

HRE – BACKUPS - OVERVIEW

Revision history

2019-03-06	Rod Thompson	Original draft
2019-03-06	Don Ferguson	Minor edits and clarifications throughout
2019-03-06	Rod Thompson	FILENAME Convention - amend

SCOPE

Creating backup files in computer systems is intended to provide additional security of data, and to provide a simple method to recover from data loss.

HRE BACKUPS

Specifications currently make provision for backups as follows:

- A backup of a 'Project' database can be initiated by a User from the Project Menu. This function is also offered as an option when use of a project is ending, and the Project Close menu option is selected
- The Project Auxiliary (AUX) file is a separate file that accompanies the Project database (providing access to a limited set of the data, without the need to open the Project). A backup of this file is made in conjunction with the backup of the Project database file
- A User Auxiliary (AUX) file may also be provided with a backup function. **To be confirmed.**
The process to initiate this backup is to be defined.

See also the documentation in *03.32 Overview - Auxiliary (Non-Database) Files*.

BACKUP LOCATION

Backup files are located as follows:

1. Project backup - as defined by the initiator of the backup function
2. Project AUX file – as for Project backup
3. User AUX file – on the user's computer, in a User specified location (with the folder location set and editable by the User via the App Settings module).

FILE FORMAT

It is proposed that 'zip' technology be used to create the backup data file(s).

FILENAME CONVENTION

The filename (or file name) is used to uniquely identify the file in the computer storage system.

It consists of a base name, and a file type extension.

For convenience in identification, the backup file will adopt the base name element of the file which it is backing up, plus an extension (unique to HRE) for convenience in searching.

In addition, the base name will be appended with the attachment of the date and time of the backup (in the form of Y-M-D-24H-M).

Base name examples:

Project Name	Drummond-UK
Filename	Drummond
Backup filename	Drummond 2019-03-06-15-49

Extensions:

Project database and inclusions	- *.HREP	(P for Project)
Project Auxiliary file	- *.HREA	(A for Project Auxiliary)
User Auxiliary file	- *.HREU	(U for User Auxiliary)

Client Auxiliary file	- *.HREC	(C for Client)
Server Auxiliary file	- *.HRES	(S for Server)

The latter two files are yet to be defined in a specification.

RESTORATION

The process of recovering from a data loss, using backup files is referred to as a Restore.

The Restore function in the HRE Project menu initiates a process to restore a 'Project' from the backup file, along with its associated Project AUX file.

The Restore process will NOT allow restoration of a Project to the original file-name in the original location, to avoid overwriting the original file.

Process to restore User Auxiliary files has yet to be defined.