# Repository 2010 Edition

## Document change notices

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| --- | --- | --- | --- |
| **Version** | **Date** | **Change Description** | **Author** |
| 1.0 | 2010-03-16 | Initial document release | Jim N, Phil O |

## Open Issues

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| --- | --- | --- | --- |
| **Date** | **Initiator** | **Isues** | **Resolution** |
| 2010-02-15 | Jim N | Are additional changes listed in document acceptable? |  |
| 2010-02-15 | Jim N | Need some policy on repository editions and how to identify updates for new versions. Edition was intended to convey the format of the repository as opposed to contents. How do we indicate the release of the repository for say, new extension packs and service packs? |  |
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## Changes to schema file format

| File | Operation | Old Name | New Name | Rationale |
| --- | --- | --- | --- | --- |
| Abbreviations | Change Element Name | dataroot | Abbreviations | Change to meaningful name |
| Abbreviations | Change Element Name | Abbreviations | Abbreviation | Plural -> singular consistency |
| Abbreviation | Change Element Name | Abbreviation | AbbrTerm | Consistency |
| Abbreviation | Move from Element to Attributes | Version | @added | Consistency |
| Categories | Change Element Name | Category | CategoryID | Improvement |
| Categories | Change Element Name | Section | SectionID | Improvement |
| Categories | Change Element Name | dataroot | Categories | Change to meaningful name |
| Categories | Change Element Name | Categories | Category | Plural -> singular consistency |
| Categories | New Element |  | Description | Consistency, captures text content into specification |
| Categories | New Element |  | Name | Improvement |
| Components | Change Element Name | dataroot | Components | Change to meaningful name |
| Components | Change Element Name | Category | CategoryID | Improvement |
| Components | Change Element Name | ComponentName | Name | Consistency |
| Components | Change Element Name | Components | Component | Plural -> singular consistency |
| Components | Change Element Name | MsgID | ComponentID | Improvement |
| Datatypes | Change Element Name | dataroot | Datatypes | Change to meaningful name |
| Datatypes | Change Element Name | Desc | Description | Consistency |
| Datatypes | Change Element Name | TypeName | Name | Consistency |
| Enums | Change Element Name | dataroot | Enums | Change to meaningful name |
| Enums | Change Element Name | Enums | Enum | Plural -> singular consistency |
| Enums | Change Element Name | Enum | Value | Improvement |
| Enums | New Element |  | SymbolicName | New feature intended to support code generation applications. Synthesis of auto-generated names, externally generated names, and hand correction of problems. Uniqueness within a given tag is a logical requirement, and was programmatically confirmed. |
| Enums | New Element |  | Definition | New feature intended to integrate definitions directly into the enumerations. Will permit shorter names for field values. |
| Fields | Change Element Name | dataroot | Fields | Change to meaningful name |
| Fields | Change Element Name | Fields | Field | Plural -> singular consistency |
| Fields | Change Element Name | BaseCatagory | BaseCategory | Correct spelling error |
| Fields | Change Element Name | BaseCatagoryXMLName | BaseCategoryXMLName | Correct cpelling error |
| Fields | Change Element Name | Desc | Description | Consistency |
| Fields | Change Element Name | UsesEnumsFromTag | EnumDatatype | Conceptual change – capturing fact that fields created to circumvent within-message tag# usage requirements are actually representations of the other field as opposed to just using enums. |
| Fields | Copy contents from old to new | OverrideXMLName | AbbrName | Simplification |
| Fields | Remove Element | OverrideXMLName |  | Simplification, field no longer needed; field originally were used when repository was first created to override automatically generated names that were deemed awkward or undesirable. We no longer autogenerate names. |
| MsgContents | Change Element Name | dataroot | MsgContents | Change to meaningful name |
| MsgContents | Change Element Name | MsgContents | MsgContent | Plural -> singular consistency |
| MsgContents | Change Element Name | MsgID | ComponentID | Consistency |
| MsgType | Rename File | MsgType | Messages | Improved naming |
| MsgType | Change Element Name | dataroot | Messages | Change to meaningful name |
| MsgType | Change Element Name | dataroot/MsgType | Messages/Message | Improvement |
| MsgType | Change Element Name | MsgID | ComponentID | Improvement |
| MsgType | Change Element Name | ComponentType | Type | Consistency |
| MsgType | Change Element Name | MessageName | Name | Consistency |
| MsgType | Change Element Name | Category | CategoryID | Consistency |
| MsgType | Change Element Name | Section | SectionID | Consistency |
| MsgType | Copy contents from old to new | OverrideAbbr | AbbrName | Simplification |
| MsgType | New Element and contents |  | Description | MessageDesc.xml was created to suppor t FIXimate3.0 and the Unified Repository format. It was built by manually extracting content from each version of the specification. Plan is to move this data content into the MsgType.xml file. |
| MsgType | Remove Element | OverrideAbbr |  | simplification, field no longer needed |
| MsgType | Remove Element | ComponentType |  | Unused |
| MsgType | Remove Element | Volume |  | Redundant – data available in Section |
| Sections | Change Element Name | dataroot | Sections | Change to meaningful name |
| Sections | Change Element Name | Sections | Section | Plural -> singular consistency |
| Sections | Change Element Name | Section | SectionID | Improvement, eases XPATH usage. Also, spaces removed in the id's. |
| Sections | Change Element Name | DisplayName | Name | Consistency |
| Sections | Change Element Name | Desc | Description | Consistency |
|  |  |  |  |  |
| All Schema Files | Add to root element |  | edition | Explicitly add the edition as metadata to the root element of all repositories |
| All Schema Files | Add namespace |  |  | Consistency across XML schema standards |
| All Schema Files | Order all Physical Key elements at the beginning within the entity element to which they apply. |  |  | Consistency, industry standard practice |

## Changes to ordering elements in schemas

All files have both changes to element names and to element ordering. The guiding principle was primarily to put the most significant (or "primary key/identifier") fields at the start of the ordering, and to put Description fields at the end where that was logical.

## Add annotation to the XML Schema Files

Document the use of each element and attribute.

Try to be consistent with FIXatdl Schema

## Add namespace

Add namespace to repository URI approach

http://www.fixprotocol.org/repository/2010

## Add license and disclaimer

The repository schema 2010 maintenance release will be available under license from FPL.

## Add edition attribute

New attribute in FIX repository schema files: @edition in YYYY format, e.g. “2010”

## New metadata attributes

New metadata attributes have been added to track the history of repository entities. These are optional and can be applied to any repository entity. Some of the @added and @addedEP attributes have been added, with some gaps partially due to problems with early EPs and EP change reporting.

|  |  |  |  |
| --- | --- | --- | --- |
| Attribute | Description |  | Explanation |
| added | **Version\_t** | **Version when element was added** |  |
| addedEP | **EP\_t** | **EP when element was added** |  |
| deprecated | **Version\_t** | **Version when element is deprecated** |  |
| deprecatedEP | **EP\_t** | **EP when element is deprecated** |  |
| issue | **xs:string** | **JIRA Issue tracking number that addresses builds** |  |
| *removed* | ***Version\_t*** | ***Version element was removed*** | ***Proposed attribute that will be removed*** |
| *removedEP* | ***EP\_t*** | ***EP element was removed*** | ***Proposed attribute that will be removed*** |
| updated | **Version\_t** | **Version when element was updated** |  |
| updatedEP | **EP\_t** | **EP when element was updated** |  |

## Compatibility across major platforms

We have added test scripts to ensure the repository is compatible with both open source stacks and Microsoft .Net.