

BR_Logging – Logging Services

Revision history

2017-07-04	Robin Lamacraft	Original draft
2018-06-16	Rod Thompson Don Ferguson	Revise REQUIRED SERVICES-Dependencies Removed old embedded database tables, replaced with DB Table references
2019-05-10	Don Ferguson	Reduce dependencies to 2 columns; add log format details, revise throughout.

SCOPE

This module is used to manage Log Records created by HRE. Log Records are created in an external logging file (filetype .hrel) and written in CSV format. Log Records are records of a sequence of actions and their outcomes, and should not be confused with Commit Log records, which are stored in the HRE database. NOTE: Logs are only created in the current Application Language.

ACTIONS

Depending on the Logging Settings, logs will be created. There are many types of log entries, such as:

- Importing – item traces
- Exporting – item traces
- HRE utility change actions, such as Project rename, backup, restore etc
- Error and Warning notifications
- Use of help and reminder features.

On a log enabling request the module will open the relevant log file.

On a log content management request for a particular type of logging, provide tools to:

- Truncate, Purge, Rename or Delete a log file
- Transfer a log to another module
- Analyse a log to provide usage statistics
- Provide certain types of log entries to assist in data recovery.

USED BY

Any modules that can create a logging request.

DATA CONTROLLED BY THIS MODULE

External HRE log files., recorded as an external text file in CSV format, with fields of the format:

Date; Time; Username; Project Name; Log entry

Note that for simplicity there is no distinction between types of log entries – the format of the last field will provide the distinction in log entry type.

REQUIRED SERVICES – Dependencies

First-Order Dependencies	Second-Order Dependencies
07.01 BR_EncodedString	NIL
07.02 BR_EntityLink	NIL
BR_FieldTranslation	
07.26 BR_Substitution	07.02 BR_EntityLink
	07.29 BR_Translation

APPLICATION PROGRAMMING INTERFACE (API)

1. Parameter defining the type of request (“Read”, “Write”, “Open”, “Manage”)

2. Parameter to define the action sub-type:
 - a. For a Read request, the sub-type may define a type of record, e.g. "Error" – only transfer Error records
 - b. For a Write request, the Log Entry to be written (this BR_Logging module will add the other required fields of Date, Time, etc)
 - c. For a Manage request, the sub-type will define the required management action.

WARNING CONDITIONS

1. Need details of the condition that raised the warning, example message and possible next steps.

ERROR CONDITIONS

1. Need to record the condition that raised the error, example message and possible next steps.