Title	Comments on the ebXML RegRep RIM 4.0 draft (November 7, 2008) Submitted by Alessandro Triglia, OSS Nokalva					
URL					Date	2008-12-26

No.	Clause or subclause	Para-graph or line number	Type of com-ment	Comment	Proposed change	
~~1~~	~~2~~	~~347~~		~~Spelling/grammar~~	~~Change "defines" to "defined"~~	Fixed
~~2~~	~~1, 2~~	~~multiple~~		~~In version 3.0 of the RIM, there were a few sections that are no longer present in this draft but were an essential part of the specification and therefore should be reintroduced. Those sections are: 1.5 (Repository Items and Registry Objects), 1.6 (Canonical Classification Schemes), and 2.2 (Data Types)~~	~~Reintroduce the content of the old sections 1.5, 1.6, and 2.2. Make sure that the text is marked as normative and placed within a normative section. (Section 1 would not be a good place.)~~	Added 1.5, 1.6 but not 2.2 as attributes are now defined in terms of XSD types.
3				void	void	
4	~~multiple~~	~~multiple~~		~~In version 3.0 of the RIM, UML concepts such as class, attribute, and class inheritance were used. In the present draft those concepts have apparently been replaced by XML Schema concepts (e.g., types). However, there are a few places in the draft where the old terminology is still in use. This should be corrected.~~	~~- In line 349, change "Class Inheritance View" to "Type Hierarchy" or "Type Derivation View".~~ ~~- In line 121 (Table of Contents), make a corresponding change.~~ ~~- In line 354, change "Class attributes" to "Attributes and child elements".~~ ~~- In line 355, change "attributes of each class" to "attributes and child elements of each complex type"~~ ~~- In line 356, change "of each class" to "of the complex type"~~ ~~- In line 382, change "classes" to "types"~~	Fixed

Type of comment: **ge** (general), **te major** (major technical), **te minor** (minor technical), **ed** (editorial)

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					In line 1404, change "class" to "type"	
					In line 1440, change "class" to "type"	
					In line 2164, change "Super classes" to "Base type"	
5	multiple	multiple		In the new RIM schema there are many global element declarations that are defined but never referenced. It is unclear whether the intent was to use those global elements as child elements in the definition of some complex types. An example is the global element <Name>, which could have been used as a child element in the complex types RegistryObjectType and ParameterType, in place of the local element <Name> that is declared in those complex types. However, by comparing the RIM 3.0 schema with the new RIM schema, it appears that all global element references that were present in the old schema have been replaced with local element declarations in the new schema. If that change was intentional, then the global element declarations in the schema have become useless and should be removed from the schema.	-- Delete from the RIM schema all the global element declarations that are not referenced anywhere. -- In line 390-391, delete the sentence "Two global elements ... as their type."	Fixed
6	3.1	390		The word "multiple" in this sentence seems to exclude the case of a single language being used.	Change "in multiple local languages"	Fixed

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					to "in a local language, or even in multiple local languages at the same time."	
7	3.1	392		Convoluted text	Change "where each String is specific to a particular locale" to "each specific to a particular locale"	Fixed
8	3.1	397		XML syntax error	Delete the characters "<element" at the beginning of the line	Fixed
9	multiple	multiple		Table 1 says that the namespace prefix "rim:" is associated with the RIM namespace. Unfortunately, though, the prefix "tns:" is actually used in the schema file and throughout the text. We believe it would be more elegant either to use the prefix "rim:" instead of "tns:" or to use a default namespace declaration for the RIM namespace instead of the prefix "tns:". If a default namespace declaration is used for the RIM namespace, then the prefix "xs:" should be used for all XML schema qualified names as indicated in Table 1.	Both in the schema file and throughout the text, use a default namespace declaration (no prefix) for the RIM namespace, and use the prefix "xs:" for the XML Schema namespace. Alternatively, use the prefix "rim:" for the RIM namespace, instead of "tns:".	
10	3.1.1	398		The child element <LocalizedString> in InternationalStringType has minOccurs = 0. What is	Consider changing the minOccurs of this	

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No.	Clause or subclause	Para- graph or line number	Type of com- ment	Comment	Proposed change	
				the meaning of an InternationalStringType value that does not contain a character string? Is it the same as a character string of length zero?	element from 0 to 1.	
11	multiple	multiple		The Description section of each type contains a table where child elements and attributes are lumped together and put in alphabetical order. The benefits of this style are unclear. We believe it would be closer to the spirit of XML (and thus easier to understand to most readers of the standard) if two distinct tables were used, one for the child elements, and one for the attributes. The child elements should then be ordered in the same order in which they occur in the complex type definition (and in the XML instances), instead of alphabetically. The attributes should be ordered alphabetically since their order in an XML instance is meaningless.	In the Description sections of each type specification, split the table into two tables, one for the attributes and one for the child elements of the complex type. - In each Description section, include the Attributes table only if there are attributes, and include the Child Elements table only if there are child elements - Change the column heading "Node" of the two tables to "Attribute" and "Child Element" respectively. - In the Attributes table, change the column heading "Cardinality" to "Required" and change the values (0, 1) accordingly - In the Child Elements table, remove the column "Default Value", which is not useful for an element	
~~12~~	~~3.2.1~~	~~418, 419~~		~~The attributes "charset" and "value" of the complex type "LocalizedStringType" have no type explicitly specified for them, and so their type defaults to "xs:anySimpleType". We doubt that was the intent.~~	~~- In line 418 (schema), add a "type" attribute to the declaration of the "charset" attribute (presumably type="xs:string")~~ ~~- In line 419 (schema), add a "type" attribute~~	Fixed

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					to the declaration of the "value" attribute (presumably type="xs:string") - Update the schema files accordingly	
13	3.2.3	424		The attribute "lang" mentioned in this table and in the paragraph below the table is presumably the attribute "xml:lang". The prefix "xml:" should not be omitted.	- In the table (line 424), change "lang" to "xml:lang" - In line 426, change "Attribute lang" to "Attribute xml:lang" - In line 426, change "a lang attribute" to "an xml:lang attribute"	Fixed
14	3.2.3	424		The type of the attributes "charset" and "value" is erroneously specified as "String" (sic). Presumably the intended type was "xs:string".	- in the second row of the table (attribute "charset") change "String" to "xs:string" - in the third row of the table (attribute "value") change "String" to "xs:string"	Fixed
15	3.2.3	428		In version 3.0 of the RIM, the information model was specified using UML concepts. Within that model, it probably made sense to define each character string as being (inherently) in a particular character set. However, we believe that that property has become less useful as well as harder to maintain, now that the RIM information model is specified using XML Schema. In XML a character encoding is a property of the way an XML instance (as a	- Remove the "charset" attribute from the table - Delete the whole paragraph at lines 428-430 - In line 413, delete "and character set" - In line 587, delete "and character set" - In line 605, delete "and character set"	

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				whole) is encoded into a stream of octets, and not a property of each character string present in the XML instance. If the "charset" property of LocalizedStringType is retained in version 4 of the RIM, it is unclear how a string whose "charset" does not match the character encoding of the XML document in which it is placed is to be encoded. If one supposes that all strings, whatever their inherent "charset" is, can be represented in an XML document using any XML character encoding, then the utility of the "charset" property becomes even less clear. It would be much easier to specify that all localized strings are inherently Unicode strings (as are all strings within an XML infoset), and let the users encode the XML documents in their preferred character encodings.	- In line 1762, delete "and character set" - In line 1766, delete "and character set"	
16	multiple	446, 574, 576		The type name "referenceURI" occurs three times in place of "objectReferenceType"	Change "referenceURI" to "objectReferenceType" wherever it occurs	Fixed
17	3.3.3	462, 465		The type of the attribute "collectionType" is erroneously specified as "ObjectRef".	- In the table, change "ObjectRef" to "objectReferenceType" - In line 465, change: "Must be an ObjectRef that references a ClassificationNode" to	Fixed

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					"The value of this attribute MUST be the id of a ClassificationNode"	
18	3.3.3	472		Spelling	Change "local" to "locale"	Fixed
19	3.3.3	multiple (e.g., 474)		The "dataType" attribute is specified as a LongName. Why not define a canonical classification scheme instead? We believe it would be more consistent with the philosophy of RegRep.	Define a new canonical classification scheme for datatypes. Change the type of the attribute "dataType" to an objectReferenceType which is to point to a classification node. Make any other changes to the specification that are required.	
20	multiple	multiple (e.g., 501, 529, 532)		Throughout this draft, the term "instance" (of a type) is often used with the meaning "an instance of any type derived from this type". Some of the types defined in RIM are abstract and therefore cannot have any instances (although their non-abstract derived types can). So, for example, a phrase such as "an instance of ExtensibleObjectType" is actually incorrect if "instance" is interpreted in the usual sense of the word.	The wording needs to be made clearer. Try to use a longer phrase (e.g., "an instance of this type or any derived type") whenever possible. If this sounds too clumsy to do in all cases, then at least add a paragraph to the Introduction that explains how the word "instance" is used in this specification.	No change as an Org is of type ExtensibleObjectType is a valid statement.
21	3.5.2	510		The description of the example is incorrect. Since ExtensibleObjectType is an abstract type, an element of that type cannot exist. Indeed, the type of <rim:Organization> is OrganizationType (which is a non-abstract extension of ExtensibleObjectType), and not ExtensibleObjectType itself.	Change "which is of type ExtensibleObjectType" to "which is of type OrganizationType, a type derived from ExtensibleObjectType".	No change as an Org is of type ExtensibleObjectType is a valid statement.

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~~22~~	~~3.5.3~~	~~526~~		~~The type of the element <Slot> is erroneously specified as "Slot".~~	~~Change "Slot" to "SlotType".~~	Fixed
~~23~~	~~3.6.3~~	~~546~~		~~The name of the "id" attribute is given in this table as "Attribute id" (two words). This is inconsistent with the usage in all the other Description tables.~~	~~Change "Attribute id" to "id".~~	Fixed
~~24~~	~~3.6.3~~	~~546~~		~~The type of the "id" attribute is specified as "string". Since this is presumably the "string" type of XML Schema, it should be spelled here as "xs:string". Unprefixed type names should be used only for the types defined in RIM (e.g., "ShortName"). This seems to be the convention used throughout the document anyway.~~	~~Change "string" to "xs:string"~~	Fixed
25	~~3.7.2~~	~~580~~		~~The type of the attribute "lid" is specified in this table as "string", but it is "xs:anyURI" in the schema.~~	~~-Change "string" to "xs:anyURI"~~ ~~-Delete the extra dot after "0..1" in the Cardinality column~~	Made its type be xs:string in rim.xsd to be consistent with id.
26	~~3.7.2~~	~~586~~		~~Spelling~~	~~Change "therefor" to "therefore"~~	No change http://www.merriam-webster.com/dictionary/therefor
27	~~3.7.2~~	~~604~~		~~Spelling~~	~~Change "therefor" to "therefore"~~	No change http://www.merriam-webster.com/dictionary/t

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						herefor
~~28~~	~~11.5~~	~~2328~~		~~Spelling~~	~~Change "therefor" to "therefore"~~	No change http://www.merriam-webster.com/dictionary/therefor
~~29~~	~~multiple~~	~~587, 604, 1762, 1766~~		~~We believe that "Textual values in multiple local languages" would sound better than "Textual values in multiple locales"~~	~~- In line 587, change "locales" to "local languages"~~ ~~- In line 604, make the same change~~ ~~- In line 1762, make the same change~~ ~~- In line 1766, make the same change~~	Fixed
30	multiple	multiple		The language of this specification is often clumsy due to excessive use of phrases such as "a RegistryObjectType instance" or "a ClassificationType instance". The specification would become much more readable if those phrases were replaced, for example, by "a registry object" and "a classification".	- Add a "Terms and Definitions" section early in the document and include terms and definitions for the following terms: "registry object", "repository item", "registry package", "extrinsic object", "classification scheme", "classification node", "classification", "association", "external link", and a few others that are needed. - Use those defined terms whenever possible (e.g., write "a classification node" instead of "a ClassificationNodeType instance").	

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					- If necessary, adopt a typographic convention (e.g., use of italics) to make the defined terms easier to recognize in the text.	
31	3.7.2	613		The semantics of the attribute "objectType" is overloaded. This attribute has one meaning and behavior for the registry objects of some types and a completely different meaning and behavior for the registry objects of other types. We think that this is complicated and unnecessary, and we think that it would be more logical to define two distinct attributes.	- Retain the attribute "objectType" with the meaning and behavior that is currently specified "for all RegistryObjectType instances that are not instances of ExtrinsicObjectType", but extend that meaning and behavior to all types of registry objects. This means, for example, that the "objectType" attribute will always be assigned by the server and never by the client - Introduce a new attribute (say, "extrinsicObjectType") with the meaning and behavior that is currently specified for registry objects that are instances of ExtrinsicObjectType. Add text that allows the client to assign this attribute for instances of ExtrinsicObjectType but not for other types of registry objects.	
32	3.7.2	625		Spelling/grammar	Change "own" to "owns"	Fixed
33	3.7.2	626		Imprecise language	Change "authorization of access" to "access control"	Fixed

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34	3.7.2	643		Spelling/grammar (4 occurrences)	In each of the four rows of this table, change "objects" to "object"	Fixed
35	3.7.2	643		We think it would be more logical if the four rows of this table were ordered as follows: submitted, approved, deprecated, withdrawn	Move "Submitted" to the first row of the table	
36	3.7.2	646		VersionInfo is an element, not an attribute	Change "attribute" to "element"	Fixed
37	3.8.3	665-669		These two paragraphs are unclear. First, they mention an element <rim:Request> that is not defined anywhere in this specification. Second, it is unclear how exactly the server is supposed to assign the comment attribute based on a comment provided by the client.	We don't understand the intent of this text, and therefore we are unable to suggest a change.	
38	3.8.3	674		If the version name is automatically generated by the server, it is unclear what criteria the server is supposed to use in generating each successive version number. For example, how will the server decide if the version number after version "1.1" should be "2.0" or "1.2" or "1.1.1"? In our view, the simplest solution for automatically generated version numbers would be to define them as positive integers (1, 2, 3, etc) instead of character strings.	- Change the type of the versionName attribute from xs:string to xs:positiveInteger. - State that the server must assign the value 1 to the first version of a registry object and must assign successive integers (2, 3, etc.) to each subsequent version. - Delete the default value "1.1" from the type definition, which does not make sense given that the server will always assign a version number.	Added clarification: "The server is free to choose any scheme for generating the value for this attribute as long as the value is uniquely identifies a version for objects that have the same lid attribute value.". Note it cant be monotonically increasing as we want to allow leverage of any VCS.

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39	3.9	677		The type objectReferenceType is derived by restriction from xs:string. Therefore it does not "extend" xs:string, it *restricts* xs:string. In version 3.0 of the RIM, the specification of each class mentioned the "superclass" of the class. In the present version, XML Schema concepts have replaced UML concepts. In XML Schema the concept corresponding to "superclass" is "base type". We believe that the term "Base type" would be better than "Extends", since it works both for types derived by extension and for types derived by restriction.	Throughout the document, change all occurrences of "Extends:" to "Base type:".	Fixed
40	3.9	multiple		In this document, most of the sections that specify RIM types have the following general scheme: X.Y.1 Syntax, X.Y.2 Example, X.Y.3 Description. Section 3.9 is the only section that deviates from this scheme, and we cannot see any good reason for this.	Restructure section 3.9 so that it will conform to the general scheme: 3.9.1 Syntax, 3.9.2 Example, 3.9.3 Description. Put the text of the old sections 3.9.1, 3.9.2, and 3.9.3 under the new section 3.9.3 Description.	Fixed
41	3.10	773		Grammar	Change "as is the objectReferenceType" to "as does objectReferenceType"	Fixed

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~~42~~	~~3.10.1~~	~~783~~		~~The type of the "id" attribute within ObjectRefType has the same meaning as the type objectReferenceType. We believe it would be clearer and more elegant if the type of this attribute were specified as objectReferenceType instead of xs:string.~~	~~Change "xs:string" to "objectReferenceType"~~	Fixed
43	3.10.1	783		We believe that the name of the "id" attribute of ObjectRefType is a bad name for this attribute. Usually, the name "id" is used for an attribute that carries the unique identifier of the entity represented by the element in which the attribute itself occurs, as opposed to a reference to another entity. We believe that a more appropriate name for this attribute would be "registryObject". Note that in this specification there are many referencing attributes of type objectReferenceType whose names are similar to "registryObject".	Change the name of the attribute "id" to "registryObject". If both this comment and the comment #42 are accepted, the attribute will be defined as follows: `<attribute name="registryObject" type="rim:objectReferenceType" use="required"/>`	
44	3.9	multiple		There are two major problems with dynamic references. - The type DynamicObjectRefType is currently defined as an extension of ObjectRefType, which is in turn an extension of ExtensibleObjectType. ObjectRefType instances are not registry objects: they are just "values", they have no identity per se. The "id" attribute of an ObjectRef is a reference to the "id" attribute of a registry object rather than being an identifier for the ObjectRef itself.	- Change the definition of DynamicObjectRefType and redefine it as an extension of RegistryObjectType instead of ObjectRefType - Make any other changes to the text that are necessary - Choose one of the following:	

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				Apparently, in deriving the type DynamicObjectRefType, the semantics of the "id" attribute has been completely changed and this attribute is now used as an identifier for the DynamicObjectRefType instance itself and no longer as a reference (see the example at lines 721-742). Such a major change in semantics across a type derivation is unacceptable. If there is a desire to treat a dynamic reference object as an "object with identity" that is stored in a Registry, that object has to be a true registry object, and this means that DynamicObjectRefType has to be specified as an extension of RegistryObjectType. This has many other benefits, such as the ability to manage the lifecycle of a dynamic reference object, versioning, access control, etc.
				
				- The above leads to the second problem. According to the present draft, when a registry object "A" references an object "B" which happens to be a dynamic reference object, that reference must be treated as a dynamic reference and the actual target of the reference must be determined by resolving the dynamic reference. This implies that object "B" itself can never be the actual target of any (static) reference. This limitation is not acceptable. It must be possible to statically reference *any* registry object present in a registry. One way to solve this problem is to use two discernibly different syntaxes for static references
					FIRST SOLUTION (not preferred)
					
					- In the specification of the type objectReferenceType (section 3.9), introduce a special syntax for dynamic references. The special syntax could consist in a short prefix (e.g., a single punctuation mark) placed at the beginning of the reference value and followed by the identifier of the dynamic reference object (see example below).
					
					- If comment #42 is accepted, then the attribute within type ObjectRefType will implicitly be able to use the special syntax. Otherwise the specification of ObjectRefType has to provide for the use of the special syntax.
					
					EXAMPLE OFTHE FIRST SOLUTION
					
					The `attributprimaryContact` in:
					
					`<rim:Organization primaryContact="urn:acme:person:Danyal" ....>`
					`</rim:Organization>`
					
					would always be a static reference, whereas the same attribute in:
					
					`<rim:Organization primaryContact="short_prefix_to_be_de`	

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				and dynamic references. For example, a dynamic reference could be marked with a special prefix. The presence of the prefix at the beginning of the value of a referencing attribute would signal that the actual target of the reference is to be determined by resolving the DynamicObjectRefType object pointed to by the remaining part of the value of the attribute. Another solution might be the use of distinct referencing attributes, one for use as a static reference and one for use as a dynamic reference. Another solution might be the addition of a boolean attribute that signals whether the referencing attribute occurring in the same context is to be treated as a dynamic reference or not.	`fined:urn:acme:query1381" ....>` `</rim:Organization>`
					
					would always be a dynamic reference, and the same attribute in:
					
					`<rim:Association` `sourceObject="urn:acme:query1381" ...` `.` `targetObject="..."` `type=...">` `</rim:Association>`
					
					would always be a static reference whose actual target is the dynamic reference object itself.
					
					SECOND SOLUTION (preferred)
					
					In each complex type definition where an attribute of type objectReferenceType occurs, add a companion attribute of type xsd:boolean (optional, with default="false") for each attribute of type objectReferenceType. The name of the companion attribute is to be constructed from the name of the attribute of type objectReferenceType, plus a suffix like "Dynamic" (or "Indirect", or ...).
					
					EXAMPLE OF THE SECOND SOLUTION
					
					The `attributprimaryContact` in:	

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					`<rim:Organization primaryContact="urn:acme:person:Danyal" ....> </rim:Organization>` would always be a static reference, whereas the same attribute in: `<rim:Organization primaryContact="urn:acme:query1381" . ... primaryContactIndirect="true"> </rim:Organization>` would always be a dynamic reference, and the same attribute in: `<rim:Association sourceObject="urn:acme:query1381" ... . targetObject="..." type="..."> </rim:Association>` would always be a static reference whose actual target is the dynamic reference object itself. We prefer the second solution because the value of the reference attribute remains a true URI. In the first solution the value of the attribute is not always a URI.	
45	3.11	801		Spelling/grammar	Change "add" to "adds"	

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46	3.12	828-832, 846, 854-858		The present draft specifies the <rim:RepositoryItemRef> element as an alternative to the <rim:RepositoryItem> element within an extrinsic object, but the draft forbids the client to choose the former element when sending a message to a server. We believe that the standard does not need to be concerned with what happens inside a client that is not visible to an external observer. From a conformance standpoint, whether a client implementation contains a "client library" or not, whether the client library uses files in the local file system or not, and how the client library communicates with the surrounding code within the client implementation, is totally irrelevant. If the element <rim:RepositoryItemRef> is never going to be present in the messages exchanged between the client and the server, that element should not be defined in the specification of ExtrinsicObjectType. Vendors of client libraries are free to define their interfaces as makes the most sense for them.	- In lines 828-832 (schema), replace the <choice> with the element declaration <rim:RepositoryItem>, with minOccurs=1 and maxOccurs=1. - In the table below 3.12.3, delete the second row (RepositoryItemRef) - Delete lines 854-858 (third bullet below the table).	
47	3.13	865		Spelling/grammar	Change "member" to "members"	Fixed
48	3.13	866		Spelling/grammar	Change "instace" to "instance"	Fixed
49	3.14	938		Spelling/grammar	Change "allows additional" to "allows an additional"	Fixed
50	3.14.1	946-948		XML syntax	- In line 946, delete the extra space after the	Fixed

Type of comment: **ge** (general), **te major** (major technical), **te minor** (minor technical), **ed** (editorial)

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| URL | | | | | Date | 2008-12-26 |

No.	Clause or subclause	Para-graph or line number	Type of com-ment	Comment	Proposed change	
					colon in "tns: objectReferenceType" - In line 948, make the same change	
51	3.14.3	965		The type of the attributes identificationScheme and registryObject are erroneously specified as "objectRefType"	- In the first row of the table (identificationScheme), change "objectRefType" to "objectReferenceType" - In the second row of the table (registryObject), make the same change	Fixed
52	3.15.3	1011		The description of the type ExternalLinkType only specifies the <ExternalRef> element. The registryObject attribute is not mentioned.	- In the table, add a second row for the registryObject attribute - Below the table, add a second bullet for the registryObject attribute	Fixed
53	4.2	1029		Spelling/grammar	Change "an type" to "a type"	Fixed
54	4.3.3	1057		The type of the attributes sourceObject, targetObject, and type, are erroneously specified as "objectRefType"	- In the first row of the table (sourceObject), change "objectRefType" to "objectReferenceType" - In the second row of the table (targetObject), make the same change - In the third row of the table (type), make the same change	Fixed
55	5	1075		Spelling	Change "Th" to "The"	Fixed

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56	5	1087		Spelling	Change "Below" to "below" (lowercase "b")	Fixed
57	5.1	1106		The line "Extends: RegistryObjectType" is duplicated	Delete the extra line	Fixed
58	5.2.2	1143		Spelling/grammar	Change "to represent" to "representing"	Fixed
59	5.2.2	1151		The word "Female" in the URI seems to be incorrect	Change "Female" to "Other"	Fixed
60	5.2.3	1153		The type of the attribute nodeType is erroneously specified as "objectRefType"	Change "objectRefType" to "objectReferenceType"	Fixed
61	5.2.3	1155, 1160		Line 1155 refers to the "client" whereas line 1160 refers to the "submitting organization". Which one is correct?	Choose one term and use it consistently across the specification	Fixed
62	5.3.3	1197		The type of the "path" attribute is specified as "string". Since this is presumably the "string" type of XML Schema, it should be spelled here as "xs:string". Unprefixed type names should be used only for the types defined in RIM (e.g., "ShortName"). See also comment #24.	Change "string" to "xs:string".	Fixed
63	5.3.3	1204-1206		The second sentence of this paragraph is incorrect. The "parent" attribute always references the parent TaxonomyElementType instance, which is either a ClassificationNodeType or a ClassificationSchemeType.	Change: "The parent attribute either references the parent TaxonomyElementType instance or the ClassificationNodeType instance"	Fixed

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					to: ~~"The parent attribute references the parent TaxonomyElementType instance. This is either another ClassificationNodeType instance or the ClassificationSchemeType instance."~~	
~~64~~	~~5.4.2~~	~~1257~~		~~Spelling/grammar~~	~~Change "shows a how" to "shows how"~~	Fixed
65	~~6.6.3~~	~~1497~~		~~In the table, the cardinality of the "primaryContact" attribute is specified as "No"~~	~~Change "No" to "0..1".~~	Fixed
66	6.6.3	~~1500, 1503, 1509, 1510~~		~~Spelling/grammar~~	~~- In line 1500, change "A Organization" to "An Organization"~~ ~~- In line 1503, change "A OrganizationType instance" to "An OrganizationType instance"~~ ~~- In line 1509, change "elementprovides" to "element provides"~~ ~~- In line 1510, change "ifor" to "for"~~ ~~- In line 1510, change "A Organization" to "An Organization"~~	Fixed

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67	6.7	1510		The word "child" is out of place. The fact that a person is related to an organization does not (necessarily) make the person a "child" of the organization.	Delete "child"	Fixed
68	6.9.1	1542, 1544		The word "SHOULD" in these two paragraphs does not seem correct. We believe "MUST" would be appropriate. The word "SHOULD" in line 1539 is appropriate, and implies that the existence of a ResponsibleFor association for a registry object is recommended but not mandatory. However, if such an association does exist, its sourceObject and its targetObject need to point to the right registry objects, and thus MUST is appropriate for them.	- In line 1542, change "SHOULD" to "MUST" - In line 1544, make the same change	
69	6.9.2	1552, 1554		The word "SHOULD" in these two paragraphs does not seem correct. We believe "MUST" would be appropriate. See also comment #68		
70	6.9.2	1555		Spelling	Change "Shows" to "shows" (lowercase "s")	Fixed
71	7.2	1600		Spelling	Change "ServiceEndPointType" to "ServiceEndpointType" (lowercase "p")	Fixed

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72	7.2.3	1625		Spelling/grammar	Change "represents a protocol-specific" to "represents protocol-specific"	Fixed
73	8	1675, 1677, 1679		Spelling/grammar	- In line 1675, delete "as" - In line 1677, make the same change - In line 1679, make the same change	Fixed
74	8.1.3	1713		In this table, the cardinality of the <QueryExpression> element is specified as 0..*, but the element has maxOccurs=1 specified in the schema	Change "0..*" to "0..1"	Fixed
75	8.2.1	1703, 1733, 1742		In the schema definition of the type ParameterType, the name of the "datatype" attribute is specified like this, with a small "t" before the "y". However, all references to this attributes in the text are spelled as "dataType" with a capital T (e.g., line 1748). Note that the SlotType type has also a "dataType" attribute, which is spelled with a capital T, so perhaps the intent was to use the spelling "dataType" everywhere.	- In line 1703 (XML example), change "datatype" to "dataType" - In line 1733 (schema), make the same change - In line 1742 (XML example), make the same change - Update the schema file accordingly	Fixed
76	8.2.1	1734		The attribute "defaultValue" of the complex type "ParameterType" has no type explicitly specified for it in the schema, and so its type defaults to "xs:anySimpleType". We doubt that was the intent.	- In line 1734, add a "type" attribute to the declaration of the "defaultValue" attribute (presumably type="xs:string")	Fixed

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					- Update the schema files accordingly	
77	8.2.3	1750		An enumeration of string values ("string", "boolean", "taxonomyElement") is being specified for the attribute "dataType". Why not define a canonical classification scheme instead? We believe this would be more consistent with the philosophy of RegRep.	Define a new canonical classification scheme for parameter data types. Change the type of the attribute "dataType" to an objectReferenceType which is to point to a classification node. Make any other changes to the specification that are required.	
78	8.2.3	1760		Spelling/grammar	Change "the what" to "what"	Fixed
79	8.2.3	1763-1764		"Expected" is not the right word.	- In line 1763, change "expected" to "allowed" - In line 1764, make the same change	Fixed
80	8.4	1798		Spelling	Within "StringQueryExpressionType", change "Expresion" to "Expression"	Fixed
81	8.4	1800		Spelling/grammar	Change "a non-XML query syntaxes" to "non-XML query syntaxes"	Fixed
82	8.4.3	1822		Spelling	Change "xs:String" to "xs:string" (lowercase "s")	Fixed
83	8.6.3	1879		The cardinality of the queryDefiintion attribute is specified in this table as "0..1", but the schema specifies that this attribute is required.	Change "0..1" to "1"	Fixed

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~~84~~	~~9.1~~	~~1912~~		~~Spelling/grammar~~	~~Change "provides" to "provide"~~	Fixed
85	~~9.1.3~~	~~1948~~		~~The type of the requestId attribute is specified in this table as "xs:string", but it is specified as "objectReferenceType" in the schema~~	~~Change "xs:string" to "objectReferenceType"~~	Fixed. Actually xs:string is correct. Schema was fixed.
86	~~9.1.3~~	~~1948~~		~~The name of the "timestamp" attribute is spelled incorrectly in this table~~	~~Change "timeStamp" to "timestamp" (lowercase "s").~~	Fixed
~~87~~	~~9.1.3~~	~~1951~~		~~According to RFC2119, the word "MAY" expresses an optional provision, but the intent of this sentence is presumably that an <AuditableEvent> element is **required** to have at least one <Action> child element. So "MUST" is the right word here, not "MAY". According to RFC2119, "MAY" would imply that the presence of the <Action> element(s) is allowed but not required, but the schema specifies that at least one such element must be present~~ ~~This error (MAY instead of MUST) is frequently encountered in standards, and originates in the use of the verb "may" in common English to express a choice among multiple alternatives. However, the word "MAY" in RFC2119 does not have this meaning.~~ ~~Here is an excerpt from RFC 2119:~~ ~~MAY This word, or the adjective "OPTIONAL", mean that an item is truly optional. One vendor may choose to include the item because a particular~~	~~Change "MAY" to "MUST".~~	Fixed

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				marketplace requires it or because the vendor feels that it enhances the product while another vendor may omit the same item. [...]		
88	9.2	1959		It would seem sensible to define the type ActionType as an extension of ExtensibleObjectType.	Consider defining ActionType as an extension of ExtensibleObjectType	Fixed as suggested.
89	9.2.2	1971		The table does not include a row for the element <AffectedObjectRefs>	Add a row for <AffectedObjectRefs>	Fixed
90	9.2.2	1971		In this table, the type of the element <AffectedObjects> is erroneously specified as ObjectRefListType.	Change "ObjectRefListType" to "RegistryObjectListType"	Fixed
91	9.2.2	1971		In this table, the cardinality of the element <AffectedObjects> is erroneously specified as 1..*.	Change "1..*" to "0..1"	Fixed
92	9.2.2	1971		In this table, the type of the attribute "eventType" is erroneously specified as "URI"	Change "URI" to "objectReferenceType"	Fixed
93	9.2.2	1989		Spelling/grammar	- In the third row of the table, change "that that" to "that" - In the fourth row of the table, make the same change	Fixed
94	9.3.3	2036		In this table, the cardinality of the attribute endTime is erroneously specified as 1.	Change "1" to "0..1"	Fixed

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95	9.3.3	2042-2043		Spelling/grammar	Change "any time any time" to "any time"	Not found
96	9.3.3	2049		Spelling/grammar	Change "client's" to "client"	Fixed
97	9.4	2063		In the specification of this type, the base type (formerly, the Superclass or "Extends") is not mentioned	Add a line: "Base type: ExtensibleObjectType".	Fixed
98	9.4.2	2082		In this table, the cardinality of the attribute notificationOption is erroneously specified as "1".	Change "1" to "0..1"	Fixed
99	9.4.2	2098		This sentence is imprecise, as it seems to imply that a character string such as "soap:http://www.acme.com/notificationListener" is a URL, which is not true.	Change; "MUST be a URL with a special prefix of "soap:" to: "MUST be a string consisting of the prefix "soap:" immediately followed by a URL"	
100	9.4.2	2100		This sentence is imprecise, as it seems to imply that a character string such as "rest:http://www.acme.com/notificationListener" is a URL, which is not true.	Change; "MUST be a URL with a special prefix of "rest:" to: "MUST be a string consisting of the prefix "rest:" immediately followed by a URL"	Fixed

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~~101~~	~~9.5.3~~	~~2136~~		~~In this table, the cardinality of the element <Event> is erroneously specified as 1.~~	~~Change "1" to "1..*".~~	Fixed
102	10.2.1	2180-2184		An enumeration of string values ("RegistryLite", "RegistryFull") is specified for this attribute. Why not define a canonical classification scheme instead? We believe this would be more consistent with the philosophy of RegRep.	Define a new canonical classification scheme for conformance profiles. Change the type of the attribute "conformanceProfile" to an objectReferenceType which is to point to a classification node. Make any other changes to the specification that are required.	
103	10.2.3	2205		In this table, the type of the attribute conformanceProfile is specified as objectReferenceType. This is wrong according to the schema, where the type is currently specified as an enumeration of string values. However, this will be correct if comment #102 is accepted.	- If comment #102, is accepted, do nothing. - If comment #102 is not accepted, then change "objectReferenceType" to "RegistryFull or RegistryLate"	
104	10.2.3	2205		In this table, the cardinality of the attribute conformanceProfile is erroneously specified as "1".	Change "1" to "0..1"	Fixed
105	10.2.3	2214		Spelling	- Change "registryLite" to "RegistryLite" (uppercase "R") - Change "registryFull" to "RegistryFull" (uppercase "R")	Fixed
106	10.3	2226		The base type of FederationType is RegistryObjectType, not ExtensibleObjectType	Change "ExtensibleObjectType" to "RegistryObjectType"	Fixed

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107	10.3.3	2258		In the table, the cardinality of the "replicationSyncLatency" attribute is specified as "No"	Change "No" to "0..1".	Fixed

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