GUI_AppSetting – Application Setting management

Revision history

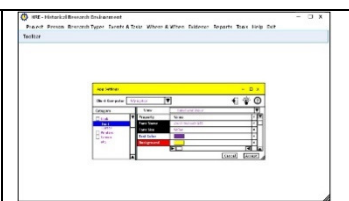|		
2017-07-02	Robin Lamacraft	Original draft
2018-06-13	Rod Thompson	Replace 'screen' with 'window' Replace BR_PanelConfig with BR_WindowConfig
2018-07-14	Rod Thompson	Revise REQUIRED SERVICES-Dependencies Add EVENT ACTIONS
2018-10-15	Rod Thompson	Amend SCOPE – additions; LOOK AND FEEL – remove 'configuration'; USED BY – revise; DATA CONTROLLED BY THIS MODULE – revise; Replace graphic; Add WINDOW INTERACTION MAP; Add template headings
2018-11-27	Rod Thompson	Add Process Flow Charts; Add to DATA CONTROLLED; Add USE CASES; Addition to LOGGING; Add TESTING
2019-04-27	Don Ferguson	Complete revision and alignment with UserAUX file settings

SCOPE

This GUI module displays the current and default settings of the current HRE user setup. It is opened by the Tools > Settings > User menu item.

LOOK AND FEEL

- The upper right icon buttons provide the following universal features:
  - the 'Reminder' icon allows display of the Reminder content for this window
  - the 'Help' icon opens the display of context Help about the use of this window
- Below this the window has 2 parts; left and right with a moveable vertical separator between them
- The left side is a list of setting categories. Some main categories may have a series of sub-categories within them
- The right side is a properties editor. The view of the property editing may be controlled by a pulldown selector. Typically, this display has 3 columns:
  - Column 1: The Property label. The character emphasis of the title is coded with:
    - **BOLD** white text on a black background when the value is the default
    - Normal text on white background for a user saved value
    - BOLD white text on red background when the value has been edited in this view.
  - Column 2: The current value of that setting. Double clicking on the row will cycle the initial value, edited value (if one exists) and the default value; alternatively this may be a checkbox value (on/off)
  - Column 3: A button to open a special editor if that setting has a format that should not be in-place edited. This will also allow for reset to the default.

Property Specific Editing Tool command button (if required)

Shape, Size, Color, Layout etc. determined in design.
<u>On screen location</u>
Initially inherited from the HRE main display

ACTIONS

The fundamental operations are:
1. Open window according to its saved Window Layout (BR_WindowConfig)
2. Populate the screen with the list of settings
3. If a value is edited, then it will be validated both for its syntax and value for correctness, where applicable
4. On finally clicking "Accept" the new values will be saved in the UserAUX file
5. On finally clicking "Cancel" the new values will not be saved.

USED BY:

All HRE users (subject to Access rights)
Accessed via the Tools > Settings > User menu

DATA CONTROLLED BY THIS MODULE

Settings for the following are User editable

Category	Settings
User (special conditions)	
Look	Window font selection, size and color
Logging level?	
Startup Splash screen	ON/OFF (default ON)
Cancel Messages	ON/OFF (default ON)
Project name in Viewpoint screen titles	ON/OFF (default OFF)

REQUIRED DATA CONTROLLED BY OTHER MODULES:

Nil.

REQUIRED SERVICES – Dependencies

First-Order Dependencies	Second-Order Dependencies
07.44 BR_UserAUX	
07.17 BR_WindowConfig	

APPLICATION PROGRAMMING INTERFACE (API)

1. Single call, no parameters.

LOGGING

Use of this module will create log entries.

Commit Logging occurs for each of the following functions – in the above listed tables:

Function	Database Table
User special conditions	T_133 User Type Defns
Accessibility Rights	T_136 User Group Rights Defns
Units of measurement	T_179 Units Defns
Window configurations	T_305/307 GUI_Window Configs

General Log
This includes:
- Startup Splash screen display status (ON/OFF)
- Warning Message Display (ON/OFF)
- Project name in Viewpoint screen titles (ON/OFF).

EVENT ACTIONS

1) Keyboard actions
   Amendments to settings
2) Mouse actions
   Drag and drop mouse actions to move and resize the window
   Setting changes saved to database for User>Project>Window
   <u>Left key</u>
   a. Mouse key click on a Setting category, causes the relevant settings to be displayed
   b. Mouse key click on each button, operates the button
   c. Mouse key click on icons (detailed below)
   <u>Right key</u>
   To be determined
3) Icon actions
   a. left mouse key click on icons in the Window Control group:
      a. 'X' icon closes the window
         NOTE: Same action as in use of the 'Cancel' button
      b. 'Dash' icon
         Minimizes the window, to an icon on the screen toolbar.
         A click on the toolbar icon restores the display to its previous setting
   b. left mouse key click on 'Reminder' icon: opens 'Reminder' window for this 'Application Settings' window
   c. left mouse click on 'Help ' icon: opens the Help System, searches for the section on the 'Application Settings' window.
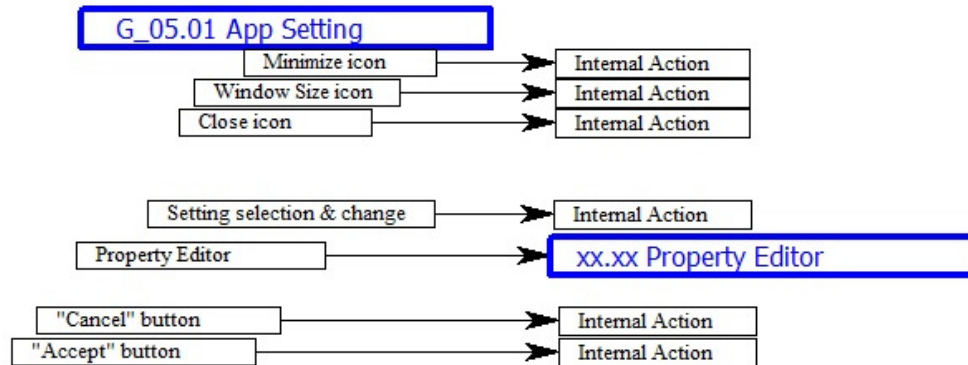4) Keyboard shortcuts
   To be determined

WARNING CONDITIONS

1. Need details of the condition that raised the warning, example message and possible next steps.
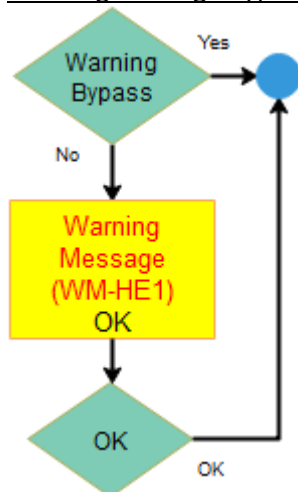
ERROR CONDITIONS
1. Need to record the condition that raised the error, example message and possible next steps.
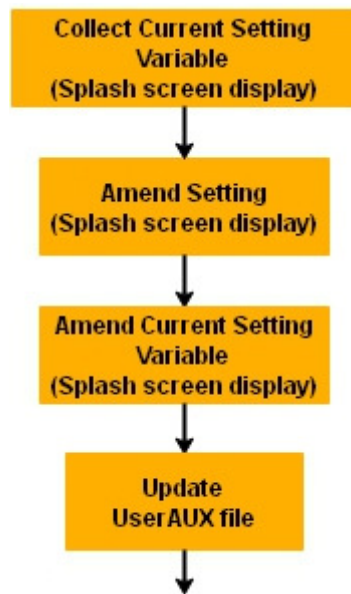
WINDOW INTERACTION MAP

PROCESS FLOW CHART(S)

Warning Message Bypass

Splash screen display at startup

```
┌─────────────────────┐
│  Collect Current Setting │
│      Variable        │
│ (Splash screen display) │
└─────────────────────┘
           │
           ▼
┌─────────────────────┐
│   Amend Setting      │
│ (Splash screen display) │
└─────────────────────┘
           │
           ▼
┌─────────────────────┐
│  Amend Current Setting │
│      Variable        │
│ (Splash screen display) │
└─────────────────────┘
           │
           ▼
┌─────────────────────┐
│     Update           │
│   User AUX file      │
└─────────────────────┘
           │
           ▼
```

USE CASES
1) Selection for use of the Splash screen display at startup
2) Display of Warning Messages.

Details below:

Use Case 1
Selection for use of the Splash screen display at startup
When HRE first starts, a splash screen is displayed. Continued use on each occasion that HRE starts is determined by User preference. The default condition in ON (resulting in display of the splash screen at start). A change to the selected action is determined by changing the status of the checkbox against this item in the Applications settings list.
Use Case 2
Display of Cancel Messages
Confirmation Messages are generated by HRE whenever a Cancel button is used. The display or otherwise of the Messages is a User preference. The default condition in ON (resulting in display of the Messages). A change to the selected action is determined by changing the status of the checkbox against this item in the Applications settings list.

TESTING
Testing to prove the functionality of this module in use with others of the HRE application.
Limited 'Project' functionality (see below).
Prior testing of the module in the code development process is assumed.

General requirements	Code element requirements
HRE installation	Main GUI

1) Single computer 2) Client-Server 3) Test Project database fileset	Project Open Project Close GUI_AppSetting ExitHRE

Process
1) Run HRE
   a. Open the Test Project
   b. Invoke the GUI_AppSetting module
   c. Close the current Project
   d. Exit HRE
2) Check result.