

Documentacion proyecto 1er parcial

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1. Project description

In this project the user will be able to Add or Delete a user in a database sistem using tags that contains a specific color, a specific letter and a specific bar code. These tags will be readen by a camera in continuous acquisition, another module in charge of analyze the data from acquisition will send it to the Database module that will Add or delete them from de sistem. The user also will be able to decide whether add or delete the user clicking in config menu and selecting the option.

2. Code component descriptions

2.1. DQMH® modules

This section describes DQMH® module responsibilities and relationships.

2.1.1. Preamble

A DQMH module is the main component of an architecture based on DQMH® framework. A DQMH module is used to implement a section of the application that has one responsibility.

DQMH® framework defines two different type of DQMH module.

Singleton:

A Singleton DQMH module can have only one instance running at any given time.

Cloneable:

A Cloneable DQMH module can have one or multiple instances running in parallel.

DQMH® framework defines two different ways to carry data throughout the application and with both other DQMH modules and non-DQMH based code.

Request events:

A request is a code that fires an event requesting the DQMH module to do something. Multiple locations in the code can send events to the DQMH module.

Request events are many-to-one.

Requests are usually named using imperative tense.

Broadcast events:

A broadcast is a code that fires an event broadcasting that the DQMH module did something. Multiple Event Structures can register to handle the Broadcast Events.

Broadcast Events are one-to-many.

Broadcasts are usually named using past tense or passive voice.



Refer to the DQMH® framework official [documentation](http://delacor.com/documentation/dqmh-html/)

(<http://delacor.com/documentation/dqmh-html/>) to find more details on how the framework works

The following section gives you details on the project architecture relying on this framework. It gives you an overview of the modules' interaction and detailed information on each module.

Graphs used in this section have the following legend:

Components:

```
digraph G67535 {
  rankdir=LR;
  edge[dir=both color=black arrowhead=normal arrowtail=none style=filled penwidth=1]
  node[color=black shape=box]
  "DQMH module / Lvlib"[color=black shape=component]
  "Vi"[color=skyblue shape=note]
}
```

Events:

```
digraph G458687 {
  rankdir=LR;
  edge[dir=both color=black arrowhead=normal arrowtail=none style=filled penwidth=1]
  node[color=black shape=box]
  " "[color=white shape=box]
  " "[color=white shape=box]
  " "[color=white shape=box]
  " "[color=white shape=box]
  " " -> " " [label="Request to a DQMH module" dir=both color=forestgreen arrowhead=normal arrowtail=none
  style=filled penwidth=1];
  " " -> " " [label="Broadcast from a DQMH module" dir=both color=goldenrod arrowhead=normal arrowtail=none
  style=dashed penwidth=1];
}
```

Start and Stop module callers:

```
digraph G726950 {
  rankdir=LR;
  edge[dir=both color=black arrowhead=normal arrowtail=none style=filled penwidth=1]
  node[color=black shape=box]
  "Start Module
  caller"[color=black shape=component]
  "Start Module"[color=yellowgreen shape=note]
  "Start Module" -> "Start Module
  caller" [label="Called by" dir=both color=yellowgreen arrowhead=odot arrowtail=inv style=filled penwidth=1];
}
```

```
digraph G644327 {
  rankdir=LR;
  edge[dir=both color=black arrowhead=normal arrowtail=none style=filled penwidth=1]
  node[color=black shape=box]
  "Stop Module
  caller"[color=black shape=component]
  "Stop Module"[color=tomato shape=note]
  "Stop Module" -> "Stop Module
  caller" [label="Called by" dir=both color=tomato arrowhead=odot arrowtail=inv style=dotted penwidth=1];
}
```

2.1.2. Modules overview

This project contains the following modules.

Table 1. Modules list

Singleton	Cloneable
Acquisition.lvlib	
Analisis.lvlib	
Configuracion.lvlib	
Database.lvlib	
Mensajes.lvlib	
UI.lvlib	

This graph represents the links between all DQMH modules.

```

digraph G19710 {
  rankdir=LR;
  edge[dir=both color=black arrowhead=normal arrowtail=none style=filled penwidth=1]
  node[color=black shape=box]
  "UI"[color=black shape=component]
  "Acquisition"[color=black shape=component]
  "Analisis"[color=black shape=component]
  "Configuracion"[color=black shape=component]
  "Database"[color=black shape=component]
  "Mensajes"[color=black shape=component]
  "Acquisition" -> "Acquisition" [dir=both color=forestgreen arrowhead=normal arrowtail=none style=filled penwidth=1];
  "UI" -> "Acquisition" [dir=both color=forestgreen arrowhead=normal arrowtail=none style=filled penwidth=1];
  "Analisis" -> "Analisis" [dir=both color=forestgreen arrowhead=normal arrowtail=none style=filled penwidth=1];
  "UI" -> "Analisis" [dir=both color=forestgreen arrowhead=normal arrowtail=none style=filled penwidth=1];
  "Acquisition" -> "Analisis" [dir=both color=forestgreen arrowhead=normal arrowtail=none style=filled penwidth=1];
  "Configuracion" -> "Configuracion" [dir=both color=forestgreen arrowhead=normal arrowtail=none style=filled penwidth=1];
  "UI" -> "Configuracion" [dir=both color=forestgreen arrowhead=normal arrowtail=none style=filled penwidth=1];
  "Database" -> "Database" [dir=both color=forestgreen arrowhead=normal arrowtail=none style=filled penwidth=1];
  "UI" -> "Database" [dir=both color=forestgreen arrowhead=normal arrowtail=none style=filled penwidth=1];
  "Analisis" -> "Database" [dir=both color=forestgreen arrowhead=normal arrowtail=none style=filled penwidth=1];
  "Configuracion" -> "Database" [dir=both color=forestgreen arrowhead=normal arrowtail=none style=filled penwidth=1];
  "Mensajes" -> "Mensajes" [dir=both color=forestgreen arrowhead=normal arrowtail=none style=filled penwidth=1];
  "UI" -> "Mensajes" [dir=both color=forestgreen arrowhead=normal arrowtail=none style=filled penwidth=1];
  "Configuracion" -> "Mensajes" [dir=both color=forestgreen arrowhead=normal arrowtail=none style=filled penwidth=1];
  "Database" -> "Mensajes" [dir=both color=forestgreen arrowhead=normal arrowtail=none style=filled penwidth=1];
  "UI" -> "UI" [dir=both color=forestgreen arrowhead=normal arrowtail=none style=filled penwidth=1];
}

```

2.1.3. Acquisition.lvlib

Type: Singleton

Responsibility: In this module all data will be acquire for it analisis in Analisis module

Module Start/Stop calls

```

digraph G351495 {
  rankdir=LR;
  edge[dir=both color=black arrowhead=normal arrowtail=none style=filled penwidth=1]
  node[color=black shape=box]
  "Start Module"[color=yellowgreen shape=note]
  "UI"[color=black shape=component]
  "Test Acquisition API"[color=skyblue shape=note]
  "Stop Module"[color=tomato shape=note]
  "Acquisition"[color=black shape=component]
  "Start Module" -> "UI" [dir=both color=yellowgreen arrowhead=odot arrowtail=inv style=filled penwidth=1];
  "Start Module" -> "Test Acquisition API" [dir=both color=yellowgreen arrowhead=odot arrowtail=inv style=filled penwidth=1];
  "Stop Module" -> "Acquisition" [dir=both color=tomato arrowhead=odot arrowtail=inv style=dotted penwidth=1];
  "Stop Module" -> "UI" [dir=both color=tomato arrowhead=odot arrowtail=inv style=dotted penwidth=1];
  "Stop Module" -> "Test Acquisition API" [dir=both color=tomato arrowhead=odot arrowtail=inv style=dotted penwidth=1];
}

```

Table 2. Start and Stop module callers

Function	Callers
Acquisition.lvlib:Start Module.vi	UI.lvlib:Main.vi Test Acquisition API.vi
Acquisition.lvlib:Stop Module.vi	Acquisition.lvlib:Handle Exit.vi UI.lvlib:Main.vi Test Acquisition API.vi

Module relationship

```

digraph G91185 {
rankdir=LR;
edge[dir=both color=black arrowhead=normal arrowtail=none style=filled penwidth=1]
node[color=black shape=box]
"Acquisition"[color=slateblue shape=component]
"UI"[color=black shape=component]
"Test Acquisition API"[color=skyblue shape=note]
"Analisis"[color=black shape=component]
"UI" -> "Acquisition" [dir=both color=forestgreen arrowhead=normal arrowtail=none style=filled penwidth=1];
"Test Acquisition API" -> "Acquisition" [dir=both color=forestgreen arrowhead=normal arrowtail=none style=filled penwidth=1];
"Acquisition" -> "Acquisition" [dir=both color=forestgreen arrowhead=normal arrowtail=none style=filled penwidth=1];
"Acquisition" -> "Test Acquisition API" [label=" " dir=both color=goldenrod arrowhead=normal arrowtail=none style=dashed penwidth=1];
"Acquisition" -> "Acquisition" [label=" " dir=both color=forestgreen arrowhead=normal arrowtail=none style=filled penwidth=1];
"Acquisition" -> "Analisis" [label=" " dir=both color=forestgreen arrowhead=normal arrowtail=none style=filled penwidth=1];
}

```

Table 3. Requests callers

Request Name	Callers
Acquisition.lvlib:Show Panel.vi	Test Acquisition API.vi
Acquisition.lvlib:Hide Panel.vi	Test Acquisition API.vi
Acquisition.lvlib:Get Module Execution Status.vi	Acquisition.lvlib:Start Module.vi Acquisition.lvlib:Obtain Broadcast Events for Registration.vi
Acquisition.lvlib:Show Diagram.vi	Test Acquisition API.vi
Acquisition.lvlib:Start Acquisition.vi	UI.lvlib:Main.vi Test Acquisition API.vi

Request Name	Callers
Acquisition.lvlib:Stop Acquisition.vi	UI.lvlib:Main.vi Test Acquisition API.vi

Table 4. Broadcasts Listeners

Broadcast Name	Listeners
Acquisition.lvlib:Module Did Init.vi	Test Acquisition API.vi
Acquisition.lvlib:Status Updated.vi	Test Acquisition API.vi
Acquisition.lvlib:Error Reported.vi	Test Acquisition API.vi
Acquisition.lvlib:Module Did Stop.vi	Test Acquisition API.vi
Acquisition.lvlib:Update Module Execution Status.vi	Test Acquisition API.vi
Acquisition.lvlib:Start ACQ.vi	

Table 5. Used requests

Module	Brodcasts
Acquisition.lvlib	Acquisition.lvlib:Get Module Execution Status.vi
Analisis.lvlib	Analisis.lvlib:Start.vi

Table 6. Registred broadcast

Module	Brodcasts
—	—

2.1.4. Analisis.lvlib

Type: Singleton

Responsibility: In this VI the user will be able to see the information that the acquisition module is sending

Module Start/Stop calls

```
digraph G3762 {
rankdir=LR;
edge[dir=both color=black arrowhead=normal arrowtail=none style=filled penwidth=1]
node[color=black shape=box]
"Start Module"[color=yellowgreen shape=note]
"UI"[color=black shape=component]
"Test Analisis API"[color=skyblue shape=note]
"Stop Module"[color=tomato shape=note]
"Analisis"[color=black shape=component]
"Start Module" -> "UI" [dir=both color=yellowgreen arrowhead=odot arrowtail=inv style=filled penwidth=1];
"Start Module" -> "Test Analisis API" [dir=both color=yellowgreen arrowhead=odot arrowtail=inv style=filled penwidth=1];
"Stop Module" -> "Analisis" [dir=both color=tomato arrowhead=odot arrowtail=inv style=dotted penwidth=1];
"Stop Module" -> "UI" [dir=both color=tomato arrowhead=odot arrowtail=inv style=dotted penwidth=1];
"Stop Module" -> "Test Analisis API" [dir=both color=tomato arrowhead=odot arrowtail=inv style=dotted penwidth=1];
}
```

Table 7. Start and Stop module callers

Function	Callers
Analisis.lvlib:Start Module.vi	UI.lvlib:Main.vi Test Analisis API.vi
Analisis.lvlib:Stop Module.vi	Analisis.lvlib:Handle Exit.vi UI.lvlib:Main.vi Test Analisis API.vi

Module relationship

```
digraph G153997 {
rankdir=LR;
edge[dir=both color=black arrowhead=normal arrowtail=none style=filled penwidth=1]
node[color=black shape=box]
"Analisis"[color=slateblue shape=component]
"UI"[color=black shape=component]
"Test Analisis API"[color=skyblue shape=note]
"Acquisition"[color=black shape=component]
"Database"[color=black shape=component]
"UI" -> "Analisis" [dir=both color=forestgreen arrowhead=normal arrowtail=none style=filled penwidth=1];
"Test Analisis API" -> "Analisis" [dir=both color=forestgreen arrowhead=normal arrowtail=none style=filled penwidth=1];
"Analisis" -> "Analisis" [dir=both color=forestgreen arrowhead=normal arrowtail=none style=filled penwidth=1];
"Acquisition" -> "Analisis" [dir=both color=forestgreen arrowhead=normal arrowtail=none style=filled penwidth=1];
"Analisis" -> "Test Analisis API" [label=" " dir=both color=goldenrod arrowhead=normal arrowtail=none style=dashed penwidth=1];
"Analisis" -> "Analisis" [label=" " dir=both color=forestgreen arrowhead=onormal arrowtail=none style=filled penwidth=1];
"Analisis" -> "Database" [label=" " dir=both color=forestgreen arrowhead=onormal arrowtail=none style=filled penwidth=1];
}
```

Table 8. Requests callers

--

Request Name	Callers
Analysis.lvlib:Show Panel.vi	Test Analysis API.vi
Analysis.lvlib:Hide Panel.vi	Test Analysis API.vi
Analysis.lvlib:Get Module Execution Status.vi	Analysis.lvlib:Start Module.vi Analysis.lvlib:Obtain Broadcast Events for Registration.vi
Analysis.lvlib:Show Diagram.vi	Test Analysis API.vi
Analysis.lvlib:Start.vi	Acquisition.lvlib:Main.vi Test Analysis API.vi
Analysis.lvlib:stop analysis.vi	Test Analysis API.vi

Table 9. Broadcasts Listeners

Broadcast Name	Listeners
Analysis.lvlib:Module Did Init.vi	Test Analysis API.vi
Analysis.lvlib:Status Updated.vi	Test Analysis API.vi
Analysis.lvlib:Error Reported.vi	Test Analysis API.vi
Analysis.lvlib:Module Did Stop.vi	Test Analysis API.vi
Analysis.lvlib:Update Module Execution Status.vi	Test Analysis API.vi

Table 10. Used requests

Module	Brodcasts
Analysis.lvlib	Analysis.lvlib:Get Module Execution Status.vi
Database.lvlib	Database.lvlib:Database info.vi

Table 11. Registred broadcast

--

Module	Brodcasts
—	—

2.1.5. Configuracion.lvlib

Type: Singleton

Responsibility: In this VI the user would be able to select if they want to add or delete a user saved in the database.

Module Start/Stop calls

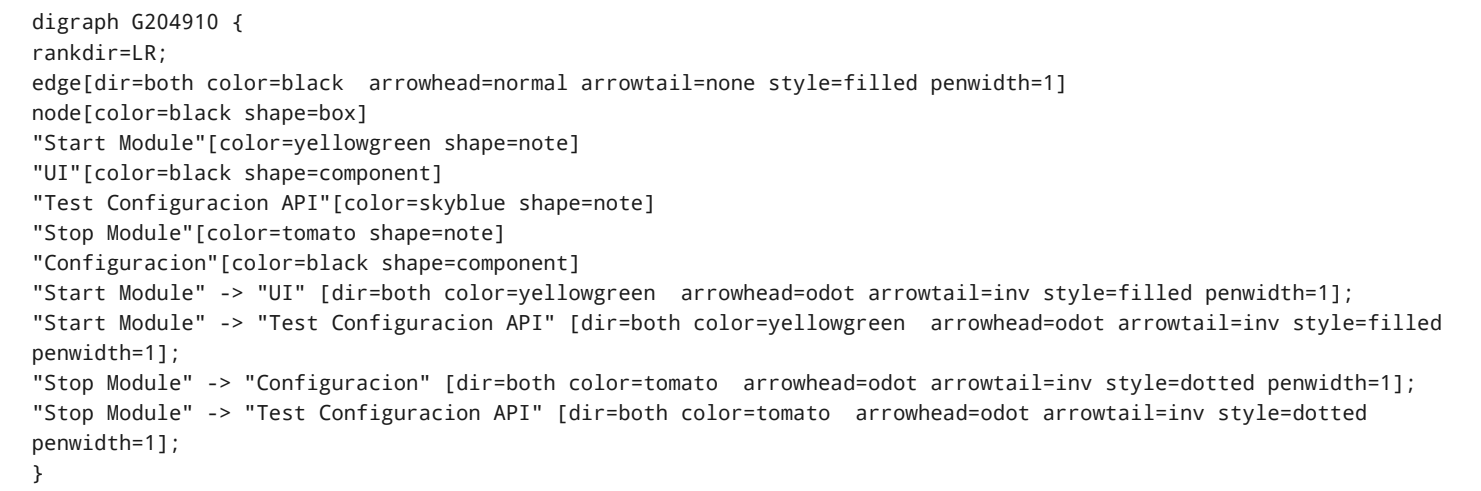


Table 12. Start and Stop module callers

Function	Callers
Configuracion.lvlib:Start Module.vi	UI.lvlib:Main.vi Test Configuracion API.vi
Configuracion.lvlib:Stop Module.vi	Configuracion.lvlib:Handle Exit.vi Test Configuracion API.vi

Module relationship

```
digraph G325891 {
  rankdir=LR;
  edge[dir=both color=black arrowhead=normal arrowtail=none style=filled penwidth=1]
  node[color=black shape=box]
  "Configuracion"[color=slateblue shape=component]
  "UI"[color=black shape=component]
  "Test Configuracion API"[color=skyblue shape=note]
  "Database"[color=black shape=component]
  "Mensajes"[color=black shape=component]
  "UI" -> "Configuracion" [dir=both color=forestgreen arrowhead=normal arrowtail=none style=filled penwidth=1];
  "Test Configuracion API" -> "Configuracion" [dir=both color=forestgreen arrowhead=normal arrowtail=none style=filled penwidth=1];
  "Configuracion" -> "Configuracion" [dir=both color=forestgreen arrowhead=normal arrowtail=none style=filled penwidth=1];
  "Configuracion" -> "Test Configuracion API" [label=" " dir=both color=goldenrod arrowhead=normal arrowtail=none style=dashed penwidth=1];
  "Configuracion" -> "Configuracion" [label=" " dir=both color=forestgreen arrowhead=onormal arrowtail=none style=filled penwidth=1];
  "Configuracion" -> "Database" [label=" " dir=both color=forestgreen arrowhead=onormal arrowtail=none style=filled penwidth=1];
  "Configuracion" -> "Mensajes" [label=" " dir=both color=forestgreen arrowhead=onormal arrowtail=none style=filled penwidth=1];
}
```

Table 13. Requests callers

Request Name	Callers
Configuracion.lvlib:Show Panel.vi	UI.lvlib:Main.vi Test Configuracion API.vi
Configuracion.lvlib:Hide Panel.vi	Test Configuracion API.vi
Configuracion.lvlib:Get Module Execution Status.vi	Configuracion.lvlib:Start Module.vi Configuracion.lvlib:Obtain Broadcast Events for Registration.vi
Configuracion.lvlib:Show Diagram.vi	Test Configuracion API.vi

Table 14. Broadcasts Listeners

Broadcast Name	Listeners
Configuracion.lvlib:Module Did Init.vi	Test Configuracion API.vi
Configuracion.lvlib:Status Updated.vi	Test Configuracion API.vi
Configuracion.lvlib>Error Reported.vi	Test Configuracion API.vi

Broadcast Name	Listeners
Configuracion.lvlib:Module Did Stop.vi	Test Configuracion API.vi
Configuracion.lvlib:Update Module Execution Status.vi	Test Configuracion API.vi

Table 15. Used requests

Module	Brodcasts
Configuracion.lvlib	Configuracion.lvlib:Get Module Execution Status.vi
Database.lvlib	Database.lvlib:config database.vi
Mensajes.lvlib	Mensajes.lvlib:Recibir mensajes.vi

Table 16. Registred broadcast

Module	Brodcasts
—	—

2.1.6. Database.lvlib

Type: Singleton

Responsibility: This module has all the instructions and operation to save the information in the Database

Module Start/Stop calls

```

digraph G259565 {
rankdir=LR;
edge[dir=both color=black arrowhead=normal arrowtail=none style=filled penwidth=1]
node[color=black shape=box]
"Start Module"[color=yellowgreen shape=note]
"UI"[color=black shape=component]
"Test Database API"[color=skyblue shape=note]
"Stop Module"[color=tomato shape=note]
"Database"[color=black shape=component]
"Start Module" -> "UI" [dir=both color=yellowgreen arrowhead=odot arrowtail=inv style=filled penwidth=1];
"Start Module" -> "Test Database API" [dir=both color=yellowgreen arrowhead=odot arrowtail=inv style=filled penwidth=1];
"Stop Module" -> "Database" [dir=both color=tomato arrowhead=odot arrowtail=inv style=dotted penwidth=1];
"Stop Module" -> "UI" [dir=both color=tomato arrowhead=odot arrowtail=inv style=dotted penwidth=1];
"Stop Module" -> "Test Database API" [dir=both color=tomato arrowhead=odot arrowtail=inv style=dotted penwidth=1];
}

```

Table 17. Start and Stop module callers

Function	Callers
Database.lvlib:Start Module.vi	UI.lvlib:Main.vi Test Database API.vi
Database.lvlib:Stop Module.vi	Database.lvlib:Handle Exit.vi UI.lvlib:Main.vi Test Database API.vi

Module relationship

```

digraph G386660 {
rankdir=LR;
edge[dir=both color=black arrowhead=normal arrowtail=none style=filled penwidth=1]
node[color=black shape=box]
"Database"[color=slateblue shape=component]
"UI"[color=black shape=component]
"Test Database API"[color=skyblue shape=note]
"Analisis"[color=black shape=component]
"Configuracion"[color=black shape=component]
"Mensajes"[color=black shape=component]
"UI" -> "Database" [dir=both color=forestgreen arrowhead=normal arrowtail=none style=filled penwidth=1];
"Test Database API" -> "Database" [dir=both color=forestgreen arrowhead=normal arrowtail=none style=filled penwidth=1];
"Database" -> "Database" [dir=both color=forestgreen arrowhead=normal arrowtail=none style=filled penwidth=1];
"Analisis" -> "Database" [dir=both color=forestgreen arrowhead=normal arrowtail=none style=filled penwidth=1];
"Configuracion" -> "Database" [dir=both color=forestgreen arrowhead=normal arrowtail=none style=filled penwidth=1];
"Database" -> "Test Database API" [label=" " dir=both color=goldenrod arrowhead=normal arrowtail=none style=dashed penwidth=1];
"Database" -> "Database" [label=" " dir=both color=forestgreen arrowhead=normal arrowtail=none style=filled penwidth=1];
"Database" -> "Mensajes" [label=" " dir=both color=forestgreen arrowhead=normal arrowtail=none style=filled penwidth=1];
}

```

Table 18. Requests callers

Request Name	Callers
Database.lvlib:Show Panel.vi	Test Database API.vi
Database.lvlib:Hide Panel.vi	Test Database API.vi
Database.lvlib:Get Module Execution Status.vi	Database.lvlib:Start Module.vi Database.lvlib:Obtain Broadcast Events for Registration.vi

Request Name	Callers
Database.lvlib:Show Diagram.vi	Test Database API.vi
Database.lvlib:Database info.vi	Analisis.lvlib:Main.vi Test Database API.vi
Database.lvlib:config database.vi	Configuracion.lvlib:Main.vi Test Database API.vi
Database.lvlib:Save.vi	UI.lvlib:Main.vi Test Database API.vi

Table 19. Broadcasts Listeners

Broadcast Name	Listeners
Database.lvlib:Module Did Init.vi	Test Database API.vi
Database.lvlib>Status Updated.vi	Test Database API.vi
Database.lvlib>Error Reported.vi	Test Database API.vi
Database.lvlib:Module Did Stop.vi	Test Database API.vi
Database.lvlib:Update Module Execution Status.vi	Test Database API.vi

Table 20. Used requests

Module	Brodcasts
Database.lvlib	Database.lvlib:Get Module Execution Status.vi
Mensajes.lvlib	Mensajes.lvlib:Recibir mensajes.vi

Table 21. Registred broadcast

Module	Brodcasts
—	—

2.1.7. Mensajes.lvlib

Type: Singleton

Responsibility: In this module all mesages the program has will be shown

Module Start/Stop calls

```
digraph G824523 {
rankdir=LR;
edge[dir=both color=black arrowhead=normal arrowtail=none style=filled penwidth=1]
node[color=black shape=box]
"Start Module"[color=yellowgreen shape=note]
"UI"[color=black shape=component]
"Test Mensajes API"[color=skyblue shape=note]
"Stop Module"[color=tomato shape=note]
"Mensajes"[color=black shape=component]
"Start Module" -> "UI" [dir=both color=yellowgreen arrowhead=odot arrowtail=inv style=filled penwidth=1];
"Start Module" -> "Test Mensajes API" [dir=both color=yellowgreen arrowhead=odot arrowtail=inv style=filled
penwidth=1];
"Stop Module" -> "Mensajes" [dir=both color=tomato arrowhead=odot arrowtail=inv style=dotted penwidth=1];
"Stop Module" -> "UI" [dir=both color=tomato arrowhead=odot arrowtail=inv style=dotted penwidth=1];
"Stop Module" -> "Test Mensajes API" [dir=both color=tomato arrowhead=odot arrowtail=inv style=dotted
penwidth=1];
}
```

Table 22. Start and Stop module callers

Function	Callers
Mensajes.lvlib:Start Module.vi	UI.lvlib:Main.vi Test Mensajes API.vi
Mensajes.lvlib:Stop Module.vi	Mensajes.lvlib:Handle Exit.vi UI.lvlib:Main.vi Test Mensajes API.vi

Module relationship

```
digraph G1001338 {
rankdir=LR;
edge[dir=both color=black arrowhead=normal arrowtail=none style=filled penwidth=1]
node[color=black shape=box]
"Mensajes"[color=slateblue shape=component]
"UI"[color=black shape=component]
"Test Mensajes API"[color=skyblue shape=note]
"Configuracion"[color=black shape=component]
"Database"[color=black shape=component]
"UI" -> "Mensajes" [dir=both color=forestgreen arrowhead=normal arrowtail=none style=filled penwidth=1];
"Test Mensajes API" -> "Mensajes" [dir=both color=forestgreen arrowhead=normal arrowtail=none style=filled penwidth=1];
"Mensajes" -> "Mensajes" [dir=both color=forestgreen arrowhead=normal arrowtail=none style=filled penwidth=1];
"Configuracion" -> "Mensajes" [dir=both color=forestgreen arrowhead=normal arrowtail=none style=filled penwidth=1];
"Database" -> "Mensajes" [dir=both color=forestgreen arrowhead=normal arrowtail=none style=filled penwidth=1];
"Mensajes" -> "Test Mensajes API" [label=" " dir=both color=goldenrod arrowhead=normal arrowtail=none style=dashed penwidth=1];
"Mensajes" -> "Mensajes" [label=" " dir=both color=forestgreen arrowhead=normal arrowtail=none style=filled penwidth=1];
}
```

Table 23. Requests callers

Request Name	Callers
Mensajes.lvlib:Show Panel.vi	Test Mensajes API.vi
Mensajes.lvlib:Hide Panel.vi	Test Mensajes API.vi
Mensajes.lvlib:Get Module Execution Status.vi	Mensajes.lvlib:Start Module.vi Mensajes.lvlib:Obtain Broadcast Events for Registration.vi
Mensajes.lvlib:Show Diagram.vi	Test Mensajes API.vi
Mensajes.lvlib:Recibir mensajes.vi	Configuracion.lvlib:Main.vi Database.lvlib:Main.vi UI.lvlib:Main.vi Test Mensajes API.vi

Table 24. Broadcasts Listeners

Broadcast Name	Listeners
Mensajes.lvlib:Module Did Init.vi	Test Mensajes API.vi
Mensajes.lvlib:Status Updated.vi	Test Mensajes API.vi

Broadcast Name	Listeners
Mensajes.lvlib:Error Reported.vi	Test Mensajes API.vi
Mensajes.lvlib:Module Did Stop.vi	Test Mensajes API.vi
Mensajes.lvlib:Update Module Execution Status.vi	Test Mensajes API.vi

Table 25. Used requests

Module	Brodcasts
Mensajes.lvlib	Mensajes.lvlib:Get Module Execution Status.vi

Table 26. Registred broadcast

Module	Brodcasts
—	—

2.1.8. UI.Mlib

Type: Singleton

Responsibility: In this module the user would be able to see Acquisition, Analisis and Messages Main Vi's.

Module Start/Stop calls

```

digraph G8576 {
rankdir=LR;
edge[dir=both color=black arrowhead=normal arrowtail=none style=filled penwidth=1]
node[color=black shape=box]
"Start Module"[color=yellowgreen shape=note]
"Test UI API"[color=skyblue shape=note]
"Stop Module"[color=tomato shape=note]
"UI"[color=black shape=component]
"Start Module" -> "Test UI API" [dir=both color=yellowgreen arrowhead=odot arrowtail=inv style=filled penwidth=1];
"Stop Module" -> "UI" [dir=both color=tomato arrowhead=odot arrowtail=inv style=dotted penwidth=1];
"Stop Module" -> "Test UI API" [dir=both color=tomato arrowhead=odot arrowtail=inv style=dotted penwidth=1];
}

```

Table 27. Start and Stop module callers

Function	Callers
UI.lvlib:Start Module.vi	Test UI API.vi

Function	Callers
UI.lvlib:Stop Module.vi	UI.lvlib:Handle Exit.vi Test UI API.vi

Module relationship



Table 28. Requests callers

Request Name	Callers
UI.lvlib:Show Panel.vi	Test UI API.vi
UI.lvlib:Hide Panel.vi	Test UI API.vi
UI.lvlib:Get Module Execution Status.vi	UI.lvlib:Start Module.vi UI.lvlib:Obtain Broadcast Events for Registration.vi
UI.lvlib:Show Diagram.vi	Test UI API.vi

Table 29. Broadcasts Listeners

Broadcast Name	Listeners

Broadcast Name	Listeners
UI.lvlib:Module Did Init.vi	Test UI API.vi
UI.lvlib:Status Updated.vi	Test UI API.vi
UI.lvlib:Error Reported.vi	Test UI API.vi
UI.lvlib:Module Did Stop.vi	Test UI API.vi
UI.lvlib:Update Module Execution Status.vi	Test UI API.vi

Table 30. Used requests

Module	Brodcasts
Acquisition.lvlib	Acquisition.lvlib:Start Acquisition.vi Acquisition.lvlib:Stop Acquisition.vi
Configuracion.lvlib	Configuracion.lvlib:Show Panel.vi
Database.lvlib	Database.lvlib:Save.vi
Mensajes.lvlib	Mensajes.lvlib:Recibir mensajes.vi
UI.lvlib	UI.lvlib:Get Module Execution Status.vi

Table 31. Registred broadcast

Module	Brodcasts
—	—

2.2. Libraries

This section describes the libraries contained in the project.

2.3. Classes

This section describes the classes contained in the project.

3. VI descriptions

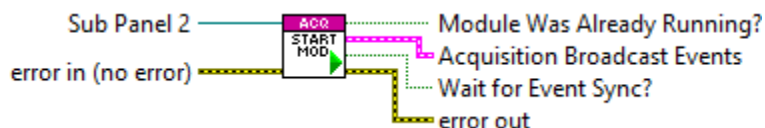
3.1. DQMH® modules

This section describes DQMH® modules events.

3.1.1. Acquisition.lvlib

Acquisition.lvlib:Start Module.vi

Event type: Not a DQMH Event

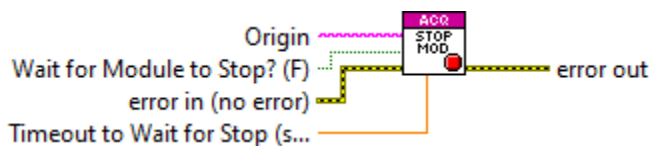


Description:

Launches the Module Main.vi. ____ Based on Delacor QMH Project Template 5.0.0.82.

Acquisition.lvlib:Stop Module.vi

Event type: Not a DQMH Event

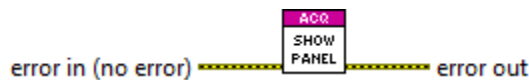


Description:

Send the Stop request to the Module's Main.vi. If **Wait for Module to Stop?** is TRUE, this VI will wait until the module main VI stops, and will timeout at the **Timeout to Wait for Stop** value. This value defaults to "-1", which means the VI will not timeout, and will always wait until the module main VI stops before completing execution. Note: The **Timeout to Wait for Stop** value is ignored if 'Wait for Module to Stop?' is set to FALSE. ____ Based on Delacor QMH Project Template 5.0.0.82.

Acquisition.lvlib:Show Panel.vi

Event type: Request

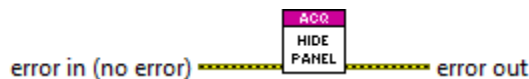


Description:

Send the Show Panel request to the Module's Main.vi. ____ Based on Delacor QMH Project Template 5.0.0.82.

Acquisition.lvlib:Hide Panel.vi

Event type: Request



Description:

Send the Hide Panel request to the Module's Main.vi. ____ Based on Delacor QMH Project Template 5.0.0.82.

Acquisition.Ivlib:Get Module Execution Status.vi

Event type: Request

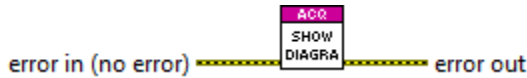


Description:

Fire the Get Module Execution Status request. ____ Based on Delacor QMH Project Template 5.0.0.82.

Acquisition.Ivlib:Show Diagram.vi

Event type: Request

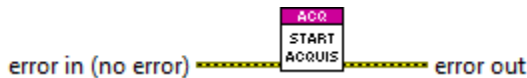


Description:

This VI tells the Module to show its block diagram to facilitate troubleshooting (add probes, breakpoints, highlight execution, etc). ____ Based on Delacor QMH Project Template 5.0.0.82.

Acquisition.Ivlib:Start Acquisition.vi

Event type: Request

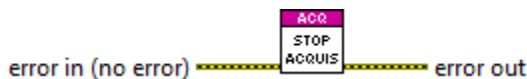


Description:

Start the camera acquisition to grab images. ____ Created using Delacor QMH Event Scripter 5.0.0.112.

Acquisition.Ivlib:Stop Acquisition.vi

Event type: Request

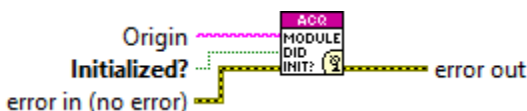


Description:

Stops the acquisition in course ____ Created using Delacor QMH Event Scripter 5.0.0.112.

Acquisition.Ivlib:Module Did Init.vi

Event type: Broadcast



Description:

Send the Module Did Init event to any VI registered to listen to this module's broadcast events. ____ Based on Delacor QMH Project Template 5.0.0.82.

Acquisition.Ivlib:Status Updated.vi

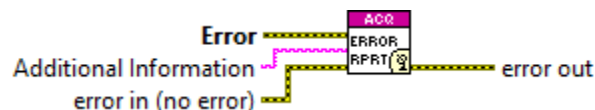
Event type: Broadcast

**Description:**

Send the Status Updated event to any VI registered to listen to events from the owning module. ____ Based on Delacor QMH Project Template 5.0.0.82.

[Acquisition.lvlib>Error Reported.vi](#)

Event type: Broadcast

**Description:**

Send the Error Reported event to any VI registered to listen to events from the owning module. ____ Based on Delacor QMH Project Template 5.0.0.82.

[Acquisition.lvlib:Module Did Stop.vi](#)

Event type: Broadcast

**Description:**

Send the Module Did Stop event to any VI registered to listen to this module's broadcast events. ____ Based on Delacor QMH Project Template 5.0.0.82.

[Acquisition.lvlib:Update Module Execution Status.vi](#)

Event type: Broadcast

**Description:**

Broadcast event to specify whether or not the module is running. ____ Based on Delacor QMH Project Template 5.0.0.82.

[Acquisition.lvlib:Start ACQ.vi](#)

Event type: Broadcast

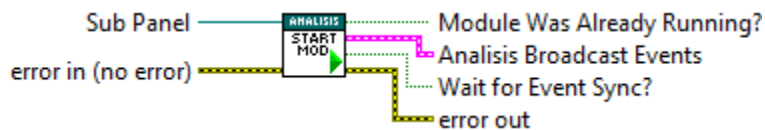
**Description:**

Starts acquisition broadcast ____ Created using Delacor QMH Event Scripter 5.0.0.112.

3.1.2. Analisis.lvlib

[Analisis.lvlib:Start Module.vi](#)

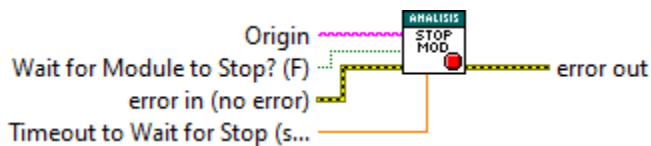
Event type: Not a DQMH Event

**Description:**

Launches the Module Main.vi. ____ Based on Delacor QMH Project Template 5.0.0.82.

[Analysis.Ivlib:Stop Module.vi](#)

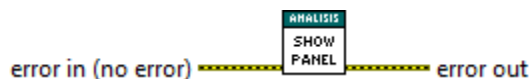
Event type: Not a DQMH Event

**Description:**

Send the Stop request to the Module's Main.vi. If **Wait for Module to Stop?** is TRUE, this VI will wait until the module main VI stops, and will timeout at the **Timeout to Wait for Stop** value. This value defaults to "-1", which means the VI will not timeout, and will always wait until the module main VI stops before completing execution. Note: The **Timeout to Wait for Stop** value is ignored if 'Wait for Module to Stop?' is set to FALSE. ____ Based on Delacor QMH Project Template 5.0.0.82.

[Analysis.Ivlib:Show Panel.vi](#)

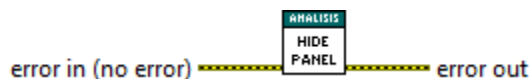
Event type: Request

**Description:**

Send the Show Panel request to the Module's Main.vi. ____ Based on Delacor QMH Project Template 5.0.0.82.

[Analysis.Ivlib:Hide Panel.vi](#)

Event type: Request

**Description:**

Send the Hide Panel request to the Module's Main.vi. ____ Based on Delacor QMH Project Template 5.0.0.82.

[Analysis.Ivlib:Get Module Execution Status.vi](#)

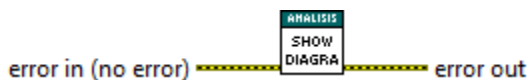
Event type: Request

**Description:**

Fire the Get Module Execution Status request. ____ Based on Delacor QMH Project Template 5.0.0.82.

[Analysis.Ivlib:Show Diagram.vi](#)

Event type: Request



Description:

This VI tells the Module to show its block diagram to facilitate troubleshooting (add probes, breakpoints, highlight execution, etc). ____ Based on Delacor QMH Project Template 5.0.0.82.

[Analysis.lvlib:Start.vi](#)

Event type: Request

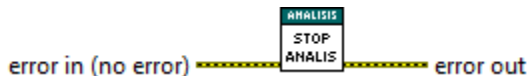


Description:

Start module to analyze samples ____ Created using Delacor QMH Event Scripeter 5.0.0.112.

[Analysis.lvlib:stop analysis.vi](#)

Event type: Request

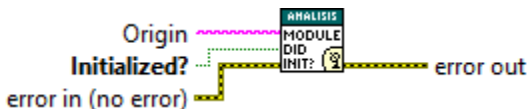


Description:

Stop analysis ____ Created using Delacor QMH Event Scripeter 5.0.0.112.

[Analysis.lvlib:Module Did Init.vi](#)

Event type: Broadcast

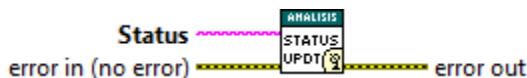


Description:

Send the Module Did Init event to any VI registered to listen to this module's broadcast events. ____ Based on Delacor QMH Project Template 5.0.0.82.

[Analysis.lvlib:Status Updated.vi](#)

Event type: Broadcast

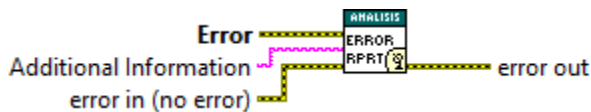


Description:

Send the Status Updated event to any VI registered to listen to events from the owning module. ____ Based on Delacor QMH Project Template 5.0.0.82.

[Analysis.lvlib>Error Reported.vi](#)

Event type: Broadcast

**Description:**

Send the Error Reported event to any VI registered to listen to events from the owning module. ____ Based on Delacor QMH Project Template 5.0.0.82.

Analysis.Ivlib:Module Did Stop.vi

Event type: Broadcast

**Description:**

Send the Module Did Stop event to any VI registered to listen to this module's broadcast events. ____ Based on Delacor QMH Project Template 5.0.0.82.

Analysis.Ivlib:Update Module Execution Status.vi

Event type: Broadcast

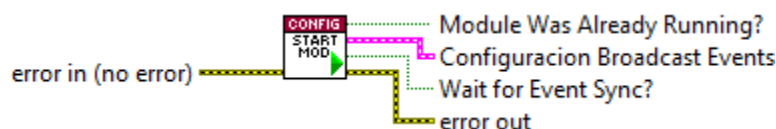
**Description:**

Broadcast event to specify whether or not the module is running. ____ Based on Delacor QMH Project Template 5.0.0.82.

3.1.3. Configuracion.Ivlib

Configuracion.Ivlib:Start Module.vi

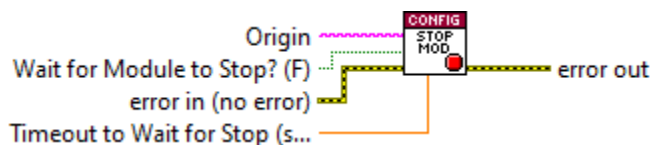
Event type: Not a DQMH Event

**Description:**

Launches the Module Main.vi. ____ Based on Delacor QMH Project Template 5.0.0.82.

Configuracion.Ivlib:Stop Module.vi

Event type: Not a DQMH Event

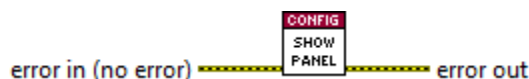
**Description:**

Send the Stop request to the Module's Main.vi. If **Wait for Module to Stop?** is TRUE, this VI will wait until the module main VI stops, and will timeout at the **Timeout to Wait for Stop** value. This value defaults to "-1", which means the VI will not timeout, and will always wait until the module main VI stops before completing execution. Note: The **Timeout**

to Wait for Stop value is ignored if 'Wait for Module to Stop?' is set to FALSE. ____ Based on Delacor QMH Project Template 5.0.0.82.

Configuracion.lvlib:Show Panel.vi

Event type: Request



Description:

Send the Show Panel request to the Module's Main.vi. ____ Based on Delacor QMH Project Template 5.0.0.82.

Configuracion.lvlib:Hide Panel.vi

Event type: Request



Description:

Send the Hide Panel request to the Module's Main.vi. ____ Based on Delacor QMH Project Template 5.0.0.82.

Configuracion.lvlib:Get Module Execution Status.vi

Event type: Request

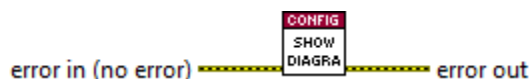


Description:

Fire the Get Module Execution Status request. ____ Based on Delacor QMH Project Template 5.0.0.82.

Configuracion.lvlib:Show Diagram.vi

Event type: Request

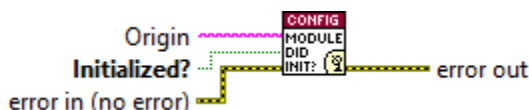


Description:

This VI tells the Module to show its block diagram to facilitate troubleshooting (add probes, breakpoints, highlight execution, etc). ____ Based on Delacor QMH Project Template 5.0.0.82.

Configuracion.lvlib:Module Did Init.vi

Event type: Broadcast

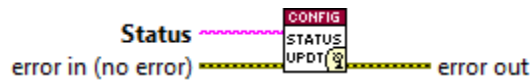


Description:

Send the Module Did Init event to any VI registered to listen to this module's broadcast events. ____ Based on Delacor QMH Project Template 5.0.0.82.

Configuracion.lvlib:Status Updated.vi

Event type: Broadcast

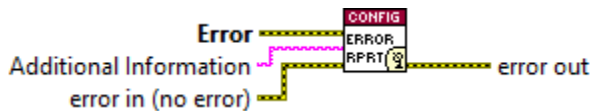


Description:

Send the Status Updated event to any VI registered to listen to events from the owning module. ____ Based on Delacor QMH Project Template 5.0.0.82.

Configuracion.lvlib>Error Reported.vi

Event type: Broadcast



Description:

Send the Error Reported event to any VI registered to listen to events from the owning module. ____ Based on Delacor QMH Project Template 5.0.0.82.

Configuracion.lvlib:Module Did Stop.vi

Event type: Broadcast

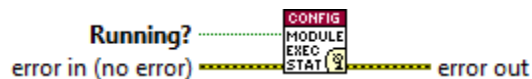


Description:

Send the Module Did Stop event to any VI registered to listen to this module's broadcast events. ____ Based on Delacor QMH Project Template 5.0.0.82.

Configuracion.lvlib:Update Module Execution Status.vi

Event type: Broadcast



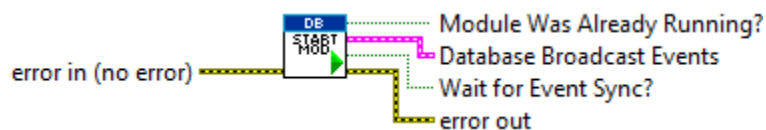
Description:

Broadcast event to specify whether or not the module is running. ____ Based on Delacor QMH Project Template 5.0.0.82.

3.1.4. Database.lvlib

Database.lvlib:Start Module.vi

Event type: Not a DQMH Event

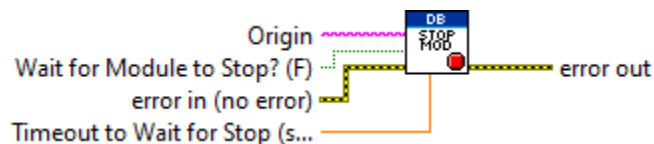


Description:

Launches the Module Main.vi. ____ Based on Delacor QMH Project Template 5.0.0.82.

Database.lvlib:Stop Module.vi

Event type: Not a DQMH Event



Description:

Send the Stop request to the Module's Main.vi. If **Wait for Module to Stop?** is TRUE, this VI will wait until the module main VI stops, and will timeout at the **Timeout to Wait for Stop** value. This value defaults to "-1", which means the VI will not timeout, and will always wait until the module main VI stops before completing execution. Note: The **Timeout to Wait for Stop** value is ignored if 'Wait for Module to Stop?' is set to FALSE. ____ Based on Delacor QMH Project Template 5.0.0.82.

Database.lvlib:Show Panel.vi

Event type: Request

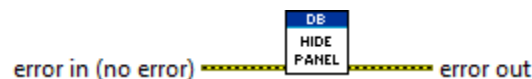


Description:

Send the Show Panel request to the Module's Main.vi. ____ Based on Delacor QMH Project Template 5.0.0.82.

Database.lvlib:Hide Panel.vi

Event type: Request



Description:

Send the Hide Panel request to the Module's Main.vi. ____ Based on Delacor QMH Project Template 5.0.0.82.

Database.lvlib:Get Module Execution Status.vi

Event type: Request



Description:

Fire the Get Module Execution Status request. ____ Based on Delacor QMH Project Template 5.0.0.82.

Database.lvlib:Show Diagram.vi

Event type: Request

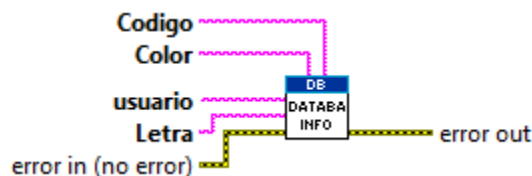


Description:

This VI tells the Module to show its block diagram to facilitate troubleshooting (add probes, breakpoints, highlight execution, etc). ____ Based on Delacor QMH Project Template 5.0.0.82.

Database.lvlib:Database info.vi

Event type: Request

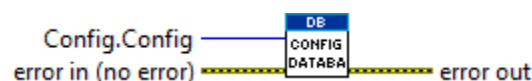


Description:

This event grabs the information of analisis and saves it in the Database ____ Created using Delacor QMH Event Scripter 5.0.0.112.

Database.lvlib:config database.vi

Event type: Request



Description:

This event indicates whether you want to save or delete an user ____ Created using Delacor QMH Event Scripter 5.0.0.112.

Database.lvlib:Save.vi

Event type: Request

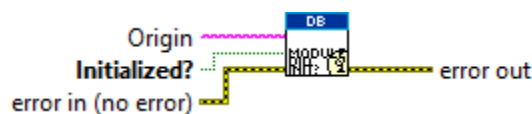


Description:

Allows the UI to save the information in database ____ Created using Delacor QMH Event Scripter 5.0.0.112.

Database.lvlib:Module Did Init.vi

Event type: Broadcast



Description:

Send the Module Did Init event to any VI registered to listen to this module's broadcast events. ____ Based on Delacor QMH Project Template 5.0.0.82.

Database.lvlib:Status Updated.vi

Event type: Broadcast

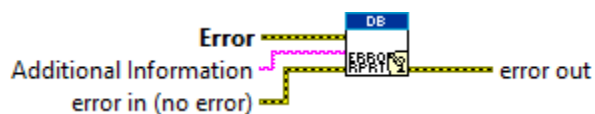


Description:

Send the Status Updated event to any VI registered to listen to events from the owning module. ____ Based on Delacor QMH Project Template 5.0.0.82.

Database.lvlib:Error Reported.vi

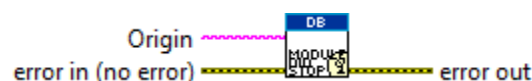
Event type: Broadcast

**Description:**

Send the Error Reported event to any VI registered to listen to events from the owning module. ____ Based on Delacor QMH Project Template 5.0.0.82.

Database.lvlib:Module Did Stop.vi

Event type: Broadcast

**Description:**

Send the Module Did Stop event to any VI registered to listen to this module's broadcast events. ____ Based on Delacor QMH Project Template 5.0.0.82.

Database.lvlib:Update Module Execution Status.vi

Event type: Broadcast

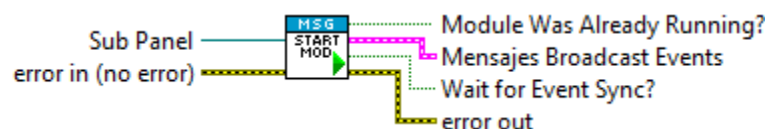
**Description:**

Broadcast event to specify whether or not the module is running. ____ Based on Delacor QMH Project Template 5.0.0.82.

3.1.5. Mensajes.lvlib

Mensajes.lvlib:Start Module.vi

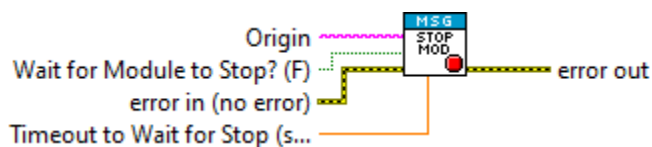
Event type: Not a DQMH Event

**Description:**

Launches the Module Main.vi. ____ Based on Delacor QMH Project Template 5.0.0.82.

Mensajes.lvlib:Stop Module.vi

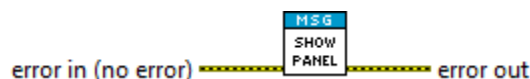
Event type: Not a DQMH Event

**Description:**

Send the Stop request to the Module's Main.vi. If **Wait for Module to Stop?** is TRUE, this VI will wait until the module main VI stops, and will timeout at the **Timeout to Wait for Stop** value. This value defaults to "-1", which means the VI will not timeout, and will always wait until the module main VI stops before completing execution. Note: The **Timeout to Wait for Stop** value is ignored if 'Wait for Module to Stop?' is set to FALSE. ____ Based on Delacor QMH Project Template 5.0.0.82.

Mensajes.lvlib:Show Panel.vi

Event type: Request

**Description:**

Send the Show Panel request to the Module's Main.vi. ____ Based on Delacor QMH Project Template 5.0.0.82.

Mensajes.lvlib:Hide Panel.vi

Event type: Request

**Description:**

Send the Hide Panel request to the Module's Main.vi. ____ Based on Delacor QMH Project Template 5.0.0.82.

Mensajes.lvlib:Get Module Execution Status.vi

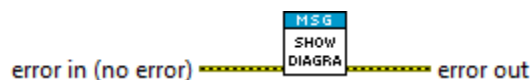
Event type: Request

**Description:**

Fire the Get Module Execution Status request. ____ Based on Delacor QMH Project Template 5.0.0.82.

Mensajes.lvlib:Show Diagram.vi

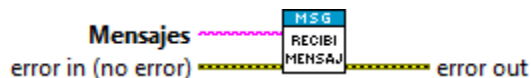
Event type: Request

**Description:**

This VI tells the Module to show its block diagram to facilitate troubleshooting (add probes, breakpoints, highlight execution, etc). ____ Based on Delacor QMH Project Template 5.0.0.82.

Mensajes.lvlib:Recibir mensajes.vi

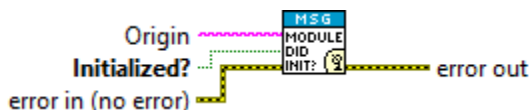
Event type: Request

**Description:**

This event print messages from other modules in the string indicator of messages module ____ Created using Delacor QMH Event Scripter 5.0.0.112.

Mensajes.lvlib:Module Did Init.vi

Event type: Broadcast

**Description:**

Send the Module Did Init event to any VI registered to listen to this module's broadcast events. ____ Based on Delacor QMH Project Template 5.0.0.82.

Mensajes.lvlib:Status Updated.vi

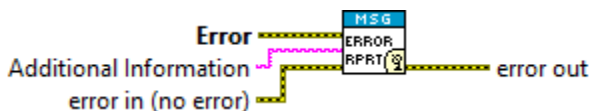
Event type: Broadcast

**Description:**

Send the Status Updated event to any VI registered to listen to events from the owning module. ____ Based on Delacor QMH Project Template 5.0.0.82.

Mensajes.lvlib:Error Reported.vi

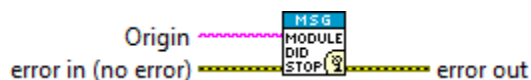
Event type: Broadcast

**Description:**

Send the Error Reported event to any VI registered to listen to events from the owning module. ____ Based on Delacor QMH Project Template 5.0.0.82.

Mensajes.lvlib:Module Did Stop.vi

Event type: Broadcast

**Description:**

Send the Module Did Stop event to any VI registered to listen to this module's broadcast events. ____ Based on Delacor QMH Project Template 5.0.0.82.

Mensajes.lvlib:Update Module Execution Status.vi

Event type: Broadcast

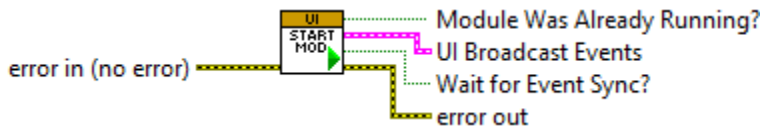
**Description:**

Broadcast event to specify whether or not the module is running. ____ Based on Delacor QMH Project Template 5.0.0.82.

3.1.6. UI.Lib

UI.Lib:Start Module.vi

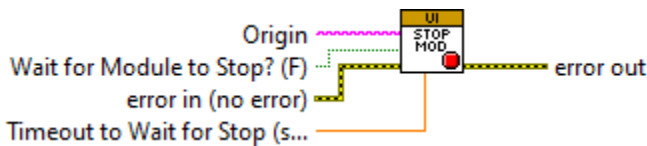
Event type: Not a DQMH Event

**Description:**

Launches the Module Main.vi. ____ Based on Delacor QMH Project Template 5.0.0.82.

UI.Lib:Stop Module.vi

Event type: Not a DQMH Event

**Description:**

Send the Stop request to the Module's Main.vi. If **Wait for Module to Stop?** is TRUE, this VI will wait until the module main VI stops, and will timeout at the **Timeout to Wait for Stop** value. This value defaults to "-1", which means the VI will not timeout, and will always wait until the module main VI stops before completing execution. Note: The **Timeout to Wait for Stop** value is ignored if 'Wait for Module to Stop?' is set to FALSE. ____ Based on Delacor QMH Project Template 5.0.0.82.

UI.Lib:Show Panel.vi

Event type: Request

**Description:**

Send the Show Panel request to the Module's Main.vi. ____ Based on Delacor QMH Project Template 5.0.0.82.

UI.Lib:Hide Panel.vi

Event type: Request

**Description:**

Send the Hide Panel request to the Module's Main.vi. ____ Based on Delacor QMH Project Template 5.0.0.82.

UI.lvlib:Get Module Execution Status.vi

Event type: Request



Description:

Fire the Get Module Execution Status request. ____ Based on Delacor QMH Project Template 5.0.0.82.

UI.lvlib:Show Diagram.vi

Event type: Request

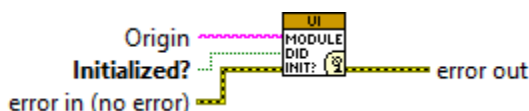


Description:

This VI tells the Module to show its block diagram to facilitate troubleshooting (add probes, breakpoints, highlight execution, etc). ____ Based on Delacor QMH Project Template 5.0.0.82.

UI.lvlib:Module Did Init.vi

Event type: Broadcast



Description:

Send the Module Did Init event to any VI registered to listen to this module's broadcast events. ____ Based on Delacor QMH Project Template 5.0.0.82.

UI.lvlib:Status Updated.vi

Event type: Broadcast

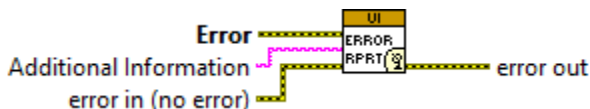


Description:

Send the Status Updated event to any VI registered to listen to events from the owning module. ____ Based on Delacor QMH Project Template 5.0.0.82.

UI.lvlib>Error Reported.vi

Event type: Broadcast



Description:

Send the Error Reported event to any VI registered to listen to events from the owning module. ____ Based on Delacor QMH Project Template 5.0.0.82.

UI.lvlib:Module Did Stop.vi

Event type: Broadcast



Description:

Send the Module Did Stop event to any VI registered to listen to this module's broadcast events. ____ Based on Delacor QMH Project Template 5.0.0.82.

UI.lvlib:Update Module Execution Status.vi

Event type: Broadcast



Description:

Broadcast event to specify whether or not the module is running. ____ Based on Delacor QMH Project Template 5.0.0.82.

3.2. Libraries

This section describes libraries public VIs.

3.3. Classes

This section describes classes public VIs.

4. Legal Information

4.1. Document creation

This document has been generated using the following tools.

4.1.1. Antidoc

Project website: [Antidoc](https://wovalab.gitlab.io/open-source/labview-doc-generator/) (https://wovalab.gitlab.io/open-source/labview-doc-generator/)

Maintainer website: [Wovalab](https://wovalab.com) (https://wovalab.com)

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4.1.2. AsciiDoc for LabVIEW™

Project website: [AsciiDoc toolkit](https://wovalab.gitlab.io/open-source/asciidoc-toolkit/) (https://wovalab.gitlab.io/open-source/asciidoc-toolkit/)

Maintainer website: [Wovalab](https://wovalab.com) (https://wovalab.com)

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4.1.3. Graph Builder

Project website: [Graph Builder](https://gitlab.com/cgambini/graph-builder) (<https://gitlab.com/cgambini/graph-builder>)

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4.2. Product used in the project

The documented project has been developed with the following products.

4.2.1. DQMH®

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Find more details on [Delacor](https://delacor.com/products/dqmh/) (<https://delacor.com/products/dqmh/>) website

