CFIHOS (JIP36)

**V2 Release Notes**

**November 2024**

# Notes for use

## Deprecated Objects

|  |  |  |
| --- | --- | --- |
| # | Object Type | Object Name |
| 1 | View | tag class required discipline document type |

## General Use Notes

| # | CFIHOS V2 Use Note |
| --- | --- |
| 1 | For those familiar with the RDL format from the v1.5.1 release in October 2022, you will recall the color-coded slide deck for the data model; Blue-background entities appeared as individual CSV files in the RDL, with their descriptions in the data dictionary.  The model's complex structure means not everyone needs to understand all its relationships.  Over time, the slide deck has evolved with new features and methods, leading to the discontinuation of some content and the addition of references explaining provenance.  This has made the product appear daunting to some users.  In the 2024 release of CFIHOS (v2.0), we've adopted a new approach to deliver key specification elements in more user-friendly formats. Responding to user feedback, the RDL will now be presented in two formats:   1. **EXTENDED RDL:** This format provides raw data in normalized tables, representing the blue boxes from the data model slide deck. For example, a table for Properties includes metadata, status, and history, but no additional information. Users need to build models from relevant tables to see relationships. This format, though potentially cluttered with historical data, is ideal for members who wish to develop entity relationships from scratch, such as software developers. 2. **CORE RDL:** Designed for ease of use, this format offers pre-designed views focused on essential CFIHOS elements. It includes tables and views ready for immediate use, excluding legacy material and historical data to avoid clutter. This format simplifies access to everyday elements of CFIHOS and is suitable for new users.   Both formats can be used by all users, catering to different needs within the same organisation.  The EXTENDED RDL includes newer concepts still in early implementation stages, while the CORE RDL provides practical, ready-to-use views.  Accompanying the RDL formats are:   * Indexes of CSV files * Clear indications of combined entity tables in CORE RDL. * Entity relationship diagrams and SQL defining CORE RDL views.   This new structure aims to make CFIHOS more accessible while preserving the integrity and extensive effort behind its development.  We welcome feedback on any issues via [responses@jip36-cfihos.org](mailto:responses@jip36-cfihos.org).  This approach ensures CFIHOS is user-friendly and practical, meeting diverse user needs effectively. |
| 2 | **V2.0 only covers the CORE RDL**  The EXTENDED RDL and accompanying documentation will be available as v2.1, the release date for v2.1 will be confirmed shortly after the v2.0 release. |
| 3 | CORE RDL excel format now follows the data dictionary colour scheme, blue tabs for RDL tables, and purple for views. |
| 4 | CORE RDL does not include the creation, modified or termination date.  CORE RDL does not include Terminated objects (therefore only objects with the status STANDARD are included)  CORE RDL does not include change number details |
| 5 | The entity tag or equipment class required discipline document type has been terminated and no longer appears in the CORE RDL.  The **tag class required discipline document type** csv has been removed completely. |
| 6 | Data Dictionary Entity Attribute name and description can be different from the master when used by certain entity attribute combinations.   * For example, entity attribute data type code (CFIHOS-10000171) has description ‘An indication what are the type of values a data element can take. * However, when this attribute is used in the Property entity the attribute name is ‘property data type’ and the description is ‘An indication what are the type of values of the property can take’ |
| 7 | Using the CSV files. All Files are formatted as follows:   * Comma Separated Values (CSV)\* * UTF-8 * """ = Text Qualifier     If opening in Excel (relevant to both the desktop app and the online version via SharePoint), Excel automated format conversions can alter data in the csv files – e.g., drop leading zeros. We recommend you export these files and then view them by importing them into Excel (or any other viewing tool) using the above settings to avoid any mishandling of characters. |
| 8 | Metadata against terminated items does not get updated if there are any changes to the related object, with details indicated in the Extended V2.1 release  For example, if a terminated property references a picklist called ‘picklist X’ and the name of the picklist changes to ‘picklist Y’ in subsequent RDL updates the terminated property will still refer to ‘picklist X. When any name changes are made, we will put the old name in the Synonym column to assist with legacy users |
| 9 | RDL Master Objects file.   * Entity Attributes and Properties. There are 32 properties (CFIHOS-1xxx series) that were terminated from the properties output file as they were not related to class property requirements. These properties are now defined in the Entity Attribute file maintaining their original CFIHOS ID. As the RDL Master object file can only have 1 instance of a CFIHOS object only the Entity Attribute version of these attributes is displayed. They are also visible in the property output file as terminated. * Property Picklist Values and Units of Measure. Units of measure were extracted from the property picklist values and created as an entity of their own, but we maintained their original CFIHOS ID. Similar to the above, within the RDL Master objects file they are displayed once only as Units of Measure however in the individual output files they are also shown in the property picklist value file as terminated. |
| 10 | In V2 there are several FRs that make updates to align to JIP33 standards. To aid implementation, these FRs were combined into one submission. For changes that were applicable to all the JIP33 FRs or changes that were added after the combination of the JIP33 FRs, the change request number is updated with ALL of the FR numbers (i.e., FR83;FR84;FR85;FR94;FR108;FR109), with details indicated in the Extended V2.1 release. |
| 11 | For new entries within the tag class document and data requirement csv, the optional Discipline Code has not been populated due to the anticipated removal of Discipline Code from tag class document and data requirement csv in a future release. |
| 12 | Changes made as a result of feedback submitted against the RC V2.0 are captured in FR189, with details indicated in the Extended V2.1 release |
| 13 | Asset Type Reference values have been updated in the DISCIPLINE DOCUMENT TYPE entity and are now also included in the Documents Required by Class view.  The Asset Type Reference is the CFIHOS recommendation for which Asset Level document references should be collected at. It is indicative and may be applied by the user against tag or equipment classes even where it is suggested to be applied against a different asset type, e.g. process\_unit or plant. It may be used to distinguish where the associated document represents functional tags or physical equipment.    The “required document status…“ columns shown in the Discipline Document Type view are sourced from the DISCIPLINE DOCUMENT TYPE HANDOVER EQUIPMENT entity in conjunction with the HANDOVER EVENT and DOCUMENT STATUS entities. These columns therefore do not appear in the data dictionary under the DISCIPLINE DOCUMENT TYPE entity. |
| 14 | **Specification Document**  Content of this narrative document has been updated after extensive review and alignment to other elements of CFIHOS.  V2.0 of the Specification Document has been reconfigured compared to previous versions, such that individual clauses including requirements, recommendations, and informative texts have been given a unique identifier:  CFIHOS-SPTR-# specification document technical requirements, recommendations, and informative texts.  CFIHOS-NR-# normative references  CFIHOS-DEF-# (terms and) definitions  CFIHOS-AAS-# abbreviated terms  CFIHOS-BIB-# bibliography entries |

## Updates Made in V2 to Correct Issues from V1.5.1

| # | CFIHOS V2 Use Note |
| --- | --- |
| 1 | None |

# Known Issues

## V2 Known Issues

| # | CFIHOS V2 Known Issue |
| --- | --- |
| 1 | RDL: Mixed casing. There are several values across objects that are the same value, but are mixed cases, e.g., lower case, proper case, title case. These will be corrected post V2. |
| 2 | Data Model: Slide 6, 7 & 8 shows the relationships between SITE – INDUSTRIAL COMPLEX – PLANT. We know that the diagrams currently show the relationship verb for the wrong direction (i.e. from child to parent). The correct verb should be “includes”. This is correct in the Data Dictionary and RDL but needs to be fixed in the Data Model. |

# Feature Requests (FRs) included in v2.0

The EXTENDED version, V2,1, will indicate where the following FRs have been applied

| Name | Feature Request Type | CFIHOS Standard section | RDL Element | Total No of Objects | Total No New | Total No Term | Total No Edited | Release Note |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| FR28 - 'Rule of Thumb' Document Type to Equipment Class Reference | Change to existing | RDL - Data,  RDL - Documents | RDL master object | 1004 | 997 | 7 | 0 | This update provides generic document classification (not technical content specification) against equipment classes not covered by JIP33. This identifies the general document types required for handover.  **NOTE: This update terminates the object 'Tag Class Required Discipline Document Type'. All entries from this table are now captured in the object 'Source Standard document and data requirements'.** |
| entity | 2 | 0 | 2 | 0 |
| entity attribute | 5 | 0 | 5 | 0 |
| entity attribute relationship | 13 | 0 | 8 | 5 |
| source standard document and data requirement | 995 | 995 | 0 | 0 |
| source standard | 2 | 2 | 0 | 0 |
| tag class required discipline document type | 532 | 0 | 532 | 0 |
| tag or equipment class source standard | 307 | 307 | 0 | 0 |
| FR47 - ISO 14224 Enrichment of CFIHOS | Change to existing | RDL - Data | CFIHOS object equivalent mapping | 234 | 234 | 0 | 0 | ISO 14224:2016 has been mapped to CFIHOS Tag and Equipment Classes.  This update will save on implementation cost arising from creating their own mapping to ISO 14224:2016. |
| FR80 - Missing or incomplete descriptions for Property Picklist Values | Backlog Team Pre-Approved | Data Model,  RDL - Data | RDL master object | 584 | 377 | 1 | 206 | This update enhances Property Picklist Values by adding descriptions to the Property Picklist Values. |
| property picklist value | 543 | 336 | 1 | 206 |
| source standard | 41 | 41 | 0 | 0 |
| FR96 - Additional Classes and Properties for Owner Operator Usage | New Scope/Feature | RDL - Data | CFIHOS object equivalent mapping | 68 | 68 | 0 | 0 | This update adds additional RDL elements, which are required by International source standards (but not covered in ISO 14224:2016), to support Maintenance and Operation activities.  This will improve the alignment with existing ISO standards. |
| RDL master object | 266 | 257 | 0 | 9 |
| equipment class | 30 | 26 | 0 | 4 |
| equipment class property | 1 | 0 | 0 | 1 |
| property | 34 | 33 | 0 | 1 |
| property picklist | 19 | 19 | 0 | 0 |
| property picklist value | 93 | 92 | 0 | 1 |
| source standard document and data requirement | 55 | 55 | 0 | 0 |
| source standard | 35 | 32 | 0 | 3 |
| tag class required discipline document type | 55 | 0 | 0 | 55 |
| tag class equipment class relationship | 26 | 26 | 0 | 0 |
| tag class | 30 | 26 | 0 | 4 |
| tag or equipment class source standard | 26 | 26 | 0 | 0 |
| FR98 - Energistics UOM Upgrade | Change to existing | RDL - Data | RDL master object | 1571 | 1528 | 4 | 39 | The unit of measure and unit of measure dimensions have been aligned with Version 1.0 of the Energistics Unit of Measure Dictionary, this includes removing superscripts and special characters, and renaming existing unit of measures and dimensions, as well as adding new units of measure.  Energistics Unit of Measure Dictionary includes many other units used in various different fields, which are not relevant to the oil & gas industry and have therefore not been included.  The entity attribute UNECE code (previously Unit of measure code) has been replaced with unit of measure name, within the entity attribute relationship object to improve clarity.  The entity attributes SI unit of measure code and Imperial unit of measure code have been replaced with SI unit of measure name and Imperial unit of measure name within the entity attribute relation object to improve clarity. |
| entity attribute | 5 | 0 | 0 | 5 |
| entity attribute relationship | 30 | 11 | 11 | 8 |
| equipment class property | 541 | 0 | 0 | 541 |
| tag class property | 876 | 0 | 0 | 876 |
| unit of measure | 1422 | 1385 | 4 | 33 |
| unit of measure dimension | 144 | 143 | 0 | 1 |
| FR100 - Optional RDL attributes/documents to track GHG emissions | New Scope/Feature | RDL - Data,  RDL - Documents,  Data Model | discipline document type | 2 | 2 | 0 | 0 | This update introduces a small number of properties, picklists, units of measure, and document types to allow users to calculate project GHG emissions.   The changes are in alignment with the following standards: GHG Protocol Product Life Cycle Accounting and Reporting Standard  ISO14067:2018 Greenhouse gases – Carbon footprint of products – Requirements and guidelines for quantification  ISO 14025:2006 Environmental labels and declarations — Type III environmental declarations — Principles and procedures  CSN EN 15804+A2 Sustainability of construction works - Environmental product declarations - Core rules for the product category of construction products |
| document type | 2 | 2 | 0 | 0 |
| RDL master object | 31 | 27 | 0 | 4 |
| property | 6 | 6 | 0 | 0 |
| property picklist | 2 | 2 | 0 | 0 |
| property picklist value | 11 | 11 | 0 | 0 |
| source standard | 3 | 3 | 0 | 0 |
| unit of measure | 4 | 0 | 0 | 4 |
| unit of measure dimension | 1 | 1 | 0 | 0 |
| FR107 - Property Association to Tag and Equipment Class | Backlog Team Pre-Approved | RDL - Data | RDL master object | 3 | 3 | 0 | 0 | This update adds additional Tag and Equipment Class property mappings, based on owner operator usage. |
| equipment class property | 49 | 42 | 0 | 7 |
| property | 3 | 3 | 0 | 0 |
| tag class property | 22 | 19 | 0 | 3 |
| FR121 - Additional Document Type Synonyms | Change to existing | RDL - Documents | document type | 30 | 0 | 0 | 30 | 30 document types have had synonyms and or descriptions added/updated. |
| RDL master object | 30 | 0 | 0 | 30 |
| FR179 - Align CFIHOS Discipline Document Types with JIP33 (Extension to FR16) | Backlog Team Pre-Approved | RDL - Documents | discipline document type | 75 | 71 | 0 | 4 | This update adds/edits document types and discipline document types to align to JIP33 requirements. |
| document type | 26 | 22 | 0 | 4 |
| RDL master object | 101 | 93 | 0 | 8 |
| FR180 - Changes to Representation Type in Discipline Document Type table | Bug Fix | RDL - Documents | discipline document type | 86 | 0 | 0 | 86 | This updates the representation type against 86 discipline document types, which were considered not correct in v1.5.1. |
| RDL master object | 86 | 0 | 0 | 86 |
| FR181 - Amend RDL Content (CSV/XLS) Table/Tab Output Names to Align With Data Dictionary | Bug Fix | RDL - Data | no data changes tag class properties (now tag class property) equipment class properties (now equipment class property) | | | | | This update amends the CSV and Excel tab names for tag class properties and equipment class properties, to tag class property and equipment class property respectively. | |
| FR20 - Tag or equipment class composition | New Scope/Feature | RDL - Data,  Data Model | RDL master object | 24 | 22 | 0 | 2 | This update is a data model change only, aiming at introducing new RDL objects to capture the decomposition of tag or equipment classes, with the purpose of these decompositions, and a categorisation of RDL list of values covering the aspect types or purpose. |
| entity | 8 | 8 | 0 | 0 |
| entity attribute | 16 | 14 | 0 | 2 |
| entity attribute relationship | 40 | 40 | 0 | 0 |
| FR57 - Property groupings | Change to existing | Data Model,  RDL - Data | RDL master object | 22 | 0 | 0 | 22 | This update provides a capability to group properties, based on the groups defined in different source standards or based on specific grouping purposes. |
| entity | 7 | 0 | 0 | 7 |
| entity attribute | 15 | 0 | 0 | 15 |
| entity attribute relationship | 37 | 0 | 0 | 37 |
| FR70 - Addition of Tag Model Relationship | New Scope/Feature | Data Model,  RDL - Data,  Narrative Documents & Supporting Templates | RDL master object | 1 | 1 | 0 | 0 | This update adds two new relationships between the Tag and Model Part objects.  The first relationship provides a one-to-many link between tags and models that meet the function defined by the tag. They represent the list of models to be selected by procurement, and a list of models that can be used for replacements during the asset lifecycle.  The second relationship provides a one-to-one link between the tag and the actual model purchased to fit the function of the tag. This link provides visibility of what has been purchased before installed. |
| entity | 1 | 1 | 0 | 0 |
| entity attribute relationship | 6 | 6 | 0 | 0 |
| FR73 - Spare parts | New Scope/Feature | Data Model | RDL master object | 41 | 41 | 0 | 0 | This update defines the data necessary to be exchanged between Owner Operators, EPCs and Equipment Manufacturers and Vendors in the Energy Industry to achieve four goals: • know the right spare part; • in the right quantity; • at the right time; • at the right place. |
| entity | 11 | 11 | 0 | 0 |
| entity attribute | 22 | 22 | 0 | 0 |
| entity attribute relationship | 85 | 85 | 0 | 0 |
| property picklist | 1 | 1 | 0 | 0 |
| property picklist value | 6 | 6 | 0 | 0 |
| source standard | 1 | 1 | 0 | 0 |
| FR83 - JIP33 Alignment: S-703 Low Voltage Motors to IEC | Backlog Team Pre-Approved | RDL - Data | application condition | 3 | 0 | 0 | 3 | This update aligns and updates the RDL with JIP33 S-703 Low Voltage Motors to IEC Specification. |
| RDL master object | 2798 | 2530 | 129 | 139 |
| equipment class property | 253 | 243 | 0 | 10 |
| property | 663 | 663 | 0 | 0 |
| property picklist | 194 | 191 | 3 | 0 |
| property picklist value | 965 | 839 | 126 | 0 |
| property group | 251 | 251 | 0 | 0 |
| property group allowed for purpose | 251 | 251 | 0 | 0 |
| property grouping or decomposition purpose | 1 | 1 | 0 | 0 |
| property to group assignment | 1116 | 1116 | 0 | 0 |
| source standard document and data requirement | 406 | 272 | 0 | 134 |
| source standard | 64 | 62 | 0 | 2 |
| tag class property | 660 | 647 | 0 | 13 |
| tag or equipment class source standard | 10 | 1 | 0 | 9 |
| tag or equipment class property source standard | 1152 | 1152 | 0 | 0 |
| FR84 - JIP33 Alignment: S-560 LV Switchgear & Control Gear to IEC | Backlog Team Pre-Approved | RDL - Data,  RDL - Documents | application condition | 5 | 2 | 0 | 3 | This update aligns and updates the RDL with JIP33 S-560 LV Switchgear & Control Gear to IEC. Scope includes both IRS and Procurement Data Sheet. |
| RDL master object | 1654 | 15 | 0 | 1639 |
| equipment class property | 253 | 0 | 0 | 253 |
| property | 663 | 0 | 0 | 663 |
| property group | 251 | 0 | 0 | 251 |
| property group allowed for purpose | 251 | 0 | 0 | 251 |
| property grouping or decomposition purpose | 1 | 0 | 0 | 1 |
| property to group assignment | 1116 | 0 | 0 | 1116 |
| source standard document and data requirement | 406 | 0 | 0 | 406 |
| source standard document and data requirement condition | 13 | 13 | 0 | 0 |
| source standard | 64 | 0 | 0 | 64 |
| tag class property | 660 | 0 | 0 | 660 |
| tag or equipment class source standard | 10 | 0 | 0 | 10 |
| tag or equipment class property source standard | 1152 | 0 | 0 | 1152 |
| FR85 - JIP33 Alignment: S-620 HV Switchgear & Control Gear to IEC | Backlog Team Pre-Approved | RDL - Data,  RDL - Documents | application condition | 1 | 1 | 0 | 0 | This update aligns and updates the RDL with JIP33 S-620 HV Switchgear & Control Gear to IEC. Scope includes both IRS and Procurement Data Sheet. |
| RDL master object | 14 | 14 | 0 | 0 |
| source standard document and data requirement condition | 13 | 13 | 0 | 0 |
| FR86 - JIP33 Alignment: S-562 Ball valves | Backlog Team Pre-Approved | RDL - Data,  RDL - Documents | application condition | 3 | 0 | 0 | 3 | This update aligns and updates the RDL with JIP33 S-562 Ball valves. Scope includes both IRS and Procurement Data Sheet. |
| RDL master object | 1639 | 0 | 0 | 1639 |
| equipment class property | 253 | 0 | 0 | 253 |
| property | 663 | 0 | 0 | 663 |
| property group | 251 | 0 | 0 | 251 |
| property group allowed for purpose | 251 | 0 | 0 | 251 |
| property grouping or decomposition purpose | 1 | 0 | 0 | 1 |
| property to group assignment | 1116 | 0 | 0 | 1116 |
| source standard document and data requirement | 406 | 0 | 0 | 406 |
| source standard | 64 | 0 | 0 | 64 |
| tag class property | 660 | 0 | 0 | 660 |
| tag or equipment class source standard | 10 | 0 | 0 | 10 |
| tag or equipment class property source standard | 1152 | 0 | 0 | 1152 |
| FR91 - Extension of the Plant Breakdown Structure – Industrial Complex | New Scope/Feature | Data Model,  Narrative Documents & Supporting Templates | RDL master object | 4 | 4 | 0 | 0 | The update adds an optional level into the Plant Breakdown Structure (PBS), called industrial complex: site-> industrial complex-> plant-> process unit. This is to accommodate the fact that large (onshore) sites may comprise so many plants that it is useful to cluster them in groups. |
| entity | 1 | 1 | 0 | 0 |
| entity attribute | 3 | 3 | 0 | 0 |
| entity attribute relationship | 4 | 4 | 0 | 0 |
| FR94 - JIP33 Alignment: S-615 Pumps – Centrifugal to API Std 610 | Backlog Team Pre-Approved | RDL - Data,  RDL - Documents | application condition | 9 | 6 | 0 | 3 | This update aligns and updates the RDL with JIP33 S-615 Pumps – Centrifugal to API Std 610. Scope includes both IRS and Procurement Data Sheet. |
| RDL master object | 1703 | 64 | 0 | 1639 |
| equipment class property | 253 | 0 | 0 | 253 |
| property | 663 | 0 | 0 | 663 |
| property group | 251 | 0 | 0 | 251 |
| property group allowed for purpose | 251 | 0 | 0 | 251 |
| property grouping or decomposition purpose | 1 | 0 | 0 | 1 |
| property to group assignment | 1116 | 0 | 0 | 1116 |
| source standard document and data requirement | 406 | 0 | 0 | 406 |
| source standard document and data requirement condition | 58 | 58 | 0 | 0 |
| source standard | 64 | 0 | 0 | 64 |
| tag class property | 660 | 0 | 0 | 660 |
| tag or equipment class source standard | 10 | 0 | 0 | 10 |
| tag or equipment class property source standard | 1152 | 0 | 0 | 1152 |
| FR108 - JIP33 Alignment: S-704 High Voltage Three Phase Cage Induction Motors (IEC 60034-1) | Backlog Team Pre-Approved | RDL - Data,  RDL - Documents | application condition | 7 | 4 | 0 | 3 | This update aligns and updates the RDL with JIP33 S-704 High Voltage Three Phase Cage Induction Motors (IEC 60034-1). Scope includes both IRS and Procurement Data Sheet. |
| RDL master object | 1659 | 20 | 0 | 1639 |
| equipment class property | 253 | 0 | 0 | 253 |
| property | 663 | 0 | 0 | 663 |
| property group | 251 | 0 | 0 | 251 |
| property group allowed for purpose | 251 | 0 | 0 | 251 |
| property grouping or decomposition purpose | 1 | 0 | 0 | 1 |
| property to group assignment | 1116 | 0 | 0 | 1116 |
| source standard document and data requirement | 406 | 0 | 0 | 406 |
| source standard document and data requirement condition | 16 | 16 | 0 | 0 |
| source standard | 64 | 0 | 0 | 64 |
| tag class property | 660 | 0 | 0 | 660 |
| tag or equipment class source standard | 10 | 0 | 0 | 10 |
| tag or equipment class property source standard | 1152 | 0 | 0 | 1152 |
| FR109 - JIP33 Alignment: S-733 Low Voltage Motors (IEEE Std 841) | Backlog Team Pre-Approved | RDL - Data,  RDL - Documents | application condition | 3 | 0 | 0 | 3 | This update aligns and updates the RDL with JIP33 S-733 Low Voltage Motors (IEEE Std 841). Scope includes both IRS and Procurement Data Sheet. |
| RDL master object | 1639 | 0 | 1 | 1638 |
| equipment class property | 253 | 0 | 0 | 253 |
| property | 663 | 0 | 0 | 663 |
| property group | 251 | 0 | 0 | 251 |
| property group allowed for purpose | 251 | 0 | 0 | 251 |
| property grouping or decomposition purpose | 1 | 0 | 0 | 1 |
| property to group assignment | 1116 | 0 | 0 | 1116 |
| source standard document and data requirement | 406 | 0 | 1 | 405 |
| source standard | 64 | 0 | 0 | 64 |
| tag class property | 660 | 0 | 0 | 660 |
| tag or equipment class source standard | 10 | 0 | 0 | 10 |
| tag or equipment class property source standard | 1152 | 0 | 0 | 1152 |
| FR122 - Bugs to be fixed via the V2.0 Release | Bug Fix | Narrative Documents & Supporting Templates,  RDL - Documents | RDL master object | 13 | 11 | 1 | 1 | This update adds document return status to the RDL, including its association to entities and picklist values. |
| entity | 1 | 1 | 0 | 0 |
| entity attribute | 2 | 2 | 0 | 0 |
| entity attribute relationship | 1 | 1 | 0 | 0 |
| property picklist | 1 | 1 | 0 | 0 |
| property picklist value | 9 | 7 | 1 | 1 |
| FR65 - Spec Doc Requirements Annex | New Scope/Feature | Narrative Documents & Supporting Templates | no data changes | | | | | This update provides an Annex to the Specification document, to capture a schedule of deliverables, which can be edited and added to on a project to project basis |
| FR90 - Addition of reference requirements to Specification Document | New Scope/Feature | Narrative Documents & Supporting Templates | no data changes | | | | | This update, edits the Specification document into sets of numbered requirement statements, which can then be embedded into owner operator contracts. |
| FR189 – changes made as a result of v2.0 RC feedback | Bug fixes | RDL - Data | Multiple | | | | | This update edits multiple RDL objects as a direct result of reported feedback. |