

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
2019-04-09	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 files from different operations, such as importing, global utility operations, messaging, database changes, warnings, errors, etc. These logs can be displayed in chronological order or most recent at the top. This is used automatically in association with warning and error display windows. All logs can be viewed from the Tools menu entries. Some of these logs are external text files, while others are encoded string files which are transformed into human readable form for their display in this window. Other logging tools can report on changes to database records in a user's session, etc.

The database table **5129 Commit_Logs** has one record for each logged event that owns a collection of item records as described by table **5130 Commit_Items**. Table 5129 has two time-stamps, one for the start of the commit and the second for the completion of the commit action. The user can mark the log record with a series of pairs of "Begin" and "End" markers. This is equivalent to highlighting separate blocks so that only those blocks are output, i.e. all logged events within the "Begin" and "End" marks. This allows selection of the parts of the log that are relevant to the current task and to omit the intermediate content.

Alternatively, the standard Windows method of selecting groups of items may be used, namely Left Click to mark the start of a group and Shift+Left Click to mark the end of the group.

NOTE: This specification assumes either a single user/single computer installation, or use with a Server, the user being logged into the server when this module is called.

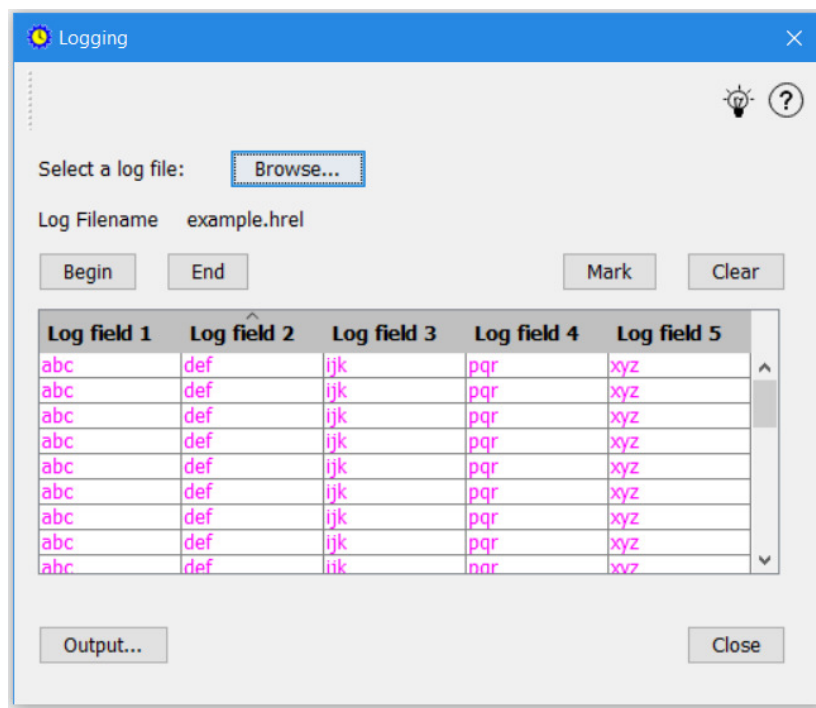
Issues:

- 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 collection of command buttons to help the review of the log:
 - “Begin” and “End” to define the content to be “Output”
 - “Output” to print or output a section of the log as a text file
 - “Mark” to search for a string and highlight it
 - “Clear” to remove marks.
4. A scrollable text pane for the log entries
5. Buttons for Output and Close.



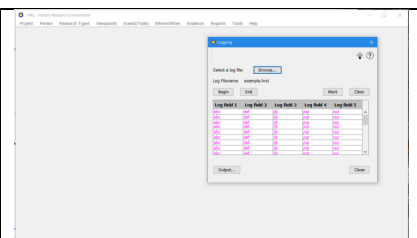
Draft LOGGING Window with dummy data

Shape, Size, Color, Layout etc. determined in design.

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 text and buttons
3. Act on the command buttons.

AUXILIARY DATA USED

Access required to the log data held in the HRE database and/or to the external log files.

REQUIRED SERVICES – Dependencies

First-Order Dependencies	Second-Order Dependencies	Higher-Order Dependencies
07.24 BR_Setting	BR_AppData	
	BR_UserData	
	07.02 BR_EntityLink	Needed
07.17 BR_WindowConfig	07.06 BR_GuiElement	07.01 BR_EncodedString
		07.02 BR_EntityLink
		BR_FieldTranslation
		07.16 BR_MessagePattern
	07.02 BR_EntityLink	Needed
	07.29 BR_Translation	07.02 BR_EntityLink
		BR_Field
		07.06 BR_GuiElement
		07.16 BR_MessagePattern
	BR_FieldTranslation	
	07.16 BR_MessagePatterns	07.02 BR_EntityLink
		07.01 BR_EncodedString
		07.11 BR_Logging
		Call Stack
		07.24 BR_Setting
		GUI Translation
07.11 BR_Logging	07.01 BR_EncodedString	NIL
	07.02 BR_EntityLink	NIL
	BR_FieldTranslation	
	07.26 BR_Substitution	07.02 BR_EntityLink
		07.29 BR_Translation
07.01 BR_EncodeString	NIL	
07.02 BR_EntityLink	Needed	
05.77 GUI_FileChooser		
05.31 GUI_Output		

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
Drag and drop mouse actions to move and resize the window
Setting changes saved to database for User>Project>Window
Left key

- a. click on Filename drop-down expands file list, and allows selection
- b. click on the 'Begin' button selects the first record in the list for output
- c. click on the 'End' button selects the last record in the list for output
- d. click on the 'Mark' button opens a window to allow the user to search for a string in the log file display
- e. click on the 'Clear' button removes any previously made selections
- f. click on the button 'Output' invokes 05.31 Output for sending file to print or a file
- g. click on the 'Close' button, cancels any actions taken, and closes the window
NOTE – Warning
- h. click on icons (detailed below).

Right key

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 Project New module)
- c. left mouse click on 'Help' icon:
(opens the Help System, searches for the section on 'New Project').

4) Keyboard shortcuts

To be determined.

WARNING CONDITIONS

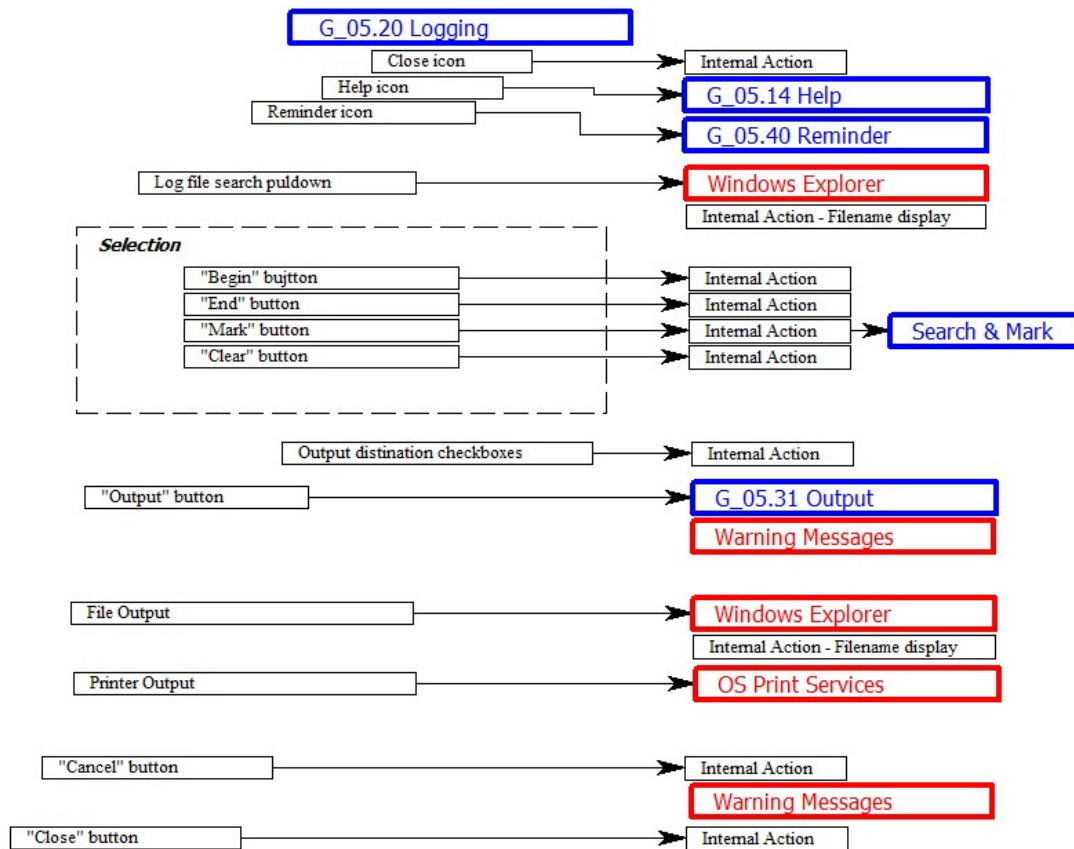
Location: centred on the Close button:

When the 'Close' button is used, then a confirmation message is displayed.

ERROR CONDITIONS

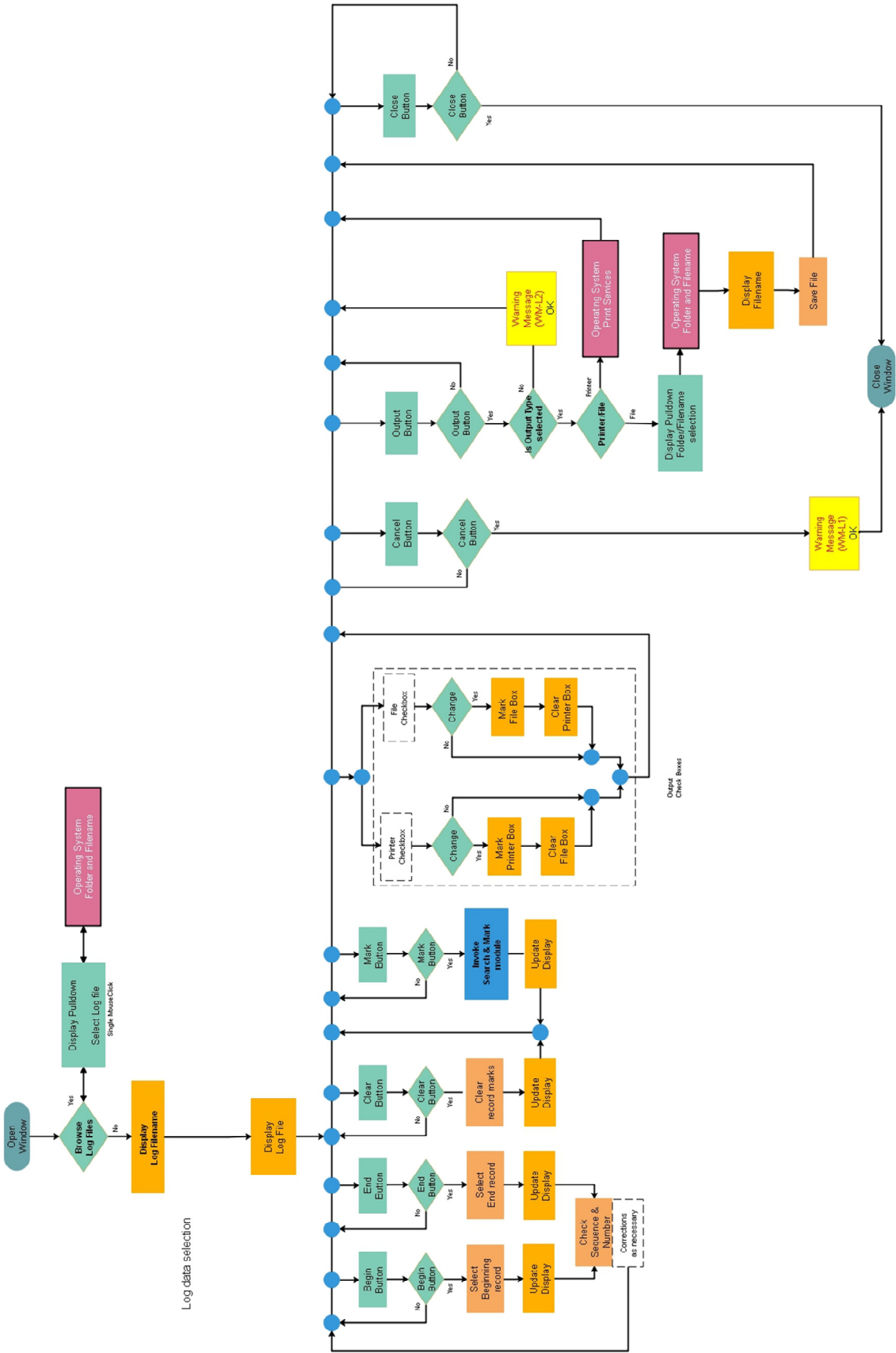
1. Need to record the condition that raised the error, example message and possible next steps.

WINDOWS INTERACTION MAP



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.