

## GUI\_ProjectRestore – Restore a Project

### Revision history

2017-06-21	Robin Lamacraft	Original draft
2018-06-08	Rod Thompson	Replace 'screen' with 'window' Replace 'BR_PanelConfig' with 'BR_WindowConfig' Replace 'BR_Notification' with 'BR_Message Patterns' Add graphic, Window Interaction Map, Process Flow chart
2018-06-09	Rod Thompson Don Ferguson	Edits Amend REQUIRED SERVICES
2018-06-10	Rod Thompson Don Ferguson	Add Dependencies Revise graphics, Flow chart & Windows Interaction Map Add detail to LOOK AND FEEL Add Warning & Error Messages Add EVENT ACTIONS
2018-06-11	Rod Thompson	Edit Replace graphics & Process Flow Chart

### SCOPE

This GUI module is called from the Main Menu (GUI\_UserInterface) to restore an HRE project from a backup file.

Regression from a backup is allowed. Warning messages are displayed where an existing Project of the same name exists in the selected location for the restoration.

The integrity of the 'restored' project is checked, and where errors occur, warnings issued and action taken.

Issues still to be resolved:

- the *format* of the backup file is still to be determined  
It is assumed that backups will have a date/time stamp in the backup filename  
At this time – it is assumed that the backup consists of:
  - an XML type file
  - an H2 databaseThe backup process may also have included external files and application settings, for which restoration is optional, to selectable locations
- there are questions when focusing on remote, server-side projects, including authorization and privilege, location of files e.g., if the restoration is to an *existing* server-side project.

### LOOK AND FEEL

The content of this window varies:

- with the installation  
Where HRE is used in a single computer/single user scenario, there is no evidence of a Server presence. The window layout varies according to use or not, of a Server
- With the selection of 'Restore Contents'.

The window has several parts:

- The upper right icon buttons provide the following universal features:
  - the Reminder icon displays the Reminder content for this window
  - the Configuration icon enables the user to create and retrieve Configurations of this window's layout

- the Help icon displays context Help about the use of this window
- The “Server” selection list allows selection from various servers known to this installation of HRE. On selection of a Server, the “Login” button allows the user to access that server (if the user is already logged into that server the “Login” button will be hidden). NOTE: If this is an isolated usage of HRE where project files are only used from the same computer then the server aspects of this GUI will not show any server-related elements. There can be a one user environment. If a second computer is used to access those project files over a local network then the login on either computer must invoke the shared server mode
- The From Backup “Browse” button so that the user can select a folder and a project backup file
- The ‘Start at server backup default’ check box does ??????
- The “Summary” button opens the GUI\_ProjectSummary module to display the details of the selected backup project
- The Restore to “Browse” button so that the user can select a folder and a restored project file
 

Project regression is allowed.

If the user selects a Project name, where an identically named project exists in the intended destination for the restoration, a warning message is displayed
- The Restore Contents checkbox list enables the user to select what content will be restored ‘Data’ and ‘Definitions’ are defaults, and cannot be de-selected.
 

When selected, the main window expands to provide additional user selections for ‘Images’ and ‘External Files’
- The buttons:
  - “Restore” performs the restore project functions on the selected project
  - “Cancel” exits without action.

Project Restore

X

From Backup

Browse

☒
Start at server backup default

Folder

D:/History/Drummond

Project Name

D:/History/Drummond

Summary

Restore Contents

☒ Data
☒ Definitions
☐ External Files

Restore to

Project Name

Browse

D:/History/Drummond

Restore as Project Name

Drummonds-UK

Cancel

Restore

Window extension here, for Resore Content extras

ProjectRestore Window (no Server)– Mockup

Project Restore

X

Server

This computer

Login

From Backup

If not logged in

Browse

☒ Start at server backup default

Folder

D:/History/Drummond

Project Name

D:/History/Drummond

Summary

Restore Contents

X Data

X Definitions

☐ External Files

Restore to

Project Name

Browse

D:/History/Drummond

Restore as Project Name

Drummonds-UK

Cancel

Restore

Window extension here, for Restore Content extras

ProjectRestore Window (with Server)– Mockup

External Files

From: 

Browse

Folder

D:/History/Drummond

Project Name

D:/History/Drummond

To: 

Browse

Folder

D:/History/Drummond

Restore as Project Name

Drummonds-UK

Window Extension for External files restore

## ACTIONS

The fundamental operations are:

1. Open the window according to its saved window Layout (BR\_WindowConfig)
2. Allow the user to select one backup file to examine
3. Allow the user to select where the backup file will be restored to
4. Allow the user to select what contents from the backup files is to be restored
5. Perform the restore operation
  - Assign a temporary filename to the restored project files
  - Check the validity of the H2 database and perform a 'project integrity check'

This process is as yet to be defined, but it is assumed that the process will create a log.

If the restore process creates an Error:

  - i. An Error Message is displayed
  - ii. The 'Restore' process is 'failed' and the temporary project files deleted.
  - The filename of the restored project consists of the Project name, and the date and time at which the Project files are saved.

## USED BY

All HRE users.

## DATA CONTROLLED BY THIS MODULE

1. None.

## REQUIRED DATA CONTROLLED BY OTHER MODULES

1. None.

## REQUIRED SERVICES - Dependencies

First-Order Dependencies	Second-Order Dependencies (if not already listed)	Higher-Order Dependencies (if not already listed)
04.14 GUI_ProjectSummary	07.17 BR_WindowConfig 07.21 BR_Project	
05.75 GUI_Server Login – see above	03.68 GUI_Select Configuration 07.24 BR_Setting 07.17 BR_WindowConfig 03.66 GUI_Message Patterns	
03.66 GUI_Message Patterns	NIL	
07.17 BR_WindowConfig	07.06 BR_GuiElement 07.02 BR_EntityLink 07.29 BR_Translation 07.16 BR_MessagePatterns	
07.04 BR_Files – see above	Local file system interface modules Remote server connection modules Remote or ext. file system modules 07.16 BR_MessagePatterns 07.21 BR_Project 07.24 BR_Setting 07.11 BR_Logging 07.25 BR_Schema 08.01 BCS_Bridge	
07.43 BR_ServerServices		
07.16 BR_MessagePatterns	NIL	
07.21 BR_Project	07.06 BR_GuiElement 07.02 BR_EntityLink 07.29 BR_Translation 07.03 BR_FieldDefinition	

## APPLICATION PROGRAMMING INTERFACE (API)

1. Single call, with no parameters

## EVENT ACTIONS

- 1) Keyboard actions

NIL

- 2) Mouse actions

### Left key

- a. click on Server name pulldown expands Server list, and allows selection
- b. click on a Project Name, causes the project name to be shown in the text box, associated with the Summary button
- c. click on the Browse button opens the Windows Explorer allowing the user to view the file system to select an existing Folder and Filename, or enter a new Filename
- d. click on the 'un-checked' check box in the Restore Content display, causes the check box to be 'checked', and the option selected. A second click, reverses the process.
- e. click on each button, operates the button
- f. click on icons (detailed below)

### Right key

**To be determined**

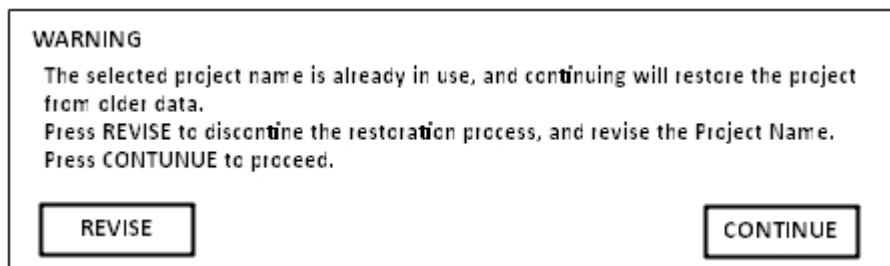
- 3) Icon actions

- a. left mouse key click on icons in the Window Control group:
  - a. 'X' icon  
(closes the window)
  - b. 'Box' icon  
Toggles the window size between full window, and the preset window size

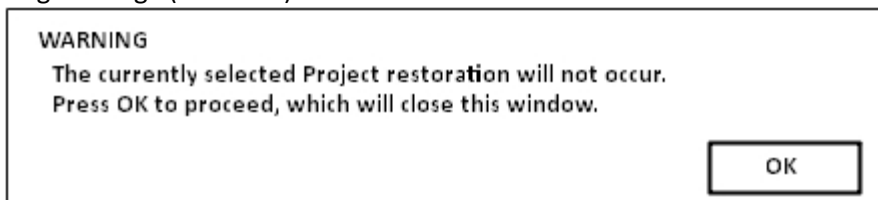
- c. 'Dash' icon  
Minimizes the window, to an icon on the window toolbar.  
A click on the toolbar icon restores the display to its previous setting
  - b. left mouse key click on 'Reminder' icon:  
(opens 'Reminder' window for this 'Send to Colleague' Message display)
  - c. left mouse key click on the 'Configuration' icon  
(opens the Configuration Window for this Project Open window)
  - d. left mouse click on 'Help' icon:  
(opens the Help System, searches for the section on 'Send to Colleague Message')
- 4) Keyboard shortcuts  
To be determined

## WARNING CONDITIONS

1. .When Project regression will occur as a consequence of the user selected Project name and location, a warning message is displayed.  
Warning Message (WM-PR1)



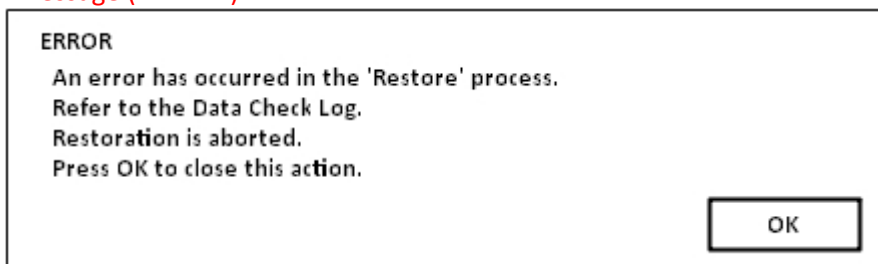
2. When the 'Cancel' button is used, a warning message is displayed.  
Warning Message (WM-PR2)



## ERROR CONDITIONS

### Single computer/single user scenario

1. An error may occur in the restoration process – detected by the Data Check.  
Error Message (EM-PR1)



### Server scenario

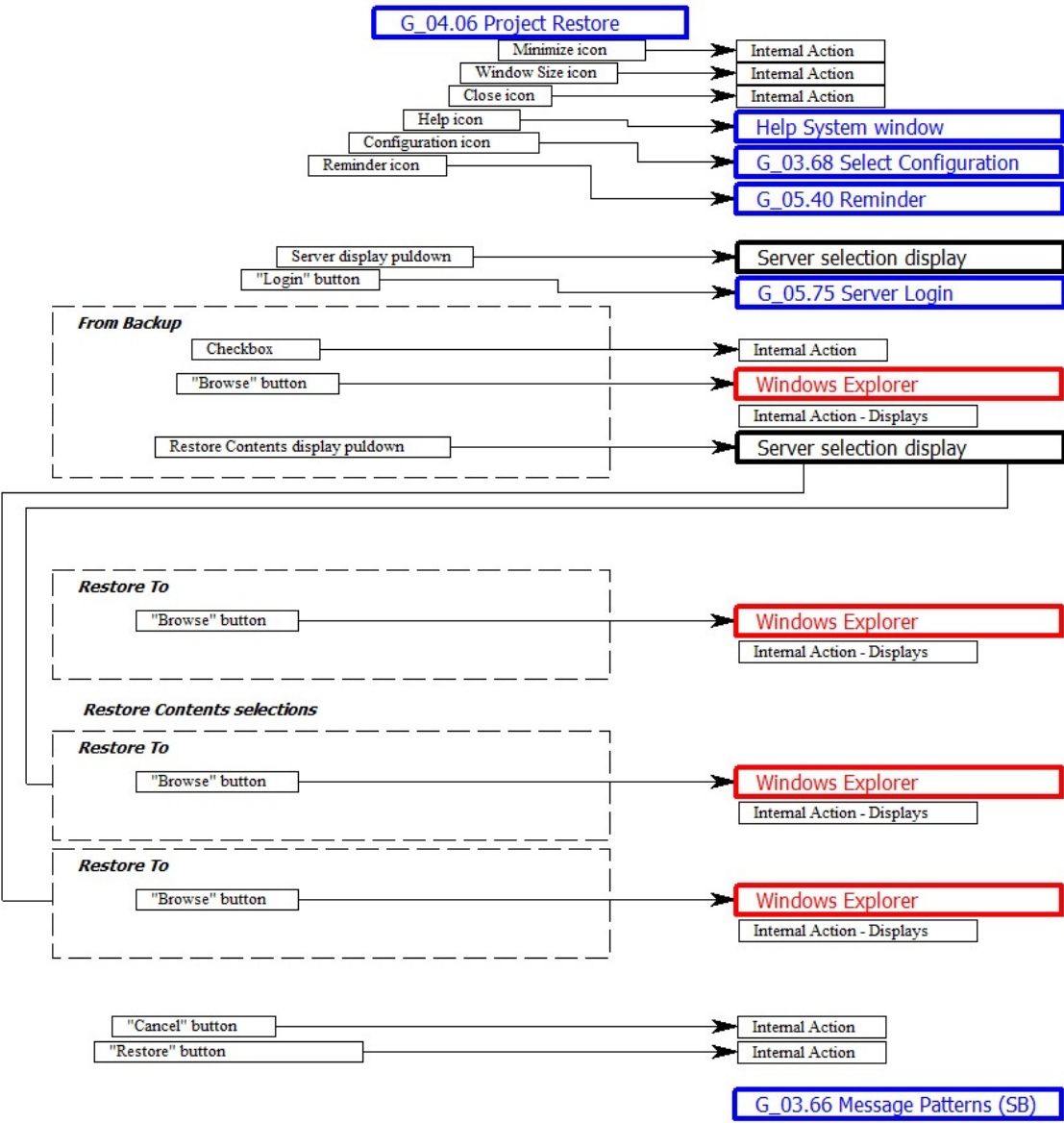
Created in and sent from Server to Client

Message M_S_C_1	Subject: Project Restore From: Server
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<p>Uses Server Broadcast Message Pattern GUI_Message (SB)</p> <p>Sent to one Client initiating the process</p>	<p>Text Message: <b>Project restore successful.</b></p> <p>Requested by: <b>User name</b> Project name: <b>Project name</b> Project folder: <b>Folder name</b> Project filename: <b>Filename</b></p>
<p>Message M_S_C_2</p> <p>Uses Server Broadcast Message Pattern GUI_Message (SB)</p> <p>Sent to one Client initiating the process</p>	<p>Subject: Project Restore From: Server Text Message: <b>Project restore failed. Error detected.</b> <b>Refer to Data Check Log.</b> <b>Process aborted.</b></p> <p>Requested by: <b>User name</b> Project name: <b>Project name</b> Project folder: <b>Folder name</b> Project filename: <b>Filename</b></p>



WINDOW INTERACTION MAP



PROCESS FLOW CHART

