description found (add content in vi description)			
Start Transaction		No description found (add content in vi description)			

Scope:  → Protected |  → Community

Reentrancy:  → Preallocated reentrancy |  → Shared reentrancy

Inlining:  → Inlined

## B.7. HSE-DB-MYSQL.LVLIB

**Responsibility:** No description found (add content in lvlib description)

**Version:** 1.0.0.0

Table 21. Nested libraries

Name	Type
[DB-MYSQL.lvclass]	LVClass
MySQL (TCP).lvlib	Library

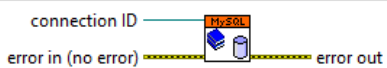

This library has no functions set to non private scope.

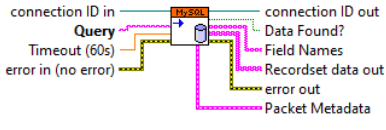

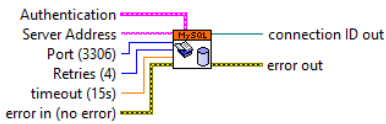

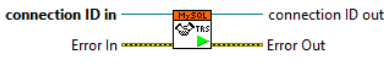

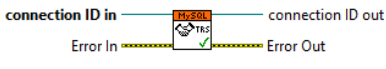

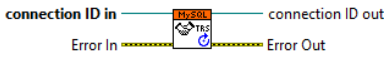



## B.8. MYSQL (TCP).LVLIB

**Responsibility:** No description found (add content in lvlib description)

**Version:** 1.0.0.0

Table 22. Functions (non private scope only)

Name	Connector pane	Description	S.	R.	I.
Close Connection		No description found (add content in vi description)			

Name	Connector pane	Description	S.	R.	I.
Execute		No description found (add content in vi description)			
Open Connection		No description found (add content in vi description)			
Begin Transaction		No description found (add content in vi description)			
Commit Transaction		No description found (add content in vi description)			
Rollback Transaction		No description found (add content in vi description)			
Validate Connection		No description found (add content in vi description)			

Scope:  → Protected |  → Community

Reentrancy:  → Preallocated reentrancy |  → Shared reentrancy

Inlining:  → Inlined

## B.9. HSE-DB-SQLITE.LVLIB

**Responsibility:** No description found (add content in lvlib description)

**Version:** 1.0.0.0

Table 23. Nested libraries

Name	Type
[DB-SQLite.lvclass]	LVClass

This library has no functions set to non private scope.