

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
2018-07-01	Rod Thompson	Revise Issues Add PROJECT FILESET Revise REQUIRED SERVICES – Dependencies Replace Process flowchart Amend MESSAGES Replace WINDOW INTERACTION MAP
2018-07-02	Rod Thompson	Revise SCOPE and ACTIONS Replace Process Flowchart

SCOPE

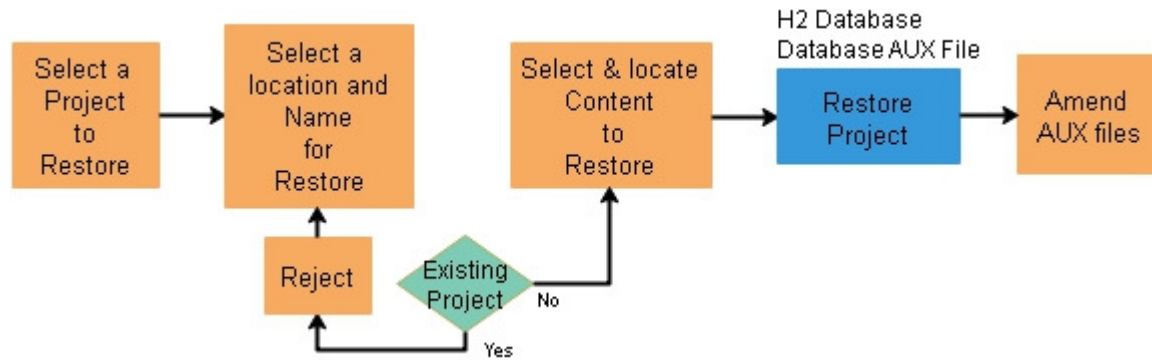
This GUI module is called from the Main Menu (GUI_UserInterface) to restore an HRE project from a backup file.

The location and naming of the Backup file to be used for restoration is determined by the User when using the Project Backup module. The backup process may also have included external files and application settings, for which restoration is optional, to selectable locations.

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 critical. A rollback system is employed, restoring the project to a temporary project name and location. The project is checked, and where errors occur, warnings issued and actions taken. If no errors are detected, the temporary project is converted to the designated project.

Process Overview



PROJECT FILESET

A set of files required for normal use of HRE projects consists of:

- an H2 database
- A 'User' Auxiliary file
- A 'Project' Auxiliary file
- folders of external files (images, etc) [optional].

Refer to *03.32 Overview – Auxiliary (Non Database) Files* for details.

Issues

The format of the backup file is still to be determined.

LOOK AND FEEL

The content of this window varies:

- 1) 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.

- 2) 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

From Backup
Browse

Folder
D:/History/Drummond

Project Name
D:/History/Drummond

Summary

Restore Contents

<input checked="" type="checkbox"/>	Data
<input checked="" type="checkbox"/>	Definitions
<input type="checkbox"/>	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 (no Server)– Mockup

Project Restore
—
□
X

💡
⚙️
?

Server
This computer
Login

From Backup
Browse
☒ Start at server backup default
If not logged in

Folder
D:/History/Drummond

Project Name
D:/History/Drummond

Summary

Restore Contents

<input checked="" type="checkbox"/>	Data
<input checked="" type="checkbox"/>	Definitions
<input type="checkbox"/>	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
 - When the restoration action is successful, update entries in the User Auxiliary file, and the Database Auxiliary file for the restored Project
6. Other Users of the Project are to be notified of the actions.

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	Higher-Order Dependencies
04.14 GUI_ProjectSummary	07.17 BR_WindowConfig	07.06 BR_GuiElement
		07.02 BR_EntityLink
		07.29 BR_Translation
		BR_FieldTranslation
		03.66 GUI_Message Patterns
	07.21 BR_Project	07.06 BR_GuiElement
		07.02 BR_EntityLink
		07.29 BR_Translation
		07.03 BR_FieldDefinition
05.75 GUI_Server Login	03.68 GUI_Select Configuration	Needed
	07.24 BR_Setting	BR_AppData
		BR_UserData
		07.02 BR_EntityLink
	07.17 BR_WindowConfig	See above
	03.66 GUI_Message Patterns	07.02 BR_EntityLink
		07.01 BR_EncodedString
		07.11 BR_Logging
		Call Stack
		07.24 BR_Setting
		GUI Translation
03.66 GUI_Message Patterns	NIL	
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_MessagePatterns
	07.16 BR_MessagePatterns	See above
07.04 BR_Files	Local file system interface modules Remote server connection modules Remote or ext. file system modules	
	07.16 BR_MessagePatterns	See above
	07.21 BR_Project	See above
	07.24 BR_Setting	See above
	07.11 BR_Logging	07.01 BR_EncodedString
		07.02 BR_EntityLink
		BR_FieldTranslation
		07.26 BR_Substitution
	07.25 BR_Schema	See above
	08.01 BCS_Bridge	10.02 SS_DirectRequest
		07.16 BR_MessagePatterns
07.43 BR_ServerServices	????	
07.16 BR_MessagePatterns	See above	
07.21 BR_Project	07.06 BR_GuiElement	See above
	07.02 BR_EntityLink	See above
	07.29 BR_Translation	See above
	07.03 BR_FieldDefinition	Needed

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)
NOTE: Same action as in use of the 'Cancel' button
 - 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')

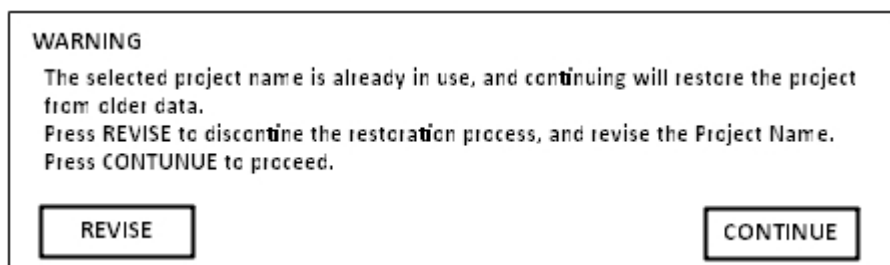
4) Keyboard shortcuts

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)

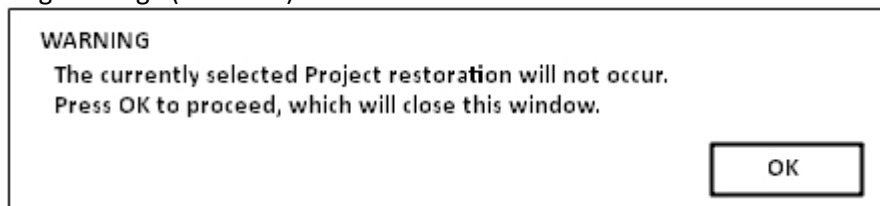


Text Version

The selected project name is already in use, and continuing will restore the project from older data.

Press REVISE to discontinue the restoration process, and revise the Project Name.
Press CONTINUE to proceed.

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



Text Version

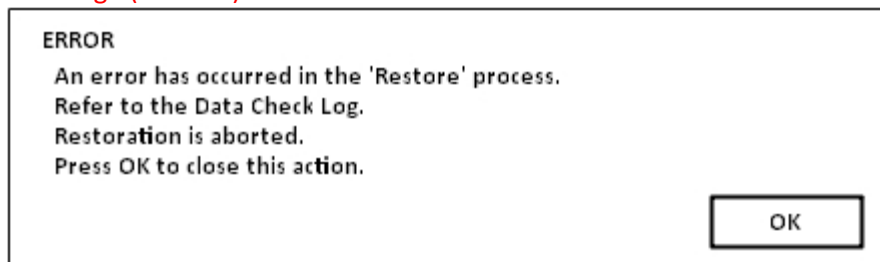
WARNING

The currently selected Project restoration will not occur.
Press OK to proceed, which will close this window.

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)



Text Version

ERROR

An error has occurred in the 'Restore' process.
Refer to the Data Check Log.
Restoration is aborted.
Press OK to close this action.

MESSAGES

Server scenario

Created in and sent from Server to Client

Message M_S_C_1 Uses Server Broadcast Message Pattern GUI_Message (SB) Sent to one Client User initiating the 'restore' process	Subject: Project Restore From: Server Text Message: Either the Server is currently taking other actions on the project, or you do not have 'RIGHTS' to restore the project. Requested by: User name Project name: Project name Project folder: Folder name Project filename: Filename
Message	Subject: Project Restore

<p>M_S_C_2</p> <p>Uses Server Broadcast Message Pattern GUI_Message (SB)</p> <p>Sent to all current users of the selected project</p>	<p>From: Server</p> <p>Text Message: Project restore queued – multiple users. Restore will occur when all users are disconnected from the project.</p> <p>Requested by: User name Project name: Project name Project folder: Folder name Project filename: Filename</p>
<p>Message M_S_C_3</p> <p>Uses Server Broadcast Message Pattern GUI_Message (SB)</p> <p>Sent to one Client initiating the process</p>	<p>Subject: Project Restore</p> <p>From: Server</p> <p>Text Message: Project restore successful.</p> <p>Requested by: User name Project name: Project name Project folder: Folder name Project filename: Filename</p>
<p>Message M_S_C_4</p> <p>Uses Server Broadcast Message Pattern GUI_Message (SB)</p> <p>Sent to all Client Users (except initiator) recorded in the Project AUX file, with access to the origination project</p> <p>Queued till next Login</p>	<p>Subject: Project Restore</p> <p>From: Server</p> <p>Text Message: This Project has been restored.</p> <p>Requested by: User name Project name: Project name Project folder: Folder name Project filename: Filename</p>
<p>Message M_S_C_4</p> <p>Uses Server Broadcast Message Pattern GUI_Message (SB)</p> <p>Sent to all Client Users (including initiator) recorded in the Project AUX file, with access to the origination project</p> <p>Queued as necessary till next Login</p>	<p>Subject: Project Restore</p> <p>From: Server</p> <p>Text Message: Project restore failed. Error detected. Refer to Data Check Log. Process aborted.</p> <p>Requested by: User name Project name: Project name Project folder: Folder name Project filename: Filename</p>

Message window location: centred on the GUI_ProjectRestore window

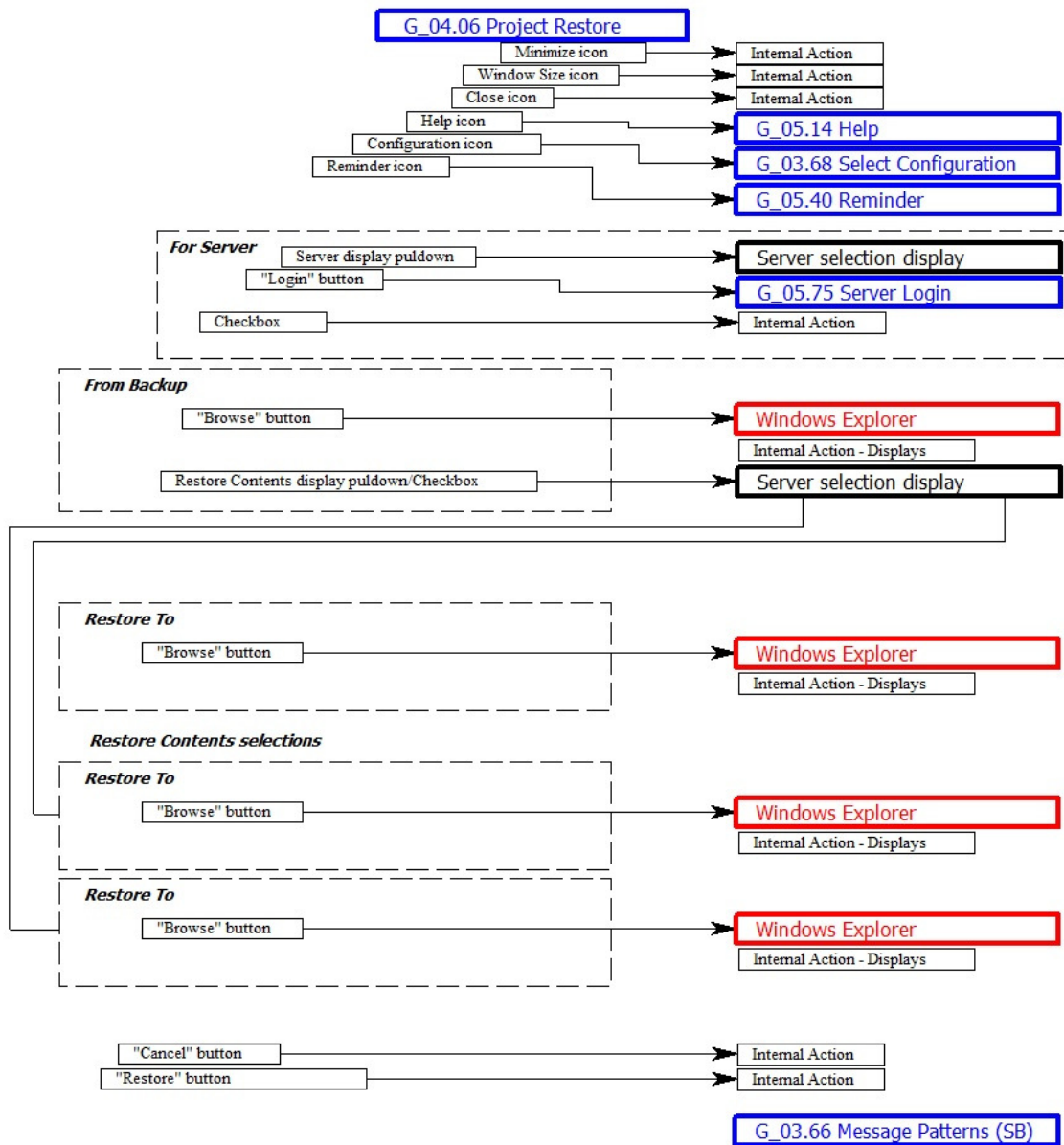
Message designator:

- 1) M_ signifies a message
- 2) X_ source
- 3) Y_ destination

4) Z distinguishing number for this window

Messages from the Server to the Client utilize the Server Broadcast Message Pattern. Such messages result in a window opening on the client, to display information (detailed above) That specification requires amendment to allow use for sending to selected Users.

WINDOW INTERACTION MAP



PROCESS FLOW CHART

