GUI_Logging – Logging

Revision history

2017-02-21	Robin Lamacraft	Original draft
2018-04-05	John Lucas	Miscellaneous corrections and comments for improvement
2018-04-07	Robin Lamacraft	Expanded Scope section and further described screen makeup
2018-06-03	Don Ferguson	Added Log screen mockup from Rod Thompson; other minor edits
2018-06-10	Rod Thompson	Replace GUI_PanelConfigEdit with GUI_Select Configuration Replace 'screen' and 'frame' with 'window' Replace BR_PanelConfig with BR_WindowConfig
2018-06-19	Rod Thompson	Replace graphic; Revise REQUIRED SERVICES – Dependencies; Add PROCESS FLOW CHART; Add WINDOWS INTERACTION MAP; Add WARNING CONDITIONS & ERROR CONDITIONS
2018-10-09	Rod Thompson	Replace graphic (Configuration change); Add default location and size detail; Add Issues; Amend USED BY section; Add API section Add EVENT ACTIONS Section; Replace Windows Interaction Map; Add Sections USE CASES and TESTING
2018-10-10	Rod Thompson	Amend table reference in SCOPE Add 'Location' for Warning Message windows
2019-06-22	Don Ferguson	Replace mockup with real screen Adjust text to matched coded module (especially replacement of output functions with a call to 05.31 Output)

SCOPE

This GUI module is called from the Main Menu item Reports -> Logging.

It displays in a window a scrollable text view of an HRE log file, as chosen by the User.

HRE can create a number of log entries from different operations, such as importing, global utility operations, messaging, database changes, warnings, errors, etc. These log entries can be displayed in chronological order or sorted on nay field.

Other logging functions report on changes to database records in a user's session, etc and these 'commit log' entries are stored in the project database.

Log entries displayed may be selected by use of standard Window's methods of selecting groups of items, namely Left Click to mark the start of a group and Shift+Left Click to mark the end of a group, and/or Shift+Left Click for additional individual items.
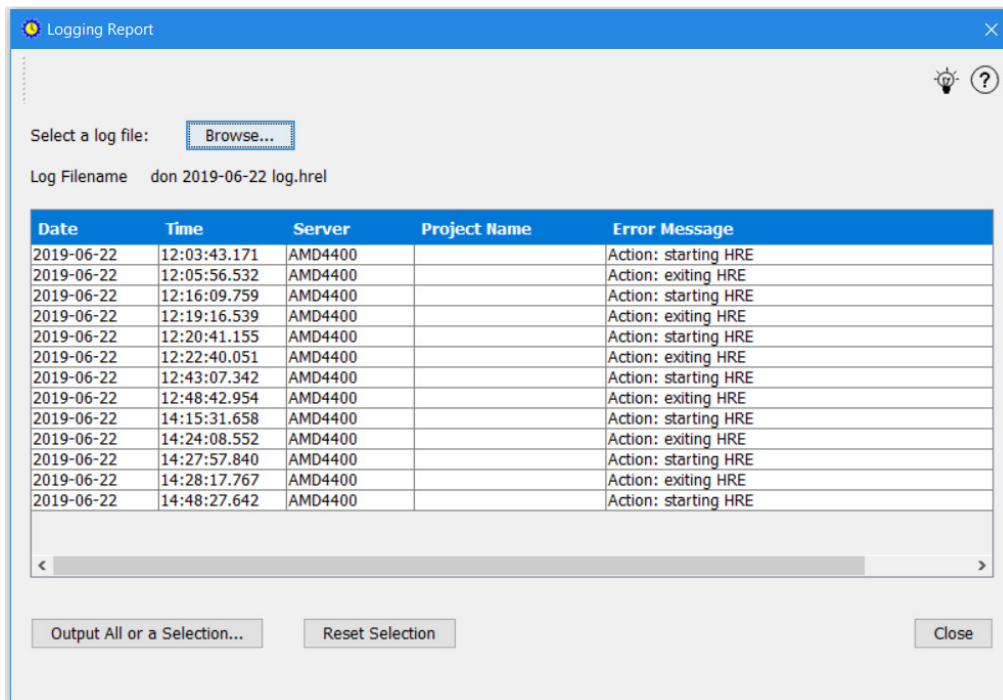
Issues:
1) A method to search the log file for a string, and highlight a match or matches found needs to be defined

LOOK AND FEEL

The resizable Logging window has 5 sections:
1. A set of icons
   - A "Reminder" icon displays the Reminder content for this window
   - a "Help" icon displays context Help about use of this window
2. A section to allow for browsing for the appropriate log and display of the selected log's filename
3. A scrollable text pane for the log entries
4. Buttons for Output of all items or selected items; for Reset of the selection and Close.
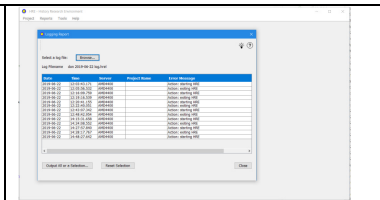
LOGGING Window

On screen location Initially inherited from the HRE main display Reports menu Window centred On screen location and scale are the only User changeable settings.	

USED BY
All HRE users.

METHODS
The fundamental operations are:
1. Open the Logging window according to its saved window Layout (BR_WindowConfig)
2. Populate the display with the log entries from the selected log file
3. Act on the command buttons.

AUXILIARY DATA USED
Access required to the log data held in the external log files.

REQUIRED SERVICES – Dependencies

First-Order Dependencies	Second-Order Dependencies
05.77 FileChooser	
05.31 Output	
07.11 Logging	
05.40 Reminder	
05.14 Help	

APPLICATION PROGRAMMING INTERFACE (API)
1. Single call with no parameters.

LOGGING
General use of this module will not create log entries.
Setting changes to this Window (location and size) will create log entries.

EVENT ACTIONS
1) Keyboard actions
    See SCOPE for special keyboard actions for record selections
2) Mouse actions
    <u>Left key</u>
    a. click on 'Browse' invokes 05.77 FileChooser for log file selection
    b. click on the 'Reset' button removes any previously made selections
    c. click on the button 'Output' invokes 05.31 Output for sending file to print or a file
    d. click on the 'Close' button, cancels any actions taken, and closes the window
        NOTE – Warning
    e. click on icons (detailed below).
    <u>Right key</u>
        To be determined
3) Icon actions
    a. left mouse key click on the 'X' icon - closes the window
        NOTE: Same action as in use of the 'Close' button
    b. left mouse key click on 'Reminder' icon:
        (opens 'Reminder' window for this module)
    c. left mouse click on 'Help ' icon:
        (opens the Help System).
4) Keyboard shortcuts
        To be determined.

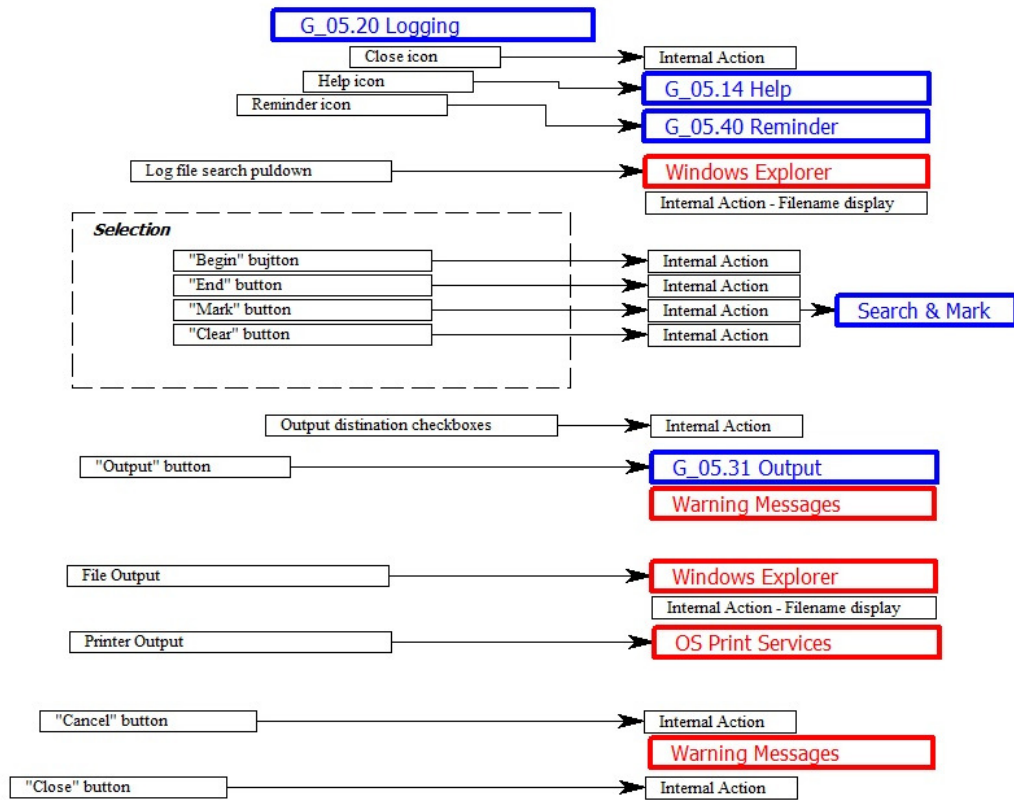**WARNING CONDITIONS**
Location: centred on the Close button:
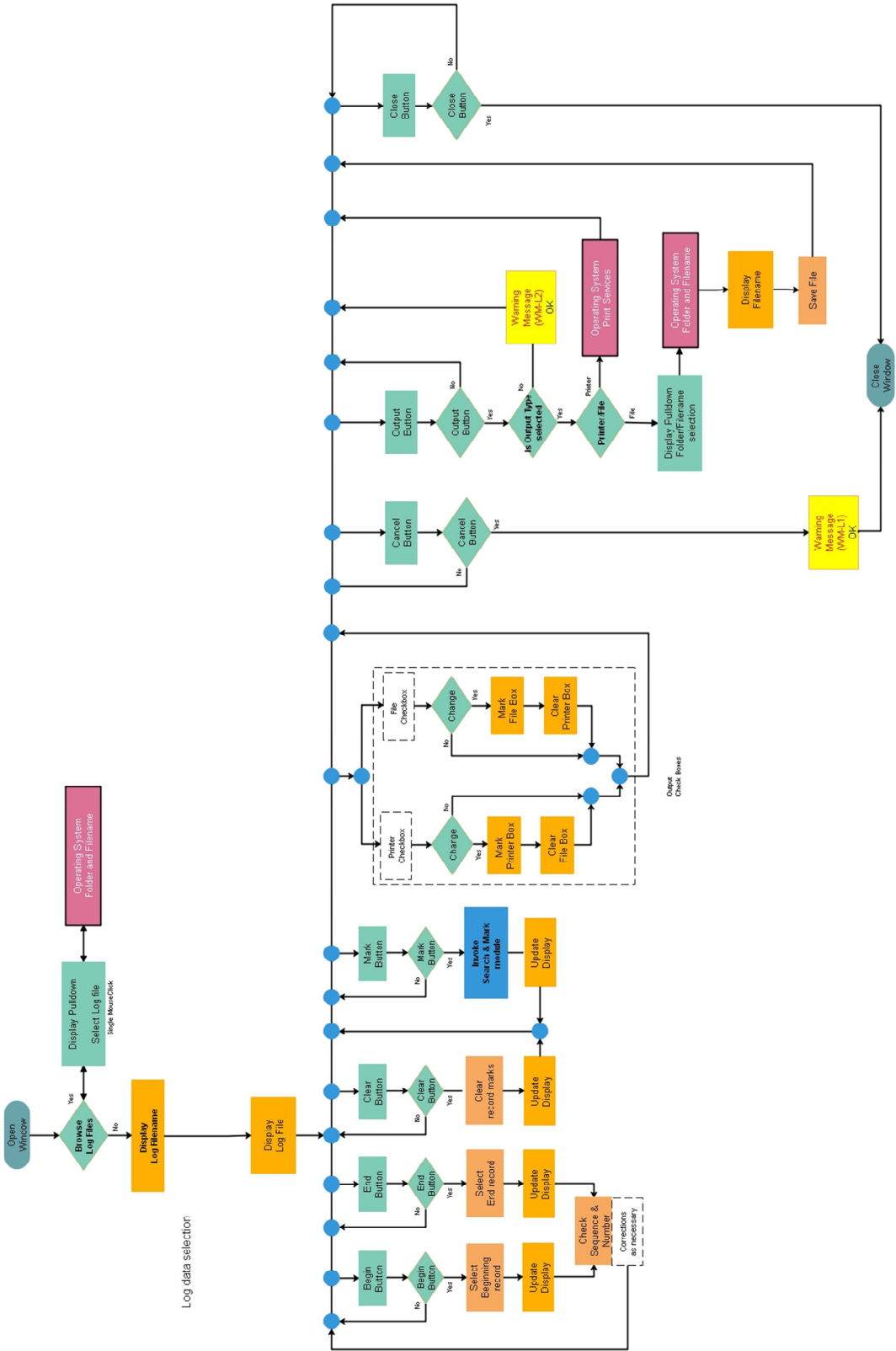When the 'Close' button is used, then a confirmation message is displayed.

ERROR CONDITIONS
1. Need to record the condition that raised the error, example message and possible next steps.

WINDOWS INTERACTION MAP

```
G_05.20 Logging

        Close icon ──────────────────────► Internal Action
        Help icon ──────────────────────► G_05.14 Help
   Reminder icon ──────────────────────► G_05.40 Reminder

Log file search puldown ─────────────► Windows Explorer
                                        Internal Action - Filename display

  ┌ Selection ─────────────────────────────────────────┐
  │  "Begin" bujtton ──────────────► Internal Action    │
  │  "End" button   ──────────────► Internal Action     │
  │  "Mark" button  ──────────────► Internal Action ──► Search & Mark
  │  "Clear" button ──────────────► Internal Action     │
  └─────────────────────────────────────────────────────┘

     Output distination checkboxes ──────► Internal Action

  "Output" button ────────────────────► G_05.31 Output
                                         Warning Messages

  File Output ────────────────────────► Windows Explorer
                                         Internal Action - Filename display

  Printer Output ─────────────────────► OS Print Services

  "Cancel" button ────────────────────► Internal Action
                                         Warning Messages

  "Close" button ─────────────────────► Internal Action
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NOTE: above diagram needs revision to remove Cancel, File Output, Printer Output entries and include use of 05.77 FileChooser

PROCESS FLOW CHART

Note: flowchart needs revision for Output function

USE CASES
1) ???

Details below

Use Case 1

TESTING
Testing to prove the functionality of this module in use with others of the HRE application.