Release Notes

April 13, 2009

RIXML Specification Version 2.3

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Overview
RIXML version 2.3 is principally motivated by the desire to improve clarity and respond to lessons learned from using the schema in production over an extended period of time. The organization has received excellent feedback from its member firms stemming from implementation projects and substantial exposure to real instance documents produced industry-wide.

We’ve improved the definitions of more than 120 of the enumerated values governing restricted tags throughout the schema. We hope this will reduce confusion and corral the breadth of interpretations for these values we’ve seen in the field.

We’ve also seen many cases where publishers elected to populate tags with default values in the absence of reliable, accurate values. This practice leads to inaccurate tags, which, naturally, we view as worse than absent tags. So, we’ve loosened tag cardinalities where beneficial.

Version 2.3 does not break backward-compatibility with version 2.2. That is, a RIXML instance document that validates against version 2.2 will also validate against version 2.3.

Changes
This section itemizes the changes made between version 2.2 and version 2.3.

IssuerID
- Added the value ExchangeTicker to the list of possible values for the IssuerSecurityIDTypeEnum enumeration governing the idType attribute.

SecurityID
- Added the value ExchangeTicker to the list of possible values for the IssuerSecurityIDTypeEnum enumeration governing the idType attribute.

TradingExchange
- Added the new ISO10383ExchangeType simple type, which is a string of four upper-case alpha characters. The values are to be taken from the ISO 10383 Market Identifier Code found at the following web address – (http://www.iso15022.org/MIC/homepageMIC.htm).
- Added the optional attribute tradingExchangeCode to the TradingExchange element. The tradingExchangeCode attribute is of the new ISO10383ExchangeType simple type.

OrganizationID
- Modified the cardinality of the existing OrganizationID element from “one-to-many” to “zero-to-many” relative to its existing parent element Organization. This effectively makes the OrganizationID element optional. It is not required by all RIXML consumers, nor is it typically useful when RIXML is used internally by a publisher.

Issuer
- Added the value Reiterate to the list of possible values for the WeightingActionEnum enumeration governing the weightingAction attribute.
- Added the value RatingRestored to the list of possible values for the RatingActionEnum enumeration governing the ratingAction attribute.
Security
- Added the value Reiterate to the list of possible values for the WeightingActionEnum enumeration governing the weightingAction attribute.
- Added the value Reiterate to the list of possible values for the TargetPriceEnum enumeration governing the targetPriceAction attribute.
- Added the value RatingRestored to the list of possible values for the RatingActionEnum enumeration governing the ratingAction attribute.

AssetClass
- Added the value Reiterate to the list of possible values for the WeightingActionEnum enumeration governing the weightingAction attribute.

AssetType
- Added the value Reiterate to the list of possible values for the WeightingActionEnum enumeration governing the weightingAction attribute.

SecurityType
- Added the value Reiterate to the list of possible values for the WeightingActionEnum enumeration governing the weightingAction attribute.

Country
- Added the value Reiterate to the list of possible values for the WeightingActionEnum enumeration governing the weightingAction attribute.
- Added the value RatingRestored to the list of possible values for the RatingActionEnum enumeration governing the ratingAction attribute.

Region
- Added the value Reiterate to the list of possible values for the WeightingActionEnum enumeration governing the weightingAction attribute.
- Added the value RatingRestored to the list of possible values for the RatingActionEnum enumeration governing the ratingAction attribute.
- Added the value Americas to the list of possible values for the RegionTypeEnum enumeration governing the regionType attribute.
- Added the value EMEA to the list of possible values for the RegionTypeEnum enumeration governing the regionType attribute.
- Added the value AsiaPacific to the list of possible values for the RegionTypeEnum enumeration governing the regionType attribute.
- Added the value Oceana to the list of possible values for the RegionTypeEnum enumeration governing the regionType attribute.
- Added the value Caribbean to the list of possible values for the RegionTypeEnum enumeration governing the regionType attribute.

SectorIndustry
- Added the value Reiterate to the list of possible values for the WeightingActionEnum enumeration governing the weightingAction attribute.
- Added the value RatingRestored to the list of possible values for the RatingActionEnum enumeration governing the ratingAction attribute.
- Added the value TRBC to the list of possible values for the SectorIndustryClassificationTypeEnum enumeration governing the classificationType attribute.
- Added the value FactSet to the list of possible values for the SectorIndustryClassificationTypeEnum enumeration governing the classificationType attribute.
**AudienceTypeEntitlement**
- Added the new optional attribute `entitlementContext` to the existing `AudienceTypeEntitlement` element. Indicates the context in which the entitlement applies -- typically given as a mnemonic for an individual vendor platform. This facilitates the presently common usage of this element as a means of including vendor-specific entitlement codes in a RIXML instance document.

**Person**
- Added the new `PersonLabel` element as a sub-element of the existing `Person` element, with a cardinality of “zero-to-many”. This element can be used to include a label by which this person is known in a specific context. Useful for supplying author codes that have meaning on individual vendor platforms.

**PersonLabel**
- Added the new optional attribute `personLabelContext` to the new `PersonLabel` element. This attribute must be used to indicate the specific context for the person label. This would typically be a mnemonic for an individual vendor platform in which the labeled person has a presence. For example, it may be useful for identifying authors of research contributed to a particular vendor platform.

**FinancialValue**
- Added the optional attribute `estimateAction` to the existing `FinancialValue` element, governed by the existing `EstimateEnum` enumeration. If a particular financial value is an estimate, this `estimateAction` attribute can be used to indicate an action, such as reiterate or upgrade, that applies. Intended to provide support for the case where an author is including more than one estimate action in the same report. For example, reiterating his current fiscal year estimate and upgrading his next fiscal year estimate.

**ProductDetails**
- Modified the cardinality of the existing `periodicalIndicator` attribute from required to optional. This change is intended to provide a better solution to those for whom periodical information is unavailable. There have been cases reported of publishers inappropriately defaulting to either Yes or No for all published research, leading to dilution of the tag’s meaning. Making this attribute optional permits omission of the tag in the absence of an accurate value.

**ProductClassifications**
- Added the new sub-element `Currency` to the existing parent element `ProductClassifications` with cardinality “zero-to-many”. Some research products discuss financial values without mapping to any issuers or securities. Having currency as a possible product classification enables more accurate tagging in those cases. This element requires that a specific currency is indicated. For products discussing currencies in general, publishers should tag the asset class as currencies.

**Currency**
- Added the new required `currency` attribute to the new `Currency` element. Represented by the three letter alpha code defined by ISO 4217.

**ProductFocus**
- Modified the cardinality of the existing `ProductFocus` element from “one-to-many” to “zero-to-many” relative to its existing parent element `ProductDetails`. This effectively makes the `ProductFocus` element optional. This change is intended to provide a better solution to those for whom focus information is unavailable. There have been cases reported of publishers
inappropriately defaulting to a single value for all published research, leading to dilution of the tag’s meaning. Making this element optional permits omission of the tag in the absence of an accurate value.

- Added the value *Unfocused* to the list of possible values for the *FocusEnum* enumeration governing the *focus* attribute. Intended to identify unfocused reports or reports not easily categorized by the other *FocusEnum* values, but still evaluated properly.

### Index

- Modified the cardinality of the existing *name* attribute from required to optional. The *name* attribute and the corresponding existing element *PublisherDefinedValue* are DEPRECATED with this schema release. Using an enumerated index name has proven to be impractical due to the challenges associated with keeping the list of permitted values up to date. The new method for identifying indexes is by ID, such as CUSIP or SEDOL via the new *IndexID* element.
- Added the optional attribute *displayName* to the existing *Index* element.

### IndexID

- Added the *IndexID* element as a sub-element of the existing *Index* element, with a cardinality of “zero-to-many”. This element replaces the now deprecated *name* attribute and corresponding *PublisherDefinedValue* element of the parent *Index* element.
- Added the required attribute *idType* to the new *IndexID* element. This attribute indicates the type of the symbol used to identify the index.
- Added the optional attribute *publisherDefinedValue* to the new *IndexID* element. This attribute indicates the type of the symbol used to identify the index when the value of the corresponding *idType* attribute is *PublisherDefined*.
- Added the required attribute *idValue* to the new *IndexID* element. This attribute contains the actual value of the identifier for the index.
- Added the value *ExchangeTicker* to the list of possible values for the *IssuerSecurityIDTypeEnum* enumeration governing the *idType* attribute.

### Resource

- Added the new optional *Price* element as a sub-element of the existing *Resource* element, with a type of decimal. This will provide a way for publishers to indicate the price of a particular piece of content – i.e. a particular RIXML product.

### Price

- Added the new required *currency* attribute to the new *Price* element. Represented by the three letter alpha code defined by ISO 4217.

### Non-Structural Changes

This section itemizes the non-structural changes made between version 2.2 and version 2.3. They do not impact RIXML instance documents at all.

### AssetTypeEnum

- Modified the definition of the existing enumeration *Stock* in the existing *AssetTypeEnum* simpleType.
- Modified the definition of the existing enumeration *Convertible* in the existing *AssetTypeEnum* simpleType.
- Modified the definition of the existing enumeration *USTreasuries* in the existing *AssetTypeEnum* simpleType.
• Modified the definition of the existing enumeration *SovereignCredit* in the existing *AssetTypeEnum* simpleType.
• Modified the definition of the existing enumeration *AgencyCredit* in the existing *AssetTypeEnum* simpleType.
• Modified the definition of the existing enumeration *MoneyMarketCredit* in the existing *AssetTypeEnum* simpleType.
• Modified the definition of the existing enumeration *CorporateInvestmentGradeCredit* in the existing *AssetTypeEnum* simpleType.
• Modified the definition of the existing enumeration *CorporateHighYieldCredit* in the existing *AssetTypeEnum* simpleType.
• Modified the definition of the existing enumeration *MortgageBackedCredit* in the existing *AssetTypeEnum* simpleType.
• Modified the definition of the existing enumeration *MunicipalCredit* in the existing *AssetTypeEnum* simpleType.
• Modified the definition of the existing enumeration *AssetBackedCredit* in the existing *AssetTypeEnum* simpleType.
• Modified the definition of the existing enumeration *EmergingMarketsSovereign* in the existing *AssetTypeEnum* simpleType.
• Modified the definition of the existing enumeration *EmergingMarketsCredit* in the existing *AssetTypeEnum* simpleType.
• Modified the definition of the existing enumeration *SupranationalCredit* in the existing *AssetTypeEnum* simpleType.
• Modified the definition of the existing enumeration *CollateralizedDebtObligations* in the existing *AssetTypeEnum* simpleType.
• Modified the definition of the existing enumeration *Credit* in the existing *AssetTypeEnum* simpleType.
• Modified the definition of the existing enumeration *ProvincialRegionalCredit* in the existing *AssetTypeEnum* simpleType.
• Modified the definition of the existing enumeration *Loans* in the existing *AssetTypeEnum* simpleType.
• Modified the definition of the existing enumeration *EuropeanCoveredBond* in the existing *AssetTypeEnum* simpleType.
• Modified the definition of the existing enumeration *Derivatives* in the existing *AssetTypeEnum* simpleType.
• Modified the definition of the existing enumeration *FinancialFutures* in the existing *AssetTypeEnum* simpleType.
• Modified the definition of the existing enumeration *EquityFunds* in the existing *AssetTypeEnum* simpleType.
• Modified the definition of the existing enumeration *BondFunds* in the existing *AssetTypeEnum* simpleType.
• Modified the definition of the existing enumeration *MoneyMarketFunds* in the existing *AssetTypeEnum* simpleType.
• Modified the definition of the existing enumeration *CountryFunds* in the existing *AssetTypeEnum* simpleType.
• Modified the definition of the existing enumeration *BalancedFunds* in the existing *AssetTypeEnum* simpleType.
• Modified the definition of the existing enumeration *CurrencyCash* in the existing *AssetTypeEnum* simpleType.
• Modified the definition of the existing enumeration *CurrencyDerivatives* in the existing *AssetTypeEnum* simpleType.
• Modified the definition of the existing enumeration *CurrencyFutures* in the existing *AssetTypeEnum* simpleType.
• Modified the definition of the existing enumeration *CommodityFunds* in the existing *AssetTypeEnum* simpleType.
SecurityTypeEnum

- Modified the definition of the existing enumeration Bonds in the existing SecurityTypeEnum simpleType.
- Modified the definition of the existing enumeration DiscountNotesAndBills in the existing SecurityTypeEnum simpleType.
- Modified the definition of the existing enumeration FixedRateNotes in the existing SecurityTypeEnum simpleType.
- Modified the definition of the existing enumeration FloatingRateNotes in the existing SecurityTypeEnum simpleType.
- Modified the definition of the existing enumeration MediumTermNotes in the existing SecurityTypeEnum simpleType.
- Modified the definition of the existing enumeration CommercialPaper in the existing SecurityTypeEnum simpleType.
- Modified the definition of the existing enumeration BankerAcceptances in the existing SecurityTypeEnum simpleType.
- Modified the definition of the existing enumeration Deposits in the existing SecurityTypeEnum simpleType.
- Modified the definition of the existing enumeration EuroBonds in the existing SecurityTypeEnum simpleType.
- Modified the definition of the existing enumeration EuroDenominatedNotes in the existing SecurityTypeEnum simpleType.
- Modified the definition of the existing enumeration InflationLinkedBonds in the existing SecurityTypeEnum simpleType.
- Modified the definition of the existing enumeration Strips in the existing SecurityTypeEnum simpleType.
- Modified the definition of the existing enumeration Repo in the existing SecurityTypeEnum simpleType.
- Modified the definition of the existing enumeration SamuraiNotes in the existing SecurityTypeEnum simpleType.
- Modified the definition of the existing enumeration YankeeNotes in the existing SecurityTypeEnum simpleType.
- Modified the definition of the existing enumeration ConvertiblePreferred in the existing SecurityTypeEnum simpleType.
- Modified the definition of the existing enumeration ConvertibleStructured in the existing SecurityTypeEnum simpleType.
- Modified the definition of the existing enumeration Warrants in the existing SecurityTypeEnum simpleType.
- Modified the definition of the existing enumeration Futures in the existing SecurityTypeEnum simpleType.
- Modified the definition of the existing enumeration Swaps in the existing SecurityTypeEnum simpleType.
- Modified the definition of the existing enumeration Options in the existing SecurityTypeEnum simpleType.
- Modified the definition of the existing enumeration Swaptions in the existing SecurityTypeEnum simpleType.
- Modified the definition of the existing enumeration StructuredNotes in the existing SecurityTypeEnum simpleType.
- Modified the definition of the existing enumeration PrivatePlacements144A in the existing SecurityTypeEnum simpleType.
- Modified the definition of the existing enumeration Common in the existing SecurityTypeEnum simpleType.
- Modified the definition of the existing enumeration Preferred in the existing SecurityTypeEnum simpleType.
• Modified the definition of the existing enumeration \textit{ADRGDR} in the existing \texttt{SecurityTypeEnum} simpleType.
• Modified the definition of the existing enumeration \textit{ClosedEndFund} in the existing \texttt{SecurityTypeEnum} simpleType.
• Modified the definition of the existing enumeration \textit{OpenEndFund} in the existing \texttt{SecurityTypeEnum} simpleType.
• Modified the definition of the existing enumeration \textit{Gold} in the existing \texttt{SecurityTypeEnum} simpleType.
• Modified the definition of the existing enumeration \textit{Silver} in the existing \texttt{SecurityTypeEnum} simpleType.
• Modified the definition of the existing enumeration \textit{Steel} in the existing \texttt{SecurityTypeEnum} simpleType.
• Modified the definition of the existing enumeration \textit{Aluminum} in the existing \texttt{SecurityTypeEnum} simpleType.
• Modified the definition of the existing enumeration \textit{Platinum} in the existing \texttt{SecurityTypeEnum} simpleType.
• Modified the definition of the existing enumeration \textit{Copper} in the existing \texttt{SecurityTypeEnum} simpleType.
• Modified the definition of the existing enumeration \textit{Soybeans} in the existing \texttt{SecurityTypeEnum} simpleType.
• Modified the definition of the existing enumeration \textit{Wheat} in the existing \texttt{SecurityTypeEnum} simpleType.
• Modified the definition of the existing enumeration \textit{Corn} in the existing \texttt{SecurityTypeEnum} simpleType.
• Modified the definition of the existing enumeration \textit{Coffee} in the existing \texttt{SecurityTypeEnum} simpleType.
• Modified the definition of the existing enumeration \textit{Cocoa} in the existing \texttt{SecurityTypeEnum} simpleType.
• Modified the definition of the existing enumeration \textit{OrangeJuice} in the existing \texttt{SecurityTypeEnum} simpleType.
• Modified the definition of the existing enumeration \textit{Cotton} in the existing \texttt{SecurityTypeEnum} simpleType.
• Modified the definition of the existing enumeration \textit{Sugar} in the existing \texttt{SecurityTypeEnum} simpleType.
• Modified the definition of the existing enumeration \textit{Livestock} in the existing \texttt{SecurityTypeEnum} simpleType.
• Modified the definition of the existing enumeration \textit{JetFuel} in the existing \texttt{SecurityTypeEnum} simpleType.
• Modified the definition of the existing enumeration \textit{Gasoline} in the existing \texttt{SecurityTypeEnum} simpleType.
• Modified the definition of the existing enumeration \textit{Gas} in the existing \texttt{SecurityTypeEnum} simpleType.
• Modified the definition of the existing enumeration \textit{Crude} in the existing \texttt{SecurityTypeEnum} simpleType.
• Modified the definition of the existing enumeration \textit{Electricity} in the existing \texttt{SecurityTypeEnum} simpleType.
• Modified the definition of the existing enumeration \textit{EuroDollars} in the existing \texttt{SecurityTypeEnum} simpleType.
• Modified the definition of the existing enumeration \textit{Currency} in the existing \texttt{SecurityTypeEnum} simpleType.
• Modified the definition of the existing enumeration \textit{GermanPfandbrief} in the existing \texttt{SecurityTypeEnum} simpleType.
• Modified the definition of the existing enumeration \textit{FrenchObligationsFoncieres} in the existing \texttt{SecurityTypeEnum} simpleType.
• Modified the definition of the existing enumeration SpanishCedulaHipotecaria in the existing SecurityTypeEnum simpleType.
• Modified the definition of the existing enumeration LuxembourgLettresDeGage in the existing SecurityTypeEnum simpleType.
• Modified the definition of the existing enumeration REITS in the existing SecurityTypeEnum simpleType.
• Modified the definition of the existing enumeration ETF in the existing SecurityTypeEnum simpleType.
• Modified the definition of the existing enumeration Genussescheine in the existing SecurityTypeEnum simpleType.
• Modified the definition of the existing enumeration ParticipationCertificates in the existing SecurityTypeEnum simpleType.
• Modified the definition of the existing enumeration BulldogBonds in the existing SecurityTypeEnum simpleType.

SubjectEnum

• Modified the definition of the existing enumeration AccountingAndTaxPolicy in the existing SubjectEnum simpleType.
• Modified the definition of the existing enumeration EarningsReview in the existing SubjectEnum simpleType.
• Modified the definition of the existing enumeration EarningsPreview in the existing SubjectEnum simpleType.
• Modified the definition of the existing enumeration MorningCall in the existing SubjectEnum simpleType.
• Modified the definition of the existing enumeration InitialPublicOfferings in the existing SubjectEnum simpleType.
• Modified the definition of the existing enumeration ManagementChange in the existing SubjectEnum simpleType.
• Modified the definition of the existing enumeration MergerAcquisitionDivestiture in the existing SubjectEnum simpleType.
• Modified the definition of the existing enumeration FiscalPolicy in the existing SubjectEnum simpleType.
• Modified the definition of the existing enumeration MonetaryPolicy in the existing SubjectEnum simpleType.
• Modified the definition of the existing enumeration EconomicForecast in the existing SubjectEnum simpleType.
• Modified the definition of the existing enumeration SecondaryPublicOfferings in the existing SubjectEnum simpleType.
• Modified the definition of the existing enumeration Regulations in the existing SubjectEnum simpleType.
• Modified the definition of the existing enumeration StockRepurchase in the existing SubjectEnum simpleType.
• Modified the definition of the existing enumeration SurveyAnalysisAndResults in the existing SubjectEnum simpleType.
• Modified the definition of the existing enumeration Politics in the existing SubjectEnum simpleType.
• Modified the definition of the existing enumeration Event in the existing SubjectEnum simpleType.
• Modified the definition of the existing enumeration AssetAllocation in the existing SubjectEnum simpleType.
• Modified the definition of the existing enumeration GrowthInvestment in the existing SubjectEnum simpleType.
• Modified the definition of the existing enumeration ValueInvestment in the existing SubjectEnum simpleType.
• Modified the definition of the existing enumeration DebtTender in the existing SubjectEnum simpleType.
• Modified the definition of the existing enumeration BondRedemption in the existing SubjectEnum simpleType.
• Modified the definition of the existing enumeration BuyAndHoldInvestment in the existing SubjectEnum simpleType.
• Modified the definition of the existing enumeration TotalReturnInvestment in the existing SubjectEnum simpleType.
• Modified the definition of the existing enumeration CreditAnalysis in the existing SubjectEnum simpleType.
• Modified the definition of the existing enumeration ModelPortfolio in the existing SubjectEnum simpleType.
• Modified the definition of the existing enumeration PortfolioStrategy in the existing SubjectEnum simpleType.
• Modified the definition of the existing enumeration PrepaymentAnalysis in the existing SubjectEnum simpleType.
• Modified the definition of the existing enumeration ProprietaryIndex in the existing SubjectEnum simpleType.
• Modified the definition of the existing enumeration Recommendations in the existing SubjectEnum simpleType.
• Modified the definition of the existing enumeration RelativeValue in the existing SubjectEnum simpleType.
• Modified the definition of the existing enumeration SpreadAnalysis in the existing SubjectEnum simpleType.
• Modified the definition of the existing enumeration TradeIdea in the existing SubjectEnum simpleType.

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