

## GUI\_Logging – Logging, Errors, Warnings, Messages

### 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

### SCOPE

This GUI module displays in a window a scrollable text view of an HRE log file. 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 **129 Commit\_Logs** has one record for each logged event that owns a collection of item records as described by table **130 Commit\_Items**. Table 130 has two time stamps, one for the initiation 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

- 2) How to indicate the need for selecting an output type checkbox, before using the Output button.

## LOOK AND FEEL

The resizable Logging window has 4 components:

1. The type of the log and the date/times of the first and last entry
2. 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
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.

LOGGING Window - Mockup

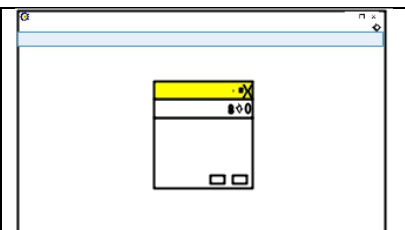
Shape, Size, Color, Layout etc. determined in design.

### On screen location

Initially inherited from the HRE main display

Window centred

On screen location and scale are the only User changeable settings



## USED BY

All HRE users.

Called from the Main Display – Tools Menu

## 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.

## 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	

## APPLICATION PROGRAMMING INTERFACE (API)

1. Single call with no parameters.

## 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 check boxes (Output) selects or de-selects the destination of the output (Printer or File)
- g. click on the 'Output' button initiates the process to send the selected records to Printer or File
- h. click on the 'Cancel' button, cancels any actions taken, and closes the window  
NOTE – Warning
- i. click on the 'Close' button closes the window
- j. 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 'Cancel' 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').

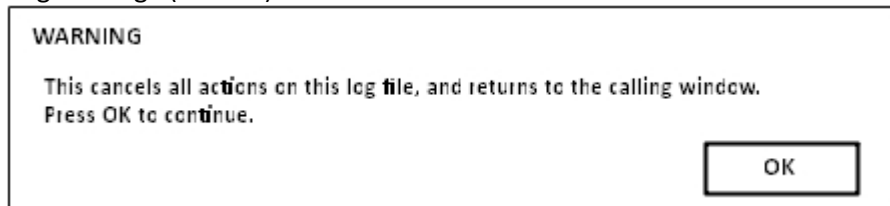
#### 4) Keyboard shortcuts

To be determined.

### WARNING CONDITIONS

1. When the 'Cancel' button is used, then a warning message is displayed.

Warning Message (WM-L1)

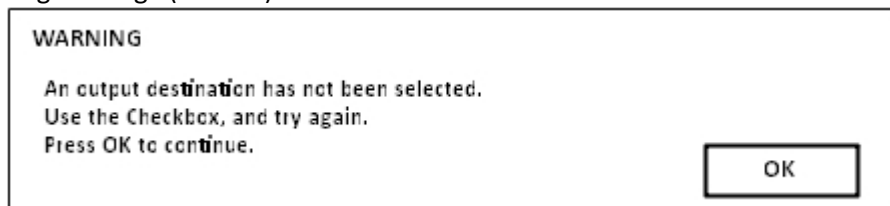


#### Text Version:

This cancels all actions on this log file; and returns to the calling window.  
Press OK to continue.

2. When the 'Output' button is used, without firstly selecting a destination (File or Printer); then a warning message is displayed.

Warning Message (WM-L2)



#### Text Version:

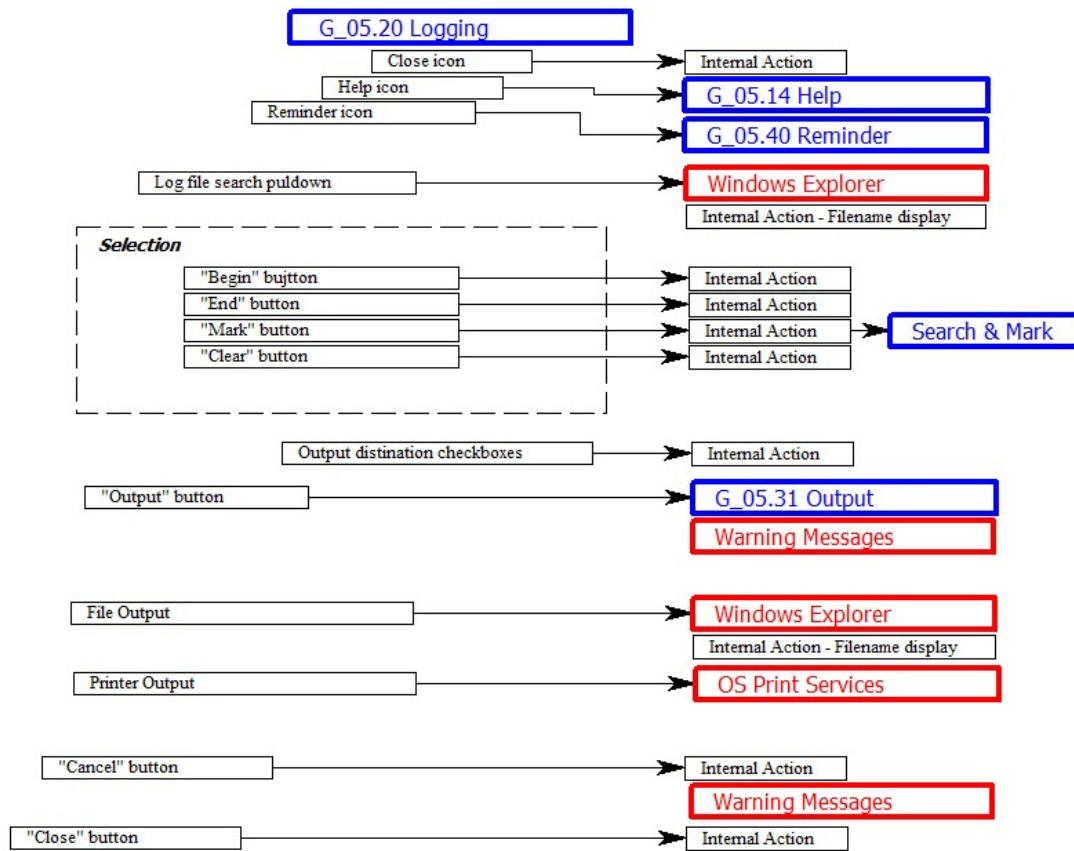
An output destination has not been selected

Use the Checkbox, and try again.  
Press OK to continue.

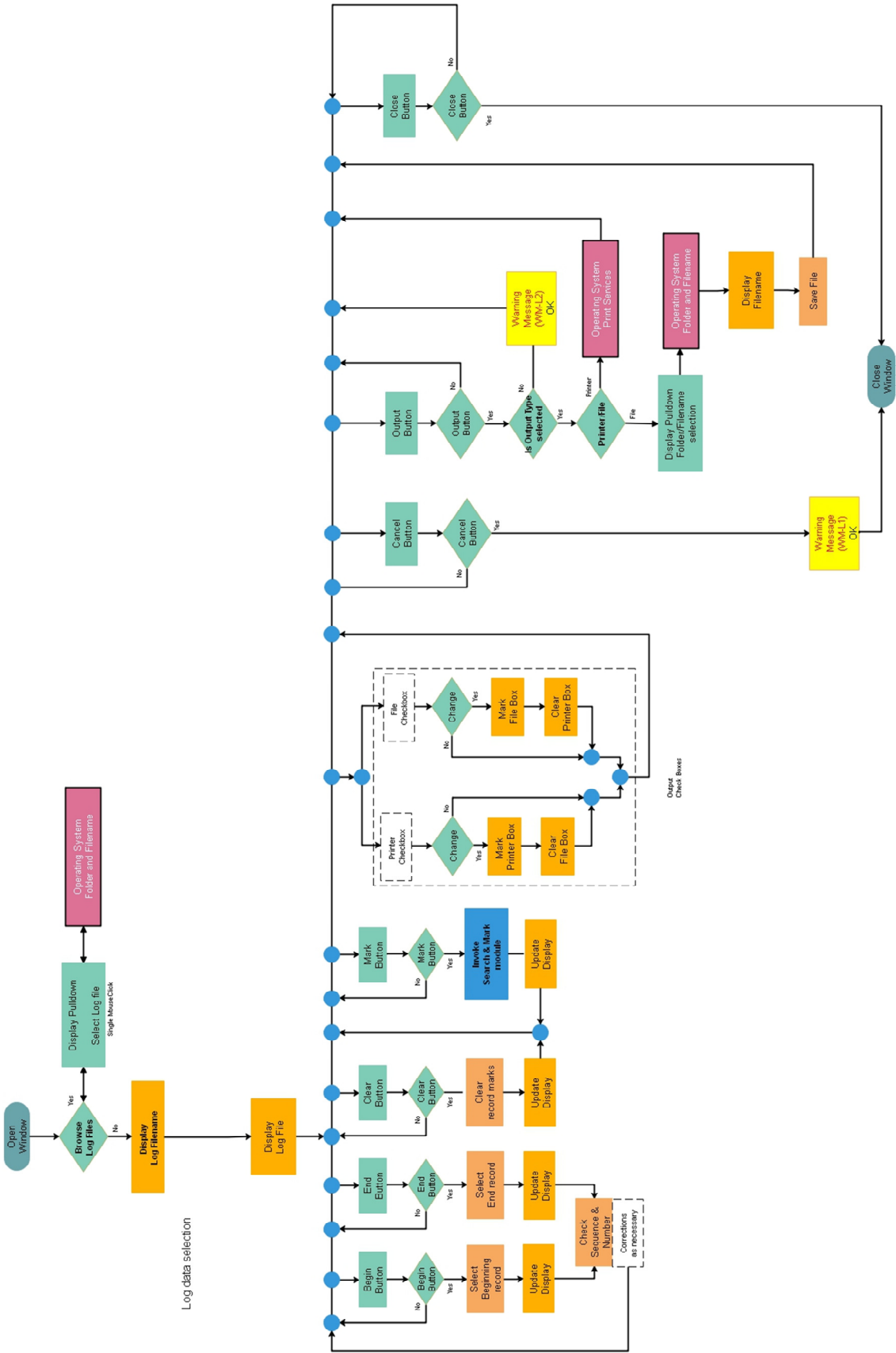
## **ERROR CONDITIONS**

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

## WINDOWS INTERACTION MAP



PROCESS FLOW CHART



## USE CASES

1) ???

Details below

Use Case 1
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## TESTING

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