

10 Overview

This application template serves as the basis for HSE Windows LabVIEW applications. The template helps us with

- loading DQMH modules dynamically (from a list of names)
- a fancy splash screen
- a reusable User Interface module
- dynamically populated Runtime Menu
- an event log

Startup VI

- Loads a list of modules
 - defined on block diagram
- 2. no static linkage
- 3. configures the `User Interface.vi` module
- 4. show dynamically loaded modules in Run-Time Menu
- 5. register for broadcast events of dynamically loaded modules
- 6. displays the front panel of the `User Interface.vi` module as primary application GUI

UI Display Management

The UI Manager module is started when the application launches. It shows

- a title bar showing a headline and a logo
- a main area, divided in
 - a small navigation area on the left hand side and
 - the main area for showing the actual contents (= modules)
- 3. and a footer (a status bar).

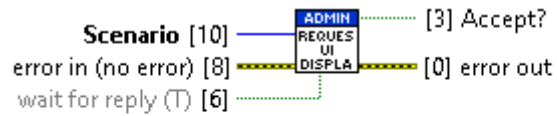
Sidebar

The left side of the main area holds a subpanel for the Sidebar module (navigation).

Navigation

- UI Manager has request `Display another Module UI`
 - Can be called as request or via Run-Time Menu
 - This request just asks another module to display its UI
 - via the `Request UI Display`
 - Every module (that has a UI) implements the `Request UI Display` request w/ reply
 - Parameters:
 - `enum Display Scenario` (managed, stand-alone)
 - 2. Reply Parameters:

- bool Accept?
3. See example below:



Requests the module to display its UI as specified in **Scenario**:
"managed" => in the UI Manager's subpanel
"stand-alone" => as a separate window

- Every module implements the System Message broadcast event
 - Parameters:
 - string Identifier
 - variant Payload
 - enum Source Type (module, application, network)
 - string Source Name (needed for cloneables to identify the clone instance)

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