

# HRE – USER AUXILIARY FILE OVERVIEW

## Revision history

2019-03-06	Rod Thompson	Original draft
2019-03-07	Don Ferguson	Edits to align with 03.32 and AUX File recovery detail

## SCOPE

Use of Auxiliary (AUX) files in HRE is to provide access to a limited set of data about a User's use of the application, without the need to open project databases to obtain that information.

An HRE Client provides the GUI for User interaction.

A User Auxiliary file is created when the HRE User performs either their first project Open (for an existing project) or creates their own New project.

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

## USER AUXILIARY (NON-DATABASE) FILE

The file holds specific information, also divided into 2 groups.

At a high-level these are as follows:

User AUX File
<u>User related information</u> , such as: <ul style="list-style-type: none"><li>• User preferences</li><li>• Accessibility data (vision, motor action, etc)</li><li>• Screen attributes</li><li>• Printer attributes</li><li>• Default Viewpoint</li><li>• other data as may be required.</li></ul>
<u>Project related information</u> (per Project): <ul style="list-style-type: none"><li>• Database filename, Project name, location</li><li>• “</li><li>• “</li><li>• other data as may be required.</li></ul>

Additional detail and examples are provided below.

## HRE INSTALLATION

The program is installed into C:/Program Files/HRE/.....

This includes the program files and seed H2 database.

In operation, the user environments are established e.g., c:/Users/ username /HRE/....

Auxiliary files, Log files etc are added to this through use of the application.

## CREATION OF AUX FILES AND DATA ENTRY

At the time of installation of the HRE application, program files, a seed database and other files are saved to the User's computer file storage system.

At the time of **first use** of HRE, action in relation to the project is determined by User selection of the HRE ProjectNew, ProjectOpen and ProjectAdmin routines.

User Auxiliary file and Log files are created in the User environment.

e.g. c:/Users/ username /HRE/...

During subsequent use, if any change occurs to this information, the User Auxiliary file record is updated.

Use of the above project routines add records to the User Auxiliary file with the project database information (database filename, project name, location, etc).

During subsequent use working with other projects, similar project database information (database filename, project name, location, etc) is added as a new entry for each project to the User Auxiliary file.

As each project is used relatively infrequently (perhaps a few times per day), each existing record in this file is only amended with each project use.

## USER AUX FILE ACCESS

Access to the User AUX file is provided through the BR\_UserAUX module.

No other access to this file has been defined.

## USE OF AUX FILE DATA

Many of the Project routines in HRE make use of access to the User Auxiliary file to collect data on the projects previously worked on by the User to load a table in the GUI window thereby allowing for selection of a project to be opened for further operations by the User.

Data from the User AUX file records may be selectively used, or sorted before display in the GUI dependent on the intended use.

## USER AUX FILE RECORDS

### User Information

It is anticipated that information recorded in this area of the file will be amended infrequently.

In addition to the items listed above, this section of the Auxiliary file will include records of the Servers to which the User has access, the logins for those servers.

Server Name	Location	Login
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Detail here not yet determined.

High-level User rights (accessibility) information is expected to be recorded here, but detailed User rights are recorded in the Project database.

Accessibility	Administrator or Other
If other, more detail	

### Project Information

For every project is opened on by the User, a record with the following information is added to the User Aux file.

Project Name	Database filename	Server name	File location (Folder)	Last Update
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The last update detail is the date and time record when the Project was last saved by this User.

This data will be correct for this project where single use is involved. Shared project use means that the last update of the project when saved by another User will differ from this record. **A method to 'update' this information has yet to be determined.**

## **BACKUP OF USER AUX FILE**

**Provision of a User AUX file backup facility has not been specified.**

## **RECOVERY FROM USER AUX FILE LOSS**

Loss of the User AUX file is not catastrophic, but will inhibit the User access to projects they have previously used. If the User opens a Project they have previously used, the User AUX file will be re-created, as this is the same as a new User opening an existing project for the first time – however, usage settings and details of other projects will be unknown until each project is manually located and re-opened.

The possible recovery options are thus:

- 1) Restore of the User AUX file from a backup copy, if available
- 2) Recreation and rebuilding of the individual Project content through re-opening each project
- 3) Building the User AUX file from project log entries. This function could only be done by an administrator with full access to the project log files. **The process is undefined** but would involve interpretation of the User's project interactions e.g., the log entry for a User opening the project proves they previously had access and thus should create an entry for that project in the User AUX file, and so on.