

## 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

### SCOPE

This module must be used to operate with Log Records created by HRE. Log Records come in several forms depending on their likely later use. They can be plain text files, encoded text files (e.g. JSON, XML, etc) or database tables. Log Records are records of a sequence of actions and their outcomes. NOTE: Logs are only created in the current Application Language.

### ACTIONS

Depending on the Project Logging Settings, logs will be created. There are many types of logs that will be supported:

- Importing – item by item trace
- Exporting – item by item trace
- Data Change Logging – per database commit action
- Utility Change Preview – Suggested change by change
- Global Error and Warning Messages – All error and warning notifications
- All uses of help and reminder features
- Keyboard navigation sequences.

On a log enabling request for a particular type of logging, enable listeners to monitor the appropriate action in modules.

On a log disabling request for a particular type of logging, disable listeners that were monitoring the appropriate action in modules.

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

- Truncate, Purge, Rename or Delete a log file or database table
- View, search, transform a log into another format
- Transmit a log to another location for analysis
- Use certain types of logs to provide usage statistics
- Use certain types of logs to assist in data recovery.

### USED BY

Any modules that can create errors or its operations are being monitored.

### DATA CONTROLLED BY THIS MODULE

Reference should be made to database table T\_129, 130.

NOTE: The actual log file is an external encoded text file. The choice of encoding determines the ease of which that log file can be used for particular purposes.

### REQUIRED SERVICES – Dependencies

First-Order Dependencies	Second-Order Dependencies	Higher-Order Dependencies
07.01 BR_EncodedString	NIL	
07.02 BR_EntityLink	NIL	

First-Order Dependencies	Second-Order Dependencies	Higher-Order Dependencies
BR_FieldTranslation		
07.26 BR_Substitution	07.02 BR_EntityLink	NIL
	07.29 BR_Translation	07.02 BR_EntityLink
		BR_Field
		07.06 BR_GuiElement
		07.16 BR_MessagePatterns

### APPLICATION PROGRAMMING INTERFACE (API)

1. To define the Logging type definitions
2. To select and edit a Logging request
3. To start a logging process to a nominated file or HRE table
4. To terminate a logging process
5. To view a log file or logging table.

### 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.