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

SCOPE

This GUI module displays the current and default settings of the currently open HRE project. It is opened by the Tools > Settings > Application menu item.

Hardware properties are initially set by the installation.
Access rights (if applicable) are set by Administrators.
Software operation default settings are saved in database tables.

All settings are visible to all Users.
Where Access rights apply, some settings may be shown 'greyed-out' and inactive to the User.

Issues:
Full list of the settings that can be edited by the User.
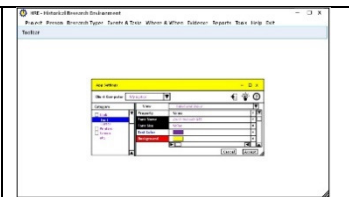
LOOK AND FEEL

- The topmost section of the window shows the current project name
- The upper right icon buttons provide the following universal features:
  - the 'Output' icon enables Output of the new project properties list by sending the contents of the Project Properties tabular display to a file or to a printer
  - 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. These setting categories are represented in a tree of up to 3 levels. Some main categories have a series of sub- categories within them, such as the 'Users' group in the example. Selecting one category group that has a set of property values will cause the right side to be populated with setting values
- The right side is a properties editor. The view of the property editing is 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
    - <u>BOLD white text on red background</u> when the value has been edited in this view (NOTE the red background color can be changed in the App Settings).

- o 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
- o 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.
- The editing of values has Undo/Redo features and repeat value access.

Property Specific Editing Tool command button (if required)

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 User changeable settings	

ACTIONS
The fundamental operations are:
1. Open window according to its saved Window Layout (BR_WindowConfig)
2. Populate the left side with the list of setting group labels
3. On selecting a setting group, the right side displays the setting names and values within that group
4. If a value is edited, then it will be validated both for its syntax and value for correctness
5. On finally clicking "Accept" the new values will be saved in the appropriate project database
6. On finally clicking "Cancel" the new values will not be saved.

USED BY:
All HRE users (subject to Access rights)

DATA CONTROLLED BY THIS MODULE

Settings for the following are User editable

Category	Settings
User (special conditions)	
Look	Window font selection, size and color
Keyboard properties	
Mouse properties	

Printer properties	
Access rights	
Logging	

REQUIRED DATA CONTROLLED BY OTHER MODULES:

1. HRE_ID
2. Window Configuration.

REQUIRED SERVICES – Dependencies

First-Order Dependencies	Second-Order Dependencies	Higher-Order Dependencies
07.24 BR_Setting	BR_AppData	
	BR_UserData	
	BR_EntityLink	Needed
07.17 BR_WindowConfig	07.06 BR_GuiElement	07.01 BR_EncodedString
		07.02 BR_EntityLink
		BR_FieldTranslation
		07.16 BR_MessagePatterns
	07.02 BR_EntityLink	NIL
	07.29 BR_Translation	07.02 BR_EntityLink
		BR_Field
		07.06 BR_GuiElement
		07.16 BR_MessagePatterns
	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

APPLICATION PROGRAMMING INTERFACE (API)

1. Single call with one parameter, the HRE_ID of the focus Project.

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
Display properties	T_127 Display Type
User special conditions	T_133 User Type Defns
Accessibility Rights	T_136 User Group Rights Defns
Units of measurement	T_179 Units Defns

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 the Client Computer name pulldown expands the list, and allows selection
   b. Mouse key click on a Setting category, causes the relevant settings to be displayed
   c. Mouse key click on each button, operates the button

d. Mouse key click on icons (detailed below)
    Right key
        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
                    May involve 'undoing' changes to the project database and Auxiliary files
        b. 'Box' icon
            Toggles the window size between full screen, and the saved Layout
        c. '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 the 'Output' icon:
        (opens the 'Output' window for output to File or Printer)
        Refer to ACTIONS for more information
    c. left mouse key click on 'Reminder' icon:
        (opens 'Reminder' window for this 'Application Settings' window)
    d. left mouse click on 'Help ' icon:
        (opens the Help System, searches for the section on the 'Application Settings'
        window.
4) Keyboard shortcuts
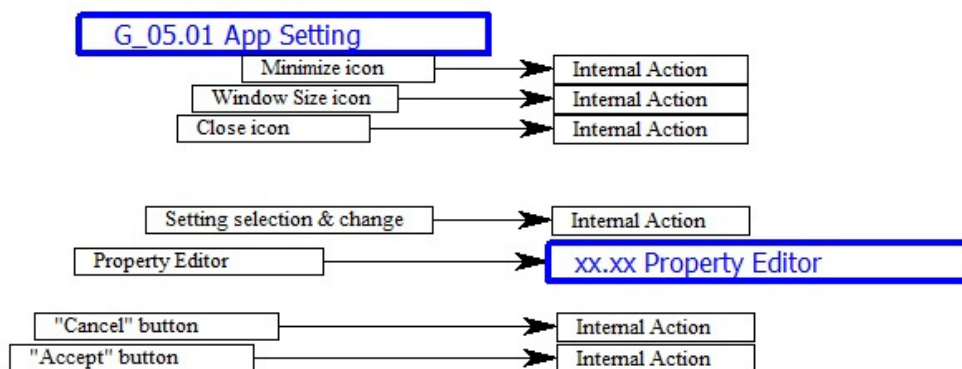   To be determined

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

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.