RIXML
Research Information Exchange Markup Language

RIXML Research Standard 3.0 DRAFT Data Dictionary

Based on RIXML 3.0 public comment period release candidate

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RIXML Research:
a standardized way to describe investment research

The RIXML Research Standard is a custom XML definition that provides a standardized, flexible, and comprehensive mechanism for describing investment research content.

For all types of investment research
company reports | models | sector, industry, country, and region overviews | macroeconomic analysis | thematic research | podcasts | webinars

For all formats
PDF | Excel | text files | XML | HTML | audio | video

For all distribution channels
publisher's website | aggregation platforms | direct feeds | custom solutions

For all tasks
describe | distribute | categorize | aggregate | search | compare | sort | search | distill

Executive Summary

Background

Investment research takes many forms: in-depth company reports; models; macroeconomic research; company, industry, country, and region overviews; conference call replays; morning meeting compilations; webinars; podcasts; and more. Sellside firms and other publishers need to share details about this content for a variety of reasons – to populate the databases that power traditional search and alert tools, to help AI-powered research analysis tools locate relevant content more quickly, to facilitate incorporating research readership data into broker vote tools, etc.

RIXML member firms recognized that while every research report is unique, the information that must be captured and communicated about investment research is not. Working together, our member firms developed the RIXML Research Standard, an XML standard that provides a flexible set of tags, rules, and guidelines for describing a wide variety of investment research content. Since this standard was developed by buyside firms, sellside firms, and vendors, it contains the tags and structure to accommodate the needs of all types of firms.

Want to learn more?

See the RIXML website (RIXML.org) for more information about

- what metadata is and why it is important
- the RIXML standards
- how RIXML metadata improves all parts of the investment research lifecycle
- the RIXML organization
- benefits of membership

How do the RIXML standards work?

RIXML tagging powers the tools that create, capture, communicate, aggregate, and analyze investment research content. It also increases the speed and efficiency of AI analysis tools by providing the metadata that describes investment research in a standardized format used across the industry.

The RIXML Research Standard provides a flexible way to describe a wide range of research content types and topics, to describe them with as little or as much data as needed, and to provide connections to other related research content.

The metadata in the RIXML research record that is published alongside each research report, model, or other content is designed to meet the needs of both the humans and the systems that will be using it. It includes tagging that describes the publisher and author of the research report, provides details about the purpose and topics discussed, and facilitates content management and recordkeeping.

The tags and rules that define the standard are collected and described in the RIXML schema files. These are a set of specialized XML files. They contain the detailed list of tags used in the RIXML Research Standard, the rules that govern them, and the pre-defined terms that are valid for enumerated fields. This schema files can also be used to validate actual RIXML Research instance documents to ensure that the firm implementing the standard is creating RIXML Research-compliant content.

RIXML Research:
Reducing friction across all parts of the investment research lifecycle

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Notices

Copyright and license

The RIXML Standards Suite uses supporting materials that are either in the public domain or are available by the permission of their respective copyright holders.

Providing feedback

This Data Dictionary and the RIXML Standards Suite 3.0 release candidate it describes are currently in a public comment period that is expected to conclude on October 30, 2026.

Contact the RIXML Program office (rixml_info@rixml.org) with questions, comments, and suggestions. As you review this document and begin testing the RIXML 3.0 release candidate, we encourage you to let us know of any questions, roadblocks, or challenges you encounter or any suggestion you have.

IMPORTANT: This document and the related RIXML Standards Suite schema files are drafts and should not be used as the basis for development. The final production release will be issued after updates identified during the public comment period have been incorporated. This document is intended to be used for becoming familiar with the 3.0 standards, for identifying issues, and for planning purposes only.

Disclaimer

The information contained in this document was developed by participating RIXML member firms with input from RIXML member firms and others. It does not necessarily represent the views or opinions of RIXML or any individual member firm. RIXML and its members hereby disclaim any and all liability resulting from all claims, losses or damages, whether direct, indirect, incidental, or consequential arising from any and all use of these Standards. RIXML is not responsible for any errors or omissions in the information contained in this document. RIXML and its affiliates make no warranties or representations and disclaim all express, implied and statutory warranties of any kind to any party resulting from the use of these Standards.

Background

About RIXML

RIXML is financial industry technology standards group dedicated to reducing friction across all parts of the investment research distribution lifecycle. Member firms include buyside firms, sellside firms, and vendors who provide products and services to support the process of creating, aggregating, and consuming investment research and interaction data.

The individuals who represent their firms include both IT experts and business-side content experts who represent the analysts, portfolio managers, and others who both produce and consume investment research.

About the RIXML Research Standard

The primary objective of the RIXML Research Standard is to provide extensive capabilities for enhancing any piece of financial research content, in any form or media, with sufficient tagging (also called metadata) to allow research users to search, sort, commingle, parse, and filter the published research in order to deliver highly relevant information to decision-makers. The RIXML Research Standard is part of the RIXML StandardsS Suite, which also includes the RIXML Interactions Standard, the RIXML Roster Updates Standard, the RIXML Coverage Updates Standard, and the RIXML Series Inventory Standard.

About this Data Dictionary

This Data Dictionary provides the full set of tags used in the RIXML Research schema, along with definitions, best practices, and usage guidance, formatted in a way that is (for most users) easier to read than the actual XSD schema files. It explains the new structure and provides provide high-level information regarding the changes between the prior version (2.5) and this release candidate. Please note:

- **This document is a draft**; it is intended to provide reviewers of the RIXML 3.0 release candidate with sufficient information to begin understanding the structure of the Research standard and the purpose of its tags.
- We have tried to provide the information in this document in a way that makes it understandable to readers with a variety of levels of technical expertise. Our goal was to make it as useful for those with little understanding of how XML works as those with a deep understanding. See the XSD files themselves for technical details for any individual tag or tag set.
- This document is focused on the RIXML Research Standard; documentation for the other standards in the suite will be available in the near future.
- The definitions for the individual enumerations have been omitted in this draft; they will be added during the comment period.

RIXML Research release packet

This data dictionary is one part of the RIXML Research release packet. Please check the RIXML website (https://rixml.org/) to make sure you are using the most up-to-date release packet, which includes the following components:

- RIXML Research Data Dictionary (this document) – human-readable catalog of attributes and elements, with descriptions
- RIXML Research schema files
- A sample instance document providing an example of every element and tag. It does not represent what any individual RIXML file would look like; rather, it is a superset of all tags to be used for reference.

During the comment period, these files will available on the RIXML 3.0 Working Group page. They will be updated as needed, with update date and a list of updates available. Once finalized, these will become the current production version.

What's new in RIXML Standards Suite 3.0

Since the last version of the RIXML Standards Suite was released in 2017, there have been changes in many aspects of the investment research delivery lifecycle, including new formats, topics, regulations, and delivery mechanisms. We have also received change requests, both big and small, from member firms and others to address tagging needs not provided for in our current standards. The upcoming release of the RIXML Standards Suite has been developed to address the needs our member firms have identified, with an overall goal of improving findability. The key changes are:

Structural changes - streamlining, consistency, and new tag sets:

- The overall tag structure has been "flattened," replacing some cumbersome over-nesting with a more intuitive structure.
- The tag name conventions changed over the years, so this version renames some tags to provide consistency in the tag names and standardizes the method for handling tags that allow multiple values.
- Existing enumeration lists will be updated, adding terms in response to requests from member firms.
- The entitlements tagging options will be simplified to better reflect how entitlement tags are used (feedback indicates that the current version is "overbuilt" with many optional tags not being used).
- We are adding enhanced tagging for ESG-related content.
- We are combining the current asset class, asset type, and security type tag sets into a single tag set (called asset class) to better reflect the tree structure represented by the current tags, which treats them as independent tags.
- For tags that involve a tree structure (asset class, sector/industry, ESG, etc.), we are adding the ability to include parent/child terms as reference. This is intended to reduce the over-tagging that sometimes occurs when a publisher wants to ensure that a research item shows up in broader/narrower searches by adding tags for the parent and/or child term in addition to the one that most accurately describes the report's content.
- We have removed some unused tags, such as the Price tag.
- We have merged the Subject and Specialty tag sets and have merged, standardized, and enhanced the remaining enumeration list.
- We are enhancing the standard's ability to describe audio, video, interactive content, and content beyond traditional written research formats.
- We are adding new research item types: podcast, interview, panel discussion, etc.

Componentization

- When a single research item contains more than one file (such as including a PDF, a linkback link, and a text version of a report, or a podcast audio file and its transcript), the Resource list will now better describe each file.
- We are also introducing the ability to tag components within a report (such as to indicate that chart A is about company X, chart B is about companies X and Y, etc.). This will improve findability for individual charts, graphs, images, etc. contained within a research report.
- We are adding a component catalog that lets a publisher describe one or more parts inside a report: embedded videos, charts, etc. (called ComponentList)

Multi-audience support:

- We are streamlining and enhancing the ability to provide tag variations, such as to provide titles, abstracts, etc. in different languages, to allow different titles for different audiences, etc.

Making connections:

- We are enhancing the ability to indicate related content – a model that is related to a company report, a dataset used when creating a macroeconomic report, company reports that relate to an industry overview report, a translation of a report, an interaction that is related to a research item, etc., and adding more options in the list of relationship types.
- We are introducing a new RIXML "Series Inventory" schema to provide a mechanism to organize episodic content; this will include the ability to list the individual reports contained in a series and to tag and describe the series itself.
- We are adding the ability to include "expected search terms" that a publisher would like to include to enhance findability.

Disclosures:

- We are introducing the ability to indicate additional types of content that are often published using the same tools as traditional research content and/or are distributed via the same mechanisms, including sponsored research, sales research, etc.
- We have renamed the Legal element to DisclosureList and simplified the options to better reflect real-world usage.
- We have added the ability to indicate whether automated tagging was used.

Introduction to RIXML 3.0

Key terms and concepts

Additional content will be added to this section during the comment period, but below is an overview of the various types of files we refer to in this documentation.

Types of files associated with the RIXML standards

We refer to many types of files in this Data Dictionary – the files that define the RIXML standards, the files that contain the RIXML metadata (tagging), and the files and links that make up the research content itself. The following terms are used throughout this document:

Schema files
This is a special type of XML file that defines the names, formats, and allowed values for the tags used in the RIXML standards. The RIXML Standards Suite is comprised of 7 schema files – 2 that are used across all of our standards, the rest that are used to define each of our XML standards. Developers use these files to create tools to create, parse, process, and validate RIXML metadata files. These are sometimes referred to as the definition files or the .XSD files (XSD is the file extension that indicates that the file contains a custom XML definition file).

Instance document
This is the XML file that contains the RIXML-formatted metadata used to describe a single research product. We often refer to this as a RIXML tag file, a RIXML record, or a RIXML instance file. It is the metadata file, not the actual research content being described by the metadata. Included in this metadata is a reference to the filename, HTML file location, or other identification of the research item being described. A RIXML instance document is sometimes referred to as a RIXML tagging file or a RIXML metadata file.

Research product
This is the content being described by an individual RIXML instance document. It is generally something that would be referred to as a research report, a model, or another type of similar related investment research content. We sometimes refer to this as an individual "research idea" to distinguish it from the actual file or web location used to convey the content.

Resource
The content that makes up one research product may be presented in one or more formats; each file or HTML location is one resource. For example, the same content may be provided as a PDF, a text file, and an HTML linkback link to facilitate accessing it by different audiences or for different purposes; these would be considered multiple resources of the same research product. Another example would be the transcript of a podcast being published alongside the audio or video file of a podcast; again, these would be two resources contained within one research product. Each file or HTML location in a research product is a separate resource, but they all contain the same "research idea." In many cases, each research product contains one resource; however, as publishers provide alternative ways to access or consume content, the use of multiple resources within a single research product is expected to become more common.

Component
A component is a sub-section of a research item, such as a chart, graph, paragraph, written or audio chapter, etc. The metadata for a component is not as robust as that of the full research item, since neither the component nor the metadata for it are meant to be standalone items. Component metadata allows the publishers to indicate the type, size, and location of the component, as well as to provide a high-level indication of its contents (the subject, company, industry, etc.), allowing end-users to more easily identify relevant subsections of research items.

Related product
It can be helpful for publishers to indicate a connection between two research products, such as indicating that a research report provides details and commentary for a model, or that one research report is intended to be an update to one published earlier.

Overview of the Research Standard

Each of the tags in the RIXML Research Standard exists to accomplish a specific task. Some tags exist to provide information about authorship, some exist to provide information about the research files the tagging is describing (or the URL that contains the research content), others exist to convey information about what the research item is *about* – what companies, countries, industries, etc. are being discussed.

Below is a high-level overview of the tags used in the Research standard **grouped by the task they perform**. This section does not fully describe any individual tag or tag set, but it does give a sense of how the tag sets generally work and what function they serve. The remainder of the document will provide details on each tag and tag set.

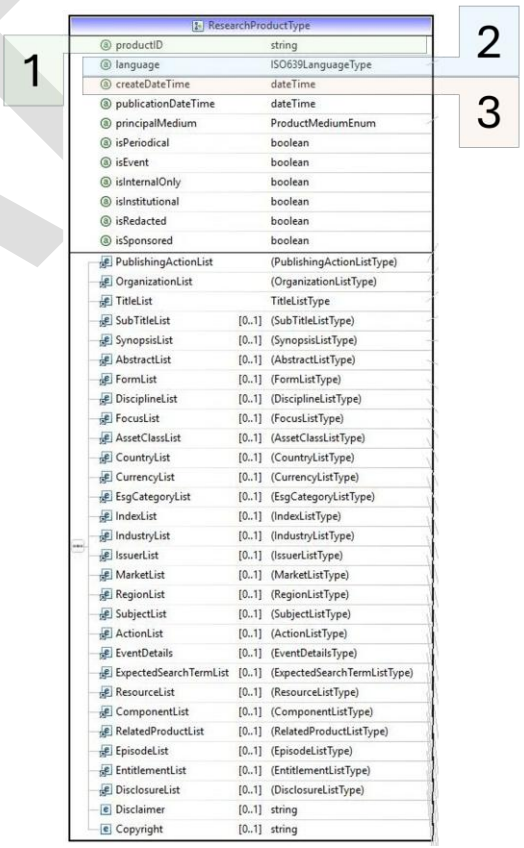
TASK 1:
Describe the RIXML Research tagging file

The file that contains the RIXML tagging that describes a research item (a research report, model, podcast, etc.) is called a *RIXML Research Instance Document*.

An Instance Document contains both information about the research item being described and about the instance document itself.

To describe the instance document, a publisher will

1. provide a unique identifier for the instance document
2. indicate the language used in the content of the instance document; this is usually (but not always) the same as the language used in the research item
3. indicate the date and time the instance document was created



TASK 2:

Provide information about the content this RIXML instance document is describing and its intended audience

Next, a publisher will:

1. indicate when the research item this RIXML instance document is describing was created.

Note the difference between the createDateTime from step 1:

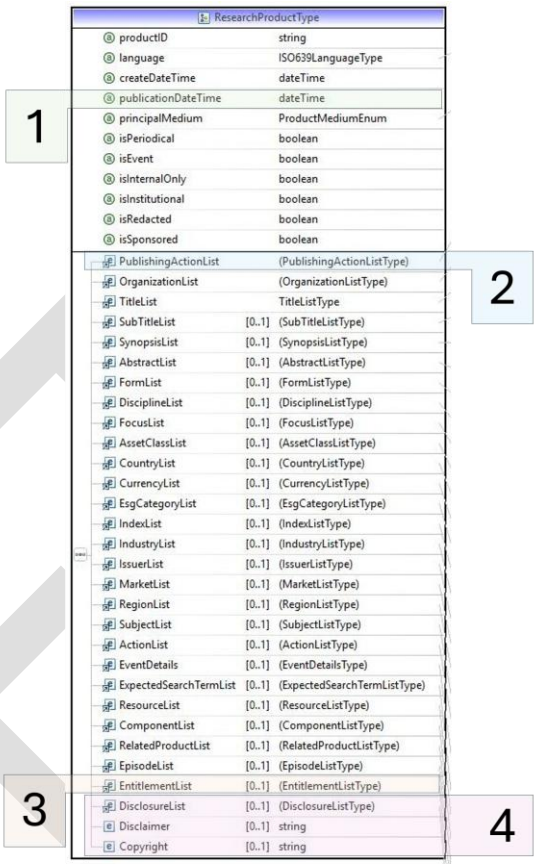
createDateTime = when the RIXML instance document (tagging file) was created

publicationDateTime = when the content this RIXML instance document is describing (the research report, model, or other research item) was published

2. indicate the initial publishing action or add a new publishing action, providing a timestamped history of all publication updates to this instance document and its contents.

3. provide the entitlement information for this research item, if desired.

4. add disclosures, disclaimers, and copyright information.



TASK 3:

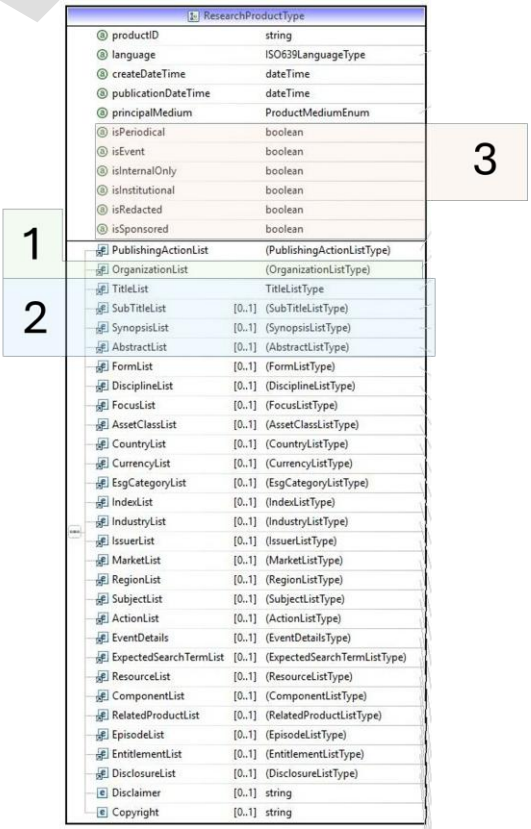
Provide high-level information about the research content being described

These tags provide information about the research item itself – who is publishing it, what it is called, etc. The publisher will:

1. provide authorship information.

2. provide title and summary information.

3. add content clarification flags (if needed).



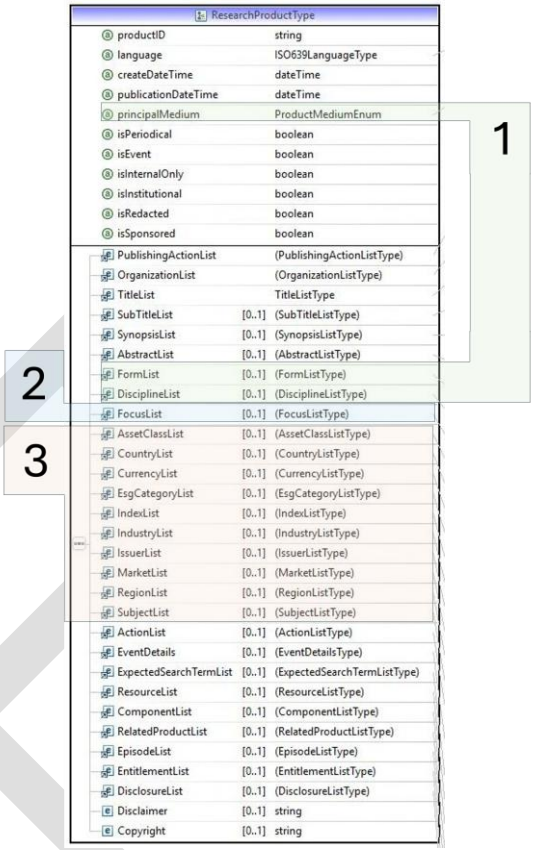
TASK 4:
Describe the subject matter of the research item

This is the tagging that explains what the research item is "about" – including indicating what the research item is mostly about as well as conveying the companies, industries, topics, etc. covered in the research item. This three-step process includes:

1. broadly describing the content and the research approach used to create it.
2. defining the main focus of the research item.
3. adding topic-related tags to describe the companies, industries, countries, subjects, etc. discussed in the research item.

The exact tags used will vary based on the focus.

Certain tags will be required, but publishers frequently add additional tags to further describe the content covered in the research item.



TASK 5:
Add special-use tags

Although not required for all research items, the following will be used when applicable:

1. the ActionList tag set is used to report a weighting, rating, coverage, or estimate change.
2. If necessary, the deprecated EventDetails tag can be used set to include event information in a Research item.

   (Note: we strongly recommend using the Interactions standard to describe events, as it has been designed specifically for this task; the Event tag set in the Research standard is only intended to convey a small amount of event-related data that might be relevant in the context of a research item.)
3. When needed, add *ExpectedSearchTerms*.

   This allows a publisher to add search terms a user is likely to use when looking for the content in this report, but that is not captured elsewhere in the tagging: the nickname of a research report series, an emerging or time-limited news topic, etc.

TASK 6:

Describe the research content and make connections

RIXML 3.0 significantly enhances the ability to make connections between and among research items.

1. describe the resource(s) that make up the research item this RIXML record is describing: the file name, length, etc.

Resource = the file, URL, or embedded data that contains the actual research content

2. The new Component tag list allows tagging to be added to describe individual sections and components of a research item, such as charts, chapters, or sections.

3. If the research item is part of a series, use the EpisodeList tag set to describe this episode; the new SeriesInventory standard allows publishers to describe the series and collect the episodes.

4. Use the RelatedProduct tag set to provide a reference from this research item to one or more related research items or interaction records.

The remainder of this document provides detailed information about the tag sets described above, presented in non-technical terms. Many of the definitions also include implementation notes, which will generally be of a more technical nature.

The Research Product

Key changes in 3.0

- The main schema file for the Research standard has always been fairly lightweight, housing the framework for describing an individual research item and pointing to the common schema file for the bulk of the tag definitions and to the enumerations list schema file for the valid terms for the elements and attribute tags that use them. In 3.0, the structure of the Research Standard has been flattened – made even more streamlined – with many elements moved to the top level of the standard.
- The top-level packages (Source, Contact, Content, Context, Legal, and Utility) that formerly held tags have been eliminated.
- To further streamline version 3.0, the Product element that was formerly nested inside the Research element has been removed.
- As with prior versions, tag re-use is employed whenever possible to make implementing and maintaining the standards more efficient. To further improve efficiency, we have introduced a few additional attribute groups (see appendix for details).
- V2.5 and earlier had significantly more named Types defined in the Common schema. This has been reduced to 6 named types in the current version, representing the tag sets that are used in multiple places throughout the Standards Suite.
- eventIndicator has been renamed to isEvent, and we have added isInternalOnly, isInstitutional, isRedacted, and isSponsored flags; use of these is defined below. All of these now use the XML xs:boolean data type rather than the RIXML-defined YesNoEnum that eventIndicator used in prior versions. YesNoEnum has been replaced by xs:Boolean throughout the standards.
- Finally, to add consistency and flexibility, nearly all of the tags within the ResearchProductType are presented as …List elements, most of which are optional. Each of these list elements, when used, holds one or more of the relevant elements; for example, the TitleList element can hold one or more Title elements, providing the ability to tailor the title to multiple audiences, present them in different languages, etc. (These are more fully explained below).

In an individual research product metadata file, only a few tag sets are required: the PublishingActionList allows for a timestamped record of changes made to a RIXML Research instance document and to the individual files or other resources contained in it, the OrganizationList allows publishers to indicate who is publishing it, and the TitleList allows publishers to indicate what the item is called. Although not required, the ResourceList is almost always used, as it contains the information about the research items that the RIXML tag file is describing – the company report PDF, model Excel file, interactive sector comparison tool on the publisher's website, etc. It is optional rather than required because there are rare circumstances when external content may not exist; for example, if the entirety of the information can be conveyed in the RIXML tag file, or when the record exists solely to describe an event. Publishers will mix and match the other tag sets as needed to describe the content of the individual research item being described.

The definitions of the tags used to create a RIXML Research metadata file, and the rules on their use, are contained in a set of three schema files: the RIXML Research schema file (named *RIXML-Research-3_0.xsd*) contains the tags required to describe a research item – a research report, a model, a podcast, etc. This .xsd file is very lightweight, relying heavily on the RIXML Common schema file (*RIXML-Common-3_0.xsd*) to hold and define most of the tags used to describe an individual research item, and on the RIXML Enumerations schema file (RIXML-Enumerations-3_0.xsd) to hold and define the valid terms (enumerations) for tags whose values are restricted to predefined lists. The Common and Enumerations schema files are also used by the other standards in the RIXML Standards Suite, allowing publishers to leverage the same tags for multiple purposes in a consistent, efficient manner.

The Research Product wrapper

The ResearchProduct element is the root tag for an individual RIXML record. Each RIXML record (the metadata file technically referred to as a RIXML *instance document*) describes a single research publication (a research report, a model, a morning meeting compilation, a financial podcast, a conference call webcast, etc.); RIXML calls each research item a *product*. Each individual research product receives a unique identifier, which is stored in the ResearchProduct.productID attribute. This serves as the unique identifier for the RIXML instance document.

The actual research content itself – whether delivered as files, links to a research item on the publisher's website, or (very rarely) self-contained within a RIXML instance document – are called *resources*. In many cases, there is one *resource* associated with one *product* – that is, one PDF, Excel file, linkback link, etc. that makes up the research item described by the RIXML record. However, it is possible for the research item to be comprised of multiple *resources*. This is becoming more common, particularly when the same content is distributed in multiple formats for both human consumption (as a PDF) and for ingestion into an AI-powered synthesis and analysis tool (as a text, HTML, XML, or other machine-readable format). The *ResourceList* container element can contain one or more *Resource* elements; each *Resource* element has an attribute – Resource.resourceID – that holds the unique identifier for that individual Resource.

Examples of multiple resources published with the same productID are:

- a research report accessed via a linkback link to the publisher's website, along with a PDF for consumers who choose not to access content outside of the aggregator's ecosystem and a TXT version for consumption by machine readable tools
- an audio file of a presentation and its transcript

In each of these examples, there is a single discrete research idea (the product) that is conveyed in multiple formats (the resources).

Note that RIXML 3.0 has also introduced support for tagging components within a research item. A component is a sub-section of a research report, such as a chapter, a section, a chart, or a table. The difference between a resource and a component is that a component is not a standalone research item, whereas if there are multiple resources in a RIXML instance document, they each represent the same research idea, but are simply expressed in either a different format or a different language.

Additionally, the RIXML Research Standard provides the ability to add information about related products. Many publishers choose to use this functionality to provide a connection from a research report to a translation of it, or from a podcast to its transcript, rather than including them as multiple resources within a single RIXML instance document. There are pros and cons with each approach, which we will document in the future.

Note that in prior versions of the Research standard, we indicated that each of the following examples could be handled as one product:

- a document published in English, with exact translations in German, French, and Japanese
- a single report that consists of a PDF and an Excel file

We no longer recommend treating these as multiple items within one research file; instead, we recommend publishing these different resources using separate ResearchProducts, with the connection being made using RelatedProduct.

ResearchProduct

ResearchProduct is the root tag for a RIXML research instance file. It is the top-level wrapper that contains all the tags and data required to describe an individual piece of investment research. It is defined by the ResearchProductType.

Attributes

productID **Required** **xs:string**

The unique identifier of this research product, and of this RIXML instance document.
Implementation note: To ensure uniqueness it is recommended that a UUID/GUID that follows RFC 9562/ISO 9834 standards be used as the productID.

createDateTime **Required** **xs:dateTime**

Indicates the date/time at which this RIXML instance document was formed.
Implementation note: This attribute uses the XML standard xs:dateTime datatype; additionally, time is required to be expressed using Coordinated Universal Time (UTC) for consistency. See details in enumeration list section.

publicationDateTime **Required** **xs:dateTime**

Indicates the date and time at which the ResearchProduct was officially published. This is the date and time that would appear on the content itself, such as on the cover page of a written report.
Implementation note: This attribute uses the XML standard xs:dateTime datatype; additionally, time is required to be expressed using Coordinated Universal Time (UTC) for consistency. See details in enumeration list section.

principalMedium **Optional** **rixmlenum:ProductMediumEnum**

Indicates the primary communication format for the ResearchProduct. This attribute provides a high-level indication of the "kind" of research being described (written, audio, data, etc.); the Form element provides a more granular indication (report, comment, model, etc.).
Implementation note: A ResearchProduct that is mainly a piece of written research with other media embedded as exhibits is still a piece of written research, with the principalMedium value of Written. However, if the main piece of content is a video, but is presented within a PDF "wrapper," the principalMedium value would be Video.

language **Required** **rixmlenum:ISO639LanguageType**

Indicates the language used for the metadata in the RIXML instance document; that is, the language used in the publisher-supplied tag values. It is also assumed to be the language used in the research content described by the RIXML metadata, although the publisher can override this if needed.
Implementation note: The language of each individual resource and each individual component can be set using the language attribute within each of those tag sets, if needed. Some other elements also allow the publisher to override this language, generally when multiples are allowed and the publisher may wish to provide the information in more than one language (e.g., title, report summary, author name).

isPeriodical **Optional** **xs:boolean**

Indicates whether the content is a periodical publication. Additional details can be conveyed using the SeriesInventory Standard that is being introduced in RIXML 3.0.
Implementation note: Default value is *False*, so can be omitted unless needed to indicate that isPeriodical=*True*.

isEvent **Optional** **xs:boolean**

Indicates that the content represents an Event rather than a traditional ResearchProduct.
Implementation note: Default value is *False*, so can be omitted unless needed to indicate that isEvent=*True*.

isInternalOnly **Optional** **xs:boolean**

Indicates that the content is for internal (within publisher's firm) consumption only.
Implementation note: Default value is *False*, so can be omitted unless needed to indicate that isInternalOnly=*True*. True would generally only be needed by firms using RIMXL metadata for internal, pre-publication processing or for content not intended for external publication.

isInstitutional **Optional** **xs:boolean**

A value of TRUE is intended to be used for all content published by an institutional research department, including research, models, event notifications, etc. (that is, the publishing *department* is the deciding factor, not whether the content is subject to FINRA rules 2241/2242 or other similar regulatory mandates).
Implementation note: there is no default value. The absence of this optional attribute does not mean that the flag can be assumed to be either true or false. Using this tag for all content is highly recommended for firms that publish content from other departments (sales, etc.) through the same distribution feed as institutional research.

isRedacted **Optional** **xs:boolean**

Indicates that the publisher has redacted this research product in some way; that is, some content has been obscured or removed relative to the full rendition, for example, if different versions are published for institutional vs. non-institutional audiences.
Implementation note: since this flag appears at the ResearchProduct level, a single RIXML instance document cannot include both a redacted and an unredacted version of the same research item. If needed, the RelatedProduct tag set can be used to make a connection between redacted and unredacted versions of the same research item.
Implementation note: Default value is *False*, so can be omitted unless needed to indicate that isRedacted=*True*.

isSponsored **Optional** **xs:boolean**

Indicates that this research product is sponsored research.
Implementation note: Default value is *False*, so can be omitted unless needed to indicate that isSponsored=*True*.

Complex elements

PublishingActionList	**Required**
OrganizationList	**Required**
TitleList	**Required**
SubTitleList	**Optional**
SynopsisList	**Optional**
AbstractList	**Optional**
FormList	**Optional**
FocusList	**Optional**
DisciplineList	**Optional**
ResourceList	**Optional**
ComponentList	**Optional**
EpisodeList	**Optional**
SubjectList	**Optional**
AssetClassList	**Optional**
IssuerList	**Optional**
IndustryList	**Optional**
IndexList	**Optional**
EsgCategoryList	**Optional**
CurrencyList	**Optional**
MarketList	**Optional**
CountryList	**Optional**
RegionList	**Optional**
ExpectedSearchTermList	**Optional**
EventDetails	**Optional**
ActionList	**Optional**
RelatedProductList	**Optional**
EntitlementList	**Optional**
DisclosureList	**Optional**

Elements

Disclaimer **Optional** **xs:string**

Any boilerplate disclaimer text the publisher elects to include with this ResearchProduct.
Implementation note: This element is used to capture the publisher's disclaimers regarding the research item as a whole (limit of liability, etc.). Any required disclosure text, such as that required to be disclosed regarding the firm's or author's connection to a company mentioned in the report, should be included in the separate DisclosureList element.

Copyright **Optional** **xs:string**

The copyright text associated with this ResearchProduct.

Publishing content

Key changes in 3.0

- StatusInfo has been renamed to PublishingAction
- PublishingActionList is now a top level element in the ResearchProduct element; the Legal package has been retired
- multiples are handled via the PublishingActionList
- currentStatusIndicator has been renamed isMostRecent
- An editorialComment attribute has been added to allow publishers to provide clarity regarding the reason for a publishing action change.

Capturing the publication lifecycle

The *PublishingActionList* allows for a timestamped record of changes made to a RIXML Research instance document and to the individual files or other resources contained in it; it is also used in our other standards for similar purposes. While many research items will simply be published, others may need to later be revised, recalled, deleted, have tags updated, or will otherwise require adjustments to the initial publication. *PublishingAction* is used as follows:

- In the *ResearchProduct* tag set in the Research standard, it indicates the publishing action being taken; it can refer to a change in the instance document and/or to one or more of the resources (files/URLs) or components that constitute the research being described.
- In the *CoverageUpdateType* definition in the Coverage Updates standard, a subset of the enumeration list values is used to indicate an addition, revision, or deletion to a coverage pairing.
- In the *RosterUpdateType* definition in the Roster Updates standard, a subset of the enumeration list values is used to indicate an addition, revision, or deletion to a roster update record.

Tags providing information about the publishing action

PublishingActionList

This is a container element for one or more individual PublishingAction elements. The list of PublishingAction elements in the PublishingActionList element provides a timestamped record of the creation of the RIXML record and any updates to it. The PublishingActionList element is a required element at the top level of a research item (that is, in the ResearchProduct container element) to contain the publication history of the overall research item. Implementation note: This container element is required at the top level of a RIXML record.

Complex element	
PublishingAction	**Required, multiples allowed**

PublishingAction

Describes an individual publishing action within the overall publication history of the research product, coverage update, or roster update.

Implementation note: In many cases, there will be only one PublishingAction element within the PublishingActionList container element, indicating a publishingActionType=Published. However, other values are available, including those intended for pre-publication use by the publisher (e.g., *Pending*) and those intended for post-publication use to indicate a variety of different updates (e.g., *Recalled*, *BackFilled*, *Deleted*). Publishers can also use the PublisherDefined option with custom terms to facilitate management of pre-publication workflows.

Attributes

publishingActionType **Required** **rixmlenum:PublishingActionTypeEnum**

Indicates the specific publishing action that is being reported.

Implementation note: See details in implementation note for PublishingAction element, above.

publishingActionDateTime **Required** **xs:dateTime**

Indicates the date and time at which the publishing action was executed.

Implementation note: This attribute uses the XML standard xs:dateTime datatype; additionally, time is required to be expressed using Coordinated Universal Time (UTC) for consistency. See details in enumeration list section.

isMostRecent **Required** **xs:boolean**

Indicates whether or not this publishing action is the most recent. One, and only one, PublishingAction element in a PublishingActionList must be flagged as the most recent.

Implementation note: This attribute is included to facilitate processing, even though the publishingActionDateTime timestamp provides the timestamp for each update. Default value is *False*; however, there should be one (and only one) PublishingAction element with isMostRecent=*True* to indicate which PublishingAction contains the most recent publishingActionDateTime. Make sure to update the isMostRecent flag on the (formerly) most recent PublishingAction when an update is published.

version **Optional** **xs:string**

This optional attribute is intended for publishers that use RIXML tagging throughout their publication workstream; it is used to store pre-publication version information.

Implementation note: Since different publishers will have different terminology for their pre-production workflow steps, this attribute was added as a free-text field, rather than trying to standardize a set of pre-production options in the publishingActionType enumeration list. When the version attribute is used to manage pre-production steps, the publishingActionType attribute should be set to Pending; multiple PublicationAction entries set to Pending may occur. Examples of potential values for the version attribute include SupervisoryAnalystReview, RejectedWithComments, ApprovedForPublication, etc. Publishers may wish to remove pre-publication PublishingAction values before distributing the RIXML instance document externally.

editorialComment **Optional** **xs:string**

This optional attribute allows publishers to include an editorial comment explaining the reason for this publishing action.

Implementation note: generally omitted, but available when an explanation of the change might be helpful for aggregators or feed recipients, such as to explain revisions and deletions, or to indicate the batch number or other indicator for backfilled content. Can also be used to communicate workflow comments internally.

Describing the resources (individual files/URLs) in this research item

Listing the individual files/URLs (resources) in this research item

Key changes in 3.0

- Multiples are now handled via the *ResourceList* element, and Resource is no longer contained within the (retired) Content package.
- Many of the tag names in this element have been updated; however, the tags within this element are quite similar to v2.5.
- The *Price* element has been removed, as member firms indicated that they had other ways of indicating a price, leaving this tag set unneeded and unused.

In the Research standard, the term *resource* refers to the research content that is being described by the RIXML instance document (tagging file); that is, the PDF, Excel, audio or video file(s) and/or URL where the research content is housed and/or where the embedded research content is contained with the instance file. The Resource tag set is also used to capture the tagging for a thumbnail image that is provided to accompany a research item (such as a still image to use for a video's "cover page") and for a photo of the author(s).

A RIXML instance document typically has a single resource associated with it; however, multiple resources are becoming more common, particularly as publishers start providing research in multiple formats for human- and machine-readable purposes, as well as offering both static PDF and interactive versions of research. See the main Research Standard section for more information.

Each file or HTML location is referred to as a *Resource*, and each is described by its own Resource element. For example, the same content may be provided as a PDF, a backup location for the file on the publisher's website, a text file, and an HTML linkback link; these facilitate accessing the same content by different audiences or for different purposes. Each of these would be considered multiple *resources* of the same *research product*. Similarly, one research product might include a podcast audio file along with a PDF transcript.

Implementation note: Additional documentation regarding best practices for the Resource tag set will be developed during the comment period.

Implementation note: Each file or HTML location in a research product is a separate resource, but they all contain the same "research idea." As publishers provide alternative ways to access or consume content (PDF + machine readable version + linkback link), the use of multiple resources within a single research product is expected to become more common.

ResourceList

Container element for one or more individual Resource elements.

Complex elements

Resource	**Required, multiples allowed**

Resource

The research content that is being described by the RIXML instance document (tagging file); that is, the PDF, Excel, audio or video file(s) and/or URL where the research content is housed and/or where the embedded research content is contained with the instance file. The Resource can also refer to a thumbnail image associated with the research item or a picture of the author; these uses are indicated via the *type* attribute, described below.

Attributes

resourceID **Required** **xs:string**

The unique identifier of the resource within the research product.
Implementation note: The resourceID is required to be unique within the product(s) it appears within; unlike the ResearchProduct.productID, it does not need to be completely unique. If there is only one resource in a RIXML instance document, the Resource.resourceID can be the same as the ResearchProduct.productID, if desired. Publishers should consult with aggregators or other distribution partners to determine whether a particular naming protocol is required.

language **Optional** **rixmlenum:ISO639LanguageType**

Indicates the language used in the research item described by this Resource entry.
Implementation note: Overrides the language attribute on the overall RIXML instance document indicated in the Research element. This attribute should only be included if language of this ResearchProduct instance is different than that indicated by the top-level ResearchProduct.language attribute or if there are multiple resources included in this research product and they are not all in the same language. Both of these scenarios are rare.

sizeInBytes **Optional** **xs:positiveInteger**

Indicates the size of the resource in bytes. Could be used by the end user to estimate the download time and storage needs.

sizeinPages **Optional** **xs:positiveInteger**

Indicates the size of the resource in pages, for PDFs and similar file formats. Could be used by the end user to estimate reading time or sheets of paper required to print.

sizeinDuration **Optional** **xs:duration**

Indicates the size of the resource in time duration. Could be used by the end user to estimate the reading time of a written report, or specify precisely the listening or viewing time in the case of audio/video content.

type **Optional** **rixmlenum:ResourceTypeEnum**

An optional attribute to allow publisher to indicate that the content is contained within the ResourceData or ResourceXMLData elements, is an image file of the author, or is a thumbnail image to be used by the recipient. If omitted or blank, assumption is that the research content itself; this is the most common use case.
Implementation note: further documentation for tagging thumbnail images and author photos will be developed during the comment period.

sequence **Optional** **xs:positiveInteger**

If multiple Resources are specified, and they should appear in a certain order when the content is published, indicate the desired order by associating an appropriate sequence number to each one. Can be omitted if only one resource is provided or if order is unimportant.

isPrimary **Required** **xs:boolean**

Indicates the primary resource when more than one is included.
Implementation note: One (and only one) element in this List element should be set to *True*; all others should be set to *False*. Default value is *False;* make sure to set isPrimary to *True* when there is only one element in the list, and make sure to set isPrimary to *True* for ONLY one when there are multiples.

Elements

Protocol **Optional** **xs:string**

Indicates the protocol (e.g., *https*); eliminates the need for parsing this information from the URL.
Implementation notes: Rarely used except for internal processing or if required by client.

MIMEType **Optional** **xs:string**

Indicates the file or application format for the Resource being described. MIMEType (now formally known as IANA Media Type) is used to determine the software product(s) that can read the content. MIMETypes are described in RFC 2046 (https://www.iana.org/assignments/media-types/media-types.xhtml).
Implementation notes: This tag should be included whenever the Resource is a file, is a URL, or is content contained within the ResourceData; should be omitted when the resource is contained within the ResourceXMLData element.

ResourceName **Optional** **xs:string**

When the content described by a Resource element is a file (PDF, Word, Excel, text, etc.), the ResourceName will be the file name, including file extension. If the content is a URL or embedded data, the ResourceName element can be used to suggest a file name for the consumer to use for the link reference or the stored data.

Comment **Optional** **xs:string**

Any additional comments that are deemed necessary. For example, to indicate the software version required to open the document or to indicate how this resource relates to the others in the research product.

ResourceURL **Optional** **xs:anyURI**

Indicates the URL at which the resource can be found.
Implementation note: If the MIMEType element is populated (meaning there is a file associated with this Resource element), then the ResourceURL can be used if the publisher would like to provide a backup source for the file if the recipient needs to retrieve it via alternative methods. If the MIMEType element is *not* populated, then the ResourceURL is the link to the Resource itself (for example, when the content is a linkback link to the an interactive report page on the publisher's website.)

ResourceData **Optional** **xs:base64Binary**

Used when the content (data) of the research product is contained within the RIXML document itself. The data must be base64-encoded.
Implementation note: use of the ResourceData element is extremely rare.

ResourceXMLData **Optional** **http://www.xbrl.org/2003/instance**

Used when the content (data) of the research product is contained within the RIXML document itself and is being presented in XBRL format.
Implementation note: use of the ResourceXMLData element is extremely rare.

Complex elements

PublishingActionList **Optional**
ContextTagList **Optional**

Part of Resource (and Component): ContextTag

While the top-level tags apply to the ResearchProduct as a whole, the tags in the ContextTag element allow the publisher to provide metadata that applies to just a specific component within a research item or for one particular resource (file or URL). A subset of tags, limited to the most important and useful ones, are available, including references to Issuer, Security, Industry, Region, Country, AssetClass, EsgCategory, and Author.

ContextTagList

Container element for one or more individual ContextTag elements that can be used to provide finer-grained context tagging on Resources and Components.

Complex elements

ContextTag	**Required, multiples allowed**

ContextTag

The ContextTag element contains metadata that applies to the individual component or resource (file/url) being described; it is a subset of the tagging contained in the tagging for the overall ResearchProduct.
Implementation note: the ResearchProduct element will contain the full information for all content in the research item, including the full tagging for the issuer(s), industry(ies,), asset class(es), etc. discussed in individual components/resources. Each ContextTag element will contain references to this full information via use of the …ID elements. All tags contained in a component's tagging should also be present in the related tag set(s) in the top-level tagging for the ResearchProduct.

Complex elements

AssetClassID	**Optional, multiples allowed**	
AuthorID	**Optional, multiples allowed**	**PersonIDType**
CountryID	**Optional, multiples allowed**	
CurrencyID	**Optional, multiples allowed**	
Discipline	**Optional, multiples allowed**	
EsgCategoryID	**Optional, multiples allowed**	
IndexID	**Optional, multiples allowed**	
IndustryID	**Optional, multiples allowed**	
IssuerID	**Optional, multiples allowed**	
MarketID	**Optional, multiples allowed**	
RegionID	**Optional, multiples allowed**	
SecurityID	**Optional, multiples allowed**	
Subject	**Optional, multiples allowed**	

Tags related to legal and access information

Key changes in 3.0

- The legal package has been removed; DisclosureList is now used to contain one or more Disclosure elements, the Copyright element is now a top-level element within the Research schema file, and Hedge has been removed.
- The Entitlement element has been significantly streamlined, based on input that the implementation in v2.5 and earlier was overly complex and largely unused. 3.0 has updated the tag set to reflect the current usage in the marketplace.

Disclaimer and Copyright information is stored in the Disclaimer and Copyright subelements in the top-level ResearchProduct element; see the ResearchProduct section for details. Multiples are allowed for both Disclosures and Entitlements, so these are housed in DisclosureList and EntitlementList container elements, defined below.

Disclosure information

DisclosureList

Container element for one or more individual Disclosure elements.

Complex elements

Disclosure	**Required, multiples allowed**

Disclosure

Disclosure information from the publisher that accompanies this research product, including those required in the United States by FINRA rule 2241/2242 regarding potential conflicts of interest.
Implementation note: Publishers can choose to include all disclosures in a single Disclosure element, although many choose to present each disclosure as a separate Disclosure element.

Attributes

code	**Optional**	**xs:string**

Indicates a publisher-defined disclosure code for a specific disclosure.
Implementation note: Because many disclosure statements contain standardized boilerplate text that is reused on relevant research, publishers may choose to apply a disclosure code to help content recipients process this information more efficiently. For example, a publisher may need to disclose a banking relationship with a company mentioned in the research report, and may add disclosure code B01 every time it is used.

Elements

DisclosureText	**Required**	**xs:string**

The actual text of the disclosure.

Complex elements

IssuerIDList	**Optional**

For DisclosureText that applies to specific Issuers discussed within this ResearchProduct, these Issuers can be listed here by their IssuerID values.
Implementation note: When issuer ID(s) are listed here, the main IssuerList top-level container element should also be included, allowing the publisher to provide additional information about the issuer.

SecurityIDList	**Optional**

For DisclosureText that applies to specific Securities discussed within the ResearchProduct, these Securities are listed here by their SecurityID values.
Implementation note: When security ID(s) are listed here, the main SecurityList container element (a subelement of the Issuer tag set) should also be included, allowing the publisher to provide additional information about the security.

Entitlement information

The entitlement tag set has been significantly streamlined for RIXML 3.0, based on input we have received and analysis of real-world usage. It now includes the ability to add the entitlement indicator (such as an entitlement code) + the context in which it is valid (such as the name of the aggregator on whose platform the entitlement code is used, etc.)

EntitlementList

Container element for one or more individual Entitlement elements.

Complex elements

Entitlement	**Required, multiples allowed**

Entitlement

Root element details

[Element value is entered here]	**Required**	**xs:string**

The entitlement name or code that applies for this research item.

Implementation note: each Entitlement element has two parts: the name or code used to describe the entitlement (which is stored in the main Entitlement element), and an indication of where this entitlement name/code applies (which is stored in the entitlementContext attribute).

Implementation note: in some cases, the publisher provides entitlement codes/names based on its own naming convention, in other cases the aggregator or other content recipient provides the code/name values that the publisher must use; publishers should consult with their intended recipients to determine the entitlement code procedures to use for your intendended recipients.

Attributes

entitlementContext	**Optional**	**xs:string**

The context in which this entitlement has meaning, such as the name of a specific third-party aggregation platform.

Implementation note: Publishers should work with their distribution partners to determine what terminology to use for this attribute.

Person/Authorship information

Key changes in 3.0

- The ContactInfo package has been retired, replaced by the ContactInfo element, which is extremely similar except as noted.
- Address, Phone, Email, and Website are each now contained within a ...*List* container element, and multiples are allowed in each.
- As in earlier versions, RIXML Research 3.0 retains the Organization > PersonGroup > Person structure for author information, meaning that even when there is a single author, that author appears within a PersonGroup wrapper.
- Although this framework remains, the Organization, PersonGroup, and Person tag sets have undergone a significant overhaul to provide a more streamlined implementation. Over the years, various tags had to be "bolted on" to these tag sets to accomplish various things (multi-language support, etc.); 3.0 has updated these tag sets to make them cleaner and more intuitive. Tags no longer needed due to this improvement (e.g., PersonDetailsAlternativeLanguages) have been removed.
- The Organization element is largely the same as in v2.5, except that specialty/expertise no longer appears at this level.
- The Organization element is now contained within the OrganizationList container element.
- *InstantMessenger* has been removed.
- In the *Phone* section, *CountryCode* has been removed; country code should now be included as part of the phone number in the contents of the Phone element.
- We have added a *PreferredPronouns* element.
- BiographyFormatted has been eliminated; the Biography element now has an attribute to indicate that formatting has been used.

Information about individuals and organizations appears throughout the RIXML standards – as the author and publishing firm for a research item, as individuals adding or dropping coverage in a coverage list report, as a participant in an interaction, etc. In the Research standard, we use the following tree structure for authorship: Organization – PersonGroup – Person. That is, a person is *always* part of a PersonGroup, even when they are the only author; this allows a consistent structure regardless of whether a person or a group (or multiples of either or a combination) authors a research item. The Organization and Person elements are used in all of our standards, allowing a more streamlined process for maintaining content and facilitating connecting information across data sets.

Publishers may wish to convey contact information at any or all of these levels (publishing firm, group, individual authors). For efficiency, we have created a *ContactInfo* container that holds phone, address, and email address. This container is used whenever contact information is needed about an individual, a team, or a firm involved in authoring or publishing a research item; it is also used in our other standards.

In the next few sections, we will first describe the ContactInfo tag set, then the Person tag set, then the PersonGroup tag set, and finally, the Organization tag set, allowing each section to build on the prior one. Note that although this *Organization – PersonGroup – Person* structure represents the structure used for author information in the Research standard, these tags are structured differently in our other standards; see the documentation for each for details.

Contact information

The contact information tag set is used in many places across the RIXML Standards Suite. In the Research Standard, it is used to provide contact information about the individual(s), group(s), and firm(s) that authored the research item being described. Because the full ContactInfo tag set is available in the research standard, it is possible for publishers to include full contact information about the authors and publisher; however, our recommended practice is for the research item to provide high-level contact information – email address and phone number; with the full contact information (address, biography, etc.) being delivered via the Roster Updates standard or the Coverage Updates standard. Taking advantage of the shared tagsets that are used across the RIXML standards allows publishers to use minimal contact information in individual research items they publish, with a connection to the full, up-to-date contact information remaining readily accessible to consumers.

Contact Info wrapper

ContactInfoList

Container element for one or more individual ContactInfo elements.

Complex elements

ContactInfo	**Required, multiples allowed**

ContactInfo

Attributes

nature **Required** **rixmlenum:ContactInfoNatureEnum**

Used to indicate whether the contact information is the business or personal contact information.
Implementation note: in many cases, this can be hard-coded to the Business option; however, it is very important to indicate when Personal contact information is being provided, so that the end user can adjust the communication platform as needed for compliance purposes.

purpose **Optional** **rixmlenum:ContactInfoPurposeEnum**

When used for the contact information in the Event section of the Research Standard, indicates whether the contact information is to be used to register for the event, to dial in to the event, etc.
Implementation note: This attribute should be omitted for contact information related to authorship of a research item or in the Roster or Coverage Updates standard. It is only intended for use in the Event section of the Research Standard and in the Interactions Standard.

Complex elements

EmailList	**Optional**
PhoneList	**Optional**
WebsiteList	**Optional**
AddressList	**Optional**

Elements

Description **Optional** **xs:string**

A brief description of the contact information can be included here, if the publisher needs to provide additional context than is provided in the *purpose* attribute.

Part of ContactInfo tag set: address information

AddressList

Container element for one or more individual Address elements.

Complex elements

Address	**Required, multiples allowed**

Address

Indicates the street address.
Implementation note: the standard includes five AddressLine elements to accommodate instances where the City/StateProvince/PostalCode structure do not apply; in these cases, use the AddressLine elements to provide the address in the required structure.

Elements

AddressLine1	**Required**	**xs:string**
AddressLine2	**Optional**	**xs:string**
AddressLine3	**Optional**	**xs:string**
AddressLine4	**Optional**	**xs:string**
AddressLine5	**Optional**	**xs:string**
City	**Optional**	**xs:string**
StateProvince	**Optional**	**xs:string**
Indicates the State/Province/Canton/County information of the address.		
PostalCode	**Optional**	**xs:string**
Indicates the Postal code, quadrant, zone or Zip code.		
Country	**Optional**	**xs:string**
This field indicates the country, as it should be displayed.		

Part of ContactInfo tag set: Email information

EmailList

Container element for one or more individual Email elements. Strongly recommended; generally will contain only one email address.
Implementation note: compliance considerations may prevent communication using personal devices. Since the designation of business vs. personal is made at the ContactInfo level, ensure that no non-business email addresses are included in the EmailList when ContactInfo.nature attribute is set to *Business*.

Complex elements

Email	**Required, multiples allowed**

Email

Indicates the email address.

Root element details

[Element value is entered here]	**Required**	**xs:string**

Part of ContactInfo tag set: phone information

PhoneList

Strongly Recommended. Container element for one or more individual Phone elements.
Implementation note: compliance considerations may prevent communication using personal devices. Since the designation of business vs. personal is made at the ContactInfo level, ensure that no non-business phone numbers are included in the PhoneList when ContactInfo.nature attribute is set to *Business*.

Complex elements

Phone	**Required, multiples allowed**

Phone

Indicates the complete phone number, including any country code, area code, or other digits required for dialing.
Implementation note: the *CountryCode* and *Number* subelements that appeared in the *Phone* element in past versions of the standards have been removed. Instead, the entire phone number, including country code, are now entered at the *Phone* element level.
Implementation note: unfortunately, there is no universal standard for formatting phone numbers (e.g., +1 (212) 555-1212 vs. 1.212.555.1212 vs. 1-212-555-1212). Because different research aggregators may require different formats, the *Phone* element is one of the few fields that you may need to customize depending on the requirements of each research aggregation vendor.

Root element details

[Element value is entered here]	**Required**	**xs:string**

Attributes

type — **Required** — **rixmlenum:PhoneTypeEnum**

Indication whether the number provided in this element is voice, text, both, or fax.
Implementation note: compliance considerations may prevent communication using text messaging, communication on personal devices, etc. Publishers may be able to hard code the Phone.type attribute, for example, if a publisher only includes each author's office land line, the publisher could hard code Phone.type=Voice.

location — **Optional** — **rixmlenum:PhoneLocationEnum**

Describes the location of the phone at this number -- i.e. office, home, mobile.
Implementation note: Firms may be able to hard code this value; for example, if a publisher only includes each author's office land line, the publisher could hard code Phone.location=Office.

extension — **Optional** — **xs:string**

Used in cases where an additional extension number is required to reach a specific person, department, etc.

Part of ContactInfo tag set: website information

WebsiteList

Container element for one or more individual Website elements.
Implementation note: this element is meant to capture the website for the publishing firm, group, or author; it is not used to communicate a link to the research item itself.
Implementation note: the WebsiteList tag set should be included in the ContactInfo container element at the appropriate level of the contact information tree; that is, if it is the website for the publishing firm, the Website element should be included in the ContactInfo at the Organization level; if it is the website for the group, it should appear at the PersonGroup level, etc.

Complex elements

Website	**Required, multiples allowed**

Website

Provides a URI reference for a web site for the publishing firm, group, or author.

Person information

Information about individuals and organizations appears throughout the RIXML standards – as the author and publishing firm for a research item, as individuals adding or dropping coverage in a coverage list report, or as a participant in an interaction.

In the Research standard, the Person tag set is used to capture information about the author(s) involved in the research item. For consistency, all authors appear nested in the PersonGroup tag set. When there is only one author, the PersonGroup is generally unnamed, simply providing a "wrapper" for the individual Person subelement. As noted in the section above, the ContactInfo tag set is available for use in all three sections, providing maximum flexibility for conveying contact information for an individual, a team or other group, and/or for the organization itself. It can be provided within each individual research report's instance document, or it can be provided in the Coverage Updates standard, with the PersonID providing the connection.

Named type: PersonIDType

In the RIXML standards, the one required piece of information about a person (author, interaction participant, etc.) is a personID. Of course, most of the time additional information – their name, contact information, etc. – is also provided, but these are all optional. The PersonIDType defines the structure for person identifiers, and is used across the standards to ensure that all tags referring to a person do so consistently. Its primary use is as the personID in the Person element – this is the element that holds the full information about a person, and it is used in all of our standards. Elsewhere, such as to indicate that a person is the author of a particular component within a research item, using the PersonIDType provides an efficient mechanism for connecting the quick reference to the person to the full information in the PersonList element.

PersonIDType

Root element details

[Element value is entered here] **Required** **xs:string**

The full display name of the Person can be added here for human readability and convenience, but the personID attribute is the actual identifier.

Attributes

personID **Required** **xs:string**

For accurate identification it is required that the personID be unique for a given publisher; the exact format of the ID is up to the publisher. Examples: combination of LastName and FirstName, combination of internal employee ID and RIXML publisherID. GUID recommended.

The Person wrapper

There is not a PersonList container for multiple instances of a Person tag set because each Person is nested inside a PersonGroup tag set (in the PersonGroupMember tag set). Unlike the other ...*List* tags that exist in our standards, the PersonGroup tag set has additional functionality. It is not simply a wrapper for a list of Persons; rather, it can also convey information about the group itself, particularly when the author of a research item is a group rather than an individual, or when multiple people from one named group are listed as the authors. Thus, we have chosen to keep the term PersonGroup to make the distinction between this tag set and its purpose vs. that of the ...List tag sets used throughout the standards.

Implementation note: because there can be multiple PersonGroups, the PersonGroupList > PersonGroup structure is used for that tag set so there is no PersonList element.

Person

In the Research standard, the Person tag set describes an individual involved in the authorship of the product in some capacity.

Attribute

isRegAC	**Optional**	**xs:Boolean**

Indicates whether or not the Person is a research author to whom the SEC Regulation Analyst Certification (RegAC) applies.

Implementation note: there is no default value. The absence of this optional attribute does not mean that the flag can be assumed to be either true or false.

Complex elements

PersonID	**Required**	**PersonIDType**
PersonDetailsList	**Optional**	
ContactInfoList	**Optional**	
PersonLabelList	**Optional**	

Part of the Person tag set: the Person Details

PersonDetailsList

Container element for one or more individual PersonDetails elements.
Implementation note: The PersonDetailsList is a subelement of the Person element, so all PersonDetails entries in a PersonDetailsList element refer to the same person. Generally, there will be only one PersonDetails entry for each person; however, multiples are allowed for instances in which the publisher wants to include author details in multiple languages.

Complex elements

PersonDetails **Required, multiples allowed**

PersonDetails

Includes name and job information for a person.

Attributes

language **Optional** **rixmlenum:ISO639LanguageType**

Indicates the language of the information provided in this PersonDetails instance.
Implementation note: This attribute is only needed if language of this PersonDetails instance is different than that indicated by the top-level ResearchProduct.language attribute.

Elements

DisplayName **Required** **xs:string**

Indicates how the publisher or person wants the name to be presented, for example: Dr. John Doe Sr. CPA, CFA.

FamilyName **Required** **xs:string**

In some cultures, this is referred to as a person's "last name"; however, since this is not universal, we use the term FamilyName instead.
Implementation note: this is often the tag that is used when alphabetizing names (followed by GivenName when needed), which is why both FamilyName and DisplayName are required.

GivenName **Optional** **xs:string**

In many cultures, this is referred to as a person's "first name."

MiddleName **Optional** **xs:string**

FamilyNameSuffix **Optional** **xs:string**

Indication of any family name modifiers (traditionally appearing after the person's name) e.g. Jr., Sr., III.

Credentials **Optional** **xs:string**

Indication of credentials (traditionally appearing after the person's name); e.g. C.F.A., Ph.D., Esq.

PreferredPronouns **Optional** **xs:string**

Used to specify pronouns preferred by the person; e.g. she/her/hers.

JobRole **Optional** **xs:string**

Indicates the functional role played by the person relative to his/her job in the organization, for example, analyst, strategist, economist, etc.

JobTitle **Optional** **xs:string**

Indicates the organizational title of the person; e.g. Managing Director, Vice President, etc.

Division **Optional** **xs:string**

Indicates the division that the person works for within an organization; e.g. Institutional Equities, Asia Research, etc.

Complex elements

Biography **Optional**

Part of the PersonDetails tag set: Biography

Biography

Biographical information regarding the person being described in this instance of the Person tag set.
Implementation note: Limited markup permitted - HTML code for paragraph, ordered lists and unordered lists with list items, bold, underline, and italics. If used, be sure to set includesFormatCoding tag to *True*.

Root element details

[Element value is entered here]	**Required**	**xs:string**

Attributes

includesFormatCoding	**Optional**	**xs:boolean**

Indicates whether or not the value includes any format coding.
Implementation note: limited markup permitted - HTML code for paragraph, ordered lists and unordered lists with list items, bold, underline, and italics.
Implementation note: Default value is *False*, so can be omitted unless needed to indicate that includesFormatCoding=*True*.

Part of the Person tag set: the Person label information

Many research aggregators and other vendors assign author codes or ask publishers to provide a unique identifier for each author and authoring team. Publishers may also have similar codes that they use for internal processing. The PersonLabel tag set is used to communicate these identifiers.

PersonLabelList

Container element for one or more individual PersonLabel elements.

Complex elements

PersonLabel	**Required, multiples allowed**

PersonLabel

This element is used to supply an author code or other unique identifier as required by research aggregators and other content vendors. Each aggregator or other recipient may require a different code; the publisher may also choose to provide a code for any recipient that does not have its own author code protocol.

Root element details

[Element value is entered here]	**Required**	**xs:string**

Attributes

personLabelContext	**Optional**	**xs:string**

This attribute can be used to indicate the specific context for the person label. The most common example is the aggregation vendor whose value is being provided in the PersonLabel.

Implementation notes: This tag is used to indicate the vendor or other context for which each PersonLabel applies. We have decided not to use an enumeration list to limit the personLabelContext attribute because there are so many distribution channels that maintaining the list would be difficult. Instead, please check with each distribution platform to determine what value to use in the personLabelContext.

PersonGroup information

In the Research standard, the PersonGroupList contains one or more PersonGroup elements. Each PersonGroup element can contain one or more Person elements. Each Person element *must* be contained within a PersonGroup element, even if the person is the sole author. This structure allows for a variety of authorship options, such as:

- A single author (one Person record nested in one PersonGroup record)
- Two authors working as a team (two Person records nested in a single PersonGroup record, which may or may not also have a name)
- Two authors working independently (two Person records, each contained in a separate PersonGroup record)
- A report published by a team, whose members are listed separately
- A report published by a team, whose members are not named
- A report published by a team, with a co-author not from that team

The Organization > PersonGroup > Person structure was developed to accommodate a wide variety of use cases submitted by member firms. The standards allow a publishing firm to utilize this nesting capability to convey authorship in whatever level of granularity they require, and not all firms will need to leverage all available options. When not needed, firms may choose to essentially omit the PersonGroup level by nesting each individual author inside its own unnamed PersonGroup tag.

While the PersonGroup level is required in the research standard, providing a name for the group is optional; most firms will likely only utilize this option when the group itself is essentially the named author of a research item.

While this nesting structure is how authorship information is conveyed in the Research standard, our Coverage Updates and Roster Updates standards use these tag sets somewhat differently; additionally, the Interactions standard uses this nested structure but uses it to convey information about both the individual who created the interaction record AND about each of the participants in the interaction being described. Documentation for these standards will provide relevant information.

The PersonGroup wrapper

PersonGroupList

Container element for one or more individual PersonGroup elements.
Implementation note: a separate PersonGroup should be used for each Person (author), unless the publisher wants to indicate that the authors are all part of a specific group. When this is the case, the PersonGroupName element should generally be used, meaning that the group's name should be indicated. That is, if three authors are part of the "Autos Industry Team" then the PersonGroupName element will be populated with that team name, and the three authors will be included as persons within the group. If the authors do not belong to a named group, each should be listed using a separate PersonGroup for each author.

Complex elements

PersonGroup	**Required, multiples allowed**

PersonGroup

The PersonGroup element is used to hold the name(s) of the individual person(s) and/or the name of the group. PersonGroups can be formally organized groups or they can be fluid groups that come together to deliver content. Implementation note: In the case of an individual person, the person tag and its associated personID are used (no personGroupID or description is needed). If the group consists of only one person, there is no need to define a group ID, name, or description. It is sufficient to have the person tag and the associated personID under the group tag.

Attributes

personGroupID **Optional** **xs:string**

A unique label or identifier used to reference a particular group of people. Not used when there is only one person in the group; instead, the personID for the person provides the necessary unique identification.

sequence **Optional** **xs:positiveInteger**

If there are multiple PersonGroups, and they should appear in a certain order when the content is published, indicate the desired order by associating an appropriate sequence number to each one.

isPrimary **Optional** **xs:boolean**

Indicates the primary PersonGroup, when more than one is specified. (Note: the sequencingAttributeGroup is not used here so we can make isPrimary optional.)

Implementation note: Default value is *False*, so can be omitted unless needed to indicate that isPrimary=*True*.

role **Optional** **rixmlenum:RoleEnum**

The role of the group relative to this research item. This is especially useful if the group is specified without any members or if all members share the same role (such as a group of meeting attendees).

Implementation note: the RoleEnum list is used in various ways across the standards; not all values in the list are applicable to research authors when the author is a group. The only values in the list that apply to a PersonGroup in a research item would be Author, and possibly Editor and Coordinator if those roles are handled by a department or other group.

rolePublisherDefinedValue **Optional** **xs:string**

If the role attribute has the value PublisherDefined, this attribute is used to hold the publisher's own description of the role.

Complex elements

PersonGroupNameList **Optional**

Indicates the name of the group. This is not required, but can be used where groups are formally named or if there is a name created for the group involved with a publication or event.

PersonGroupMemberList **Optional**

ContactInfoList **Optional**

Part of the PersonGroup tag set: naming the PersonGroup

PersonGroupNameList

Container element for one or more individual PersonGroupName elements.

Complex elements

PersonGroupName	**Required, multiples allowed**

PersonGroupName

This is the full display name of the PersonGroup.

Root element details

[Element value is entered here]	**Required**	**xs:string**

Attributes

language	**Optional**	**rixmlenum:ISO639LanguageType**

Indicates the human language in which the element value is expressed.
Implementation note: Overrides the language attribute on the overall RIXML instance document for this element. This attribute should only be included if language of this PersonGroupName instance is different than that indicated by the top-level ResearchProduct.language attribute.

Part of the PersonGroup tag set: Person Group Member information

PersonGroupMemberList

Container element for one or more individual PersonGroupMember elements.

Complex elements

PersonGroupMember	**Required, multiples allowed**

PersonGroupMember

Used to define the members of a group, for example, the author(s) of the product. The PersonGroupMember highlights primary persons, and describes the display order of multiple persons.

Attributes

sequence	**Optional**	**xs:positiveInteger**

If there are multiple PersonGroupMembers, and they should appear in a certain order when the content is published, indicate the desired order by associating an appropriate sequence number to each one.

isPrimary	**Optional**	**xs:boolean**

Indicates the primary PersonGroupMember, when more than one is specified.
Implementation note: Default value is *False*, so can be omitted unless needed to indicate that isPrimary=*True*.

role	**Optional**	**rixmlenum:RoleEnum**

The role of this individual person relative to this research item.
Implementation note: the RoleEnum list is used in various ways across the standards; not all values in the list are applicable to individuals. The values in the list that apply to a PersonGroupMember in a research item would be Author, Editor, and Coordinator. The other values in the list can be used when the research item is describing an event (this is a legacy use of the Research Standard and is no longer recommended).

rolePublisherDefinedValue	**Optional**	**xs:string**

If the role attribute has the value PublisherDefined, this attribute is used to hold the publisher's own description of the role.

Complex elements

Person	**Required**

Organization information

In the Research standard, the *Organization* tag set is used to identify the publisher(s) of the research item. However, since this tag set is used in various ways throughout the standards, the term *Organization* is used because it is more accurate than the term *Publisher* would be in other places.

The Organization wrapper

OrganizationList

Container element for one or more individual Organization (publishing firm) elements.

Complex elements

Organization	**Required, multiples allowed**

Organization

Describes a publisher (organization) related to the research item. Multiple organizations may be related to one research item; these organizations can be subsidiaries of the same parent or different organizations (as in a joint venture) working together on a publication or event. However, there can only be one primary publisher organization, which is captured by the isPrimary attribute.

Attributes

type **Required** **rixmlenum:OrganizationTypeEnum**

The type of organization, e.g., SellSideFirm.

Implementation note: most of the values in the OrganizationTypeEnum are geared for this element's use in other standards, such as the Interactions standard, or when the research item is describing an event (no longer recommended). In the Research standard, the organization generally means the publisher. However, in 3.0, we have added the value BusinessUnit. This allows the publisher to include two Organization elements – one to indicate their firm name (with the appropriate Organization.type to describe the firm overall) and one with the name of the particular business unit (with the Organization.type=BusinessUnit). This can be used if the publisher distributes multiple business units' research through the same distribution feed; publishers should consult with feed recipients to determine whether this is the mechanism the recipient wishes to use to identify different business units' research.

typePublisherDefinedValue **Optional** **xs:string**

When the type attribute has the value PublisherDefined, the typePublisherDefinedValue attribute is used to hold the organization's own description of the type.

sequence **Optional** **xs:positiveInteger**

If there are multiple elements specified, and they should appear in a certain order when the content is published, indicate the desired order by associating an appropriate sequence number to each one.

isPrimary **Required** **xs:boolean**

Indicates the primary element when more than one is specified; for example, when a parent organization and subsidiary are included, or when there is a joint venture.

Implementation note: One (and only one) element in this List element should be set to *True*; all others should be set to *False*. Default value is *False;* make sure to set isPrimary to *True* when there is only one element in the list, and when there are multiples, make sure to set isPrimary to *True* for ONLY one.

Complex elements

OrganizationIDList	**Optional**
OrganizationNameList	**Required, multiples allowed**
PersonGroupList	**Optional**
ContactInfoList	**Optional**

Elements

Description	**Optional**	**xs:string**

Optional description of the organization. Used to include any additional information about the organization.

LogoURL	**Optional**	**xs:anyURI**

Indicates a web URL location of a logo graphic for the organization.

Part of the Organization tag set: Organization identifiers

OrganizationIDList

Container element for one or more individual OrganizationID elements.

Complex elements

OrganizationID	**Required, multiples allowed**

OrganizationID

An identifier used to identify the organization; multiple are possible. For example, for a product distributed via multiple vendors, each vendor may require a different OrganizationID, with the idType for each OrganizationID identifying the name of the vendor in the manner specified by the vendor. The actual ID is stored as free text in the content of the OrganizationID element.
Implementation note: To ensure uniqueness it is recommended that a UUID/GUID that follows RFC 9562/ISO 9834 standards be included, in addition to any others required by distribution partners.

Root element details

[Element value is entered here]	**Required**	**xs:string**

Attributes

idType	**Required**	**xs:string**

Indicates the type of ID used. Examples: CUSIP, VendorCode.

Part of the Organization tag set: Organization name information

OrganizationNameList

Container element for one or more individual OrganizationName elements.

Complex elements

OrganizationName	**Required, multiples allowed**

OrganizationName

The name of the organization. An organization can have multiple names as enumerated in the Name Types. At least one name is required for the content to be valid.

Root element details

[Element value is entered here]	**Required**	**xs:string**

Attributes

nameType	**Required**	**rixmlenum:OrganizationNameTypeEnum**

The name can be one of the following types - legal, local, display, or trade, or parent.
Implementation note: Use nameType=*Display* if using only one type, unless one of the other values is preferred.

language	**Optional**	**rixmlenum:ISO639LanguageType**

Indicates the language of the name value given.
Implementation note: Overrides the language attribute on the overall RIXML instance document for this element. Overrides the language attribute on the ResearchProduct element. This attribute should only be included if language of this Organization instance is different than that indicated by the top-level ResearchProduct.language attribute.

Framing the content

Key changes in 3.0

- principalMedium has been introduced in recognition of the fact that research content is being published in more formats than in the past, and more non-traditional research is being published using the tools and systems formerly used only for traditional research.
- ProductCategory has been renamed Form, it is enclosed in FormList to capture multiples, and the FormEnum enumeration list has quite a few new options.

In addition to describing what a research item is about, a RIXML Research record also needs to indicate more broadly what *kind* of research the item is: is it a piece of written research or a video file? A model or a report? What discipline and research approach were used? As shown in the high-level overview, there are three components to this: the *principalMedium* attribute, the *Form* element, and the *Discipline* element, which contains both the *DisciplineType* element and the *ResearchApproach* element. Event records (a legacy part of the Research Standard) and interactions records (now the recommended mechanism for conveying event data using the newer Interactions Standard) provide similar tagging functionality, with values relevant to event-related information.

To give a sense of how these terms work together to give a picture of what "kind" of research or event item is being described, here are the enumerations available for these tag sets:

Research Standard					**Interactions Standard**
Related to research content				**Related to event content**	
ResearchProduct	**Form**	**Discipline**		**Event**	**Interaction**
principalMedium	**form**	**disciplineType**	**researchApproach**	**EventVenueType**	**InteractionMode**
Audio Data * Interactive Mixed Video Written	Brief * Chart ** Comment Commentary * Compilation Directory Event EventInvitation EventRecording * ExhibitExplainer * FiresideChat * Glossary Interview * Marketing * Model Overview PanelDiscussion * Podcast * PostEventSummary Presentation Primer Report TrainingMaterial * Transcript * TranscriptSummary* Webcast * WrittenRelease * PublisherDefined *	Economics Investment Strategy	Fundamental Quantitative Technical	Brief ConferenceCall GroupMeeting InternetAudio InternetVideo Interview MediaAppearance OneOnOneMeeting PanelDiscussion ** Podcast Transcript Webcast WrittenRelease	APIs * Call Chatbot * DataFeed Email IM Inperson Model Product ResearchPortal * ScreenShare * Service Video VoiceMail PublisherDefined

* indicates new term
** indicates updated terminology for existing term (Chart was formerly Charts; PanelDiscussion was formerly Panel)

The principalMedium is an attribute to the top-level tag in the main Research tag set, and the definition appears in that section. Details for the other tag sets appear below.

Form information

FormList

Container element for one or more individual Form elements.

Complex elements

Form	**Required, multiples allowed**

Form

Describes one aspect of the type of report being described, providing some finer-grained information beyond the ResearchProduct.principalMedium attribute. Examples include Comment, Report, Model, Chart.
Implementation note: In prior versions of the Research Standard, this tag set was called ProductCategory.

Attributes

form **Required** **rixmlenum:ProductFormEnum**

The form of the research item is indicated via the form attribute, and is limited to values in the ProductFormEnum list.

formPublisherDefinedValue **Optional** **xs:string**

If the form attribute is set to PublisherDefined, then the publisher's custom value is provided here.

Discipline information

The Discipline element is intended to be particularly useful for describing content that does not have an AssetClass, such as macroeconomic research and strategy research. The entire DisciplineList element can be omitted when not needed.

DisciplineList

Container element for one or more individual Discipline elements.

Complex elements

Discipline	**Required, multiples allowed**

Discipline

Describes the high-level content classification of a research product; in particular, this element is designed to provide a mechanism for classifying Economics and Strategy research, areas that do not fall into any particular asset class.
Implementation note: disciplineType and researchApproach are not meant to act in a vacuum. Generally speaking, they would be used in conjunction with tag sets like asset class, subject, etc.; that is, disciplineType and researchApproach aren't meant to convey the topic being discussed, simply the methodology used.

Attributes

disciplineType **Required** **rixmlenum:DisciplineTypeEnum**

Indicates the discipline used to create of the research product.
Implementation note: generally speaking, any research that has (or could have) an AssetClass element would have the disciplineType of *Investment*. The other options in the DisciplineTypeEnum are meant to capture all other types of research, with the researchApproach attribute conveying additional granularity.

researchApproach **Optional** **rixmlenum:ResearchApproachEnum**

Indicates the analytical technique used to create the content of the research product.
Implementation note: While the disciplineType attribute is required whenever the Discipline tag set is used, the researchApproach attribute is optional. It does not generally apply when disciplineType is Economic, but is highly recommended when disciplineType is Strategy or Investment

Title and summary information

Key changes in 3.0

- *Title*, *Subtitle*, *Abstract*, and *Synopsis* are now top-level elements in *ResearchProduct*; the ContentDetails package has been retired.
- Each of these is now housed within a related …*List* element to facilitate multiples; this change allows us to eliminate the workarounds that were necessary in v2.5 and earlier to accommodate presenting this information in multiple languages and/or with formatting.

The title, subtitle, abstract, and summary tags allow multiples, and thus employ the …*List* mechanism. Multiple titles, subtitles, etc. may occur in cases where the publisher wants to make the title and other high-level information available in multiple languages so that it appears in searches conducted in those languages, even if the report is only published in one language. It may also occur if multiple translations are being distributed in one research record (in which case the overall item may have multiple titles, with the appropriate title also appearing as the title of the individual file in the Resource tag set). Additionally, a publisher may choose to provide multiple titles for different audiences – such as including a more generic title that is displayed for users who are not authorized to view the details in the report's given title.

Named type: TitleListType

The TitleListType provides an efficient mechanism for providing one or more titles to the various parts of a research item that use Titles:

- a RIXML Research file may contain references to more than one associated files or research items (called *Resources*); in this case, the main Research record will have a TitleList tag set
- The ComponentTitleList, which contains the titles of one or more components within a research item
- The MediaChapterTitleList, which contains the titles of one or more chapters within a research item

TitleListType

Container type for one or more individual Title elements.

Complex elements

Title	**Required, multiples allowed**

Title information

TitleList **uses named TItleListType**

Container type for one or more individual Title elements.

Complex elements

Title	**Required, multiples allowed**

Title

This is the primary title of the product.

Root element details

[Element value is entered here]	**Required**	**xs:string**

Attributes

language **Optional** **rixmlenum:ISO639LanguageType**

Indicates the human language in which the element value is expressed. Overrides the language attribute on the overall RIXML instance document for this element.

Implementation note: Generally only used when a publisher is providing this element in multiple languages for findability in searches conducted in those additional languages, even though the research item itself is only provided in one language; otherwise this attribute would be omitted.

includesFormatCoding **Optional** **xs:boolean**

Indicates whether or not the value includes any format coding.

Implementation note: Limited markup permitted - HTML code for paragraph, ordered lists and unordered lists with list items, bold, underline, and italics.

Implementation note: Default value is *False*, so can be omitted unless needed to indicate that includesFormatCoding=*True*.

audienceType **Optional** **rixmlenum:AudienceTypeEnum**

Indicates the target audience for this variation.

Implementation note: While a publisher and an aggregator or other recipient may develop a process for displaying a particular audience type's instance of this element based on the end user's entitlement authorization, no explicit connection exists between this attribute and the Entitlement tag set. The presence of audienceType tagging on an element does not express or imply any actual entitlements.

audienceTypePublisherDefinedValue **Optional** **xs:string**

If the audienceType attribute is set to PublisherDefined, then the publisher's custom value is provided here.

Implementation note:

Subtitle information

SubTitleList

Container element for one or more individual SubTitle elements.

Complex elements

SubTitle	**Required, multiples allowed**	

SubTitle

Root element details

[Element value is entered here]	**Required**	**xs:string**

Attributes

language **Optional** **rixmlenum:ISO639LanguageType**

Indicates the human language in which the element value is expressed. Overrides the language attribute on the overall RIXML instance document for this element.

Implementation note: Generally only used when a publisher is providing this element in multiple languages for findability in searches conducted in those additional languages, even though the research item itself is only provided in one language; otherwise this attribute would be omitted.

includesFormatCoding **Optional** **xs:boolean**

Indicates whether or not the value includes any format coding.

Implementation note: Limited markup permitted - HTML code for paragraph, ordered lists and unordered lists with list items, bold, underline, and italics.

Implementation note: Default value is *False*, so can be omitted unless needed to indicate that includesFormatCoding=*True*.

audienceType **Optional** **rixmlenum:AudienceTypeEnum**

Indicates the target audience for this variation.

Implementation note: While a publisher and an aggregator or other recipient may develop a process for displaying a particular audience type's instance of this element based on the end user's entitlement authorization, no explicit connection exists between this attribute and the Entitlement tag set. The presence of audienceType tagging on an element does not express or imply any actual entitlements.

audienceTypePublisherDefinedValue **Optional** **xs:string**

If the audienceType attribute is set to PublisherDefined, then the publisher's custom value is provided here.

Implementation note:

Abstract information

AbstractList

Container element for one or more individual Abstract elements.

Complex elements

Abstract	**Required, multiples allowed**

Abstract

The Abstract tag should highlight the key points covered in the report and should be no longer than a few paragraphs or bullets.
Implementation note: If the report begins with a summary, highlights, or key points section, this could be used to populate the Abstract element. Suggested maximum length is 3000 characters.

Root element details

[Element value is entered here]	**Required**	**xs:string**

Attributes

language **Optional** **rixmlenum:ISO639LanguageType**

Indicates the human language in which the element value is expressed. Overrides the language attribute on the overall RIXML instance document for this element.
Implementation note: Generally only used when a publisher is providing this element in multiple languages for findability in searches conducted in those additional languages, even though the research item itself is only provided in one language; otherwise this attribute would be omitted.

includesFormatCoding **Optional** **xs:boolean**

Indicates whether or not the value includes any format coding.
Implementation note: Limited markup permitted - HTML code for paragraph, ordered lists and unordered lists with list items, bold, underline, and italics.
Implementation note: Default value is *False*, so can be omitted unless needed to indicate that includesFormatCoding=*True*.

audienceType **Optional** **rixmlenum:AudienceTypeEnum**

Indicates the target audience for this variation.
Implementation note: While a publisher and an aggregator or other recipient may develop a process for displaying a particular audience type's instance of this element based on the end user's entitlement authorization, no explicit connection exists between this attribute and the Entitlement tag set. The presence of audienceType tagging on an element does not express or imply any actual entitlements.

audienceTypePublisherDefinedValue **Optional** **xs:string**

If the audienceType attribute is set to PublisherDefined, then the publisher's custom value is provided here.
Implementation note:

Synopsis information

SynopsisList

Container element for one or more individual Synopsis elements.

Complex elements

Synopsis	**Required, multiples allowed**

Synopsis

A very brief statement of the subject addressed in the product. This is typically only a few lines and would be appropriate for highly abbreviated displays. The Synopsis is a very brief overview of the topics covered in the report. This should be no longer than a few lines and would be appropriate for use in a highly abbreviated display such as a headline mouseover.
Implementation note: Suggested maximum length is 300 characters.

Root element details

[Element value is entered here]	**Required** **xs:string**

Attributes

language **Optional** **rixmlenum:ISO639LanguageType**

Indicates the human language in which the element value is expressed. Overrides the language attribute on the overall RIXML instance document for this element.
Implementation note: Generally only used when a publisher is providing this element in multiple languages for findability in searches conducted in those additional languages, even though the research item itself is only provided in one language; otherwise this attribute would be omitted.

includesFormatCoding **Optional** **xs:boolean**

Indicates whether or not the value includes any format coding.
Implementation note: Limited markup permitted - HTML code for paragraph, ordered lists and unordered lists with list items, bold, underline, and italics.
Implementation note: Default value is *False*, so can be omitted unless needed to indicate that includesFormatCoding=*True*.

audienceType **Optional** **rixmlenum:AudienceTypeEnum**

Indicates the target audience for this variation.
Implementation note: While a publisher and an aggregator or other recipient may develop a process for displaying a particular audience type's instance of this element based on the end user's entitlement authorization, no explicit connection exists between this attribute and the Entitlement tag set. The presence of audienceType tagging on an element does not express or imply any actual entitlements.

audienceTypePublisherDefinedValue **Optional** **xs:string**

If the audienceType attribute is set to PublisherDefined, then the publisher's custom value is provided here.
Implementation note:

Defining the focus of a report

The purpose of the *Focus* tag set is to allow a publisher to indicate what the report is mainly about – that is, is it a company report or an industry overview? Based on the value chosen, the expectation is that the publisher will indicate *which* company (or which industry, etc.) in particular is the primary focus of the report. While multiples are allowed, the recommendation is to select a single focus whenever possible.

In the Research standard, a publisher will use some or all of the available thematic tags (described in the next chapter) to describe what the report is *about* - that is, what companies, industries, regions, etc. are being discussed. To identify what the *primary* focus of a report is, a publisher will use the Focus tag set and isPrimary attributes that are available for each thematic tag set.

How does a publisher indicate the main focus of the report? The RIXML Research Standard accomplishes this through the following:

First, the *FocusList* tag set is used to indicate what the report's primary focus is: is it a company report or an industry overview? Is it primarily discussing a currency, or is it a thematic report based on a particular subject? The publisher would select the focus of the research item – which, with a few exceptions, mirrors the list of content-related tagging options in the list in the *Thematic Tags* chapter introduction, below.

Second, based on the value chosen in step 1, the publisher will then indicate *which* company (or *which* industry, etc.) is the primary focus of the report. That is, if the publisher indicates that the focus is a security, then they must include at least one security identifier in the Focus.SecurityID tag set. The identifier listed in the Focus tag set is meant to be a reference or "pointer" to full information about the entity; the full information is stored in the relevant top-level tag set (in this example, the Focus.SecurityID element will have an identifier that also appears in the SecurityList element; this makes the connection between the security that is the focus of the report and the full information about that security (company name, etc.).

Third, the *isPrimary* flag is used to further clarify: if more than one *Focus* is included, then the publisher will use the *isPrimary* flag on one of them to indicate that it is the primary focus of the research item. While a report can only have one focus, it may take more than one Focus element to describe it; see the FocusList definition for details.

Tags identifying the focus of the research item

FocusList

Container element for one or more individual Focus elements.
Implementation note: For compilation reports or other multi-topic research items, the focus should be set to *Unfocused*. Use of multiple instances of the Focus element within the FocusList should be limited to research where more than one focus is required to fully describe the focus of the report. For example, the FocusList for a report about the French auto industry would include both the CountryID and the IndustryID elements, each populated with the appropriate values to indicate the country and the industry. The publisher would then generally set the isPrimary flag to *True* for the IndustryID, as it is more likely that an auto sector analyst will be interested in the report than an analyst researching French macroeconomic trends.

Complex elements

Focus	**Required, multiples allowed**

Focus

Indicates a primary focus of the ResearchProduct.
Implementation note: The value of the focus attribute must mate with the specific ...*ID* sub-element. That is, if the focus attribute is set to Industry, then include an *IndustryID* sub-element to specify which Industry. Note that although all of the ...ID options listed below are listed as Optional, the expectation is that the appropriate one that matches the value chosen in the Focus.focus attribute, and all others will be omitted.

Attributes

focus **Required** **rixmlenum:FocusEnum**

Indicates the focus itself, selected from the values in the FocusEnum enumeration list.

sequence **Optional** **xs:positiveInteger**

If there are multiple *Focus* elements specified in the FocusList, and they should appear in a certain order when the content is published, indicate the desired order by associating an appropriate sequence number to each one.

isPrimary **Required** **xs:boolean**

Indicates the primary focus when more than one is specified.
Implementation note: One (and only one) element in this List element should be set to *True*; all others should be set to *False*. Default value is *False;* make sure to set isPrimary to *True* when there is only one element in the list, and make sure to set isPrimary to *True for ONLY one* when there are multiples.

Complex elements (note: choice block, not sequence block – choose one)

AssetClassID	**Optional**
CountryID	**Optional**
CurrencyID	**Optional**
Discipline	**Optional**
EsgCategoryID	**Optional**
IndexID	**Optional**
IndustryID	**Optional**
IssuerID	**Optional**
MarketID	**Optional**
RegionID	**Optional**
SecurityID	**Optional**
Subject	**Optional**

Thematic tags

Key changes in 3.0

- Most of the tags related to describing the content in a research item were in the Source package in v2.5.
- ProductFocus has been renamed Focus, and is contained in the FocusList element to allow for multiples. It now also includes the ability to add an identifier to more clearly indicate the exact entity that is the focus (that is, if the focus is a security, you can add the security ID of the security that is the focus; or the industry ID can be added as the focus of a report tagged as having a focus of Industry). The intent is that the identifier indicated in the Focus element also exists in the relevant …List element, where more information about that entity is conveyed. (For example, if Focus = Security, then a SecurityID would be included in the *Focus* element; that SecurityID would also exist in that record's SecurityList, where the security's name and other relevant information would be conveyed.
- Asset class, asset type, and security type were separate tags in v2.5 and earlier, even though they were intended to act in a tree structure. We have merged these into AssetClass/AssetClassList
- SectorIndustry has been renamed Industry but continues to describe the full sector/industry tree structure
- See the list below for the …*List* tags that now appear as top-level tags in the Research standard; several of these did allow for multiples in prior versions, but we have now standardized the naming convention by using …List at the end of the element name (vs. Specialties > Specialty convention used before)
- We recommend reviewing each tag set in this section, as they have undergone a number of changes.

The tag sets in this section are the ones that answer the question, *What is this research item about?* The top level of the Research Standard provides the following tag sets aimed at describing the content in the research item:

AssetClassList	IndustryList
CountryList	IssuerList (which also contains the SecurityList element)
CurrencyList	MarketList
DisciplineList	RegionList
EsgCategoryList	SecurityList
IndexList	SubjectList

Indicating what a particular research report or other research item is about may involve using one or more of these tag sets; additionally, a report may include one or more items within each category. For example,

- A single company report could list one *Issuer*; it might also list additional issuers that are mentioned in the report, even if they aren't the primary focus.
- An industry overview could list individual companies in addition to listing the industry that is the main focus of the report; it could also indicate a country or region to indicate that the report is primarily discussing that industry's impact within one country or region.

To provide maximum flexibility and because the tag sets required to describe content will vary depending on the nature of an individual research item, these tags are all optional. The intent is that the publisher will select the tag set(s) needed to describe the content of the research item sufficiently to facilitate an end user finding it based on the tagging provided.

In addition to the tags required to describe the main topic(s) covered in a report, publishers may also include additional tags to provide more guidance about the content in the report: for example, an industry overview may also indicate that it is covering information regarding that industry's developments in a particular country or region, or may list a few companies that are mentioned with enough depth that a person searching for information about that company might find it useful.

By "mixing and matching" these tag sets, publishers can provide a rich description of the content covered in a research item. Aggregators use these tags to pull like information together; in turn, end users use aggregators' search tools to find research that meets their needs.

These …List elements live at the top level of the research standard, each one allowing multiple instances of the corresponding element that provides the full information about the relevant entity being described: the AssetClassList can house one or more AssetClass elements, the CountryList can house one or more Country elements, and so on. This is where the "full" information about each entity is provided.

However, there are other places throughout the Research standard where a publisher may want to refer to an entity, often to connect a certain piece of detailed data to the entity it applies or refers to; in these cases, it would be cumbersome to do so by re-using the element that contains the full information about the entity. Thus, the Research standard facilitates making these connections by including a reference to the identifier that the publisher has provided in the element containing the full information; when needed, multiple instances are contained within a corresponding …IDList element. (The Subject tag set is an exception, as subjects do not have an identifier.)

The grid on the following page provides a summary of how and where these tag sets are used across the Research standard; following that are details about all of the tags related to thematic content.

Summary of thematic tags used in the Research standard:

The **Full information** about an entity being described is contained within an element that contains the name of the entity, one or more identifiers (tickers, vendor identification codes, etc.), and other relevant details that vary depending on the entity being described. **Where found in the Research standard:** • These live within the corresponding …List element, described below • They also appear in the FocusEnum enumeration list (along with a few other values) • Country, Region, and Industry are also available in the Index element • Currency is also available in the FinancialsType element	AssetClass Country Currency Discipline EsgCategory Index Industry Issuer Market Region Security Subject
Each of these live in a corresponding **…List** element, whose sole purpose is to allow multiples of each element to be collected in a list. **Where found in the Research standard:** • All of these live within the top-level ResearchProduct element except the SecurityList element, which is nested within the Issuer element. • IndustryList and AssetClassList are also available within the Security element	AssetClassList CountryList CurrencyList DisciplineList EsgCategoryList IndexList IndustryList IssuerList MarketList RegionList SecurityList SubjectList
These entities need to be referred to for various reasons throughout the standard. For efficiency, most of these elements have an **…ID** element contained within the main **Full information** element. This …ID element is used rather than requiring the publisher to re-state the full information each time the entity is referenced. The …ID element can be used to connect the entity being described with the full information about the entity, as needed. **Where found in the Research standard:** • These …ID elements are included within the corresponding **Full** entry for a particular entity. • They are also found within the Focus element: depending on the value chosen from the FocusEnum list, the corresponding …ID element is populated to indicate *which* of the entries in the …List element is the main focus of the research report or item. • They are also found in the corresponding …IDList elements, described below. • The ContextTag element allows the publisher to provide some tagging for a particular component or resource; the identifiers are among the available tag sets • The RelatedProduct element also uses the IssuerID and SecurityID elements to allow the publisher to connect an individual RelatedProduct element with the issuer and/or security it is related to.	AssetClassID CountryID CurrencyID EsgCategoryID IndexID IndustryID IssuerID MarketID RegionID SecurityID (Note: Discipline and Subject do not have identifiers, so do not use this structure.)
Where multiples of the…ID elements are allowed, the …ID elements are wrapped in a corresponding **…IDList** element, whose sole purpose is to allow multiples of each element to be collected in a list. **Where found in the Research standard:** • These …ID elements are found within their corresponding …IDList elements throughout the Research Standard in places where multiple instances of the relevant entity is allowed – that is, when multiples *are* allowed. For example, many, but not all, of the …IDList elements are available in the CoverageAction, RatingAction, WeightingAction, ant TargetPriceAction elements • The DisclosureList element also uses the IssuerIDList and SecurityIDList elements to allow the publisher to connect an individual disclosure with the issuer and/or security it applies to.	AssetClassIDList CountryIDList CurrencyIDList EsgCategoryIDList IndexIDList IndustryIDList IssuerIDList MarketIDList RegionIDList SecurityIDList

Tags related to asset class

As with most of the thematic tag sets in the research standard, there are two tag sets for asset class. The AssetClassIDList is used when providing only the asset class ID is called for; for example, in the Focus tag set. The AssetClassList is used when providing more details regarding the asset class(es), including the name of the asset class.

Implementation note: See the grid in the introductory material for the Thematic Tags chapter above for details on where the various asset class-related tag sets are used and how they work.

Named type: AssetClassIDListType

The AssetClassIDListType exists to provide one structure for use in the AssetClassIDList element and the related ParentList and ChildList subelements within the AssetClass element.

AssetClassIDListType

Container type for one or more individual AssetClassID elements.

Complex elements

AssetClassID	**Required, multiples allowed**

Asset Class wrapper – with just asset class identifier information

Used in the Focus tag set or anywhere else the asset class identifier, without additional information, is used.

AssetClassIDList **AssetClassIDListType**

Container type for one or more individual AssetClassID elements.

Complex elements

AssetClassID	**Required, multiples allowed**

AssetClassID

Element for identifying an AssetClass by ID alone, without any additional information. Used alone within the AssetClassIDList element, as one subelement within the AssetClass element, as an option in the Focus element, and elsewhere in the standards whenever an asset class identifier is required.

Attributes

assetClass **Required** **rixmlenum:AssetClassEnum**

Indicates the asset class, selected from the values available in the AssetClassEnum list. This is the unique asset class identifier itself.

assetClassPublisherDefinedValue **Optional** **xs:string**

If the assetClass attribute is set to PublisherDefined, then the publisher's custom value is provided here. Implementation note: Should be used only when necessary, as not all aggregators or direct feed recipients process values outside of the enumeration list.

level **Optional** **xs:positiveInteger**

Indicates the level of this AssetClass within the corresponding AssetClass hierarchy. Top of the hierarchy is level 1, next level down is level 2, etc. Level is optional here, and only for convenience, because it is officially determined by the hierarchy definition.

tagSource **Optional** **xs:string**

In the case of a tag generated via an automated method (AI-based or other) rather than having been selected manually by an author or editor, this tagSource attribute would hold a free-form text value indicating the publisher's term for the tagging method used to create the tag value. Suggested values include: Author, Editor, RuleBasedAutomation, ArtificialIntelligence, or the name of the specific model or method used.

tagConfidence **Optional** **xs:decimal**

In the case of an automated tag, this tagConfidence attribute would hold a number between zero and one, with one representing perfect high confidence.
Implementation note: this value is typically generated by an automated tagging system.

Asset class wrapper – with full information

AssetClassList

Container type for one or more individual AssetClass elements.

Complex elements

AssetClass	**Required, multiples allowed**

AssetClass

Indicates that the ResearchProduct, or other sub-context, is about a particular asset class.

Attributes

coverageAction **Optional** **rixmlenum:CoverageActionEnum**

Highlights an action taken by the publisher. Indicates that the publisher is changing the coverage status of this coverable entity. Example: initiating coverage.

ratingAction **Optional** **rixmlenum:RatingActionEnum**

Highlights an action taken by the publisher. Indicates that the publisher is changing their rating on this coverable entity. Example: downgrading.

weightingAction **Optional** **rixmlenum:WeightingActionEnum**

Highlights an action taken by the publisher. Indicates that the publisher is changing the weighting of a weighting-eligible entity.

Elements

DisplayName **Optional** **xs:string**

The full display name of the AssetClass can be added here for human readability and convenience, but the AssetClassID.assetClass attribute is the actual identifier.

ParentList **Optional** **AssetClassIDListType**

Publishers can optionally choose to list out the parent nodes in the AssetClass hierarchy here for convenience. Implementation note: The parent and child elements are intended as guides to help discoverability. Adding a value to the Parent and/or Child element does not imply that the report discusses those asset classes; it simply indicates the value(s) above and below the tagged asset class in the asset class tree structure. Content recipients may or may not use the Parent and Child elements to help find broader or more granular related content.

ChildList **Optional** **AssetClassIDListType**

Publishers can optionally choose to list out the child nodes in the AssetClass hierarchy here for convenience. Implementation note: The parent and child elements are intended as guides to help discoverability. Adding a value to the Parent and/or Child element does not imply that the report discusses those asset classes; it simply indicates the value(s) above and below the tagged asset class in the asset class tree structure. Content recipients may or may not use the Parent and Child elements to help find broader or more granular related content.

Complex elements

AssetClassID	**Required**	**AssetClassID**
RatingList	**Optional**	
WeightingList	**Optional**	

Tags related to country

Implementation note: See the grid in the introductory material for the Thematic Tags chapter above for details on where the various country-related tag sets are used and how they work.

Country wrapper – with just country identifiers

Used in the Focus tag set or anywhere else the country identifier, without additional information, is used.

CountryIDList

Container element for one or more individual CountryID elements.

Complex elements

CountryID	**Required, multiples allowed**

CountryID

Element for identifying a Country, without any additional information. Used alone within the CountryIDList element, as one subelement within the Country element, as an option in the Focus element, and elsewhere in the standards whenever a country identifier is required.

Attributes

country **Required** **rixmlenum:ISO3166CountryType**

The ISO 3166 code for the country.

tagSource **Optional** **xs:string**

In the case of a tag generated via an automated method (AI-based or other) rather than having been selected manually by an author or editor, this tagSource attribute would hold a free-form text value indicating the publisher's term for the tagging method used to create the tag value. Suggested values include: Author, Editor, RuleBasedAutomation, ArtificialIntelligence, or the name of the specific model or method used.

tagConfidence **Optional** **xs:decimal**

In the case of an automated tag, this tagConfidence attribute would hold a number between zero and one, with one representing perfect high confidence.
Implementation note: this value is typically generated by an automated tagging system.

Country wrapper – with full details

CountryList

Container element for one or more individual Country elements.

Complex elements

Country	**Required, multiples allowed**	

Country

Indicates that the ResearchProduct, or other sub-context, is about a particular Country.

Attributes

isEmerging **Optional** **xs:boolean**

Indicates whether the publisher defines this country as an emerging market.
Implementation note: Default value is *False*, so can be omitted unless needed to indicate that isEmerging=*True*. Note that not all content recipients will process this flag, so publishers are encouraged to add a Region indicator of "EmergingMarkets" as well.

sequence **Optional** **xs:positiveInteger**

If there are multiple countries specified in the CountryList, and they should appear in a certain order when the content is published, indicate the desired order by associating an appropriate sequence number to each one.

isPrimary **Required** **xs:boolean**

Indicates the primary element when more than one is specified.
Implementation note: One (and only one) element in this List element should be set to True; all others should be set to False. Default value is False; make sure to set isPrimary to True when there is only one element in the list, and make sure to set isPrimary to True for ONLY one when there are multiples.

coverageAction **Optional** **rixmlenum:CoverageActionEnum**

Highlights an action taken by the publisher. Indicates that the publisher is changing the coverage status of this coverable entity. Example: initiating coverage.

ratingAction **Optional** **rixmlenum:RatingActionEnum**

Highlights an action taken by the publisher. Indicates that the publisher is changing their rating on this coverable entity. Example: downgrading.

weightingAction **Optional** **rixmlenum:WeightingActionEnum**

Highlights an action taken by the publisher. Indicates that the publisher is changing the weighting of a weighting-eligible entity.

Complex elements

CountryID	**Required**	**rixmlenum:ISO3166CountryType**
RatingList	**Optional**	
WeightingList	**Optional**	

Tags related to currency

Implementation note: See the grid in the introductory material for the Thematic Tags chapter above for details on where the various currency-related tag sets are used and how they work.

Currency wrapper – with just currency identifiers

Used in the Focus tag set or anywhere else the currency identifier, without additional information, is used.

CurrencyIDList

Container element for one or more individual CurrencyID elements.

Complex elements

CurrencyID	**Required, multiples allowed**

CurrencyID

Element for identifying a Currency, without any additional information. Used alone within the CurrencyIDList element, as one subelement within the Currency element, as an option in the Focus element, and elsewhere in the standards whenever a currency identifier is required.

Attributes

currency **Required** **rixmlenum:ISO4217CurrencyType**

Represented by the three letter alpha code defined by ISO 4217.

tagSource **Optional** **xs:string**

In the case of a tag generated via an automated method (AI-based or other) rather than having been selected manually by an author or editor, this tagSource attribute would hold a free-form text value indicating the publisher's term for the tagging method used to create the tag value. Suggested values include: Author, Editor, RuleBasedAutomation, ArtificialIntelligence, or the name of the specific model or method used.

tagConfidence **Optional** **xs:decimal**

In the case of an automated tag, this tagConfidence attribute would hold a number between zero and one, with one representing perfect high confidence.
Implementation note: this value is typically generated by an automated tagging system.

Currency wrapper – with full details

CurrencyList

Container element for one or more individual Currency elements.

Complex elements

Currency	**Required, multiples allowed**

Currency

Having currency as a possible product classification enables more accurate tagging for currency-related research content.
Implementation note: This Currency element requires that a specific currency is indicated; in general, the asset class will be set to Currency. For products discussing currencies in general (but not any particular currency or list of currencies), publishers should tag the asset class as Currency, but can omit the CurrencyList element.

Attributes

sequence **Optional** **xs:positiveInteger**

If there are multiple elements specified, and they should appear in a certain order when the content is published, indicate the desired order by associating an appropriate sequence number to each one.

isPrimary **Required** **xs:boolean**

Indicates the primary element when more than one is specified.
Implementation note: One (and only one) element in this List element should be set to *True*; all others should be set to *False*. Default value is *False;* make sure to set isPrimary to *True* when there is only one element in the list, and make sure to set isPrimary to *True for ONLY one when there are multiples*.

coverageAction **Optional** **rixmlenum:CoverageActionEnum**

Highlights an action taken by the publisher. Indicates that the publisher is changing the coverage status of this coverable entity. Example: initiating coverage.

ratingAction **Optional** **rixmlenum:RatingActionEnum**

Highlights an action taken by the publisher. Indicates that the publisher is changing their rating on this coverable entity. Example: downgrading.

weightingAction **Optional** **rixmlenum:WeightingActionEnum**

Highlights an action taken by the publisher. Indicates that the publisher is changing the weighting of a weighting-eligible entity.

Element

CurrencyName **Optional** **xs:string**

The element value can optionally be used to supply the currency name associated with the standard code for human readability and convenience; however, the Currency.CurrencyID element is the true indicator.

Complex elements

CurrencyID	**Required**
RatingList	**Optional**
WeightingList	**Optional**

Tags related to ESG

Implementation note: See the grid in the introductory material for the Thematic Tags chapter above for details on where the various ESG-related tag sets are used and how they work.

Named type: ESGCategoryIDListType

EsgCategoryIDListType

The EsgCategoryIDListType exists to provide one structure for use in the EsgCategoryIDListType element and the related ParentList and ChildList subelements within the EsgCategory element.

Complex elements

EsgCategoryID	**Required, multiples allowed**

ESG wrapper – with just ESG identifiers

Used in the Focus tag set or anywhere else the ESG identifier, without additional information, is used.

EsgCategoryIDList — EsgCategoryIDListType

Container type for one or more individual EsgCategoryID elements.

Complex elements

EsgCategoryID	**Required, multiples allowed**

EsgCategoryID

Element just for identifying an EsgCategory, without any additional information. Used alone within the EsgCategoryIDList element, as one subelement within the EsgCategory element, as an option in the Focus element, and elsewhere in the standards whenever an ESG identifier is required.

Attributes

esgCategory — **Required** — **rixmlenum:EsgCategoryEnum**

Indicates the ESG category itself.

Implementation note: unlike most of our other ...ID elements, the name of the ESG category, as shown in the ESGCategoryEnum enumeration list, is considered to be the identifier; there is no separate code.

esgCategoryPublisherDefinedValue — **Optional** — **xs:string**

If the esgCategory attribute is set to PublisherDefined, then the publisher's custom value is provided here.

Implementation note: Should be used only when necessary, as not all aggregators or direct feed recipients process values outside of the enumeration list.

level — **Optional** — **xs:positiveInteger**

Indicates the level of this EsgCategory within the corresponding ESG hierarchy. Top of the hierarchy is level 1, next level down is level 2, etc. Level is optional here, and for convenience only, because it is officially determined by the hierarchy definition.

tagSource — **Optional** — **xs:string**

In the case of a tag generated via an automated method (AI-based or other) rather than having been selected manually by an author or editor, this tagSource attribute would hold a free-form text value indicating the publisher's term for the tagging method used to create the tag value. Suggested values include: Author, Editor, RuleBasedAutomation, ArtificialIntelligence, or the name of the specific model or method used.

tagConfidence — **Optional** — **xs:decimal**

In the case of an automated tag, this tagConfidence attribute would hold a number between zero and one, with one representing perfect high confidence.

Implementation note: this value is typically generated by an automated tagging system.

ESG wrapper – with full details

EsgCategoryList

Container element for one or more individual EsgCategory elements.

Complex elements

EsgCategory	**Required, multiples allowed**

EsgCategory

Indicates that the ResearchProduct, or other sub-context, is about a particular ESG (Environmental, Social, Governance) theme.

Attributes

sequence **Optional** **xs:positiveInteger**

If there are multiple elements specified, and they should appear in a certain order when the content is published, indicate the desired order by associating an appropriate sequence number to each one.

isPrimary **Required** **xs:boolean**

Indicates the primary element when more than one is specified.
Implementation note: One (and only one) element in this List element should be set to *True*; all others should be set to *False*. Default value is *False;* make sure to set isPrimary to *True* when there is only one element in the list, and make sure to set isPrimary to *True for ONLY one when there are multiples*.

coverageAction **Optional** **rixmlenum:CoverageActionEnum**

Highlights an action taken by the publisher. Indicates that the publisher is changing the coverage status of this coverable entity. Example: initiating coverage.

ratingAction **Optional** **rixmlenum:RatingActionEnum**

Highlights an action taken by the publisher. Indicates that the publisher is changing their rating on this coverable entity. Example: downgrading.

weightingAction **Optional** **rixmlenum:WeightingActionEnum**

Highlights an action taken by the publisher. Indicates that the publisher is changing the weighting of a weighting-eligible entity.

Elements

EsgCategoryName **Optional** **xs:string**

The identifier information for tagging this EsgCategory to this ResearchProduct, or other sub-context.

DisplayName **Optional** **xs:string**

The full display name of the EsgCategory can be added here for human readability and convenience, but the EsgCategoryID.esgCategory attribute is the actual identifier.

ParentList **Optional** **EsgCategoryIDListType**

Publishers can optionally choose to list out the parent nodes in the EsgCategory hierarchy here for convenience.
Implementation note: The parent and child elements are intended as guides to help discoverability. Adding a value to the Parent and/or Child element does not imply that the report discusses those asset classes; it simply indicates the value(s) above and below the tagged asset class in the asset class tree structure. Content recipients may or may not use the Parent and Child elements to help find broader or more granular related content.

ChildList **Optional** **EsgCategoryIDListType**

Publishers can optionally choose to list out the child nodes in the EsgCategory hierarchy here for convenience.
Implementation note: The parent and child elements are intended as guides to help discoverability. Adding a value to the Parent and/or Child element does not imply that the report discusses those asset classes; it simply indicates the value(s) above and below the tagged asset class in the asset class tree structure. Content recipients may or may not use the Parent and Child elements to help find broader or more granular related content.

Complex elements

EsgCategoryID	**Required**	**EsgCategoryIDType**
WeightingList	**Optional**	
RatingList	**Optional**	

Tags related to index information

Used in the Focus tag set or anywhere else the index identifier, without additional information, is used.
Implementation note: See the grid in the introductory material for the Thematic Tags chapter above for details on where the various index-related tag sets are used and how they work.

Index wrapper – with just index identifiers

Used in the Focus tag set or anywhere else the index identifier, without additional information, is used.

IndexIDList

Container element for one or more individual IndexID elements.

Complex elements

IndexID	**Required, multiples allowed**

IndexID

Element for identifying an index, without any additional information. Used alone within the IndexIDList element, as one subelement within the Index element, as an option in the Focus element, and elsewhere in the standards whenever an indexidentifier is required.

Attributes

idType **Required** **rixmlenum:IssuerSecurityIDTypeEnum**

Indicates the protocol (classification scheme) used for the index identifier. Examples include CUSIP, RIC, Bloomberg, etc.

idTypePublisherDefinedValue **Optional** **xs:string**

If the IndexID.idType = PublisherDefined, then the publisher can indicate a type of index identifier not in the IssuerSecurityIDTypeEnum list.
Implementation note: Should be used only when necessary, as not all aggregators or direct feed recipients process values outside of the enumeration list.

idValue **Required** **xs:string**

The actual code identifying the index.

tagSource **Optional** **xs:string**

In the case of a tag generated via an automated method (AI-based or other) rather than having been selected manually by an author or editor, this tagSource attribute would hold a free-form text value indicating the publisher's term for the tagging method used to create the tag value. Suggested values include: Author, Editor, RuleBasedAutomation, ArtificialIntelligence, or the name of the specific model or method used.

tagConfidence **Optional** **xs:decimal**

In the case of an automated tag, this tagConfidence attribute would hold a number between zero and one, with one representing perfect high confidence.
Implementation note: this value is typically generated by an automated tagging system.

Index wrapper – with full details

IndexList

Container element for one or more individual Index elements.

Complex elements

Index	**Required, multiples allowed**

Index

Indicates an index mentioned in the product.

Attributes

type **Optional** **rixmlenum:IndexTypeEnum**

An indication of the type of index. Typically market, industry or country.

sequence **Optional** **xs:positiveInteger**

If there are multiple elements specified, and they should appear in a certain order when the content is published, indicate the desired order by associating an appropriate sequence number to each one.

isPrimary **Required** **xs:boolean**

Indicates the primary element when more than one is specified.
Implementation note: One (and only one) element in this List element should be set to *True*; all others should be set to *False*. Default value is *False;* make sure to set isPrimary to *True* when there is only one element in the list, and make sure to set isPrimary to *True for ONLY one when there are multiples*.

coverageAction **Optional** **rixmlenum:CoverageActionEnum**

Highlights an action taken by the publisher. Indicates that the publisher is changing the coverage status of this coverable entity. Example: initiating coverage.

ratingAction **Optional** **rixmlenum:RatingActionEnum**

Highlights an action taken by the publisher. Indicates that the publisher is changing their rating on this coverable entity. Example: downgrading.

weightingAction **Optional** **rixmlenum:WeightingActionEnum**

Highlights an action taken by the publisher. Indicates that the publisher is changing the weighting of a weighting-eligible entity.

Element

IndexName **Optional** **xs:string**

A descriptive name of the index suitable for display purposes.

Complex elements

IndexID	**Required**
CountryID	**Optional**
RegionID	**Optional**
IndustryID	**Optional**
RatingList	**Optional**
WeightingList	**Optional**

Tags related to industry (and sector) information

See the grid in the introductory material for the Thematic Tags chapter above for details on where the various sector/industry-related tag sets are used and how they work.

The sector or industry classification to which a security belongs, or about which the research product is written.

Implementation note: Including industry tagging is required when the focus is set to *Industry* and is strongly recommended for company or other issuer-based research. GICS is the default sector/industry classification scheme used in the RIXML standards. For sector/industry thematic research, the GICS sector / industry classification that most closely matches what the product is written about should be included; for company research, the GICS classification can be provided for each security mentioned in the product. Publishers can provide additional sector/industry codes in addition to the GICS code(s), including codes for other classification schemes and for the publishers' own codes.

Named type: IndustryIDListType

IndustryIDListType

The IndustryIDListType exists to provide one structure for use in the IndustryIDListType element and the related ParentList and ChildList subelements within the Industry element.

Container type for one or more individual IndustryID elements.

Complex elements

IndustryID	**Required, multiples allowed**

Industry wrapper – with just industry identifiers

Used in the Focus tag set or anywhere else the industry identifier, without additional information, is used.

IndustryIDList **IndustryIDListType**

Container type for one or more individual IndustryID elements.

Complex elements

IndustryID	**Required, multiples allowed**

IndustryID

Element for identifying an Industry, without any additional information. Used alone within the IndustryIDList element, as one subelement within the Industry element, as an option in the Focus element, and elsewhere in the standards whenever an industry identifier is required.

Attributes

industry **Required** **xs:string**

Indicates the industry itself. This is the unique industry identifier within the referenced industry taxonomy. Note that these identifiers are not bound to an enumerated pick list in this schema; instead, they come from the referenced taxonomy, which is defined externally.

industryTaxonomy **Required** **rixmlenum:IndustryTaxonomyEnum**

Name of the taxonomy, hierarchy, or classification method used, in which the specified industry identifier has meaning.

Implementation note: the Publisher option in this attribute is used to indicate that the value provided in the IndustryID.industry attribute is a term from the publisher's own taxonomy. Note that not all aggregators or other consumers will process this value.

level **Optional** **xs:positiveInteger**

Indicates the level of this Industry within the corresponding Industry hierarchy. Top of the hierarchy is level 1, next level down is level 2, etc. Level is optional here because it is usually determined by the specific industry taxonomy.

tagSource **Optional** **xs:string**

In the case of a tag generated via an automated method (AI-based or other) rather than having been selected manually by an author or editor, this tagSource attribute would hold a free-form text value indicating the publisher's term for the tagging method used to create the tag value. Suggested values include: Author, Editor, RuleBasedAutomation, ArtificialIntelligence, or the name of the specific model or method used.

tagConfidence **Optional** **xs:decimal**

In the case of an automated tag, this tagConfidence attribute would hold a number between zero and one, with one representing perfect high confidence.

Implementation note: this value is typically generated by an automated tagging system.

Elements

DisplayName **Optional** **xs:string**

The full display name of the Industry can be added here for human readability and convenience, but the industry attribute is the actual identifier.

Industry wrapper – with full details

IndustryList

Container type for one or more individual Industry elements.

Complex elements

Industry	**Required, multiples allowed**

Industry

Indicates an industry mentioned in the research product.

Attributes

officiallyClassified **Optional** **xs:boolean**

For cases in which this Industry is associated with an Issuer or Security, the officiallyClassified attribute indicates whether or not that association is official within the cited taxonomy or represents an estimated or best-fit or best-guess association.

Implementation note: Default value is *False*, so can be omitted unless needed to indicate that officiallyClassified=*True*.

sequence **Optional** **xs:positiveInteger**

If there are multiple elements specified, and they should appear in a certain order when the content is published, indicate the desired order by associating an appropriate sequence number to each one.

isPrimary **Required** **xs:boolean**

Indicates the primary element when more than one is specified.

Implementation note: One (and only one) element in this List element should be set to *True*; all others should be set to *False*. Default value is *False;* make sure to set isPrimary to *True* when there is only one element in the list, and make sure to set isPrimary to *True for ONLY one when there are multiples*.

coverageAction **Optional** **rixmlenum:CoverageActionEnum**

Highlights an action taken by the publisher. Indicates that the publisher is changing the coverage status of this coverable entity. Example: initiating coverage.

ratingAction **Optional** **rixmlenum:RatingActionEnum**

Highlights an action taken by the publisher. Indicates that the publisher is changing their rating on this coverable entity. Example: downgrading.

weightingAction **Optional** **rixmlenum:WeightingActionEnum**

Highlights an action taken by the publisher. Indicates that the publisher is changing the weighting of a weighting-eligible entity.

Elements

IndustryIDList	**Required**	**IndustryIDListType**

Complex elements

ParentList **Optional** **IndustryIDListType**

Publishers can optionally choose to list out the parent nodes in the Industry hierarchy here for convenience. Implementation note: The parent and child elements are intended as guides to help discoverability. Adding a value to the Parent and/or Child element does not imply that the report discusses those asset classes; it simply indicates the value(s) above and below the tagged asset class in the asset class tree structure. Content recipients may or may not use the Parent and Child elements to help find broader or more granular related content.

ChildList **Optional** **IndustryIDListType**

Publishers can optionally choose to list out the child nodes in the Industry hierarchy here for convenience. Implementation note: The parent and child elements are intended as guides to help discoverability. Adding a value to the Parent and/or Child element does not imply that the report discusses those asset classes; it simply indicates the value(s) above and below the tagged asset class in the asset class tree structure. Content recipients may or may not use the Parent and Child elements to help find broader or more granular related content.

RatingList **Optional**

WeightingList **Optional**

Tags related to issuer (corporate, governmental, or other)

In the RIXML Standards Suite, *Issuer* refers to any entity that issues any type of security; *Security* refers to a particular security. *Security* tagging lives within the *Issuer* module, although the *Security* tag set is optional and does not apply to all situations. Some issuers issue both equity and fixed income securities; others issue just one; additionally, an individual research item may discuss a particular security or it may discuss the issuer itself. For example, an equity single company report would likely be most accurately tagged at the security level, whereas a report published by a municipal bond analyst would likely be most accurately tagged at the issuer level, with the analysis applying to most or all of that issuer's bonds.

Implementation note: See the grid in the introductory material for the Thematic Tags chapter above for details on where the various issuer- and security-related tag sets are used and how they work.

Issuer wrapper – with just Issuer ID

Used in the Focus tag set or anywhere else the issuer identifier, without additional information, is used.

IssuerIDList

Container element for one or more individual IssuerID elements.
Implementation note: The IssuerIDList is used in various places across the standards. When issuer ID(s) are listed within an IssuerIDList container, the intent is that the main IssuerList top-level container element should also be populated with an entry for that issuer, allowing the publisher to provide additional information about the issuer.

Complex elements

IssuerID	**Required, multiples allowed**

IssuerID

Used to uniquely identify the issuer. Used alone within the IssuerIDList element, as one subelement within the Issuer element, as an option in the Focus element, and elsewhere in the standards whenever an issuer identifier is required.

Root element details

[Element value is entered here]	**Required**	**xs:string**

Attributes

idType **Required** **rixmlenum:IssuerSecurityIDTypeEnum**
Indicates the protocol used for the issuer identifier (i.e. the Issuer classification scheme). Note that since there is no universally accepted means of identifying an Issuer (as opposed to a specific security), IssuerID allows the use of what are technically security identifers as a means of identifying an Issuer (CUSIP, SEDOL, etc).

idTypePublisherDefinedValue **Optional** **xs:string**
If the IssuerID.idType = PublisherDefined, then the publisher can indicate what type of identifier has been used.
Implementation note: Should be used only when necessary, as not all aggregators or direct feed recipients process values outside of the enumeration list. For use to add an aggregator-specific value, consult the aggregator to obtain the exact value to be used.

tagSource **Optional** **xs:string**
In the case of a tag generated via an automated method (AI-based or other) rather than having been selected manually by an author or editor, this tagSource attribute would hold a free-form text value indicating the publisher's term for the tagging method used to create the tag value. Suggested values include: Author, Editor, RuleBasedAutomation, ArtificialIntelligence, or the name of the specific model or method used.

tagConfidence **Optional** **xs:decimal**
In the case of an automated tag, this tagConfidence attribute would hold a number between zero and one, with one representing perfect high confidence.
Implementation note: this value is typically generated by an automated tagging system.

Issuer wrapper – with full details

IssuerList

Container element for one or more individual Issuer elements.

Complex elements

Issuer	**Required, multiples allowed**

Issuer

Attributes

issuerType **Required** **rixmlenum:IssuerTypeEnum**

Indicates the type of Issuer. For example, can be agency, government or corporate.

domicileCountryCode **Optional** **rixmlenum:ISO3166CountryType**

Indicates the country where the Issuer is domiciled, represented by the ISO 3166 country code.

fiscalYearEnd **Optional** **xs:gMonthDay**

Combination of Day and Month that indicates the fiscal year end of the Issuer.

sequence **Optional** **xs:positiveInteger**

If there are multiple elements specified, and they should appear in a certain order when the content is published, indicate the desired order by associating an appropriate sequence number to each one.

isPrimary **Required** **xs:boolean**

Indicates the primary element when more than one is specified.

Implementation note: One (and only one) element in this List element should be set to *True*; all others should be set to *False*. Default value is *False;* make sure to set isPrimary to *True* when there is only one element in the list, and make sure to set isPrimary to *True* for *ONLY* one when there are multiples.

coverageAction **Optional** **rixmlenum:CoverageActionEnum**

Highlights an action taken by the publisher. Indicates that the publisher is changing the coverage status of this coverable entity. Example: initiating coverage.

ratingAction **Optional** **rixmlenum:RatingActionEnum**

Highlights an action taken by the publisher. Indicates that the publisher is changing their rating on this coverable entity. Example: downgrading.

weightingAction **Optional** **rixmlenum:WeightingActionEnum**

Highlights an action taken by the publisher. Indicates that the publisher is changing the weighting of a weighting-eligible entity.

Elements

LogoURL **Optional** **xs:anyURI**

Indicates a web URL location of a logo graphic for the Issuer.

Description **Optional** **xs:string**

A text description (name) of the Issuer. Strongly Recommended element.

Complex elements

IssuerNameList	**Required**
IssuerIDList	**Optional**
FinancialDates	**Optional**
IssuerFinancialsList	**Optional**
RatingList	**Optional**
WeightingList	**Optional**
IndustryList	**Optional**

This is the list of industries of which the Issuer is a participant. This is not necessarily the list of industries discussed in this ResearchProduct.

SecurityList **Optional**

This is the list of securities issued by this Issuer that are also discussed in this ResearchProduct.

Subset of issuer: issuer name

IssuerNameList

Container element for one or more individual IssuerName elements.

Complex elements

IssuerName	**Required, multiples allowed**

IssuerName

This is the name of the Issuer.

Root element details

[Element value is entered here]	**Required**	**xs:string**

Attributes

issuerNameType	**Required**	**rixmlenum:OrganizationNameTypeEnum**

An issuer can have multiple names. Each name can be one of the following types: legal, local, display, parent, trade. Use Display if using only one issuerNameType, unless one of the other issuerNameTypes is preferred.

Subset of issuer: issuer financials

IssuerFinancialsList

Container element for one or more individual IssuerFinancials elements.

Complex elements

IssuerFinancials	**Required, multiples allowed**

IssuerFinancials

Financial data related to the issuer of a security.

Attributes

issuerFinancialsType	**Required**	**rixmlenum:IssuerFinancialsTypeEnum**

Subset of issuer: the Security wrapper – with just security identifiers

SecurityIDList

Container element for one or more individual SecurityID elements.
Implementation note: TheSecurityIDList is used in various places across the standards. When security ID(s) are listed within an SecurityIDList container, the intent is that the main SecurityList top-level container element should also be populated with an entry for that security, allowing the publisher to provide additional information about the security.

Complex elements

SecurityID	**Required, multiples allowed**

SecurityID

Used to uniquely identify the security. Used alone within the SecurityIDList element, as one subelement within the Security element, and elsewhere in the standards whenever a security identifier is required.

Attributes

idType **Required** **rixmlenum:IssuerSecurityIDTypeEnum**

Indicates the protocol used for the security identifier (i.e. the Security classification scheme). Examples include CUSIP, RIC, Bloomberg, etc.

idTypePublisherDefinedValue **Optional** **xs:string**

If the SecurityID.idType = PublisherDefined, then the publisher can indicate a type of security identifier not in the IssuerSecurityIDTypeEnum list.
Implementation note: Should be used only when necessary, as not all aggregators or direct feed recipients process values outside of the enumeration list. For use to add an aggregator-specific value, consult the aggregator to obtain the exact value to be used.

idValue **Required** **xs:string**

The actual unique identifier for this security. Example: MSFT.O is correct idValue for Microsoft Common Shares using the Reuters RIC scheme.

marketCountryCode **Optional** **rixmlenum:ISO3166CountryType**

The ISO 3166 Country code for the country in which the trading exchange or market operates.

tagSource **Optional** **xs:string**

In the case of a tag generated via an automated method (AI-based or other) rather than having been selected manually by an author or editor, this tagSource attribute would hold a free-form text value indicating the publisher's term for the tagging method used to create the tag value. Suggested values include: Author, Editor, RuleBasedAutomation, ArtificialIntelligence, or the name of the specific model or method used.

tagConfidence **Optional** **xs:decimal**

In the case of an automated tag, this tagConfidence attribute would hold a number between zero and one, with one representing perfect high confidence.
Implementation note: this value is typically generated by an automated tagging system.

Complex elements

MarketID	**Optional**

Subset of issuer: the Security wrapper – with full details

SecurityList

Container element for one or more individual Security elements.

Complex elements

Security	**Required, multiples allowed**

Security

Information about a particular security that describes the type of security and how to identify it. A security is always issued by an issuer, therefore, if a security is being mentioned, it must be attached to an Issuer element.

Attributes

targetPriceAction **Optional** **rixmlenum:TargetPriceActionEnum**

Highlights an action taken by the publisher. Indicates that the publisher is changing their target price estimate for a Security. Example: a publisher increases a target price for Security ABC to $100.

estimateAction **Optional** **rixmlenum:EstimateActionEnum**

Highlights an action taken by the publisher. Indicates that the publisher is changing their earnings estimates for a Security. Example: a publisher decreases all their earnings estimates for Security ABC.

sequence **Optional** **xs:positiveInteger**

If there are multiple elements specified, and they should appear in a certain order when the content is published, indicate the desired order by associating an appropriate sequence number to each one.

isPrimary **Required** **xs:boolean**

Indicates the primary element when more than one is specified.
Implementation note: One (and only one) element in this List element should be set to *True*; all others should be set to *False*. Default value is *False;* make sure to set isPrimary to *True* when there is only one element in the list, and make sure to set isPrimary to *True* for *ONLY* one when there are multiples.

coverageAction **Optional** **rixmlenum:CoverageActionEnum**

Highlights an action taken by the publisher. Indicates that the publisher is changing the coverage status of this coverable entity. Example: initiating coverage.

ratingAction **Optional** **rixmlenum:RatingActionEnum**

Highlights an action taken by the publisher. Indicates that the publisher is changing their rating on this coverable entity. Example: downgrading.

weightingAction **Optional** **rixmlenum:WeightingActionEnum**

Highlights an action taken by the publisher. Indicates that the publisher is changing the weighting of a weighting-eligible entity.

Elements

SecurityName	**Optional**	**xs:string**
SecurityShortName	**Optional**	**xs:string**

Optional short name commonly used to identify the Security.

Complex elements

SecurityIDList	**Required**
FinancialDates	**Optional**
SecurityFinancialsList	**Optional**
RatingList	**Optional**
WeightingList	**Optional**
IndustryList	**Optional**

This is the list of industries of which the Security is a participant. This is not necessarily the list of industries discussed in this ResearchProduct.

AssetClassList **Optional**

This is the list of asset classes of which the Security is a participant. This is not necessarily the list of asset classes discussed in this ResearchProduct.

Subset of security: security financials

SecurityFinancialsList

Container element for one or more individual SecurityFinancials elements.

Complex elements

SecurityFinancials	**Required, multiples allowed**

SecurityFinancials

Describes the financials associated with a security.

Attributes

securityFinancialsType	**Required**	**rixmlenum:SecurityFinancialsTypeEnum**
dilution	**Optional**	**rixmlenum:SecurityDilutionEnum**

Tags related to market

Implementation note: See the grid in the introductory material for the Thematic Tags chapter above for details on where the various market-related tag sets are used and how they work.

Tags related to markets

Implementation note: See the grid in the introductory material for the Thematic Tags chapter above for details on where the various market-related tag sets are used and how they work.

Market wrapper – with just market identifiers

Used in the Focus tag set or anywhere else the market identifier, without additional information, is used.

MarketIDList

Container element for one or more individual MarketID elements.

Complex elements

MarketID	**Required, multiples allowed**

MarketID

Element for identifying a Market (an exchange), without any additional information. Used alone within the MarketIDList element, as one subelement within the Market element, as an option in the Focus element, and elsewhere in the standards whenever a market identifier is required.

Attributes

market	**Required**	**rixmlenum: ISO10383MarketType**

ISO 10383 Market Identifier Code (MIC) used to precisely identify the exchange upon which the security trades.

Market wrapper – with full details

MarketList

Container element for one or more individual Market elements.

Complex elements

Market	**Required, multiples allowed**

Market

Used to identify a specific exchange, trading platform, regulated or non-regulated market or trade reporting facility by its ISO standard code.

Element

MarketName	**Optional**	**xs:string**

The element value can optionally be used to supply the market name associated with the standard code for human readability and convenience.

Complex elements

MarketID	**Optional**	**rixmlenum:ISO10383ExchangeType**
RatingList	**Optional**	
WeightingList	**Optional**	

Tags related to region

There is no definitive definition of “region” that is used consistently for investment research content; additionally, the concept of a “region” encompasses geographic regions, geopolitical regions, and economic regions. The RIXML standards are designed to accommodate both definitions. Since publishers, aggregators, and research consumers generally create their own region structure based on their firms’ needs, it will generally be the case that each firm will need to map their own region taxonomy to the RIXML standard taxonomy; this is still more efficient than each firm needing to create mappings for each of the firms with whom they interact.

Implementation note: See the grid in the introductory material for the Thematic Tags chapter above for details on where the various region-related tag sets are used and how they work.

Region wrapper – with just region identifiers

Used in the Focus tag set or anywhere else the region identifier, without additional information, is used.

RegionIDList

Container element for one or more individual RegionID elements.

Complex elements

RegionID	**Required, multiples allowed**

RegionID

Element for identifying a Region, without any additional information. Used alone within the RegionIDList element, as one subelement within the Region element, as an option in the Focus element, and elsewhere in the standards whenever a region identifier is required.

Attributes

region	**Required**	**rixmlenum:RegionEnum**
regionPublisherDefinedValue	**Optional**	**xs:string**
tagSource	**Optional**	**xs:string**

In the case of a tag generated via an automated method (AI-based or other) rather than having been selected manually by an author or editor, this tagSource attribute would hold a free-form text value indicating the publisher's term for the tagging method used to create the tag value. Suggested values include: Author, Editor, RuleBasedAutomation, ArtificialIntelligence, or the name of the specific model or method used.

tagConfidence	**Optional**	**xs:decimal**

In the case of an automated tag, this tagConfidence attribute would hold a number between zero and one, with one representing perfect high confidence.

Implementation note: this value is typically generated by an automated tagging system.

Region wrapper – with full details

RegionList

Container element for one or more individual Region elements.

Complex elements

Region	**Required, multiples allowed**

Region

Indicates a region discussed in the product.

Attributes

isEmerging **Optional** **xs:boolean**

Indicates whether this Region is defined by the publisher as an emerging market.
Implementation note: Default value is *False*, so can be omitted unless needed to indicate that isEmerging=*True*.

sequence **Optional** **xs:positiveInteger**

If there are multiple elements specified, and they should appear in a certain order when the content is published, indicate the desired order by associating an appropriate sequence number to each one.

isPrimary **Required** **xs:boolean**

Indicates the primary element when more than one is specified.
Implementation note: One (and only one) element in this List element should be set to *True*; all others should be set to *False*. Default value is *False;* make sure to set isPrimary to *True* when there is only one element in the list, and make sure to set isPrimary to *True for ONLY one when there are multiples*.

coverageAction **Optional** **rixmlenum:CoverageActionEnum**

Highlights an action taken by the publisher. Indicates that the publisher is changing the coverage status of this coverable entity. Example: initiating coverage.

ratingAction **Optional** **rixmlenum:RatingActionEnum**

Highlights an action taken by the publisher. Indicates that the publisher is changing their rating on this coverable entity. Example: downgrading.

weightingAction **Optional** **rixmlenum:WeightingActionEnum**

Highlights an action taken by the publisher. Indicates that the publisher is changing the weighting of a weighting-eligible entity.

Elements

RegionName **Optional**

When the RegionID is an abbreviation or otherwise not self-evident, the optional RegionName can be used to provide the full name. Example: MENA = Middle East and North Africa.

Complex elements

RegionID	**Required**
RatingList	**Optional**
WeightingList	**OptionalTags related to subject**

Tags related to subject

Prior versions of the RIXML standards had separate tags and enumeration lists for subject and for specialty. Although originally intended to serve different purposes, over time the distinction became less clear. As a result, the enumeration lists no longer represented distinct types of values, which often caused publishers to use both elements simply to access the values that best described their content. The Subject and Specialty elements have been combined for the 3.0 release, and the enumeration lists have been merged, standardized, and enhanced.
Implementation note: See the grid in the introductory material for the Thematic Tags chapter above for details on where the various subject-related tag sets are used and how they work.

SubjectList

Container element for one or more individual Subject elements.

Complex elements

Subject	**Required, multiples allowed**

Subject

Strongly recommended. Indicates a subject, or sub-topic, of the product. There is a standard set of subjects defined by RIXML including market opening comments, accounting and tax policy, and earnings surprise. If these do not fully represent the subject, the publisher may use a publisher defined subject value.

Attributes

subject **Required** **rixmlenum:SubjectEnum**

A subject, or sub-topic, discussed in this ResearchProduct.

subjectPublisherDefinedValue **Optional** **xs:string**

If the subject = PublisherDefined, then the publisher can indicate a subject not in the SubjectEnum list.
Implementation note: Should be used only when necessary, as not all aggregators or direct feed recipients process values outside of the enumeration list. For use to add an aggregator-specific value, consult the aggregator to obtain the exact value to be used.

tagSource **Optional** **xs:string**

In the case of a tag generated via an automated method (AI-based or other) rather than having been selected manually by an author or editor, this tagSource attribute would hold a free-form text value indicating the publisher's term for the tagging method used to create the tag value. Suggested values include: Author, Editor, RuleBasedAutomation, ArtificialIntelligence, or the name of the specific model or method used.

tagConfidence **Optional** **xs:decimal**

In the case of an automated tag, this tagConfidence attribute would hold a number between zero and one, with one representing perfect high confidence.
Implementation note: this value is typically generated by an automated tagging system.

Key metrics and related actions

This chapter covers coverage actions, estimate actions, ratings and rating actions, target price actions, and weightings and weighting actions.

Key changes in 3.0

- A new ActionList element has been added to act as a container for coverage actions, estimate actions, rating actions, target price actions, and weighting actions.
- Ratings are now contained within a RatingList wrapper to enable multiples
- Weightings are now contained within a WeightingList wrapper to enable multiples
- The values used in the enumeration lists for these elements has been updated for consistency and completeness
- Each publisherDefinedValue has been renamed to include an indication of the element it is part of (e.g., *rating*PublisherDefinedValue)

Tags related to actions

The overall Action wrapper element

ActionList

Container element for zero or more finer-grained ActionList elements.

Complex elements	
CoverageActionList	**Optional**
RatingActionList	**Optional**
WeightingActionList	**Optional**
EstimateActionList	**Optional**
TargetPriceActionList	**Optional**

Contained within ActionList: coverage action information

CoverageActionList

Container element for one or more individual CoverageAction elements.

Complex elements

CoverageAction	**Required, multiples allowed**

CoverageAction

Describes a coverage action, indicating a change in coverage announced in this ResearchProduct.

Attributes

coverageAction	**Required**	**rixmlenum:CoverageActionEnum**

Indicates the specific type of coverage action, such as Initiate or Drop, that applies to all the listed targets.

Complex elements

AssetClassIDList	**Optional**
CountryIDList	**Optional**
CurrencyIDList	**Optional**
DisciplineList	**Optional**
EsgCategoryIDList	**Optional**
IndexIDList	**Optional**
IndustryIDList	**Optional**
IssuerIDList	**Optional**
MarketIDList	**Optional**
RegionIDList	**Optional**
SecurityIDList	**Optional**
SubjectList	**Optional**

Contained within ActionList: estimate action information

EstimateActionList

Container element for one or more individual EstimateAction elements.

Complex elements

EstimateAction	**Required, multiples allowed**

EstimateAction

Describes an estimate action, indicating a change in estimate announced in this ResearchProduct.

Attributes

estimateAction	**Required**	**rixmlenum:EstimateActionEnum**

Indicates the specific type of estimate action, such as Increase or Decrease, that applies to all the listed targets.

Complex elements

CurrencyIDList	**Optional**
IndexIDList	**Optional**
SecurityIDList	**Optional**

Contained within ActionList: rating action information

RatingActionList

Container element for one or more individual RatingAction elements.

Complex elements

RatingAction	**Required, multiples allowed**

RatingAction

Describes a rating action, indicating a change in rating announced in this ResearchProduct.

Attributes

ratingAction	**Required**	**rixmlenum:RatingActionEnum**

Indicates the specific type of rating action, such as Upgrade or Downgrade, that applies to all the listed targets. The enumeration list includes values to be used when stating a rating, when indicating an outlook, and when indicating that the rating is under review.

Complex elements

AssetClassIDList	**Optional**
CountryIDList	**Optional**
CurrencyIDList	**Optional**
EsgCategoryIDList	**Optional**
IndexIDList	**Optional**
IndustryIDList	**Optional**
IssuerIDList	**Optional**
MarketIDList	**Optional**
RegionIDList	**Optional**
SecurityIDList	**Optional**

Contained within ActionList: weighting action information

In addition to being included in the ActionList element for use in all places the ActionList is available, WeightingAction is available as a standalone element within the AssetClass and ESGCategory tag sets.

WeightingActionList

Container element for one or more individual WeightingAction elements.

Complex elements

WeightingAction	**Required, multiples allowed**

WeightingAction

Describes a weighting action, indicating a change in weighting announced in this ResearchProduct.

Attributes

weightingAction	**Required**	**rixmlenum:WeightingActionEnum**

Indicates the specific type of weighting action, such as Increase or Decrease, that applies to all the listed targets.

Complex elements

AssetClassIDList	**Optional**
CountryIDList	**Optional**
CurrencyIDList	**Optional**
EsgCategoryIDList	**Optional**
IndexIDList	**Optional**
IndustryIDList	**Optional**
IssuerIDList	**Optional**
MarketIDList	**Optional**
RegionIDList	**Optional**
SecurityIDList	**Optional**

Contained within ActionList: target price action information

TargetPriceActionList

Container element for one or more individual TargetPriceAction elements.

Complex elements

TargetPriceAction	**Required, multiples allowed**

TargetPriceAction

Describes a target price action, indicating a change in target price announced in this ResearchProduct.

Attributes

targetPriceAction	**Required**	**rixmlenum:TargetPriceActionEnum**

Indicates the specific type of target price action, such as Increase or Decrease, that applies to all the listed securities.

Complex elements

CurrencyIDList	**Optional**
IndexIDList	**Optional**
SecurityIDList	**Optional**

Tags related to ratings

Note that the tags related to a ratings **action** are found in the "action list" section, below.

The Rating wrapper

RatingList

Container element for one or more individual Rating elements.

Complex elements

Rating	**Required, multiples allowed**

Rating

This is information regarding ratings. These can be about the issuer of a security or about a security itself, an industry, a country, or other entities.

Attributes

timeFrame **Optional** **rixmlenum:TermEnum**

This is the period for which the rating is relevant, as of the date it was established by the authoring entity.

priorCurrent **Optional** **rixmlenum:PriorCurrentTypeEnum**

Used to indicate whether the rating is current or prior.

Implementation note: default is *Current*. *Prior* is only used to give reference for a change from a prior rating; it is used to indicate what the prior figure was for the period specified in order to give context to the current figure, not to report the figure for a prior time period. Should be omitted in records when only current ratings are being provided; when a prior rating is being provided, including the priorCurrent flag for both the prior and the current ratings is recommended, for clarity.

relationship **Optional** **rixmlenum:RatingRelationshipEnum**

Provides a context for the rating; that is, what it is relative to – coverage universe, industry, etc.

volatile **Optional** **xs:boolean**

This tag is used to indicate the high potential for price fluctuation of the entity being rated; it does not indicate the volatility of the rating itself.

Implementation note: Default value is *False*, so can be omitted unless needed to indicate that volatile=*True*. In practice, most publishers only indicate volatility risk when it is high, that is, when volatilityRisk attribute would be included and volatilityRisk=High.

volatilityRisk **Optional** **rixmlenum:RatingVolatilityRiskEnum**

An indication of the potential price fluctuation of the rated entity.

rating **Required** **rixmlenum:RatingEnum**

The actual rating as issued by the authoring entity, using a standardized set of options for consistency across publishers.

ratingPublisherDefinedValue **Optional** **xs:string**

If the rating attribute is set to PublisherDefined, then the publisher's custom value is provided here; it can also be used to provide a rating using the terminology provided by an aggregator, client, or other content recipient.

Implementation note: This attribute allows the publisher to provide its own rating (using its own terminology and scale). Publishers choosing to use the PublisherDefined option are strongly encouraged to do so in addition to selecting the closest relevant value in the Rating.rating attribute, not instead of one. Not all aggregators or direct feed recipients process values outside of the enumeration list. For use to add an aggregator- or client-specific value, consult the aggregator or client to obtain the exact value to be used.

ratingDateTime **Optional** **xs:dateTime**

Permits tagging a rating with the publication date/time, in case it differs from the publicaton date/time of the research item being described.

Implementation note: This attribute uses the XML standard xs:dateTime datatype; additionally, time is required to be expressed using Coordinated Universal Time (UTC) for consistency. See details in enumeration list section.

ratingType **Optional** **rixmlenum:RatingTypeEnum**

Permits tagging a rating with an additional type that provides more information about the rating's context; that is, whether it represents a rating, a rating review, or a rating outlook.

Implementation note: default is *Rating*, can be omitted unless indicating a review or outlook.

aspect **Optional** **rixmlenum:RatingAspectEnum**

Permits tagging a rating with the aspect of the rated entity addressed by the rating itself.

ratingAction **Optional** **rixmlenum:RatingActionEnum**

Highlights an action taken by the publisher. Indicates that the publisher is changing their rating on the entity enclosing this Rating element. This is the preferred location for ratingAction specifiers, as opposed to within the corresponding attributes of the enclosing rated entity. In this manner, a ratingAction specifier applies to the rating element itself, permitting multiple ratings of the same entity to have independent corresponding actions.

Complex elements

RatingEntity **Required**

Elements

Description **Optional** **xs:string**

A description of the rating. May include time horizon.

Contained within Rating: rating entity information

RatingEntity

The rating entity featured in the research item. This may be a publisher or an independent agency.

Attributes

ratingEntity **Required** **rixmlenum:RatingEntityEnum**

ratingEntityPublisherDefinedValue **Optional** **xs:string**

Used when the ratingEntity value is PublisherDefined.

Tags related to weighting

Note that the tags related to a weighting **action** are found in the separate "action list" section.

WeightingList

Container element for one or more individual Weighting elements.

Complex elements

Weighting	**Required, multiples allowed**

Weighting

This is information regarding weightings. These can be about the country, region, asset type, or other entities.

Attributes

timeFrame **Optional** **rixmlenum:TermEnum**

This is the period for which the weighting is relevant, as of the date it was established by the authoring entity.

priorCurrent **Optional** **rixmlenum:PriorCurrentTypeEnum**

Used to indicate whether the weighting is current or prior.
Publication note: default is Current. Prior is only used to give reference for a change from a prior weighting; it is used to indicate what the prior figure was for the period specified in order to give context to the current figure, not to report the figure for a prior time period. Should be omitted in records when only current weightings are being provided; when a prior weighting is being provided, including the priorCurrent flag for both the prior and the current weightings is recommended, for clarity.

weighting **Required** **rixmlenum:WeightingEnum**

The actual weighting as issued by the authoring entity.

weightingPublisherDefinedValue **Optional** **xs:string**

If the weighting attribute is set to PublisherDefined, then the publisher's custom value is provided here.

Elements

Description **Optional** **xs:string**

A description of the weighting. May include time horizon.Tags related to action list information

Making connections

Key changes in 3.0

- 3.0 retains the *RelatedProduct* tag set, allowing publishers to indicate a connection from one research item to another; this tag set has been enhanced to add the ability to indicate a particular IssuerID and/or SecurityID as being the issuer or security that connects the two research items.
- 3.0 introduces the ability to indicate that a research item is part of a series, provide information about the episode and the series, and to collect the list of episodes using the new Series Inventory Standard. This document contains information about the tag sets that are available within the Research Standard; the documentation for the Series Inventory Standard will be available separately.

Connecting the episodes in a series

Episode information wrapper

EpisodeList

Container element for one or more individual Episode elements.

Complex elements

Episode	**Required, multiples allowed**

Episode

Element describing a single Episode that is part of a larger Series product. Multiples would occur when a single research item represents an episode in more than one series, for example, for a video featuring an economist and an autos analyst, where the video has a different name, episode number, etc. within each person's series.
Implementation note: By design, this element is very similar to the EpisodeProduct element within the Series Inventory standard; both are built using the episodeAttributeGroup to ensure consistency. In the Research standard, the Episode element contains a Series subelement; the inverse is true in the Series Inventory's structure.

Attributes

episode — **Optional** — **xs:string**

Episode designation. Can be any name, such as E1, E001, 01, or Epilogue.

season — **Optional** — **xs:string**

Season designation. Can be any name, such as S1 or S001.

episodeOrdinal — **Optional** — **xs:positiveInteger**

Indicates the ordinal number (i.e. numeric index) of the Episode within its season.

episodeGlobalOrdinal — **Optional** — **xs:positiveInteger**

Indicates the ordinal number (i.e. numeric index) of the Episode overall in the Series, across seasons.

year — **Optional** — **xs:gYear**

The year designation for an Episode published annually. For example, an annual review episode might be published in January 2024, but it would really be the 2023 review.
Implementation note: this attribute is intended for use on all annual publications, but can be particularly helpful when the publication date does not match the date of the content covered in the publication. This attribute should only be used for annual publications, not to provide the year for other content.

quarter — **Optional** — **rixmlenum:QuarterEnum**

The quarter designation for an Episode published quarterly. For example, a quarterly review episode might be published in October, but it would really be the Q3 review.
Implementation note: this attribute is intended for use on all quarterly publications, but can be particularly helpful when the publication date does not match the date of the content covered in the publication. This attribute should only be used for quarterly publications, not to provide the quarter for other content.

yearmonth **Optional** **xs:gYearMonth**

The year and month designation for an Episode published monthly. For example, a monthly review episode might be published in early June 2023, but it would really be the May 2023 review.

Implementation note: this attribute is intended for use on all monthly publications, but can be particularly helpful when the publication date does not match the date of the content covered in the publication. This attribute should only be used for monthly publications, not to provide the year+month for other content.

month **Optional** **xs:gMonth**

The month designation for an Episode published monthly. For example, a monthly review episode might be published in early June, but it would really be the May review.

Implementation note: this attribute is intended for use on all monthly publications, but can be particularly helpful when the publication date does not match the date of the content covered in the publication. This attribute should only be used for monthly publications, not to provide the year for other content.

week **Optional** **rixmlenum:WeekOfYearEnum**

The week-of-year designation for an Episode published weekly. For example, a weekly review episode might be published early in week W4 of the year, but it would really be the W3 review. This attribute can be used to tag this Episode as the W3 piece in spite of its actual publication date.

date **Optional** **xs:date**

The date designation for an Episode. To be used in cases where the Episodes are meant to be tagged to specific dates that may not be perfectly aligned with the actual publication dates. For example, a late publication of a weekly Episode that generally comes out on Thursdays can be tagged to the proper Thursday here, rather than, say, the Friday on which it was actually published.

Complex elements

Series **Required**

Contained within Episode: Series information

The Series tag set is used in the Episode tag set within the Research Standard and in the Series Inventory standard. Note that the authorship information within the Series tag set is at the PersonGroup level, allowing each item in a series to have the person(s) or team(s) involved in its creation to be assigned; the name of the firm publishing the item and series is contained with the Organization tag set, which is used in both standards.

Series

Used for publications issued as a Series or periodical.

Elements

Periodicity **Optional** **rixmlenum:PeriodicityEnum**

Indicates the frequency with which the Episodes of the Series are published.

SeriesName **Required** **xs:string**

Indicates the name of the Series.

SeriesID **Optional** **xs:string**

Since the name of a series may change over its lifetime, the SeriesID can be used to uniquely identify it. This tag gives the publisher the opportunity to maintain continuity in the Series across name changes.

SeriesDescription **Optional** **xs:string**

Longer-form description of the purpose of the series.

Complex elements

SeriesOwner **Optional**

Contained within Series: series owner

SeriesOwner

The PersonGroup primarily responsible for production of content in this Series.

Complex elements

PersonGroup	**Required**

Tags related to related research products

It can be extremely helpful to provide a connection from one research item to another; for example, between a model and the research report that introduces it and provides context. Research products that are connected by virtue of being multiple episodes in a series should use the EpisodeList element; other connections will be made via this RelatedProduct wrapper.

The RelatedProduct wrapper

RelatedProductList

Container element for one or more individual RelatedProduct elements.

Complex elements

RelatedProduct **Required, multiples allowed**

RelatedProduct

Describes how content contained in this product is associated with other products, or how content in other products is associated with this one. Can have none or any number of relationships to other products.

Attributes

relatedProductID **Required** **xs:string**

The unique productID of the product to which this product is related (as stored in ResearchProduct.productID of the related document).

relationshipType **Required** **rixmlenum:ProductRelationshipTypeEnum**

Indicates the type of relationship between this product and another product.

Elements

RelationshipDescription **Optional** **xs:string**

The description of the relationship between the current product and the other product to which it is related. Intended for additional descriptive detail not already covered by the relationshipType attribute.

TargetLanguage **Optional** **rixmlenum:ISO639LanguageType**

For relationsihpType of TranslationOf, this is the specific language into which the original ResearchProduct was translated.

Complex elements

SecurityID **Optional**

Include a SecurityID element as needed to indicate that the relationship is connected to a particular security. For example, a sector report might have chapters on several different companies; if the publisher wants to provide a link to a separate model for each of those companies, the SecurityID element can be included to provide the security associated with each model.

Implementation note: Generally speaking, the relationshipType for a research item making this type of connection would be *RelatedTo*.

IssuerID **Optional**

Include an IssuerID as needed to indicate that the relationship is connected to a particular issuer. For example, a sector report might have chapters on several different companies; if the publisher wants to provide a link to a separate model for each of those companies, the IssuerID element can be included to provide the issuer associated with each model.

Implementation note: Generally speaking, the relationshipType for a research item making this type of connection would be *RelatedTo*.

Describing components & individual resources

Key changes in 3.0

- At long last, the Research Standard will have the ability to provide tagging to certain components of the research item! The purpose of the *ComponentList* and *Component* tag set is to allow sub-sections of a research item – charts, graphs, paragraphs, written or audio chapters, etc. – to be described at a high level.
- The *Component* tag set does not have the full set of tags available to describe a research item; rather, we provide a subset that allows a publisher to provide the tagging necessary to allow an individual component to be found and accessed. For example, if a multi-company research report appears in a search result, the Component tag set would allow the user to find the exact chart that compares two individual companies without needing to search through the entire research item.

The component wrapper

ComponentList

Container element for one or more individual Component elements.

Complex elements

Component	**Required, multiples allowed**

Component

Element to describe a single Component published within this ResearchProduct.

Attributes

componentID **Optional** **xs:string**

A unique identifier for the Component instance.
Implementation note: must be unique within the ResearchProduct; can be re-used across different ResearchProducts, for example, a chart that is used in multiple research reports could use the same componentID in all of them.

componentType **Required** **rixmlenum:ComponentTypeEnum**

Indicates the type of the Component.

componentOrdinal **Optional** **xs:positiveInteger**

Indicates the ordinal number (i.e. numeric index) of the Component within its type within this ResearchProduct. For example, if this is Chart #7, then the ordinal number would be 7.

componentGlobalOrdinal **Optional** **xs:positiveInteger**

Indicates the ordinal number (i.e. numeric index) of the Component within this ResearchProduct, regardless of type. For example, if this is Chart #7, but Component #18 overall then the global ordinal number would be 18.

componentDirectURL **Optional** **xs:anyURI**

Indicates a direct URL to the Component, within its ResearchProduct context, on the publisher's platform.

componentWidthDimension **Optional** **xs:positiveInteger**

Indicates the width dimension in pixels for Components that occupy a rectangular block of space within the ResearchProduct. Would typically apply to Components of type Image, Photograph, Chart, and potentially others.

componentHeightDimension **Optional** **xs:positiveInteger**

Indicates the height dimension in pixels for Components that occupy a rectangluar block of space within the ResearchProduct. Would typically apply to Components of type Image, Photograph, Chart, and potentially others.

componentTimeDuration **Optional** **xs:duration**

Indicates the total time duration in hours, minutes, seconds for Components that require playback, such as those of type Audio and Video.

Elements

ComponentTitleList **Required** **TitleListType**

Container for one or more Title variations for the Component. See the documentation for the ResearchProduct Title element for further information and implementation guidance.

Complex elements

ComponentSourceLineList **Optional**

Container for one or more ComponentSourceLine variations for the Component.

MediaChapterList **Optional**

Container for one or more MediaChapter elements for Components that require media playback. This acts as a table of contents for Audio and Video Components.

ExpectedSearchTermList **Optional**

Container for one or more ExpectedSearchTerm elements that apply to the Component.

ContextTagList **Optional**

Container for one or more ContextTag elements that apply to the Component.

Subset of Component: Component source line

ComponentSourceLineList

Container element for one or more individual ComponentSourceLine elements.

Complex elements

ComponentSourceLine **Required, multiples allowed**

ComponentSourceLine

Line of text providing information about the source of the information presented in the Component; can be presented as a footnote or an attribution line.

Root element details

[Element value is entered here] **Required** **xs:string**

Attributes

language **Optional** **rixmlenum:ISO639LanguageType**

Indicates the human language in which the element value is expressed. Overrides the language attribute on the overall RIXML instance document for this element.

Implementation note: Generally only used when a publisher is providing this element in multiple languages for findability in searches conducted in those additional languages, even though the research item itself is only provided in one language; otherwise this attribute would be omitted.

includesFormatCoding **Optional** **xs:boolean**

Indicates whether or not the value includes any format coding.

Implementation note: limited markup permitted - HTML code for paragraph, ordered lists and unordered lists with list items, bold, underline, and italics.

Implementation note: Default value is *False*, so can be omitted unless needed to indicate that includesFormatCoding=*True*.

audienceType **Optional** **rixmlenum:AudienceTypeEnum**

Indicates the target audience for this variation.

audienceTypePublisherDefinedValue **Optional** **xs:string**

If the audienceType attribute is set to PublisherDefined, then the publisher's custom value is provided here.

Implementation note: Should be used only when necessary, as not all aggregators or direct feed recipients process values outside of the enumeration list. For use to add an aggregator-specific value, consult the aggregator to obtain the exact value to be used.

Subset of Component: the tags used to define media chapters

MediaChapterList

Container element for one or more individual MediaChapter elements that can be used as a table of contents for Component types that require playback.

Complex elements

MediaChapter	**Required, multiples allowed**

MediaChapter

For Component types that require playback, such as Audio and Video, this MediaChapter element can be used as part of a table of contents that describes specific parts by start time offset and title.

Complex elements

MediaChapterTitleList **Required** **TitleListType**

Container for one or more Title variations for the MediaChapter.

Attributes

mediaChapterTimeDuration **Optional** **xs:duration**

Indicates the time duration of this MediaChapter.
Implementation note: this is the duration of the chapter, not the offset from the end time.

mediaChapterStartOffset **Required** **xs:duration**

Indicates the time offset at which this MediaChapter starts (offset from start time).

mediaChapterOrdinal **Optional** **xs:positiveInteger**

Indicates the ordinal number (i.e. numeric index) of the MediaChapter within this Component. For example, if this is Chapter #7, then the ordinal number would be 7.

mediaChapterID **Optional** **xs:string**

A unique identifier for the MediaChapter instance. Must be unique within the ResearchProduct.

mediaChapterDirectURL **Optional** **xs:anyURI**

Indicates a direct URL to the MediaChapter, within its ResearchProduct context, on the publisher's platform.

Special-use tags

There are some tag sets used within the standards that are either used in many places or are only used in particular circumstances. Because these tags to not fit neatly into the prior chapters, we are collecting them here.

Tags related to financial information

Key changes in 3.0

- Within the FinancialValue tag set, the EstimateEnum has been renamed EstimateActionEnum; the FinancialValue tag set now lives within a FInancialValueList wrapper, allowing for multiple instances of this tag; tags formerly using RIXML *YesNo* tag now use xs:Boolean; and the currency information is now housed in a *Currency* tag set.
- As in prior versions, financial information is communicated through the *FinancialsType* tag set, which is used in both the *Issuer* and the *Security* tag sets.

Named type: FinancialsType

FinancialsType

Attributes

gaapType **Optional** **rixmlenum:FinancialStatementGAAPTypeEnum**

Generally Accepted Accounting Principles.

restated **Optional** **xs:boolean**

To state in a new form a company's financial statements, perhaps to reflect a current period item back through prior periods.

Implementation note: Default value is *False*, so can be omitted unless needed to indicate that restated=*True*.

proForma **Optional** **xs:boolean**

A hypothetical financial model based on a set of assumptions.

Implementation note: Default value is *False*, so can be omitted unless needed to indicate that proForma=*True*.

financialsTypePublisherDefinedValue **Optional** **xs:string**

displayName **Optional** **xs:string**

If a publisher-defined value, or a value defined by RIXML but the publisher wishes to call the value by another name (e.g., Turnover instead of Sales), this attribute should be used to provide the desired value name.

yearType **Optional** **rixmlenum:YearTypeEnum**

Indicates whether the year specified is a fiscal year or calendar year

priorCurrent **Optional** **rixmlenum:PriorCurrentTypeEnum**

Indicates whether the financials are current or prior.

Publication note: default is *Current*. *Prior* is only used to give reference for a change from a prior financial figure; it is used to indicate what the prior figure was for the period specified in order to give context to the current figure, not to report the figure for a prior time period. Should be omitted in records when only current financials are being provided; when a prior financial is being provided, including the priorCurrent flag for both the prior and the current financials is recommended, for clarity.

Elements

Source **Optional** **xs:string**

Free-text tag to indicate the source of the numbers. Example: the name of the company that provides the consensus figures.

Complex elements

CurrencyID **Optional**

FinancialValueList **Required**

Financial dates

FinancialDates

Relevant dates related to Issuer and/or Security financial data.

Attributes

lastReportedPeriod **Optional** **rixmlenum:PeriodEnum**

Used together with lastReportedYear to indicate the period when the financials were last reported. For example, Q1 2026 would have lastReportedPeriod=Q1 and lastReportedYear=2026.

lastReportedYear **Optional** **xs:integer**

Used together with lastReportedPeriod to indicate the period when the financials were last reported. For example, Q1 2026 would have lastReportedPeriod=Q1 and lastReportedYear=2026.

reportingDate **Optional** **xs:dateTime**

Represents the date the numbers were actually published.

Implementation note: This attribute uses the XML standard xs:dateTime datatype; additionally, time is required to be expressed using Coordinated Universal Time (UTC) for consistency. See details in enumeration list section.

Contained within Financials: financial values

FinancialValueList

Container element for one or more individual FinancialValue elements.

Complex elements

FinancialValue	**Required, multiples allowed**

FinancialValue

Stores a specific financial data item for an issuer or a security.

Root element details

[Element value is entered here]	**Required**	**xs:string**

Attributes

estimateActual **Required** **rixmlenum:EstimateActualEnum**

Indicates whether a financial figure is actual or estimated.

period **Optional** **rixmlenum:PeriodEnum**

Used together with periodYear and periodEnd to indicate the applicable period for a financial value. Example: Q4 2026 ending 31 December.

periodEnd **Optional** **xs:dateTime**

Used together with period and periodYear to indicate the applicable period for a financial value. Example: Q4 2026 ending 31 December.

Implementation note: This attribute uses the XML standard xs:dateTime datatype; additionally, time is required to be expressed using Coordinated Universal Time (UTC) for consistency. See details in enumeration list section.

periodYear **Optional** **xs:gYear**

The four-digit year used together with period and periodEnd to indicate the applicable period for a financial value. Example: Q4 2026 ending 31 December.

duration **Optional** **xs:duration**

Time duration that is being addressed.

dateTime **Optional** **xs:dateTime**

Exact date and time applicable to a financial data item. Generally, the dateTime attribute should be used instead of period, periodYear and periodEnd when a specific date can be assigned to a financial data item, for example, Total Assets as of 31 January 2026.

Implementation note: This attribute uses the XML standard xs:dateTime datatype; additionally, time is required to be expressed using Coordinated Universal Time (UTC) for consistency. See details in enumeration list section.

estimateAction **Optional** **rixmlenum:EstimateActionEnum**

If this financial value is an estimate, the estimateAction attribute can be used to indicate an action, such as Reiterate or Increase, that applies to this estimate.

Implementation note: this attribute is intended to be used when the publisher is including more than one estimate action in the same report; for example, Reiterating the current fiscal year estimate and Increasing the next fiscal year estimate.

Increasing findability via Expected Search Terms

Key changes in 3.0

- Keyword and KeywordClassifications have been renamed ExpectedSearchTerm and ExpectedSearchTermList.
- ExpectedSearchTerms can now indicate the language.

The ExpectedSearchTerm element exists to provide a space for publishers to include a value that is not captured elsewhere, but that provides meaningful information about the contents of the research item. Examples include:

- The "nickname" by which a popular research report series is known; that is, a name that is commonly used in the industry to refer to a report, but that is not the official name of the report
- A newly-emerging term or concept, such as a topic that is expected to be fairly short lived or for another reason would not be considered to be a value to include as a publisher-defined Subject value

There can be other reasons to include an ExpectedSearchTerm element, and use of this element is at the publisher's discretion. Note that not all aggregators or feed recipients will parse this content; publishers should check with their distribution partners for guidance.

ExpectedSearchTermList

Container element for one or more individual ExpectedSearchTerm elements.

Complex elements

ExpectedSearchTerm	**Required, multiples allowed**

ExpectedSearchTerm

In order to improve discoverability of content for which the most likely search terms are not in any existing enumerations, this ExpectedSearchTerm element gives publishers the opportunity to anticipate how consumers will try to find this content and specify free-form terms that best indicate the search terms an end user might use to search for this content.
Implementation note: each ExpectedSearchTerm represents a compound term (single word or multi-word phrase).

Root element details

[Element value is entered here]	**Required**	**xs:string**

Attributes

language	**Optional**	**rixmlenum:ISO639LanguageType**

Indicates the natural (human) language in which the element value is expressed. Overrides the language attribute on the overall RIXML instance document for this element.

Tags related to event information

Key changes in 3.0

- We recommend use of the Interactions standard for capturing event details instead of the Elements element within the Research standard; however, we are retaining this tag set in 3.0 for firms currently using the Research Standard for this purpose. This tag set remains largely the same as in v2.5.

Event wrapper

EventDetails

Provides the necessary information when the Research Product is actually describing an event.

Elements

EventType	**Required**	**rixmlenum:EventTypeEnum**
EventSponsor	**Required**	**rixmlenum:OrganizationTypeEnum**

Complex elements

EventVenue	**Optional**
EventHost	**Optional**
RegistrationInformation	**Optional**
ContactInfoList	**Optional**

Contained within Event: event venue

EventVenue

Indicates the venue; the venue can by physical (one-on-one meeting) or virtual (conference call or webcast). Implementation note: venue is strongly recommended for a location-based event, and required when ResearchProduct.isEvent=True or ResearchProduct.FormList.Form.form=Event.

Complex elements

OrganizationList	**Optional**
EventDateList	**Optional**
EntitlementList	**Optional**
ContactInfoList	**Optional**

Attributes

type	**Required**	**rixmlenum:EventVenueTypeEnum**

Contained within Event: event host

EventHost

Describes the organization(s) hosting the event. Multiple hosts of one event are possible. However, there can be only one primary host, which is captured by the Organization isPrimary setting.

Complex elements

OrganizationList	**Required**

Contained within Event: registration information

RegistrationInformation

Registration information relating to an event.

Complex elements

OrganizationList	**Optional**

Contained within Event Venue: dates related to the event

EventDateList

Container element for one or more individual EventDate elements.

Complex elements

EventDate	**Required, multiples allowed**

EventDate

Describes a date/time relevant to the event, and relative to the type attribute.
Implementation note: This attribute uses the XML standard xs:dateTime datatype; additionally, time is required to be expressed using Coordinated Universal Time (UTC) for consistency. See details in enumeration list section.

Root element details

[Element value is entered here]	**Required** **xs:string**	

Attributes

type	**Required**	**rixmlenum:EventDateTypeEnum**

Describes the relevance of the date/time to the event.

Contained within Event: publishing language

PublishingLanguageList

Container element for one or more individual PublishingLanguage elements.

Complex elements

PublishingLanguage	**Required, multiples allowed**

PublishingLanguage

A specific language in which an organization publishes research with some frequency and fluency.

Attributes

publishingLanguage	**Required**	**rixmlenum:ISO639LanguageType**

Restricted by ISO 639 standard.

Appendix: Named Types

Named type: AssetClassIDListType

The AssetClassIDListType exists to provide one structure for use in the AssetClassIDList element and the related ParentList and ChildList subelements within the AssetClass element.

AssetClassIDListType

Container type for one or more individual AssetClassID elements.

Complex elements

AssetClassID	**Required, multiples allowed**

Named type: ESGCategoryIDListType

EsgCategoryIDListType

The EsgCategoryIDListType exists to provide one structure for use in the EsgCategoryIDListType element and the related ParentList and ChildList subelements within the EsgCategory element.

Complex elements

EsgCategoryID	**Required, multiples allowed**

Named type: FinancialsType

FinancialsType

Attributes

gaapType **Optional** **rixmlenum:FinancialStatementGAAPTypeEnum**
Generally Accepted Accounting Principles.

restated **Optional** **xs:boolean**
To state in a new form a company's financial statements, perhaps to reflect a current period item back through prior periods.
Implementation note: Default value is *False*, so can be omitted unless needed to indicate that restated=*True*.

proForma **Optional** **xs:boolean**
A hypothetical financial model based on a set of assumptions.
Implementation note: Default value is *False*, so can be omitted unless needed to indicate that proForma=*True*.

financialsTypePublisherDefinedValue **Optional** **xs:string**
displayName **Optional** **xs:string**
If a publisher-defined value, or a value defined by RIXML but the publisher wishes to call the value by another name (e.g., Turnover instead of Sales), this attribute should be used to provide the desired value name.

yearType **Optional** **rixmlenum:YearTypeEnum**
Indicates whether the year specified is a fiscal year or calendar year

priorCurrent **Optional** **rixmlenum:PriorCurrentTypeEnum**
Indicates whether the financials are current or prior.
Publication note: default is *Current*. *Prior* is only used to give reference for a change from a prior financial figure; it is used to indicate what the prior figure was for the period specified in order to give context to the current figure, not to report the figure for a prior time period. Should be omitted in records when only current financials are being provided; when a prior financial is being provided, including the priorCurrent flag for both the prior and the current financials is recommended, for clarity.

Elements

Source **Optional** **xs:string**

Free-text tag to indicate the source of the numbers. Example: the name of the company that provides the consensus figures.

Complex elements

CurrencyID **Optional**

Indicates the currency of the issuer financials.

FinancialValueList **Required**

Named type: IndustryIDListType

IndustryIDListType

The IndustryIDListType exists to provide one structure for use in the IndustryIDListType element and the related ParentList and ChildList subelements within the Industry element.
Container type for one or more individual IndustryID elements.

Complex elements

IndustryID **Required, multiples allowed**

Named type: PersonIDType

In the RIXML standards, the one required piece of information about a person (author, interaction participant, etc.) is a personID. Of course, most of the time additional information – their name, contact information, etc. – is also provided, but these are all optional. The PersonIDType defines the structure for person identifiers, and is used across the standards to ensure that all tags referring to a person do so consistently. Its primary use is as the personID in the Person element – this is the element that holds the full information about a person, and it is used in all of our standards. Elsewhere, such as to indicate that a person is the author of a particular component within a research item, using the PersonIDType provides an efficient mechanism for connecting the quick reference to the person to the full information in the PersonList element.

PersonIDType

Root element details

[Element value is entered here] **Required** **xs:string**

The full display name of the Person can be added here for human readability and convenience, but the personID attribute is the actual identifier.

Attributes

personID **Required** **xs:string**

For accurate identification it is required that the personID be unique for a given publisher; the exact format of the ID is up to the publisher. Examples: combination of LastName and FirstName, combination of internal employee ID and RIXML publisherID. GUID recommended.

Named type: TitleListType

The TitleListType provides an efficient mechanism for providing one or more titles to the various parts of a research item that use Titles:

- a RIXML Research file may contain references to more than one associated files or research items (called *Resources*); in this case, the main Research record will have a TitleList tag set
- The ComponentTitleList, which contains the titles of one or more components within a research item
- The MediaChapterTitleList, which contains the titles of one or more chapters within a research item

TitleListType

Container type for one or more individual Title elements.

Complex elements

Title	**Required, multiples allowed**

Appendix: Attribute Groups

A note about attribute groups

To improve efficiency in the XSD files, we have employed the use of attribute groups for certain sets of attributes, as listed here. Because any actual RIXML record will have the relevant individual attributes contained within an attribute group, the name of the attribute group will never actually appear in an RIXML instance file (the tagging file that travels along with a research item). We are listing the 6 attribute groups and the attributes each contains here; however, in the documentation, we list the attributes out separately rather than simply listing the name of the attribute group. We feel that readers of this documentation would prefer to see the list of attributes along with the other attributes, rather than needing to look for the information elsewhere in the documentation.

actionAttributeGroup

AttributeGroup for rating, coverage and weighting actions

Attributes

coverageAction **Optional** **rixmlenum:CoverageActionEnum**

Highlights an action taken by the publisher. Indicates that the publisher is changing the coverage status of this coverable entity. Example: initiating coverage.

ratingAction **Optional** **rixmlenum:RatingActionEnum**

Highlights an action taken by the publisher. Indicates that the publisher is changing their rating on this coverable entity. Example: downgrading.

Attribute groups

weightingAttributeGroup **Optional**

automatedTaggingAttributeGroup

AttributeGroup for elements that could be automatically populated, such as via some kind of Artificial Intelligence (AI) model. These attributes will help publishers to distinguish between explicit taggging and automated tagging.

Attributes

tagSource **Optional** **xs:string**

In the case of a tag generated via an automated method (AI-based or other) rather than having been selected manually by an author or editor, this tagSource attribute would hold a free-form text value indicating the publisher's term for the tagging method used to create the tag value. Suggested values include: Author, Editor, RuleBasedAutomation, ArtificialIntelligence, or the name of the specific model or method used.

tagConfidence **Optional** **xs:decimal**

In the case of an automated tag, this tagConfidence attribute would hold a number between zero and one, with one representing perfect high confidence.
Implementation note: this value is typically generated by an automated tagging system.

episodeAttributeGroup

AttributeGroup for Episode elements. Note that attributes for year, quarter, yearmonth, and month, week, and date would commonly be derivable from the publication date of the ResearchProduct. However, in some cases, publication of an Episode might lag the time period it discusses. These attributes can be used to override the publication date when presented to consumers in the context of the Series.

Attributes

episode **Optional** **xs:string**

Episode designation. Can be any name, such as E1 or E001.

season **Optional** **xs:string**

Season designation. Can be any name, such as S1 or S001.

episodeOrdinal **Optional** **xs:positiveInteger**

Indicates the ordinal number (i.e. numeric index) of the Episode within its season.

episodeGlobalOrdinal **Optional** **xs:positiveInteger**

Indicates the ordinal number (i.e. numeric index) of the Episode overall in the Series, across seasons.

year **Optional** **xs:gYear**

The year designation for an Episode published annually. For example, an annual REVIEW episode might be published in January 2024, but it would really be the 2023 REVIEW. This attribute can be used to tag this Episode as the 2023 piece in spite of its actual publication date.

quarter **Optional** **rixmlenum:QuarterEnum**

The quarter designation for an Episode published quarterly. For example, a quarterly REVIEW episode might be published in October, but it would really be the Q3 REVIEW. This attribute can be used to tag this Episode as the Q3 piece in spite of its actual publication date.

yearmonth **Optional** **xs:gYearMonth**

The year and month designation for an Episode published monthly. For example, a monthly REVIEW episode might be published in early June 2023, but it would really be the May 2023 REVIEW. This attribute can be used to tag this Episode as the May 2023 piece in spite of its actual publication date.

month **Optional** **xs:gMonth**

The month designation for an Episode published monthly. For example, a monthly REVIEW episode might be published in early June, but it would really be the May REVIEW. This attribute can be used to tag this Episode as the May piece in spite of its actual publication date.

week **Optional** **rixmlenum:WeekOfYearEnum**

The week-of-year designation for an Episode published weekly. For example, a weekly REVIEW episode might be published early in week W4 of the year, but it would really be the W3 REVIEW. This attribute can be used to tag this Episode as the W3 piece in spite of its actual publication

date **Optional** **xs:date**

The date designation for an Episode. To be used in cases where the Episodes are meant to be tagged to specific dates that my not have perfectly aligned with the actual publication dates. For example, a late publication of a weekly Episode that always come out on Thursdays can be tagged to the proper Thursday here, rather than, say, the Friday on which it was actually published.

sequencingAttributeGroup

AttributeGroup for the isPrimary and sequence attributes used to indicate an order of individual elements when multiple are present.

Attributes

sequence **Optional** **xs:positiveInteger**

If there are multiple elements specified, and they should appear in a certain order when the content is published, indicate the desired order by associating an appropriate sequence number to each one.

isPrimary **Required** **xs:boolean**

Indicates the primary element when more than one is specified.

Implementation note: One (and only one) element in this List element should be set to *True*; all others should be set to *False*. Default value is *False;* make sure to set isPrimary to *True* when there is only one element in the list, and make sure to set isPrimary to *True for ONLY one when there are multiples*.

titleAttributeGroup

(note: this has been added to title, subtitle, abstract, and synopsis but NOT to file title yet)

Attributes

language **Optional** **rixmlenum:ISO639LanguageType**

Indicates the human language in which the element value is expressed. Overrides the language attribute on the overall RIXML instance document for this element.

Implementation note: Generally only used when a publisher is providing this element in multiple languages for findability in searches conducted in those additional languages, even though the research item itself is only provided in one language; otherwise this attribute would be omitted.

includesFormatCoding **Optional** **xs:boolean**

Indicates whether or not the value includes any format coding.

Implementation note: limited markup permitted - HTML code for paragraph, ordered lists and unordered lists with list items, bold, underline, and italics.

Implementation note: Default value is *False*, so can be omitted unless needed to indicate that includesFormatCoding=*True*.

audienceType **Optional** **rixmlenum:AudienceTypeEnum**

Indicates the target audience for this variation.

Implementation note: While a publisher and an aggregator or other recipient may develop a process for displaying a particular audience type's instance of this element based on the end user's entitlement authorization, no explicit connection exists between this attribute and the Entitlement tag set. The presence of audienceType tagging on an element does not express or imply any actual entitlements.

audienceTypePublisherDefinedValue **Optional** **xs:string**

If the audienceType attribute is set to PublisherDefined, then the publisher's custom value is provided here.

weightingAttributeGroup

Attribute group for weighting action alone.

Attributes

weightingAction **Optional** **rixmlenum:WeightingActionEnum**

Highlights an action taken by the publisher. Indicates that the publisher is changing the weighting of a weighting-eligible entity.

Appendix: Enumeration Lists

A few notes:

- We will be adding definitions to these lists in a future update to the Data Dictionary.
- A small number of these lists are still under review, including the AssetClassEnum list.
- We will be providing a version of the AssetClassEnum displaying the tree structure

AssetClassEnum

Equity
FixedIncome
Currency
Commodity
RealEstate
DigitalAsset
Stock
Convertible
USTreasuries
SovereignCredit
AgencyCredit
MoneyMarketCredit
CorporateInvestmentGradeCredit
CorporateHighYieldCredit
MortgageBackedCredit
MunicipalCredit
AssetBackedCredit
EmergingMarketsSovereign
EmergingMarketsCredit
SupranationalCredit
CollateralizedDebtObligations
Credit
ProvincialRegionalCredit
Loans
CoveredBond
Derivatives
FinancialFutures
EquityFunds
BondFunds
MoneyMarketFunds
CountryFunds
BalancedFunds
CurrencyCash
CurrencyDerivatives
CurrencyFutures
Cryptocurrency
CommodityFunds
InterestRates
IslamicFinancing
StructuredProducts
Energy
PreciousMetals
IndustrialMetals
Agriculture

Environment
Livestock
Bonds
DiscountNotesAndBills
FixedRateNotes
FloatingRateNotes
MediumTermNotes
CommercialPaper
BankerAcceptances
Deposits
EuroBonds
EuroDenominatedNotes
InflationLinkedBonds
Strips
Repo
SamuraiNotes
YankeeNotes
ConvertiblePreferred
ConvertibleStructured
Warrants
Futures
Swaps
Options
Swaptions
StructuredNotes
PrivatePlacements144A
Common
Preferred
ADRGDR
ClosedEndFund
OpenEndFund
Gold
Silver
Steel
Aluminum
Platinum
Copper
Uranium
Soybeans
Wheat
Corn
Coffee
Cocoa
OrangeJuice
Cotton
Sugar
Livestock
JetFuel
Gasoline
Gas
Crude
Electricity
EuroDollars

GermanPfandbrief
FrenchObligationsFoncieres
SpanishCedulaHipotecaria
LuxembourgLettresDeGage
REITS
ETF
Genussescheine
ParticpationCertificates
BulldogBonds
AssetBackedCommercialPaper
EuroCommercialPaper
CertificateOfDeposit
Index
InterbankOfferRateFixings
BuildAmericaBonds
GeneralObligationBonds
RevenueBonds
TreasuryBills
TreasuryNotes
TreasuryBonds
TreasuryInflationProtectedSecurities
TaxableMunicipalBonds
NonTaxableMunicipalBonds
ConsumerAssetBackedSecurities
CollateralizedMortgageObligations
CommercialMortgageBackedSecurities
ResidentialMortgageBackedSecurities
AgencyMortgageBackedSecurities
CMBX
PlannedAmortizationClassBonds
TargetAmortizationClassBonds
AgencyPassThroughSecurities
MortgagePassThroughSecurities
CreditLinkedNotes
VariableRateDemandNotes
CurrencySwaps
CreditDefaultSwaps
AssetSwaps
EquitySwaps
TotalReturnSwaps
InterestRateSwaps
PropertySwaps
ForwardRateAgreements
ForeignCurrencyFutures
EquityIndexFutures
InterestRateFutures
SingleStockFutures
AlternativeInvestment
PrivateEquity
PrivateCredit
PublisherDefined

AudienceTypeEnum

- BuySide
- Client
- Corporate
- CorrespondentBroker
- Educational
- Government
- Institutional
- InvitationOnly
- Press
- PrivateClient
- Prospect
- Public
- QualifiedInstitutionalBuyer
- Retail
- SalesForce
- SellSide
- Shareholder
- Trading
- PublisherDefined

ContactInfoNatureEnum

- Business
- Personal

ContextTagEnum

- AssetClass
- Author
- Country
- Currency
- Discipline
- EsgCategory
- Index
- Industry
- Issuer
- Market
- Region
- Security
- Subject

ComponentTypeEnum

- Audio
- Chapter
- Chart
- Image
- Interactive
- Photograph
- Section
- Table
- Text
- Video
- Other

ContactInfoPurposeEnum

- Operator
- Participation
- QuestionAnswer
- Registration
- Replay

CoverageActionEnum

- Initiate
- Drop
- Suspend
- Resume
- Transfer
- Maintain

DisciplineTypeEnum

- Economics
- Investment
- Strategy

EsgCategoryEnum

- ESG
- Environment
- SocialGovernance
- AirAndEmissions
- ClimateChangeAndWeather
- Energy
- LandAndResources
- MiningMetalsAndMinerals
- WaterAndWaste
- CompanyManagement
- DataProtection
- DiversityEquityInclusion
- HumanRights
- LaborManagement
- ProductSafetyAndLiability
- RegulatoryIssues
- SupplyChainManagement
- PublisherDefined

EstimateActionEnum

- Increase
- Decrease
- Revise
- Reiterate
- New
- Remove

EstimateActualEnum

- Actual
- Estimate
- Consensus

EventDateTypeEnum

StartDate
EndDate
RegistrationDeadlineDate
ExpirationDate
PricingDate
FilingDate
LockupDate
WithdrawalDate
QuietPeriodEndDate

EventTypeEnum

AnnualShareholderMeeting
Conference
CorporateActionCommentary
CountryRegionConference
EarningsGuidancePreliminaryDiscussion
EarningsRelease
EarningsReleaseDiscussion
GovernmentMeeting
IndustryConference
IPO
RoadShow
SeminarConference
SpecialShareholdersMeeting
ThematicConference
TradeShowConference

EventVenueTypeEnum

Brief
ConferenceCall
GroupMeeting
InternetAudio
InternetVideo
Interview
MediaAppearance
OneOnOneMeeting
PanelDiscussion
Podcast
Transcript
Webcast
WrittenRelease

FinancialStatementGAAPTypeEnum

AnalystAdjustedNonGAAP
GAAPIAS
GAAPLocal
GAAPUS

FocusEnum

- AssetClass
- Country
- Currency
- Discipline
- EsgCategory
- Index
- Industry
- Issuer
- Market
- Region
- Security
- Subject
- Unfocused

IndexTypeEnum

- Country
- Industry
- Market
- Region
- Thematic

IndustryTaxonomyEnum

- FactSet
- GICS
- ICB
- TRBC
- Publisher

IssuerFinancialsTypeEnum

- AfterTaxCashFlow
- CapitalExpenditure
- Earnings
- EBITDA
- EnterpriseValue
- GrossProfitMargin
- LongTermGrowthRate
- MarketCap
- NetAssetValue
- NetDebt
- NetOperatingIncome
- PreTaxEarnings
- ReturnOnAssets
- ReturnOnEquity
- Revenue
- PublisherDefined

IssuerSecurityIDTypeEnum

- Bloomberg
- CINS
- CommonCode
- CUSIP
- DUNS
- ExchangeTicker
- FIGI
- ISIN
- LEI
- PermId
- QUIK
- RIC
- SEDOL
- Valoren
- PublisherDefined

IssuerTypeEnum

- Agency
- Corporate
- ETF
- Exchange
- Municipality
- MutualFund
- PrivateCompany
- REIT
- Sovereign
- Supranational

OrganizationNameTypeEnum

- Display
- Legal
- Local
- Parent
- Trade

OrganizationTypeEnum

- AcademicInstitution
- BusinessUnit
- BuySideFirm
- Consultancy
- Corporation
- ExpertNetwork
- Government
- IndependentResearchProvider
- IndustryAssociation
- MarketingAgency
- MarketResearchFirm
- OutsourcedResearchProvider
- RatingAgency
- Regulatory
- SellSideFirm
- WealthManager
- PublisherDefined

PeriodEnum

- Q1
- Q2
- Q3
- Q4
- H1
- H2
- T1
- T2
- T3
- Annual
- Stub

PeriodicityEnum

- Hourly
- IntraDay
- Daily
- Weekly
- EveryTwoWeeks
- Monthly
- Quarterly
- SemiAnnually
- Annually
- Irregularly

PhoneLocationEnum

- Office
- Home
- Mobile

PhoneTypeEnum

- Fax
- Text
- Voice
- VoiceAndText

PriorCurrentTypeEnum

- Current
- Prior

ProductFormEnum

- Brief
- Chart
- Comment
- Commentary
- Compilation
- Directory
- Event
- EventInvitation
- EventRecording
- ExhibitExplainer
- FiresideChat
- Glossary
- Interview
- Marketing
- Model
- Overview
- PanelDiscussion
- Podcast
- PostEventSummary
- Presentation
- Primer
- Report
- TrainingMaterial
- Transcript
- TranscriptSummary
- Webcast
- WrittenRelease
- PublisherDefined

ProductMediumEnum

- Audio
- Data
- Interactive
- Video
- Written
- Mixed

ProductRelationshipTypeEnum

- BasedOn
- PartOf
- References
- Replaces
- Requires
- TranslationOf
- RelatedTo

PublishingActionTypeEnum

- Pending
- Revised
- Recalled
- Deleted
- Published
- Rebroadcast
- Released
- BackFilled
- TagsUpdated
- RevisedMaterialChange
- RevisedNoMaterialChange

QuarterEnum

- Q1
- Q2
- Q3
- Q4

RatingEntityEnum

- AMBestCompanyUSA
- Fitch
- Moodys
- MorningstarDBRS
- SandP
- Publisher
- PublisherDefined

RatingEnum

- PositiveSentiment
- NeutralSentiment
- NegativeSentiment
- NoRating
- TopRating
- VirtuallyCertain
- GoodAbility
- Satisfactory
- IncreasingSpeculative
- Doubtful
- InDefault
- PublisherDefined

ResearchApproachEnum

- Fundamental
- Quantitative
- Technical

RoleEnum

- Author
- Editor
- Publisher
- Attendee
- Coordinator
- Host
- IRContact
- Participant
- SalesContact
- Speaker
- Sponsor
- PublisherDefined

RatingActionEnum

Use when RatingType=Rating

- Upgrade
- Downgrade
- Revise
- Reiterate
- Initiate
- Drop
- Suspend
- Resume
- NewRating
- Refresh
- Affirmed
- Restricted

Use when RatingType=Outlook

- PositiveOutlook
- NegativeOutlook
- StableOutlook
- DevelopingOutlook

Use when RatingType=Review

- ReviewForUpgrade
- ReviewForDowngrade
- ReviewDirectionUncertain

RatingRelationshipEnum

- CoverageUniverse
- Industry
- Market
- ExpectedTotalReturn
- AbsoluteReturn

RatingVolatilityRiskEnum

- High
- Medium
- Low

RatingTypeEnum

- Rating
- Review
- Outlook

RatingAspectEnum

- Credit
- Environmental
- ESG
- Fundamentals
- Governance
- Investment
- Management
- Moat
- Quantitative
- Risk
- Social
- Strategy
- Technical
- Valuation
- Volatility

RegionEnum

Continents

- Africa
- Antarctica
- Asia
- Australia
- Europe
- NorthAmerica
- SouthAmerica

Geographic regions (non-continents)

- Global
- Americas
- AsiaPacific
- Australasia
- Caribbean
- CentralAmerica
- EMEA
- MENA
- MiddleEast
- Oceania

Geopolitical, economic, or cultural regions

- AsiaExJapan
- Japan
- EmergingMarkets
- EuropeanUnion
- Eurozone
- LatinAmerica

Publisher-defined

- PublisherDefined

ResourceTypeEnum

Enumeration for what type of data is contained in a Resource. Not strictly a data type, but an indicator of the intended purpose.

- Data
- PersonPhotoImage
- ThumbnailImage
- XBRL

SecurityDilutionEnum

- Basic
- Diluted
- Primary

SecurityFinancialsTypeEnum

- 52WeekHigh
- 52WeekLow
- BookValuePerShare
- CashFlowPerShare
- DividendPerShare
- DividendYield
- EarningsPerShare
- EBITDAPerShare
- Float
- FreeCashFlowPerShare
- FundsFromOperations
- GrossYield
- Price
- PriceToBookValuePerShare
- PriceToEarningsPerShare
- PriceToSales
- ResistancePrice
- SharesOutStanding
- SupportPrice
- TangibleBookValuePerShare
- TargetPrice
- PublisherDefined

SubjectEnum

Thematic or topic-based specialties not described by other tag set

- AccountingAndTaxPolicy
- ArtificialIntelligence
- CapitalFlows
- EconomicForecast
- FiscalPolicy
- Geopolitics
- Legislative
- Inflation
- MonetaryPolicy
- Politics
- Regulations

Descriptions of company size

- SmallCap
- MidCap
- LargeCap

Research methodologies

- ChannelChecking
- DataMining
- Forensic
- Investigative
- MarketResearch
- SurveyAnalysisAndResults

Investing ideas or analysis

- AssetAllocation
- BuyAndHoldInvestment
- GrowthInvestment
- ModelPortfolio
- ProprietaryIndex
- Recommendations
- RelativeValue
- ShortIdea
- SpreadAnalysis
- TotalReturnInvestment
- TradeIdea
- ValueInvestment

Report type/purpose

- EarningsPreview
- EarningsReview
- MorningCall
- ReleaseAnalysis

Analysis of a particular aspect of a company/issuer or its financials, corporate actions, etc.

- BondRedemption
- CorporateAction
- Covenants
- CreditAnalysis
- CreditDefault
- DebtTender
- DistressedBankruptcy
- EVA
- FinancialModeling
- InitialPublicOfferings

InsiderAnalysis
LitigationAnalysis
ManagementAccess
ManagementChange
ManagementQuality
MergerAcquisitionDivestiture
MergerRiskArbitrage
PatentAnalysis
PrepaymentAnalysis
Privatization
QualityOfEarnings
Refunding
SecondaryPublicOfferings
SpinoffAnalysis
StockRepurchase
Valuation
VentureCapital
Yields

Publisher-defined

PublisherDefined

TargetPriceActionEnum

Increase
Decrease
Revise
Reiterate
New
Remove

TermEnum

ShortTerm
LongTerm

WeekOfYearEnum

- W1
- W2
- W3
- W4
- W5
- W6
- W7
- W8
- W9
- W10
- W11
- W12
- W13
- W14
- W15
- W16
- W17
- W18
- W19
- W20
- W21
- W22
- W23
- W24
- W25
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- W34
- W35
- W36
- W37
- W38
- W39
- W40
- W41
- W42
- W43
- W44
- W45
- W46
- W47
- W48
- W49
- W50
- W51
- W52
- W53

WeightingActionEnum

Increase
Decrease
Revise
Reiterate
New
Remove

WeightingEnum

OverWeight
UnderWeight
EqualWeight
PublisherDefined

YearTypeEnum

Calendar
Fiscal

Pattern Facets

The RIXML standards utilize ISO standards for several tags; below are the ISO standards used and the expected length and pattern.

ISO639LanguageType

ISO 639 language code type restricting to length of 3 and lower case letters.

Length = 3
Pattern = [a-z]{3}

ISO3166CountryType

ISO 3166 country code type restricting to length of 2 and upper case letters

Length = 2
Pattern = [A-Z]{2}

ISO4217CurrencyType

ISO 4217 currency code type restricting to length of 3 and upper case letters.

Length = 3
Pattern = [A-Z]{3}

ISO10383MarketType

ISO 10383 Market Identifier Code type restricting to length of 4 and upper case letters and numbers.

Length = 4
Pattern = [A-Z0-9]{4}