

GUI_ProjectOpen – Open a Project

Recent Revision history

2017-06-21	Robin Lamacraft	Original draft
2018-05-27	Rod Thompson	Inserted diagrams, actions
2019-04-08	Don Ferguson	Replace mockups with actual screen shots Revise text to match actual screen functions Update 03.6x references to 05.8x
2019-04-28	Don Ferguson	Revised screenshots based on use of a real UserAUX file; revised Dependencies
2020-02-27	Don Ferguson	Align with actual code (Build 19)
2023-07-15	Don Ferguson	Align with Build 30

SCOPE

This GUI module is called from the Main Menu to open an existing an HRE project for use.

PROJECT FILESET

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

- an HRE format H2 database
- A 'User' Auxiliary file (possibly created at Open)
- Appropriate log files (possibly created at Open)
- folders of external files (images, etc) [optional].

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

NOTES

On the first occasion that each user initiates HRE operation, a User Auxiliary file is created for that user. As projects are created or opened for the first time, a Project entry (for each Project) is created. This system provides a linkage between Users and Projects.

A list of projects (local and remote) that can be accessed by the User is displayed for selection. This data is loaded from data read from the User Auxiliary File where projects have previously been worked on by the user. Other Projects may be accessible:

- on the local computer, accessed via browsing the OS file explorer, or
- on a server known to the HRE-Client, accessed (once logged in) via browsing the OS file explorer, or
- on a new server where advice of such projects is notified to the User, and access is granted by an administrator.

Any 'other' project selected by the above method is added to the project display.

First time access to a project on a Server, requires a different approach to the Project Open.

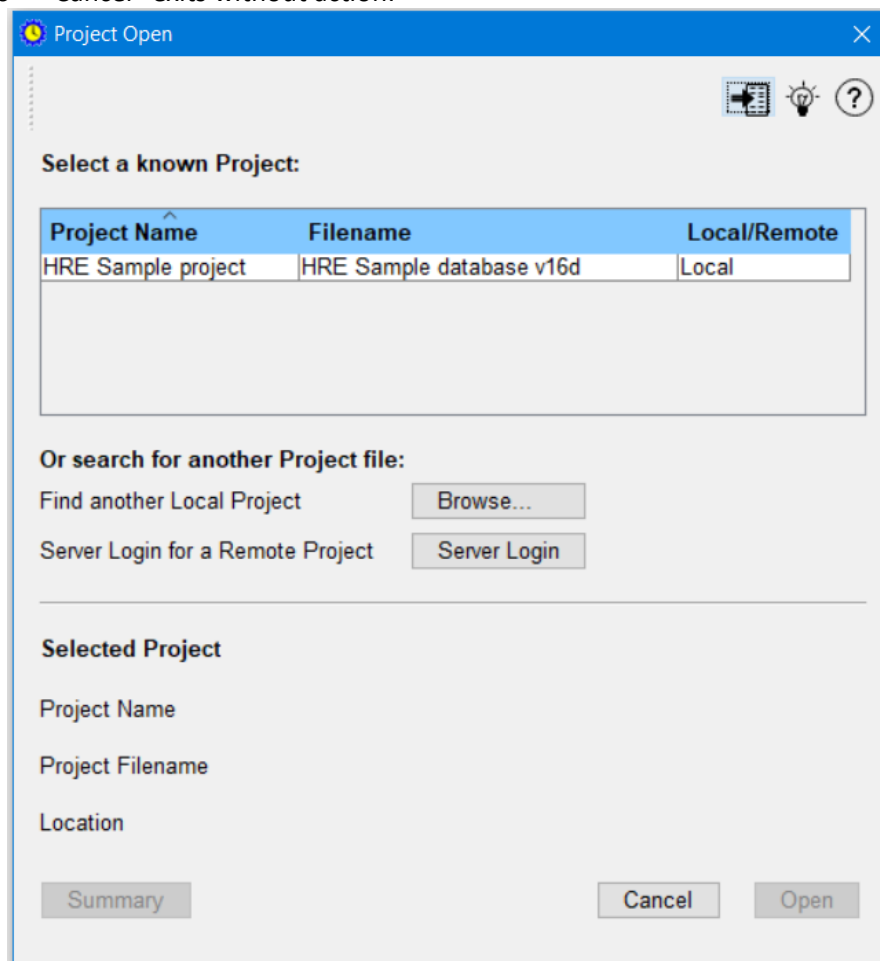
See Use Case 3.

LOOK AND FEEL

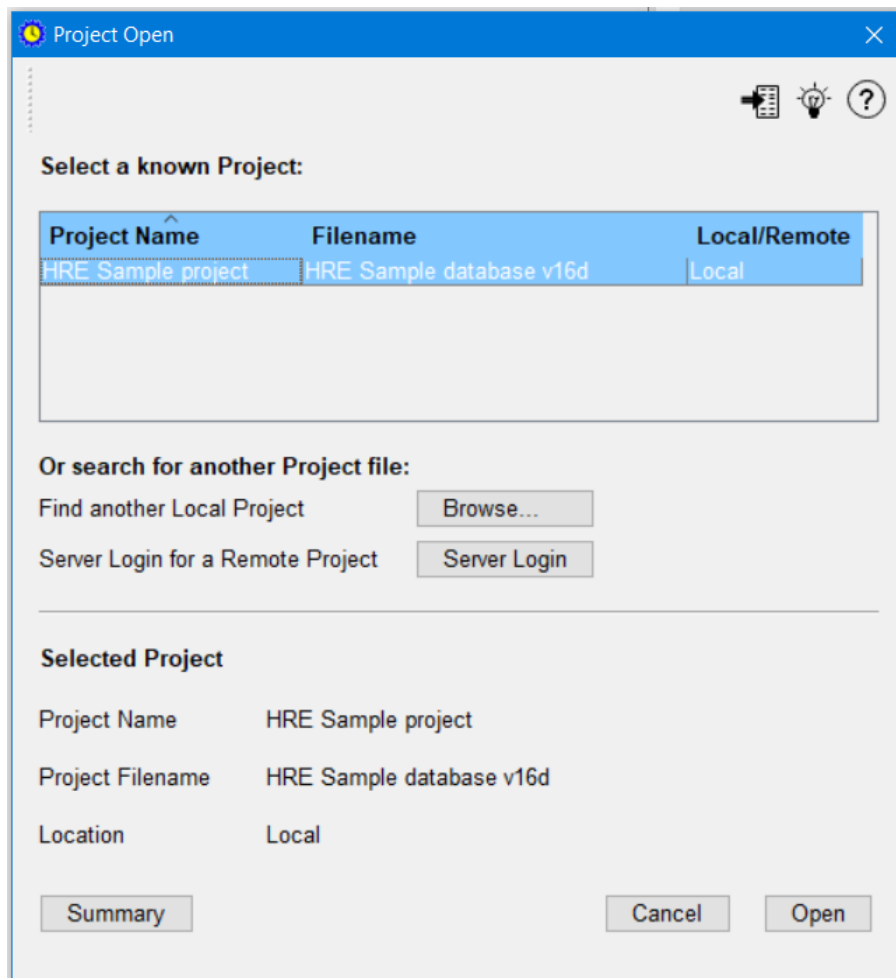
The window has several parts:

- A frame with the window name, and window close X icon
- The upper right icon buttons provide the following universal features:
 - The 'Output' icon enables Output of the Recent Projects list by sending the contents of the Recent Projects tabular display to a file or to a printer
 - The 'Reminder' icon displays the Reminder content for this window
 - The Help icon displays context Help about the use of this window.

- A 'Projects' scrollable tabular display area which shows all of the user's accessible projects. If the selected project is located in a server, access to that server may be established (if the user is already logged into that server); or otherwise via a login process. (GUI_ServerLogin)
- A 'Browse' button provides access through the OS file explorer to search for other projects located on the user's computer
- The 'Server Login' button allows selection of various servers known to this installation of HRE. On use, access is provided to select a server and project (where administration has provided accessibility)
- The buttons:
 - "Summary" opens a Project Summary window, displaying a summary of the project
 - "Open" performs the project open functions on the selected project
 - "Cancel" exits without action.



PROJECT OPEN Window – initial view



PROJECT OPEN Window – project chosen

ACTIONS

The fundamental operations are:

1. Open the window
2. HRE has 3 possible installation variants:
 - Local mode -where HRE acts as an application entirely within one computer
 - Mixed mode- where HRE has both some project files stored locally and some are stored remotely on a local network server or in some external internet service
 - Remote mode – where no user data is stored on the local computer and all data must be transferred across a network.
3. Accordingly, the GUI_ProjectOpen module has to adapt to each of these modes. Local Mode requires no login capability, but the other 2 modes require this interface to adapt itself according to the type of request. To achieve this, GUI_ServerLogin has to provide access
4. Displays a list of projects available to this User (as controlled by access rights)
5. The project list display is sorted by Project name
6. When new shared projects are identified on a Server, and selected, the selected project may be opened, but is not added to the known projects list until Open completes
7. The Project Summary button allows the user to view in a new window, summary information about the selected Project
8. For a Remote project (**not yet implemented**):
 - Check the status of a remote project to identify whether it is currently unavailable because of backups in progress or other system actions
 - Check status of the selected project to see whether it is already open by other users

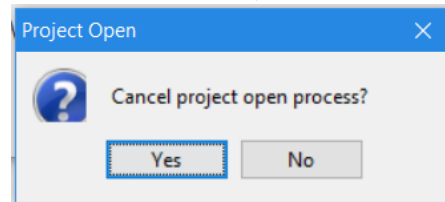
- If already in use, notify all concurrent users of this user joining for update activity. This is to be done using the BR_Message Patterns and GUI_Message Patterns modules (a Server function)
9. Open the selected project file
 10. Add records to the User Auxiliary File.

LOGGING

Use of this module will create log entries.

WARNING CONDITIONS

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



Press YES for close Project Open and return to the HRE Main Menu.
Press NO to stay with the Project Open window..

USE CASES

- 1) HRE Software and Project version differences (Single computer or Client to Single Server)
- 2) HRE Software and Project version differences (Server based multi-user)
- 3) Open an unknown Project on a Server previously not accessed by the User
- 4) Single user – open one HRE Project (local computer)
- 5) Single user – open one HRE project (remote computer)
- 6) Single user – opening 2 HRE Projects concurrently (local computer)
- 7) Single user – opening 2 HRE Projects concurrently (one local, one remote)
- 8) Single user – opening 2 HRE Projects concurrently (both remote)
- 9) Read-Only open (as distinct from normal Read-Write)

NOTE: Where the Use Case identifies 'version difference' this can be either a difference in HRE software/database version numbers OR a difference in installed HRE plugins. Where the difference is only in installed plugins, a database open should only be allowed if (a) the user has full admin rights, and (b) the software has an extra plugin compared to the database set.

Further consideration is required of all possible version/plugin differences, otherwise there is a possibility that installing a plugin will make it impossible to open an existing Project database.

Use Case 1

Single Computer, or Client to Single Server - HRE Software and Project version difference

Where the database version is lower than the software, then the database is in need of upgrading.
Where the database version is higher than the software, no access is allowed.

Where the upgrade is possible (software determination), then carry out the upgrade.
Save the database, and update AUX file record database version.

When access is not possible, additional information needs to be provided to the User (i.e., software and database version numbers).

Use Case 2

Server based project (multi-user) - HRE Software and Project version difference

An administrator probably determines the software versions of client installations.
Project versions and client HRE versions will generally match.

An exception may be a guest client user. In which case the user rights are likely to be limited.
If rights are open, and the guest user has a newer version of software, then any data saved by the guest user may cause problems for the broader user base, so an upgrade of the database should not be allowed.

Another exception may exist where multiple organisations share a common project on a server.
Rights will have to determine action taken where a project/software version difference is detected.

A new specification is required (BR series) to define requirements resulting from HRE software version changes. The presumption is that with each software version upgrade, a set of rules will be established for project database upgrades, embedded in the software.

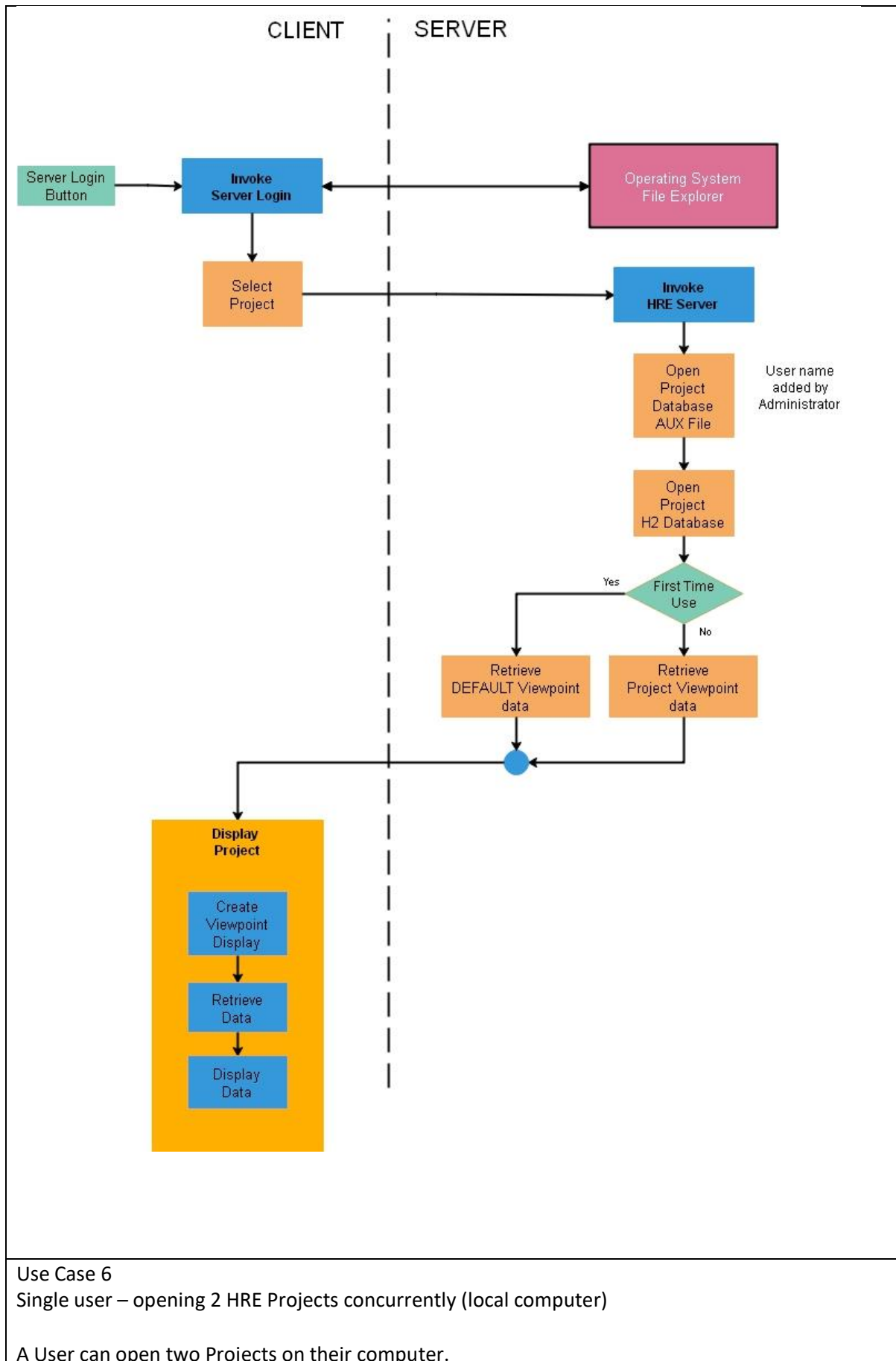
Use Case 3

Open an unknown Project on a Server previously not accessed by the User

Assume the User can access the Server computer, and has the Rights to access the Project.
Using the "Server Login" button on the HRE Client initiates the process displayed below.

Notes:

- 1) Accessing projects (previously unknown) in this manner will require that the Project can be opened by use of the 'double-mouse-click' on the project database filename in the Server file explorer. This methodology for opening a project is presently recorded as requiring later consideration. There may be other implications.



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