

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
2019-04-27	Don Ferguson	Revision throughout and definition of XML format of data
2019-05-13	Don Ferguson	Minor revisions and alignment with 03.32.02
2020-01-19	Don Ferguson	Bring up to date with current AUX file structure

SCOPE

User Auxiliary (AUX) files in HRE are used 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.

A User Auxiliary file is created when the HRE application is first used and is updated when an HRE User performs either their first project Open (for an existing project) or creates their own New project, or updates user settings.

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

USER AUXILIARY (NON-DATABASE) FILE

The file holds specific information, divided into 3 groups. At a high-level these are as follows (see a later section of this document for details):

User AUX File
User related information, such as: <ul style="list-style-type: none">• User name• User preferences• Screen layout data• Accessibility data (vision, motor action, etc)
<u>Server related information</u> (per User, per Server): <ul style="list-style-type: none">• Server name, logonid, rights• “
<u>Project related information</u> (per Project): <ul style="list-style-type: none">• Project name, filename, folder, server, last date accessed, DB type• “

NB: previous drafts of this document have suggested that various data such as OS Version, web address, OS language and printer, screen, etc properties be stored here as well. As this information is available through OS APIs, this is a redundant requirement.

HRE INSTALLATION

The program is assumed to be installed into C:\Program Files\HRE\.....

This includes the program files and Seed database.

In operation, the user environments are established in C:\Users\ username \hre\....and the User Auxiliary file is added to this through the use of HRE.

CREATION OF AUX FILES AND DATA ENTRY

At the time of **first use** of HRE, the User Auxiliary file is created in the User environment as (using Windows as example) C:\Users\ username \hre\username.hreu

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

Use of the Project routines New, Close, Restore and Admin add and/or update data in the User Auxiliary file. During subsequent work with other projects, project database information (database filename, project name, location, etc) is added as a new entry in the Project section of the User Auxiliary file.

USE OF USER AUX FILE DATA

All access to the User AUX file is provided through the HB0744UserAUX module.

Many of the HRE routines make use of data from the User Auxiliary file - for these and other purposes, data 'collected' from the initial opening and reading of the User AUX file is stored in variables in the HGlobal routine for reference. Any change to these variables requires immediate update of the User AUX file through use of HB0744UserAUX.

RECOVERY FROM USER AUX FILE LOSS

Loss of the User AUX file is not catastrophic, but will inhibit the User's 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 methods 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. This would require the User to obtain the relevant details (loginID, password) for any remote server access that they had previously been provided with
- 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.

USER AUX FILE RECORD FORMAT

User AUX files will be saved in XML format. The following defines the XML structure and the fields defined. Further data may be recorded as HRE is built, without this specification necessarily being updated each time.

In the following, items in (*italicised*) are comments on the initial content, NOT actual entries.

```
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<userauxfile>
  <buildno>0.00.0017</buildno>
  <user>
    <username>username of user</username>
    <preferences>
      <guiLang>en</guiLang>
      <showsplash>true</showsplash>
      <showcancelmsg>true</showcancelmsg>
      <showvppproject>false</showvppproject>
      <openlastproject>false</openlastproject>
      <writelogs>true</writelogs>
```

```
</preferences>
<locations>
  <mainmenux>936</mainmenux>
  <mainmenuy>275</mainmenuy>
  <mainmenuh>700</mainmenuh>
  <mainmenuw>1200</mainmenuw>
</locations>
<visible>
  <guifont>Arial</guifont>
  <tableheadfill>82c8ff</tableheadfill>
  <tableheadfont>000000</tableheadfont>
</visible>
<servers>
  <server name="user's computername">
    <logonid>NA</logonid>
    <rights>ALL</rights>
  </server>
</servers>
</user>
<projects>
  <project name="HRE Sample project">
    <filename>HRE Sample database</filename>
    <foldername>~/HRE/</foldername>
    <servername> user's computername </servername>
    <lastclosed>2020-01-18 / 12:00:00</lastclosed>
    <dbtype>H2</dbtype>
  </project>
</projects>
</userauxfile>
```