

# HRE SPECIFICATION DOCUMENTS GUIDE

## Revision history

|            |              |  |
|------------|--------------|--|
| 2017-11-04 | Don Ferguson | Updated for removal of original database schema docs (3.04-05) |
| 2018-04-01 | Don Ferguson | Updated for loading of full database documentation (3.04 +)    |
| 2018-05-20 | Don Ferguson | Added sections for GUI documentation at 03.50 onwards          |
| 2018-06-05 | Don Ferguson | Aligned with document changes in the 3.40-3.6x series          |
| 2018-06-16 | Don Ferguson | Updated to remove 4.03 ProjectRecent                           |
| 2018-07-24 | Don Ferguson | Updated to add 05.30 Viewpoints                                |
| 2018-07-31 | Don Ferguson | Adjust numbering, add 4.03 module                              |
| 2018-11-30 | Don Ferguson | Adjusted names of 08.01, 09.01 docs                            |
| 2019-01-26 | Don Ferguson | Adjusted file names/numbers in 03.xx section                   |
| 2019-03-11 | Don Ferguson | Adjusted file names/numbers to reflect move of some 03 to 05   |
| 2019-04-05 | Don Ferguson | Align with recent changes in module specifications             |

## NOTES:

- Modules marked in **red** have no Specification loaded to GitHub (as yet)
- Modules marked with “@” included for completeness, but they are not intended to be implemented before v0.4
- The second column in each section indicates the name of the file that details the specifications for coding (note that they still may be incomplete in details). At this time, this contains only files documenting elements of HRE up to v0.3.

## 1. GOALS

- 1.1. General )
- 1.2. Database )
- 1.3. User Interface ) (README.md)
- 1.4. Data Management )
- 1.5. Interoperability )
- 1.6. Implementation Stages (01.06 Implementation Stages)

## 2. IMPLEMENTER OBLIGATIONS

- 2.1. Intellectual Property Requirements )
- 2.2. Committing to a Task )
- 2.3. Eclipse Setup ) (see also Specification 02.03.xx)
- 2.4. Java Coding Standards )
- 2.5. Jython Coding Standards ) (CONTRIBUTING.md)
- 2.6. Source Documentation )
- 2.7. Feature Documentation )
- 2.8. Test Cases for Unit and Regression )
- 2.9. Submitting a Contribution )

## 3. HRE ARCHITECTURE

- 3.01 Architecture Overview (Architecture Overview)
- 3.02 HRE Client Architecture (Architecture Client)
- 3.03 Server Architecture (Architecture Server)
- 3.04 Client Server Scenarios (C/S Scenarios)

|         |                                     |  |
|---------|-------------------------------------|--|
| 3.05    | Database Schema introduction        | (Database Schema)                            |
| 3.06.00 | DDL file                            | (DDL Table List)                             |
| 3.06.xx | Database table documentation        | (xxx Table files)                            |
|         | (03.06-03.23 files)                 |  |
| 3.30.   | <b>Overview</b> documentation files | (Overview of HRE Features and how they work) |
|         | (03.30+ files)                      |  |
| 3.50.   | <b>GUI</b> documentation files      | (GUI Introduction Guide and GUI xxx files)   |
|         | (03.50+ files)                      |  |

### 3. CLIENT - PRESENTATION (GUI) LAYER

|       |                  |                        |
|-------|------------------|------------------------|
| 4.1.  | MAIN MENU        | (GUI_UserInterface)    |
| 4.2.  | Project Open     | (GUI_ProjectOpen)      |
| 4.3.  | Project Admin    | (GUI_ProjectAdmin)     |
| 4.4.  | Project New      | (GUI_ProjectNew)       |
| 4.5.  | Project Backup   | (GUI_ProjectBackup)    |
| 4.6.  | Project Restore  | (GUI_ProjectRestore)   |
| 4.7.  | Project Close    | (GUI_ProjectClose)     |
| 4.8.  | Project Copy As  | (GUI_ProjectCopyAs)    |
| 4.9.  | Project Rename   | (GUI_ProjectRename)    |
| 4.10. | Project Delete   | (GUI_ProjectDelete)    |
| 4.11. | Import from TMG  | (GUI_ProjectImportTMG) |
| 4.12. | Project Export @ | (GUI_ProjectExport)    |
| 4.13. |                  |                        |
| 4.14. | Project Summary  | (GUI_ProjectSummary)   |

### 5. CLIENT COMMON (GUI) MODULES (Core GUI modules)

|       |                        |                            |
|-------|------------------------|----------------------------|
| 5.1.  | App Setting            | (GUI_AppSetting)           |
| 5.2.  | Encoded String Edit    | (GUI_EncodedStringEdit)    |
| 5.3.  | Encoded String Delete  | (GUI_EncodedStringDelete)  |
| 5.4.  | Encoded String Select  | (GUI_EncodedStringSelect)  |
| 5.5.  | Entity Delete          | (GUI_EntityDelete)         |
| 5.6.  | Entity Edit            | (GUI_EntityEdit)           |
| 5.7.  | Entity Select          | (GUI_EntitySelect)         |
| 5.8.  | Field Definition Edit  | (GUI_FieldDefinitionEdit)  |
| 5.9.  | Field Translation Edit | (GUI_FieldTranslationEdit) |
| 5.10. | Flag Definition Delete | (GUI_FlagDefnDelete)       |
| 5.11. | Flag Definition Edit   | (GUI_FlagDefnEdit)         |
| 5.12. | Flag Definition Select | (GUI_FlagDefnSelect)       |
| 5.13. | Flag Select Edit       | (GUI_FlagSelectEdit)       |
| 5.14. | Help                   | (GUI_Help)                 |
| 5.15. | Historical Date        | (GUI_HistoricalDate)       |
| 5.16. | Historical Interval    | (GUI_HistoricalInterval)   |
| 5.17. | Link Delete            | (GUI_LinkDelete)           |
| 5.18. | Link Edit              | (GUI_LinkEdit)             |
| 5.19. | Link Select            | (GUI_LinkSelect)           |
| 5.20. | Logging                | (GUI_Logging)              |
| 5.21. | Macro                  | (GUI_Macro)                |
| 5.22. | Name Edit              | (GUI_NameEdit)             |
| 5.23. | Name Style Delete      | (GUI_NameStyleDelete)      |

|                                   |                           |
|-----------------------------------|---------------------------|
| 5.24. Name Style Edit             | (GUI_NameStyleEdit)       |
| 5.25. Name Style Select           | (GUI_NameStyleSelect)     |
| 5.26. Notepad Definition Delete   | (GUI_NotepadDefnDelete)   |
| 5.27. Notepad Definition Edit     | (GUI_NotepadDefnEdit)     |
| 5.28. Notepad Definition Select   | (GUI_NotepadDefnSelect)   |
| 5.29. Notepad Select Edit         | (GUI_NotepadSelectEdit)   |
| 5.30. Viewpoints                  | (GUI_Viewpoint)           |
| 5.31. Output                      | (GUI_Output)              |
| 5.32.                             |                           |
| 5.33. Pattern Definition Detail   | (GUI_PatternDefnDetail)   |
| 5.34. Pattern Definition Delete   | (GUI_PatternDefnDelete)   |
| 5.35. Pattern Definition Edit     | (GUI_PatternDefnEdit)     |
| 5.36. Pattern Definition Select   | (GUI_PatternDefnSelect)   |
| 5.37. Pattern Definition Validate | (GUI_PatternDefnValidate) |
| 5.38. Project Setting             | (GUI_ProjectSetting)      |
| 5.39. Recent Visit                | (GUI_RecentVisit)         |
| 5.40. Reminder                    | (GUI_Reminder)            |
| 5.41. Substitution Delete         | (GUI_SubstitutionDelete)  |
| 5.42. Substitution Edit           | (GUI_SubstitutionEdit)    |
| 5.43. Substitution Select         | (GUI_SubstitutionSelect)  |
| 5.44. Summary                     | (GUI_Summary)             |
| 5.45. Tag Definition Detail       | (GUI_TagDefnDetail)       |
| 5.46. Tag Definition Delete       | (GUI_TagDefnDelete)       |
| 5.47. Tag Definition Edit         | (GUI_TagDefnEdit)         |
| 5.48. Tag Definition Select       | (GUI_TagDefnSelect)       |
| 5.49. Tag Definition Validate     | (GUI_TagDefnValidate)     |
| 5.50. Tag Delete                  | (GUI_TagDelete)           |
| 5.51. Tag Edit                    | (GUI_TagEdit)             |
| 5.52. Tag Select                  | (GUI_TagSelect)           |
| 5.53. Template Edit               | (GUI_TemplateEdit)        |
| 5.54. Definition Export           | (GUI_DefnExport)          |
| 5.55. Definition Import           | (GUI_DefnImport)          |
| 5.56. Accent Select               | (GUI_AccentSelect)        |
| 5.57. Accent Add                  | (GUI_AccentAdd)           |
| 5.58. Accent Edit                 | (GUI_AccentEdit)          |
| 5.59. Accent Link                 | (GUI_AccentLink)          |
| 5.60. Accent Delete               | (GUI_AccentDelete)        |
| 5.61. Associate Select            | (GUI_AssociateSelect)     |
| 5.62. Add Associate               | (GUI_AssociateEdit)       |
| 5.63. Edit Associate              | (GUI_AssociateEdit)       |
| 5.64. Grammar Hint Delete         | (GUI_GrammarHintDelete)   |
| 5.65. Grammar Hint Edit           | (GUI_GrammarHintEdit)     |
| 5.66. Grammar Hint Select         | (GUI_GrammarHintSelect)   |
| 5.67. Input Completion            | (GUI_InputCompletion)     |
| 5.68. Tag Role Definition Edit    | (GUI_TagRoleEdit)         |
| 5.69. Tag Role Definition Select  | (GUI_TagRoleSelect)       |
| 5.70. Grammar Rule Delete @       | (GUI_GrammarDelete)       |
| 5.71. Grammar Rule Edit @         | (GUI_GrammarEdit)         |
| 5.72. Grammar Rule Select @       | (GUI_GrammarSelect)       |
| 5.73. Search @                    | (GUI_Search)              |
| 5.74. Subset @                    | (GUI_Subset)              |

|                               |                                   |
|-------------------------------|-----------------------------------|
| 5.75. Server Login            | (GUI_ServerLogin)                 |
| 5.76. Project selector        | (GUI_ProjectSelector)             |
| 5.77. File chooser            | (GUI_FileChooser)                 |
| 5.78.                         |                                   |
| 5.79.                         |                                   |
| 5.80. Multi-column lists      | (GUI_Multi Column List Patterns)  |
| 5.81. Configure columns       | (GUI_Configure Columns)           |
| 5.82. Configure focus         | (GUI_Configure Focus)             |
| 5.83. Configure Output        | (GUI_Configure Output)            |
| 5.84. Configure rows          | (GUI_Configure Rows)              |
| 5.85. Configure size/location | (GUI_Configure Size and Location) |
| 5.86. Message editor          | (GUI_Message Editor)              |
| 5.87. Message patterns        | (GUI_Message Patterns)            |
| 5.88. Select configurations   | (GUI_Select Configuration)        |
| 5.89. Select recent value     | (GUI_Select Recent Value).        |

## 6. CLIENT GUI TOOLS (GUI) MODULES

|                                   |                          |
|-----------------------------------|--------------------------|
| 6.1. Application Language Select  | (GUI_AppLanguageSelect)  |
| 6.2. Application Language Add     | (GUI_AppLanguageAdd)     |
| 6.3. Application Language Edit    | (GUI_AppLanguageEdit)    |
| 6.4. Application Language Delete  | (GUI_AppLanguageDelete)  |
| 6.5. User Language Select         | (GUI_UserLanguageSelect) |
| 6.6. User Language Add            | (GUI_UserLanguageAdd)    |
| 6.7. User Language Edit           | (GUI_UserLanguageEdit)   |
| 6.8. User Language Delete         | (GUI_UserLanguageDelete) |
| 6.9. Application Language Export  | (GUI_AppLanguageExport)  |
| 6.10. Application Language Import | (GUI_AppLanguageImport)  |

## 7. CLIENT BUSINESS RULE (BR) MODULES (Core services)

|                       |                      |
|-----------------------|----------------------|
| 7.1. Encoded String   | (BR_Encodedstring)   |
| 7.2. Entity Link      | (BR_Entitylink)      |
| 7.3. Field Definition | (BR_Fielddefinition) |
| 7.4. Files            | (BR_Files)           |
| 7.5. Flag             | (BR_Flag)            |
| 7.6. GUI Element      | (BR_Guielement)      |
| 7.7. Help             | (BR_Help)            |
| 7.8. Historical Date  | (BR_Historicaldate)  |
| 7.9. Keyboard         | (BR_Keyboard)        |
| 7.10. Location        | (BR_Location)        |
| 7.11. Logging         | (BR_Logging)         |
| 7.12. Menu            | (BR_Menu)            |
| 7.13. Monitor         | (BR_Monitor)         |
| 7.14. Name Style      | (BR_Namestyle)       |
| 7.15. Notepad         | (BR_Notepad)         |
| 7.16. Notification    | (BR_Notification)    |
| 7.17. Window Config   | (BR_WindowConfig)    |
| 7.18. Pattern         | (BR_Pattern)         |
| 7.19. Pointer         | (BR_Pointer)         |
| 7.20. Printer Config  | (BR_PrinterConfig)   |
| 7.21. Project         | (BR_Project)         |
| 7.22. Recent Use      | (BR_Recentuse)       |

|                          |                      |
|--------------------------|----------------------|
| 7.23. Reminder           | (BR_Reminder)        |
| 7.24. Setting            | (BR_Setting)         |
| 7.25. Schema             | (BR_Schema)          |
| 7.26. Substitution       | (BR_Substitution)    |
| 7.27. Tag                | (BR_Tag)             |
| 7.28. User               | (BR_User)            |
| 7.29. Translation        | (BR_Translation)     |
| 7.30. Viewpoint          | (BR_Viewpoint)       |
| 7.31. Accents            | (BR_Accent)          |
| 7.32. Person             | (BR_Person)          |
| 7.33. Import             | (BR_Import)          |
| 7.34. Event Task         | (BR_Eventtask)       |
| 7.35. Occasion Select    | (BR_Occasion)        |
| 7.36. Grammar @          | (BR_Grammar)         |
| 7.37. Macro @            | (BR_Macro)           |
| 7.38. Input Completion @ | (BR_Inputcompletion) |
| 7.39. Sentence @         | (BR_Sentence)        |
| 7.40. Repository @       | (BR_Repository)      |
| 7.41. Source @           | (BR_Source)          |
| 7.42. Spatial @          | (BR_Spatial)         |
| 7.43. Server Services    | (BR_ServerServices)  |
| 7.44. User AUX           | (BR_UserAUX)         |
| 7.45. Project AUX        | (BR_ProjectAUX)      |
| 7.46.                    |                      |
| 7.47.                    |                      |
| 7.48. Validation         | (BR_Validation).     |

## 8. CLIENT/SERVER COMMUNICATIONS (CC)

|                                   |                                 |
|-----------------------------------|---------------------------------|
| 8.1. Client/Server Communications | (CC_ClientServerCommunications) |
|-----------------------------------|---------------------------------|

## 9. SERVER REQUEST (CC) MODULES

|                               |                             |
|-------------------------------|-----------------------------|
| 9.1. Remote Server Connection | (CC_RemoteServerConnection) |
| 9.2. Local Server Connection  | (CC_LocalServerConnection)  |
| 9.3. Server User Requests     | (CC_UserServerRequest)      |
| 9.4. Server Admin Requests    | (CC_AdminServerRequest)     |

## 10. SERVER SERVICE (SS) LAYER MODULES

|                            |                          |
|----------------------------|--------------------------|
| 10.1. Database Maintenance | (SS_DatabaseMaintenance) |
| 10.2. Direct Request       | (SS_DirectRequest)       |

## 11. SERVER DATABASE ABSTRACTION (DBA) LAYER MODULES

|                                 |                         |
|---------------------------------|-------------------------|
| 11.1. Database Validate Request | (DBA_Validate_Request)  |
| 11.2. Database Map Request      | (DBA_MapRequest)        |
| 11.3. Database Transaction      | (DBA_ManageTransaction) |

## 12. SERVER DATABASE ENGINE (DBE) LAYER MODULES

|                                |                              |
|--------------------------------|------------------------------|
| 12.1. Perform Database Request | (DBE_PerformDatabaseRequest) |
|--------------------------------|------------------------------|

## 13. SERVER HEAD (SH) LAYER MODULES

|                       |                     |
|-----------------------|---------------------|
| 13.1. Server Listener | (SH_ServerListener) |
|-----------------------|---------------------|

