Schema documentation for TigerData_StandardMetadataSchema_v1.2.xsd

september 16, 2026

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Namespace: ""

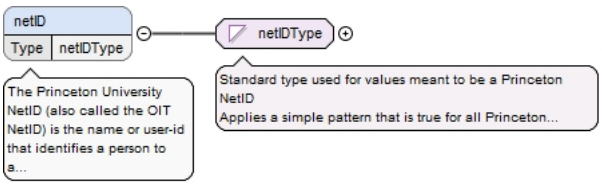
Schema(s)

Main schema TigerData_StandardMetadataSchema_v1.2.xsd

Namespace	No namespace
Properties	attribute form default: unqualified element form default: qualified

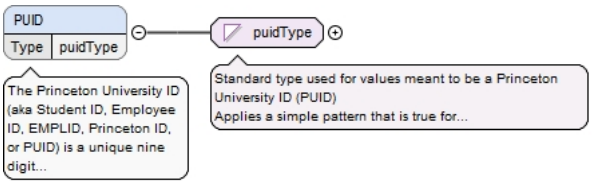
Element(s)

Element userType / netID

Namespace	No namespace
Annotations	The Princeton University NetID (also called the OIT NetID) is the name or user-id that identifies a person to a computer system or electronic service at Princeton.
Diagram	
Type	netIDType
Properties	content: simple minOccurs: 0 maxOccurs: 1
Facets	pattern [a-z0-9-]{2,10}
Source	<xs:element name="netID" type="netIDType" minOccurs="0" maxOccurs="1"> <xs:annotation> <xs:documentation xml:lang="en">The Princeton University NetID (also called the OIT NetID) is the name or user-id that identifies a person to a computer system or electronic service at Princeton.</xs:documentation> </xs:annotation> </xs:element>

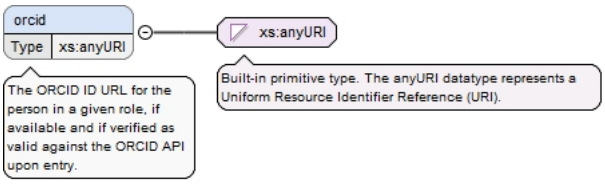
Element userType / PUID

Namespace	No namespace

Annotations	The Princeton University ID (aka Student ID, Employee ID, EMPLID, Princeton ID, or PUID) is a unique nine digit identifier assigned to an individual who has an official affiliation with the University.
Diagram	
Type	puidType
Properties	content: simple minOccurs: 0 maxOccurs: 1
Facets	pattern [0-9]{9}

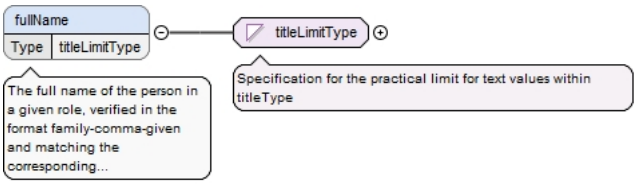
Source	`<xs:element name="PUID" type="puidType" minOccurs="0" maxOccurs="1">`
	`  <xs:annotation>`
	`  <xs:documentation xml:lang="en">The Princeton University ID (aka Student ID, Employee ID, EMPLID, Princeton ID, or PUID) is a unique nine digit identifier assigned to an individual who has an official affiliation with the University.</xs:documentation>`
	`  </xs:annotation>`
	`</xs:element>`

Element `userType / orcid`

Namespace	No namespace
Annotations	The ORCID ID URL for the person in a given role, if available and if verified as valid against the ORCID API upon entry.
Diagram	
Type	xs:anyURI
Properties	content: simple minOccurs: 0 maxOccurs: 1

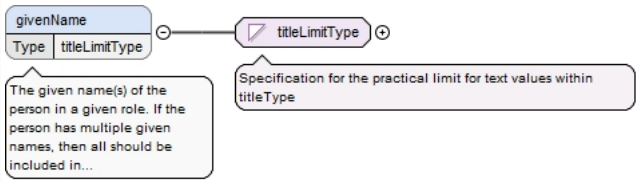
Source	`<xs:element name="orcid" type="xs:anyURI" minOccurs="0" maxOccurs="1">`
	`  <xs:annotation>`
	`  <xs:documentation xml:lang="en">The ORCID ID URL for the person in a given role, if available and if verified as valid against the ORCID API upon entry.</xs:documentation>`
	`  </xs:annotation>`
	`</xs:element>`

Element `userType / fullName`

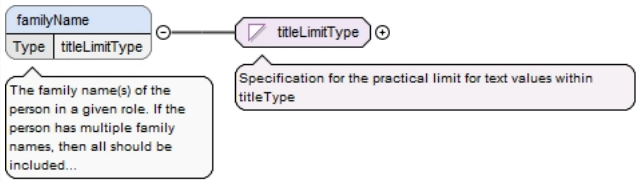
Namespace	No namespace
Annotations	The full name of the person in a given role, verified in the format family-comma-given and matching the corresponding given and family name fields, if available.
Diagram	
Type	titleLimitType
Properties	content: simple minOccurs: 0

	maxOccurs:	1
Facets	minLength	1
	maxLength	200
Source	<xs:element name="fullName" type="titleLimitType" minOccurs="0" maxOccurs="1"> <xs:annotation> <xs:documentation xml:lang="en">The full name of the person in a given role, verified in the format family-comma-given and matching the corresponding given and family name fields, if available.</xs:documentation> </xs:annotation> </xs:element>	

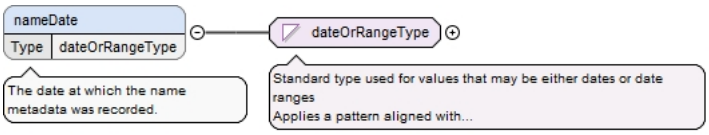
Element userType / givenName

Namespace	No namespace
Annotations	The given name(s) of the person in a given role. If the person has multiple given names, then all should be included in this field, along with any suffixes.
Diagram	
Type	titleLimitType
Properties	content: simple
	minOccurs: 0
	maxOccurs: 1
Facets	minLength 1
	maxLength 200
Source	<xs:element name="givenName" type="titleLimitType" minOccurs="0" maxOccurs="1"> <xs:annotation> <xs:documentation xml:lang="en">The given name(s) of the person in a given role. If the person has multiple given names, then all should be included in this field, along with any suffixes.</xs:documentation> </xs:annotation> </xs:element>

Element userType / familyName

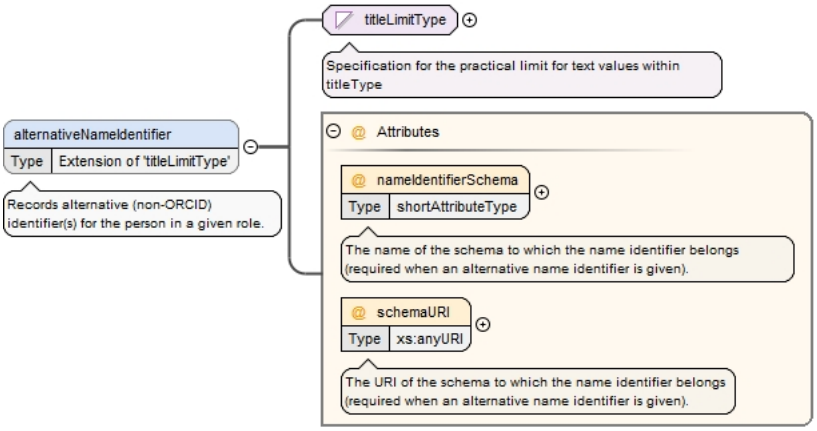
Namespace	No namespace
Annotations	The family name(s) of the person in a given role. If the person has multiple family names, then all should be included in this field.
Diagram	
Type	titleLimitType
Properties	content: simple
	minOccurs: 0
	maxOccurs: 1
Facets	minLength 1
	maxLength 200
Source	<xs:element name="familyName" type="titleLimitType" minOccurs="0" maxOccurs="1"> <xs:annotation> <xs:documentation xml:lang="en">The family name(s) of the person in a given role. If the person has multiple family names, then all should be included in this field.</xs:documentation> </xs:annotation> </xs:element>

Element userType / nameDate

Namespace	No namespace
Annotations	The date at which the name metadata was recorded.
Diagram	
Type	dateOrRangeType
Properties	content: simple minOccurs: 0 maxOccurs: 1
Facets	pattern: \d{4}-(0[1-9]|1[0-2])-(0[1-9]|[12][0-9]|3[01])(\/\d{4}-(0[1-9]|1[0-2])-(0[1-9]|[12][0-9]|3[01]))?

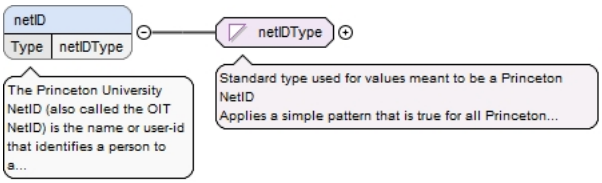
Source	`<xs:element name="nameDate" type="dateOrRangeType" minOccurs="0" maxOccurs="1">`
	`  <xs:annotation>`
	`  <xs:documentation xml:lang="en">The date at which the name metadata was recorded.</xs:documentation>`
	`  </xs:annotation>`
	`</xs:element>`

Element userType / alternativeNameIdentifier

Namespace	No namespace
Annotations	Records alternative (non-ORCID) identifier(s) for the person in a given role.
Diagram	
Type	extension of titleLimitType
Type hierarchy	• xs:string • titleLimitType
Properties	content: complex minOccurs: 0 maxOccurs: 3
Attributes	**QName** / **Type** / **Use** **nameIdentifierSchema** / shortAttributeType / required The name of the schema to which the name identifier belongs (required when an alternative name identifier is given). **schemaURI** / xs:anyURI / required The URI of the schema to which the name identifier belongs (required when an alternative name identifier is given).
Source	`<xs:element name="alternativeNameIdentifier" minOccurs="0" maxOccurs="3">` `  <xs:annotation>`

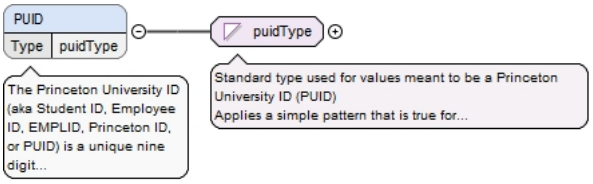
```
    <xs:documentation xml:lang="en">Records alternative (non-ORCID) identifier(s) for the person in
 a given role.</xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:simpleContent>
      <xs:extension base="titleLimitType">
        <xs:attribute name="nameIdentifierSchema" type="shortAttributeType" use="required">
          <xs:annotation>
            <xs:documentation xml:lang="en">The name of the schema to which the name identifier
 belongs (required when an alternative name identifier is given).</xs:documentation>
          </xs:annotation>
        </xs:attribute>
        <xs:attribute name="schemaURI" type="xs:anyURI" use="required">
          <xs:annotation>
            <xs:documentation xml:lang="en">The URI of the schema to which the name identifier
 belongs (required when an alternative name identifier is given).</xs:documentation>
          </xs:annotation>
        </xs:attribute>
      </xs:extension>
    </xs:simpleContent>
  </xs:complexType>
</xs:element>
```

Element shortUserType / netID

Namespace	No namespace
Annotations	The Princeton University NetID (also called the OIT NetID) is the name or user-id that identifies a person to a computer system or electronic service at Princeton.
Diagram	
Type	netIDType
Properties	content: simple minOccurs: 0 maxOccurs: 1
Facets	pattern [a-z0-9-]{2,10}

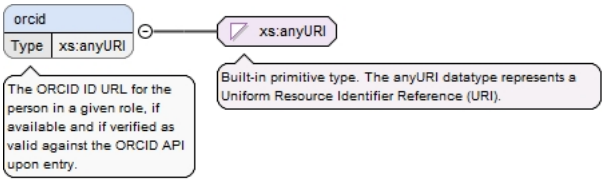
Source	`<xs:element name="netID" type="netIDType" minOccurs="0" maxOccurs="1">`
	`  <xs:annotation>`
	`  <xs:documentation xml:lang="en">The Princeton University NetID (also called the OIT NetID) is the name or user-id that identifies a person to a computer system or electronic service at Princeton.</xs:documentation>`
	`  </xs:annotation>`
	`</xs:element>`

Element shortUserType / PUID

Namespace	No namespace
Annotations	The Princeton University ID (aka Student ID, Employee ID, EMPLID, Princeton ID, or PUID) is a unique nine digit identifier assigned to an individual who has an official affiliation with the University.
Diagram	
Type	puidType
Properties	content: simple minOccurs: 0 maxOccurs: 1
Facets	pattern [0-9]{9}
Source	`<xs:element name="PUID" type="puidType" minOccurs="0" maxOccurs="1">`

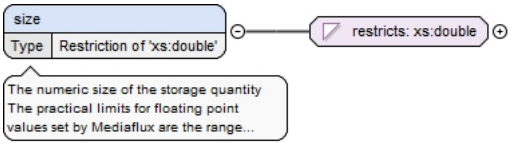
```
  <xs:annotation>
    <xs:documentation xml:lang="en">The Princeton University ID (aka Student ID, Employee ID,
 EMPLID, Princeton ID, or PUID) is a unique nine digit identifier assigned to an individual who has
 an official affiliation with the University.</xs:documentation>
  </xs:annotation>
</xs:element>
```

Element shortUserType / orcid

Namespace	No namespace
Annotations	The ORCID ID URL for the person in a given role, if available and if verified as valid against the ORCID API upon entry.
Diagram	
Type	xs:anyURI
Properties	content: simple minOccurs: 0 maxOccurs: 1

Source	`<xs:element name="orcid" type="xs:anyURI" minOccurs="0" maxOccurs="1">`
	`  <xs:annotation>`
	`  <xs:documentation xml:lang="en">The ORCID ID URL for the person in a given role, if available and if verified as valid against the ORCID API upon entry.</xs:documentation>`
	`  </xs:annotation>`
	`</xs:element>`

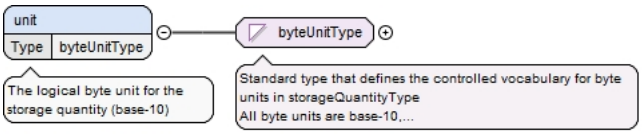
Element storageQuantityType / size

Namespace	No namespace
Annotations	The numeric size of the storage quantity The practical limits for floating point values set by Mediaflux are the range [4.9E-324,1.7976931348623157E308]
Diagram	
Type	restriction of xs:double
Properties	content: simple minOccurs: 1 maxOccurs: 1
Facets	maxInclusive 10000000000000 minExclusive 0

Source	`<xs:element name="size" minOccurs="1" maxOccurs="1">`
	`  <xs:annotation>`
	`  <xs:documentation xml:lang="en">The numeric size of the storage quantity</xs:documentation>`
	`  <xs:documentation xml:lang="en">The practical limits for floating point values set by Mediaflux are the range [4.9E-324,1.7976931348623157E308]</xs:documentation>`
	`  </xs:annotation>`
	`  <xs:simpleType>`
	`  <xs:restriction base="xs:double">`
	`  <xs:minExclusive value="0"/>`
	`  <xs:maxInclusive value="10000000000000"/>`
	`  </xs:restriction>`
	`  </xs:simpleType>`
	`</xs:element>`

Element storageQuantityType / unit

Namespace	No namespace
Annotations	The logical byte unit for the storage quantity (base-10)

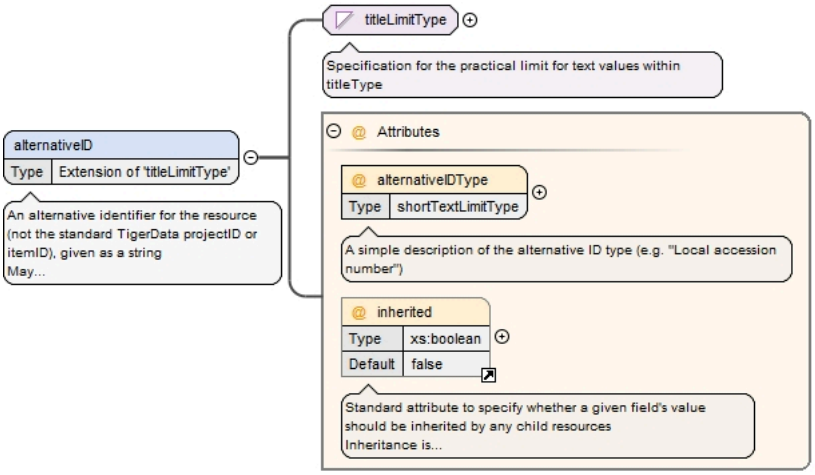
Diagram	
Type	byteUnitType
Properties	content: `simple` minOccurs: `1` maxOccurs: `1`
Facets	enumeration `B` `Bytes (B)` enumeration `KB` `Kilobytes (KB)` enumeration `MB` `Megabytes (MB)` enumeration `GB` `Gigabytes (GB)` enumeration `TB` `Terabytes (TB)` enumeration `PB` `Petabytes (PB)`

Source	`<xs:element name="unit" type="byteUnitType" minOccurs="1" maxOccurs="1">`
	`  <xs:annotation>`
	`  <xs:documentation xml:lang="en">The logical byte unit for the storage quantity (base-10)</xs:documentation>`
	`  </xs:annotation>`
	`</xs:element>`

Element `alternativeID`

Namespace	No namespace

Annotations	`An alternative identifier for the resource (not the standard TigerData projectID or itemID), given as a string`
	
	`May apply to either Projects or Items`
	
	`Modeled after the DataCite definition for RelatedIdentifier (v4.6+)`

Diagram	
Type	extension of titleLimitType
Type hierarchy	• xs:string • titleLimitType
Properties	content: `complex`
Used by	Element alternativeIDs
Attributes	**QName** / **Type** / **Default** / **Use** **alternativeIDType** / shortTextLimitType / / required `A simple description of the alternative ID type (e.g. "Local accession number")` **inherited** / xs:boolean / false / optional

	QName	Type	Default	Use	
		Standard attribute to specify whether a given field's value should be inherited by any child resources Inheritance is limited to the applicability of the field to the child resource (e.g., researchDomain may be inherited by a subproject but not an item)			

Source

```
<xs:element name="alternativeID">
  <xs:annotation>
    <xs:documentation xml:lang="en">An alternative identifier for the resource (not the standard
 TigerData projectID or itemID), given as a string</xs:documentation>
    <xs:documentation xml:lang="en">May apply to either Projects or Items</xs:documentation>
    <xs:documentation xml:lang="en">Modeled after the DataCite definition for RelatedIdentifier
 (v4.6+)</xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:simpleContent>
      <xs:extension base="titleLimitType">
        <xs:attribute name="alternativeIDType" type="shortTextLimitType" use="required">
          <xs:annotation>
            <xs:documentation xml:lang="en">A simple description of the alternative ID type (e.g.
 "Local accession number")</xs:documentation>
          </xs:annotation>
        </xs:attribute>
        <xs:attribute ref="inherited" default="false"/>
      </xs:extension>
    </xs:simpleContent>
  </xs:complexType>
</xs:element>
```

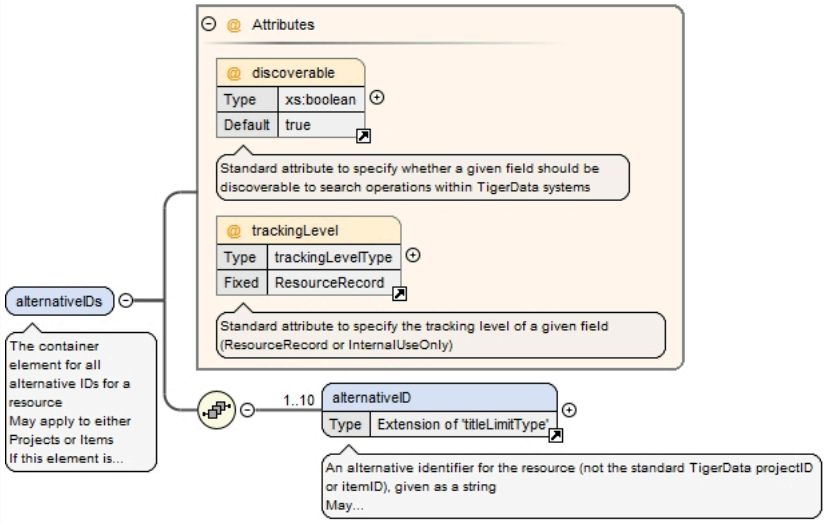
Element alternativeIDs

Namespace: No namespace

Annotations:

```
The container element for all alternative IDs for a resource

May apply to either Projects or Items

If this element is present, then it should contain at least one sub-element
```

Diagram



Properties: content: complex

Used by: Element Groups: itemFields, projectFields

Model: alternativeID{1,10}

Children: alternativeID

Instance

```
<alternativeIDs discoverable="true" trackingLevel="ResourceRecord">
  <alternativeID alternativeIDType="" inherited="false">{1,10}</alternativeID>
</alternativeIDs>
```

Attributes

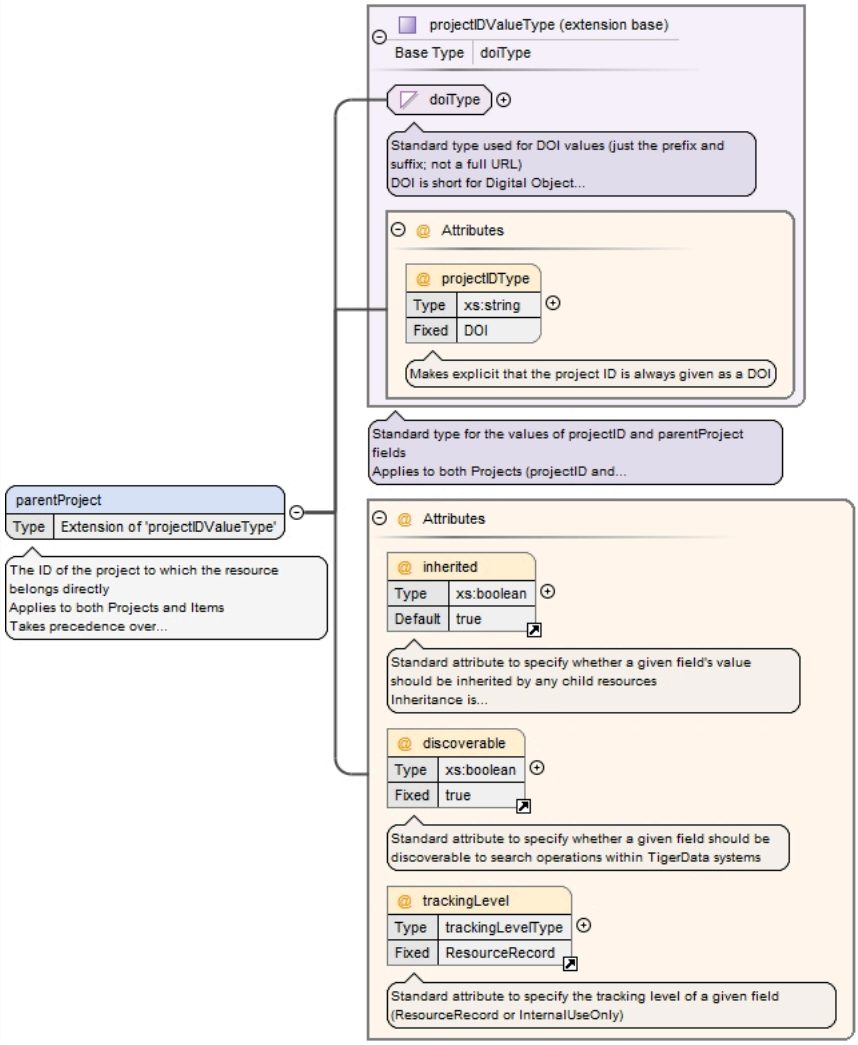
QName	Type	Fixed	Default	Use	
discoverable	xs:boolean		true	optional	
	Standard attribute to specify whether a given field should be discoverable to search operations within TigerData systems				

QName	Type	Fixed	Default	Use	
trackingLevel	trackingLevelType	ResourceRecord		optional	
	Standard attribute to specify the tracking level of a given field (ResourceRecord or InternalUseOnly)				

Source

```
<xs:element name="alternativeIDs">
  <xs:annotation>
    <xs:documentation xml:lang="en">The container element for all alternative IDs for a resource</
xs:documentation>
    <xs:documentation xml:lang="en">May apply to either Projects or Items</xs:documentation>
    <xs:documentation xml:lang="en">If this element is present, then it should contain at least one
 sub-element</xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:sequence>
      <xs:element ref="alternativeID" minOccurs="1" maxOccurs="10"/>
    </xs:sequence>
    <xs:attribute ref="discoverable" default="true"/>
    <xs:attribute ref="trackingLevel" fixed="ResourceRecord"/>
  </xs:complexType>
</xs:element>
```

Element `parentProject`

Namespace	No namespace
Annotations	The ID of the project to which the resource belongs directly Applies to both Projects and Items Takes precedence over any IsChildOf relations to other projects
Diagram	
Type	extension of projectIDValueType

Type hierarchy	• xs:string • doiType • projectIDValueType
Properties	content: complex
Used by	Element Groups itemFields, projectFields

Attributes

QName	Type	Fixed	Default	Use	
discoverable	xs:boolean	true		optional	
	Standard attribute to specify whether a given field should be discoverable to search operations within TigerData systems				
inherited	xs:boolean		true	optional	
	Standard attribute to specify whether a given field's value should be inherited by any child resources Inheritance is limited to the applicability of the field to the child resource (e.g., researchDomain may be inherited by a subproject but not an item)				
projectIDType	xs:string	DOI		optional	
	Makes explicit that the project ID is always given as a DOI				
trackingLevel	trackingLevelType	ResourceRecord		optional	
	Standard attribute to specify the tracking level of a given field (ResourceRecord or InternalUseOnly)				

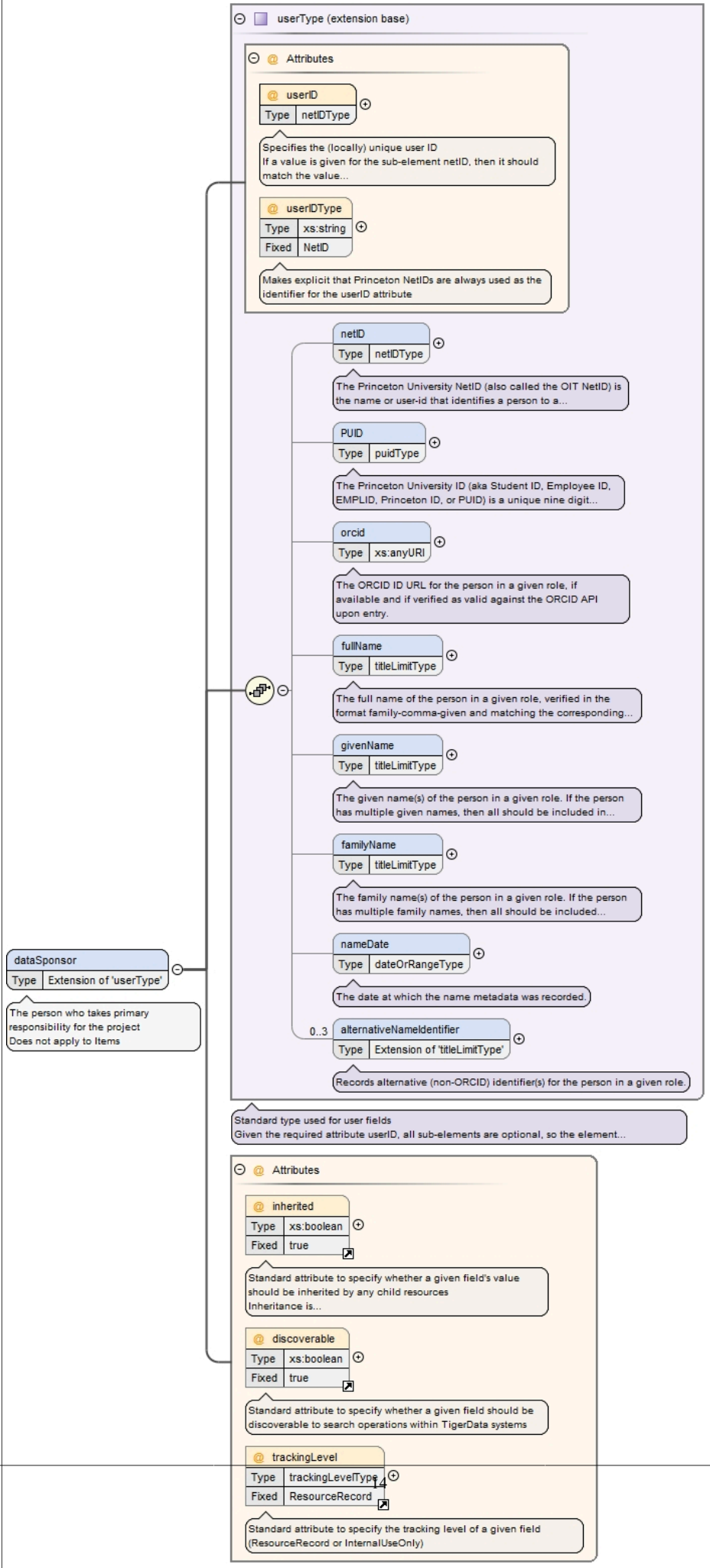
Source

```
<xs:element name="parentProject">
  <xs:annotation>
    <xs:documentation xml:lang="en">The ID of the project to which the resource belongs directly</
xs:documentation>
    <xs:documentation xml:lang="en">Applies to both Projects and Items</xs:documentation>
    <xs:documentation xml:lang="en">Takes precedence over any IsChildOf relations to other
 projects</xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:simpleContent>
      <xs:extension base="projectIDValueType">
        <xs:attribute ref="inherited" default="true"/>
        <xs:attribute ref="discoverable" fixed="true"/>
        <xs:attribute ref="trackingLevel" fixed="ResourceRecord"/>
      </xs:extension>
    </xs:simpleContent>
  </xs:complexType>
</xs:element>
```

Element dataSponsor

Namespace	No namespace
Annotations	The person who takes primary responsibility for the project Does not apply to Items

Diagram


dataSponsor
Type Extension of 'userType'
The person who takes primary responsibility for the project
Does not apply to Items
userType (extension base)
Attributes
userID
Type netIDType
Specifies the (locally) unique user ID
If a value is given for the sub-element netID, then it should match the value...
userIDType
Type xs:string
Fixed NetID
Makes explicit that Princeton NetIDs are always used as the identifier for the userID attribute
netID
Type netIDType
The Princeton University NetID (also called the OIT NetID) is the name or user-id that identifies a person to a...
PUID
Type puidType
The Princeton University ID (aka Student ID, Employee ID, EMPLID, Princeton ID, or PUID) is a unique nine digit...
orcid
Type xs:anyURI
The ORCID ID URL for the person in a given role, if available and if verified as valid against the ORCID API upon entry.
fullName
Type titleLimitType
The full name of the person in a given role, verified in the format family-comma-given and matching the corresponding...
givenName
Type titleLimitType
The given name(s) of the person in a given role. If the person has multiple given names, then all should be included in...
familyName
Type titleLimitType
The family name(s) of the person in a given role. If the person has multiple family names, then all should be included...
nameDate
Type dateOrRangeType
The date at which the name metadata was recorded.
0..3
alternativeNameIdentifier
Type Extension of 'titleLimitType'
Records alternative (non-ORCID) identifier(s) for the person in a given role.
Standard type used for user fields
Given the required attribute userID, all sub-elements are optional, so the element...
Attributes
inherited
Type xs:boolean
Fixed true
Standard attribute to specify whether a given field's value should be inherited by any child resources
Inheritance is...
discoverable
Type xs:boolean
Fixed true
Standard attribute to specify whether a given field should be discoverable to search operations within TigerData systems
trackingLevel
Type trackingLevelType
Fixed ResourceRecord
Standard attribute to specify the tracking level of a given field (ResourceRecord or InternalUseOnly)

Type	extension of userType
Type hierarchy	• userType
Properties	content: complex
Used by	Element Group projectRoles
Model	netID{0,1} , PUID{0,1} , orcid{0,1} , fullName{0,1} , givenName{0,1} , familyName{0,1} , nameDate{0,1} , alternativeNameIdentifier{0,3}
Children	PUID, alternativeNameIdentifier, familyName, fullName, givenName, nameDate, netID, orcid

Instance

```
<dataSponsor discoverable="true" inherited="true" trackingLevel="ResourceRecord" userID="" userIDType="NetID">
  <netID>{0,1}</netID>
  <PUID>{0,1}</PUID>
  <orcid>{0,1}</orcid>
  <fullName>{0,1}</fullName>
  <givenName>{0,1}</givenName>
  <familyName>{0,1}</familyName>
  <nameDate>{0,1}</nameDate>
  <alternativeNameIdentifier nameIdentifierSchema="" schemaURI="">{0,3}</alternativeNameIdentifier>
</dataSponsor>
```

Attributes

QName	Type	Fixed	Use	
discoverable	xs:boolean	true	optional	
	Standard attribute to specify whether a given field should be discoverable to search operations within TigerData systems			
inherited	xs:boolean	true	optional	
	Standard attribute to specify whether a given field's value should be inherited by any child resources Inheritance is limited to the applicability of the field to the child resource (e.g., researchDomain may be inherited by a subproject but not an item)			
trackingLevel	trackingLevelType	ResourceRecord	optional	
	Standard attribute to specify the tracking level of a given field (ResourceRecord or InternalUseOnly)			
userID	netIDType		required	
	Specifies the (locally) unique user ID If a value is given for the sub-element netID, then it should match the value given for userID			
userIDType	xs:string	NetID	optional	
	Makes explicit that Princeton NetIDs are always used as the identifier for the userID attribute			

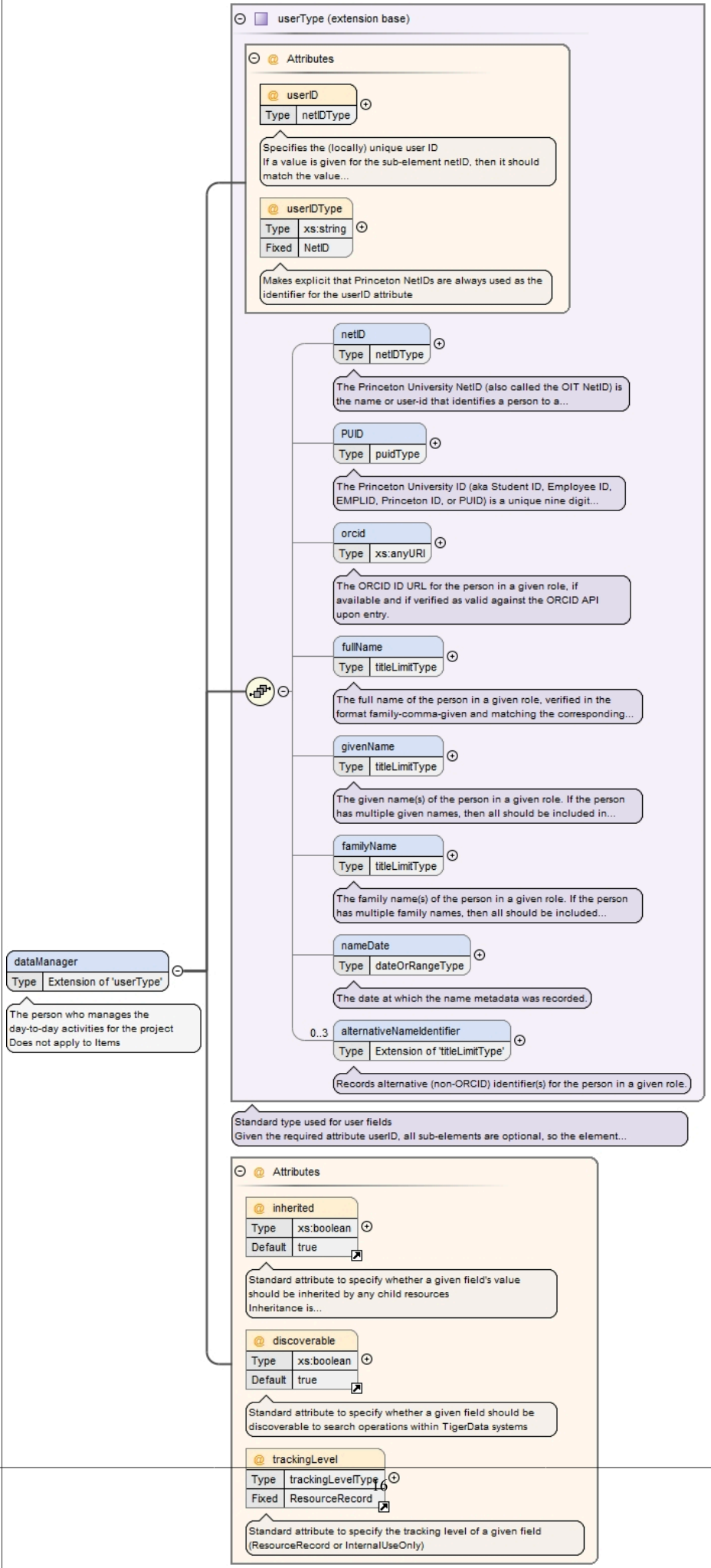
Source

```
<xs:element name="dataSponsor">
  <xs:annotation>
    <xs:documentation xml:lang="en">The person who takes primary responsibility for the project</
xs:documentation>
    <xs:documentation xml:lang="en">Does not apply to Items</xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:complexContent>
      <xs:extension base="userType">
        <xs:attribute ref="inherited" fixed="true"/>
        <xs:attribute ref="discoverable" fixed="true"/>
        <xs:attribute ref="trackingLevel" fixed="ResourceRecord"/>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
</xs:element>
```

Element dataManager

Namespace	No namespace
Annotations	The person who manages the day-to-day activities for the project Does not apply to Items

Diagram


dataManager
Type Extension of 'userType'
The person who manages the day-to-day activities for the project Does not apply to Items
userType (extension base)
Attributes
userID
Type netIDType
Specifies the (locally) unique user ID If a value is given for the sub-element netID, then it should match the value...
userIDType
Type xs:string
Fixed NetID
Makes explicit that Princeton NetIDs are always used as the identifier for the userID attribute
netID
Type netIDType
The Princeton University NetID (also called the OIT NetID) is the name or user-id that identifies a person to a...
PUID
Type puidType
The Princeton University ID (aka Student ID, Employee ID, EMPLID, Princeton ID, or PUID) is a unique nine digit...
orcid
Type xs:anyURI
The ORCID ID URL for the person in a given role, if available and if verified as valid against the ORCID API upon entry.
fullName
Type titleLimitType
The full name of the person in a given role, verified in the format family-comma-given and matching the corresponding...
givenName
Type titleLimitType
The given name(s) of the person in a given role. If the person has multiple given names, then all should be included in...
familyName
Type titleLimitType
The family name(s) of the person in a given role. If the person has multiple family names, then all should be included...
nameDate
Type dateOrRangeType
The date at which the name metadata was recorded.
0..3
alternativeNameIdentifier
Type Extension of 'titleLimitType'
Records alternative (non-ORCID) identifier(s) for the person in a given role.
Standard type used for user fields Given the required attribute userID, all sub-elements are optional, so the element...
Attributes
inherited
Type xs:boolean
Default true
Standard attribute to specify whether a given field's value should be inherited by any child resources Inheritance is...
discoverable
Type xs:boolean
Default true
Standard attribute to specify whether a given field should be discoverable to search operations within TigerData systems
trackingLevel
Type trackingLevelType
Fixed ResourceRecord
Standard attribute to specify the tracking level of a given field (ResourceRecord or InternalUseOnly)

Type	extension of userType
Type hierarchy	• userType
Properties	content: complex
Used by	Element Group projectRoles
Model	netID{0,1} , PUID{0,1} , orcid{0,1} , fullName{0,1} , givenName{0,1} , familyName{0,1} , nameDate{0,1} , alternativeNameIdentifier{0,3}
Children	PUID, alternativeNameIdentifier, familyName, fullName, givenName, nameDate, netID, orcid

Instance	`<dataManager discoverable="true" inherited="true" trackingLevel="ResourceRecord" userID="" userIDType="NetID">`
	`  <netID>{0,1}</netID>`
	`  <PUID>{0,1}</PUID>`
	`  <orcid>{0,1}</orcid>`
	`  <fullName>{0,1}</fullName>`
	`  <givenName>{0,1}</givenName>`
	`  <familyName>{0,1}</familyName>`
	`  <nameDate>{0,1}</nameDate>`
	`  <alternativeNameIdentifier nameIdentifierSchema="" schemaURI="">{0,3}</alternativeNameIdentifier>`
	`</dataManager>`

Attributes

QName	Type	Fixed	Default	Use	
discoverable	xs:boolean		true	optional	
	Standard attribute to specify whether a given field should be discoverable to search operations within TigerData systems				
inherited	xs:boolean		true	optional	
	Standard attribute to specify whether a given field's value should be inherited by any child resources Inheritance is limited to the applicability of the field to the child resource (e.g., researchDomain may be inherited by a subproject but not an item)				
trackingLevel	trackingLevelType	ResourceRecord		optional	
	Standard attribute to specify the tracking level of a given field (ResourceRecord or InternalUseOnly)				
userID	netIDType			required	
	Specifies the (locally) unique user ID If a value is given for the sub-element netID, then it should match the value given for userID				
userIDType	xs:string	NetID		optional	
	Makes explicit that Princeton NetIDs are always used as the identifier for the userID attribute				

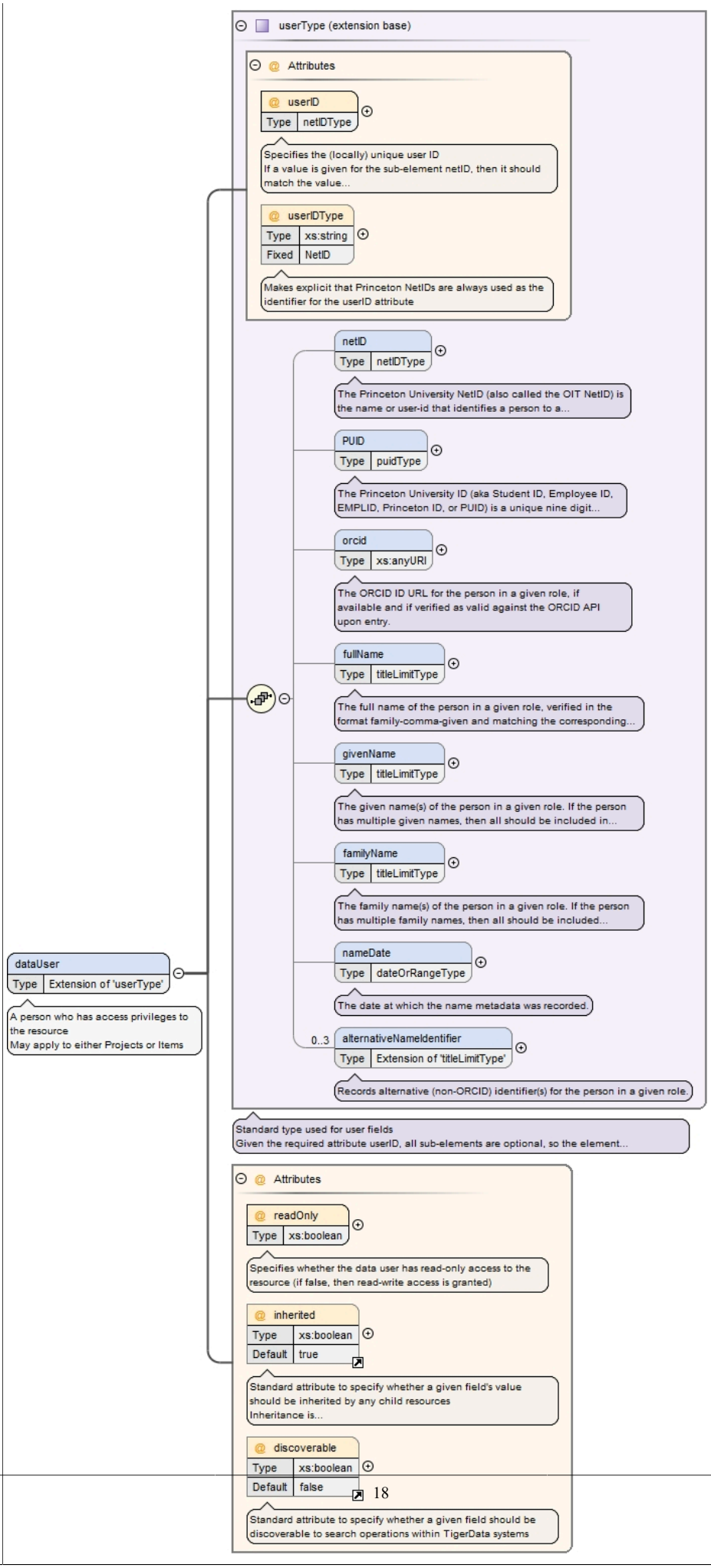
Source

```
<xs:element name="dataManager">
  <xs:annotation>
    <xs:documentation xml:lang="en">The person who manages the day-to-day activities for the
 project</xs:documentation>
    <xs:documentation xml:lang="en">Does not apply to Items</xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:complexContent>
      <xs:extension base="userType">
        <xs:attribute ref="inherited" default="true"/>
        <xs:attribute ref="discoverable" default="true"/>
        <xs:attribute ref="trackingLevel" fixed="ResourceRecord"/>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
</xs:element>
```

Element dataUser

Namespace	No namespace
Annotations	A person who has access privileges to the resource May apply to either Projects or Items

Diagram


dataUser
Type Extension of 'userType'
A person who has access privileges to the resource
May apply to either Projects or Items
userType (extension base)
Attributes
userID
Type netIDType
Specifies the (locally) unique user ID
If a value is given for the sub-element netID, then it should match the value...
userIDType
Type xs:string
Fixed NetID
Makes explicit that Princeton NetIDs are always used as the identifier for the userID attribute
netID
Type netIDType
The Princeton University NetID (also called the OIT NetID) is the name or user-id that identifies a person to a...
PUID
Type puidType
The Princeton University ID (aka Student ID, Employee ID, EMPLID, Princeton ID, or PUID) is a unique nine digit...
orcid
Type xs:anyURI
The ORCID ID URL for the person in a given role, if available and if verified as valid against the ORCID API upon entry.
fullName
Type titleLimitType
The full name of the person in a given role, verified in the format family-comma-given and matching the corresponding...
givenName
Type titleLimitType
The given name(s) of the person in a given role. If the person has multiple given names, then all should be included in...
familyName
Type titleLimitType
The family name(s) of the person in a given role. If the person has multiple family names, then all should be included...
nameDate
Type dateOrRangeType
The date at which the name metadata was recorded.
0..3
alternativeNameIdentifier
Type Extension of 'titleLimitType'
Records alternative (non-ORCID) identifier(s) for the person in a given role.
Standard type used for user fields
Given the required attribute userID, all sub-elements are optional, so the element...
Attributes
readOnly
Type xs:boolean
Specifies whether the data user has read-only access to the resource (if false, then read-write access is granted)
inherited
Type xs:boolean
Default true
Standard attribute to specify whether a given field's value should be inherited by any child resources
Inheritance is...
discoverable
Type xs:boolean
Default false
Standard attribute to specify whether a given field should be discoverable to search operations within TigerData systems

Type	extension of userType
Type hierarchy	• userType
Properties	content: complex
Used by	Element dataUsers
Model	netID{0,1} , PUID{0,1} , orcid{0,1} , fullName{0,1} , givenName{0,1} , familyName{0,1} , nameDate{0,1} , alternativeNameIdentifier{0,3}
Children	PUID, alternativeNameIdentifier, familyName, fullName, givenName, nameDate, netID, orcid

Instance

```
<dataUser discoverable="false" inherited="true" readOnly="" userID="" userIDType="NetID">
  <netID>{0,1}</netID>
  <PUID>{0,1}</PUID>
  <orcid>{0,1}</orcid>
  <fullName>{0,1}</fullName>
  <givenName>{0,1}</givenName>
  <familyName>{0,1}</familyName>
  <nameDate>{0,1}</nameDate>
  <alternativeNameIdentifier nameIdentifierSchema="" schemaURI="">{0,3}</alternativeNameIdentifier>
</dataUser>
```

Attributes

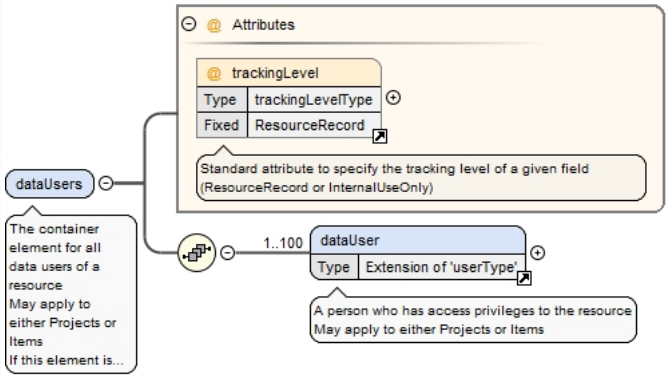
QName	Type	Fixed	Default	Use	
discoverable	xs:boolean		false	optional	
	Standard attribute to specify whether a given field should be discoverable to search operations within TigerData systems				
inherited	xs:boolean		true	optional	
	Standard attribute to specify whether a given field's value should be inherited by any child resources Inheritance is limited to the applicability of the field to the child resource (e.g., researchDomain may be inherited by a subproject but not an item)				
readOnly	xs:boolean			required	
	Specifies whether the data user has read-only access to the resource (if false, then read-write access is granted)				
userID	netIDType			required	
	Specifies the (locally) unique user ID If a value is given for the sub-element netID, then it should match the value given for userID				
userIDType	xs:string	NetID		optional	
	Makes explicit that Princeton NetIDs are always used as the identifier for the userID attribute				

Source

```
<xs:element name="dataUser">
  <xs:annotation>
    <xs:documentation xml:lang="en">A person who has access privileges to the resource</
xs:documentation>
    <xs:documentation xml:lang="en">May apply to either Projects or Items</xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:complexContent>
      <xs:extension base="userType">
        <xs:attribute name="readOnly" type="xs:boolean" use="required">
          <xs:annotation>
            <xs:documentation xml:lang="en">Specifies whether the data user has read-only access to
 the resource (if false, then read-write access is granted)</xs:documentation>
          </xs:annotation>
        </xs:attribute>
        <xs:attribute ref="inherited" default="true"/>
        <xs:attribute ref="discoverable" default="false"/>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
</xs:element>
```

Element dataUsers

Namespace	No namespace
Annotations	The container element for all data users of a resource May apply to either Projects or Items

	If this element is present, then it should contain at least one sub-element
Diagram	
Properties	content: complex
Used by	Element Groups itemFields, projectRoles
Model	dataUser{1,100}
Children	dataUser

Instance	`<dataUsers trackingLevel="ResourceRecord">`
	`  <dataUser discoverable="false" inherited="true" readOnly="" userID="" userIDType="NetID">{1,100}</dataUser>`
	`</dataUsers>`

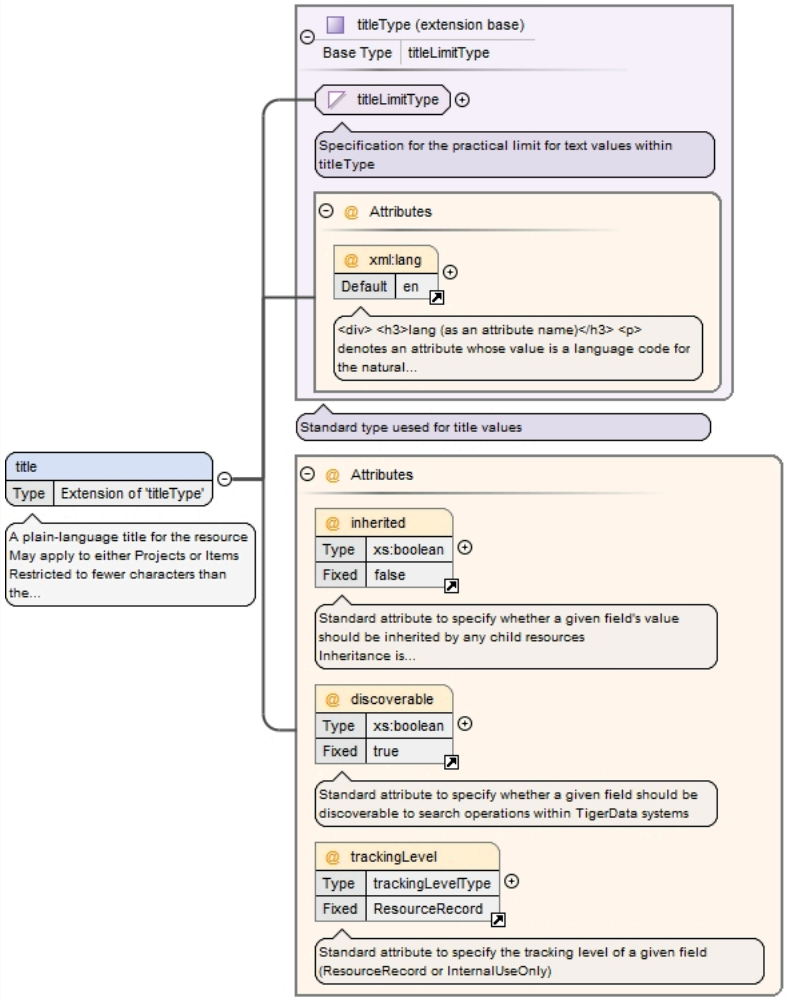
Attributes	**QName** / **Type** / **Fixed** / **Use** **trackingLevel** / trackingLevelType / ResourceRecord / optional Standard attribute to specify the tracking level of a given field (ResourceRecord or InternalUseOnly)

Source	`<xs:element name="dataUsers">`
	`  <xs:annotation>`
	`  <xs:documentation xml:lang="en">The container element for all data users of a resource</xs:documentation>`
	`  <xs:documentation xml:lang="en">May apply to either Projects or Items</xs:documentation>`
	`  <xs:documentation xml:lang="en">If this element is present, then it should contain at least one sub-element</xs:documentation>`
	`  </xs:annotation>`
	`  <xs:complexType>`
	`  <xs:sequence>`
	`  <xs:element ref="dataUser" minOccurs="1" maxOccurs="100"/>`
	`  </xs:sequence>`
	`  <xs:attribute ref="trackingLevel" fixed="ResourceRecord"/>`
	`  </xs:complexType>`
	`</xs:element>`

Element title

Namespace	No namespace
Annotations	A plain-language title for the resource May apply to either Projects or Items Restricted to fewer characters than the typical free-text limitations

Diagram



Type: extension of titleType

Type hierarchy:

- xs:string
  - titleLimitType
    - titleType

Properties: content: `complex`

Used by: Element Groups: itemFields, projectDescription

Attributes

QName	Type	Fixed	Default	Use	
discoverable	xs:boolean	true		optional	
	`Standard attribute to specify whether a given field should be discoverable to search operations within TigerData systems`				
inherited	xs:boolean	false		optional	

	`Standard attribute to specify whether a given field's value should be inherited by any child resources`
	
	`Inheritance is limited to the applicability of the field to the child resource (e.g., researchDomain may be inherited by a subproject but not an item)`				

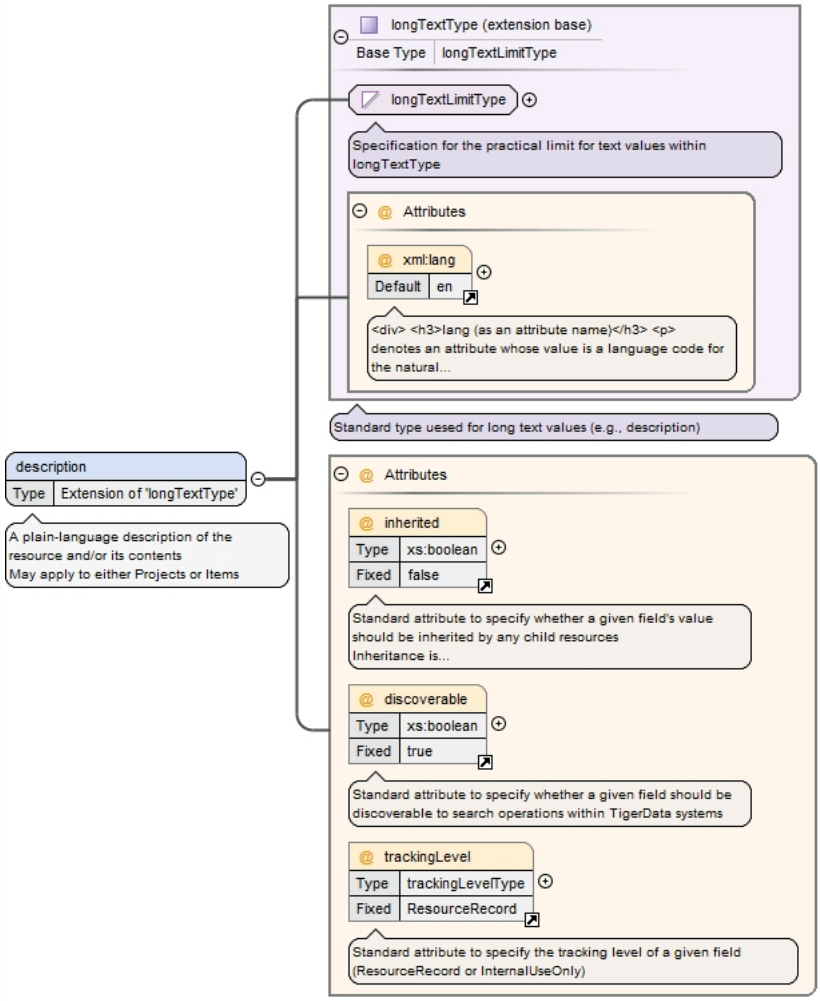
trackingLevel	trackingLevelType	ResourceRecord		optional	
	`Standard attribute to specify the tracking level of a given field (ResourceRecord or InternalUseOnly)`				
xml:lang	union of(xs:language, restriction of xs:string)		en	optional	
	`<div>` `  <h3>lang (as an attribute name)</h3>`				

	QName	Type	Fixed	Default	Use	
		denotes an attribute whose value is a language code for the natural language of the content of any element; its value is inherited. This name is reserved by virtue of its definition in the XML specification. <h4>Notes</h4> Attempting to install the relevant ISO 2- and 3-letter codes as the enumerated possible values is probably never going to be a realistic possibility. See BCP 47 at <a href="http://www.rfc-editor.org/rfc/bcp/bcp47.txt">http://www.rfc-editor.org/rfc/bcp/bcp47.txt</a>and the IANA language subtag registry at <a href="http://www.iana.org/assignments/language-subtag-registry">http://www.iana.org/assignments/language-subtag-registry</a>for further information. The union allows for the 'un-declaration' of xml:lang with the empty string. 				
Source	<xs:element name="title">\ <xs:annotation> <xs:documentation xml:lang="en">A plain-language title for the resource</xs:documentation> <xs:documentation xml:lang="en">May apply to either Projects or Items</xs:documentation> <xs:documentation xml:lang="en">Restricted to fewer characters than the typical free-text limitations</xs:documentation> </xs:annotation> <xs:complexType> <xs:simpleContent> <xs:extension base="titleType"> <xs:attribute ref="inherited" fixed="false"/> <xs:attribute ref="discoverable" fixed="true"/> <xs:attribute ref="trackingLevel" fixed="ResourceRecord"/> </xs:extension> </xs:simpleContent> </xs:complexType> </xs:element>					

Element description

Namespace	No namespace
Annotations	A plain-language description of the resource and/or its contents May apply to either Projects or Items

Diagram



Type	extension of longTextType

Type hierarchy	• xs:string
	  • longTextLimitType
	  • longTextType

Properties	content: `complex`
Used by	Element Groups itemFields, projectDescription

Attributes

QName	Type	Fixed	Default	Use	
discoverable	xs:boolean	true		optional	
	`Standard attribute to specify whether a given field should be discoverable to search operations within TigerData systems`				
inherited	xs:boolean	false		optional	

	`Standard attribute to specify whether a given field's value should be inherited by any child resources`
	
	`Inheritance is limited to the applicability of the field to the child resource (e.g., researchDomain may be inherited by a subproject but not an item)`				

trackingLevel	trackingLevelType	ResourceRecord		optional	
	`Standard attribute to specify the tracking level of a given field (ResourceRecord or InternalUseOnly)`				
xml:lang	union of(xs:language, restriction of xs:string)		en	optional	
	`<div>` `  <h3>lang (as an attribute name)</h3>`				

QName	Type	Fixed	Default	Use

```
  <p>denotes an attribute whose value is a language code for the natural
 language of the content of any element; its value is inherited. This name
 is reserved by virtue of its definition in the XML specification.</p>
</div>
<div>
  <h4>Notes</h4>
  <p>Attempting to install the relevant ISO 2- and 3-letter codes as the
 enumerated possible values is probably never going to be a realistic
 possibility.</p>
  <p>See BCP 47 at
    <a href="http://www.rfc-editor.org/rfc/bcp/bcp47.txt">http://www.rfc-
editor.org/rfc/bcp/bcp47.txt</a>and the IANA language subtag registry at
    <a href="http://www.iana.org/assignments/language-subtag-
registry">http://www.iana.org/assignments/language-subtag-registry</a>for
 further information.</p>
  <p>The union allows for the 'un-declaration' of xml:lang with the empty
 string.</p>
</div>
```

Source

```
<xs:element name="description">
  <xs:annotation>
    <xs:documentation xml:lang="en">A plain-language description of the resource and/or its
 contents</xs:documentation>
    <xs:documentation xml:lang="en">May apply to either Projects or Items</xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:simpleContent>
      <xs:extension base="longTextType">
        <xs:attribute ref="inherited" fixed="false"/>
        <xs:attribute ref="discoverable" fixed="true"/>
        <xs:attribute ref="trackingLevel" fixed="ResourceRecord"/>
      </xs:extension>
    </xs:simpleContent>
  </xs:complexType>
</xs:element>
```

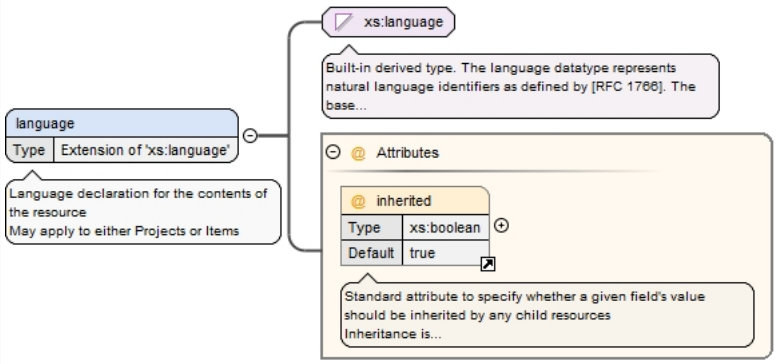
Element language

Namespace: No namespace

Annotations:

```
Language declaration for the contents of the resource

May apply to either Projects or Items
```

Diagram



Type: extension of xs:language

Properties: content: `complex`

Used by: Element languages

Attributes

QName	Type	Default	Use
inherited	xs:boolean	true	optional

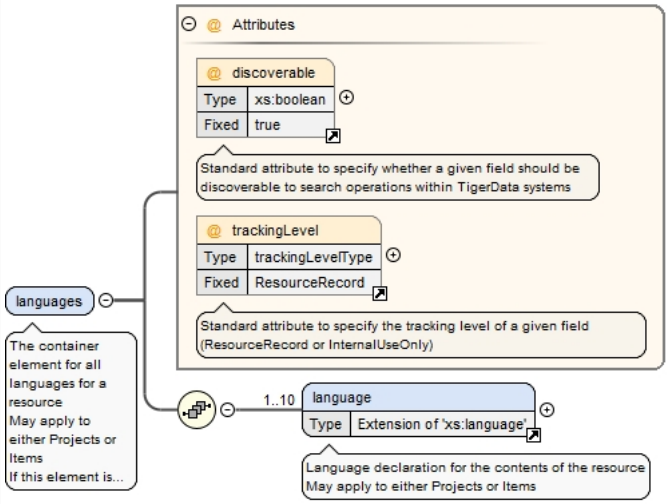
```
Standard attribute to specify whether a given field's value should be
 inherited by any child resources

Inheritance is limited to the applicability of the field to the child
 resource (e.g., researchDomain may be inherited by a subproject but not
 an item)
```

Source

```
<xs:element name="language">
  <xs:annotation>
    <xs:documentation xml:lang="en">Language declaration for the contents of the resource</
xs:documentation>
```

```
    <xs:documentation xml:lang="en">May apply to either Projects or Items</xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:simpleContent>
      <xs:extension base="xs:language">
        <xs:attribute ref="inherited" default="true"/>
      </xs:extension>
    </xs:simpleContent>
  </xs:complexType>
</xs:element>
```

Element languages

Namespace	No namespace
Annotations	The container element for all languages for a resource May apply to either Projects or Items If this element is present, then it should contain at least one sub-element
Diagram	
Properties	content: complex
Used by	Element Groups itemFields, projectDescription
Model	language{1,10}
Children	language

Instance	`<languages discoverable="true" trackingLevel="ResourceRecord">`
	`  <language inherited="true">{1,10}</language>`
	`</languages>`

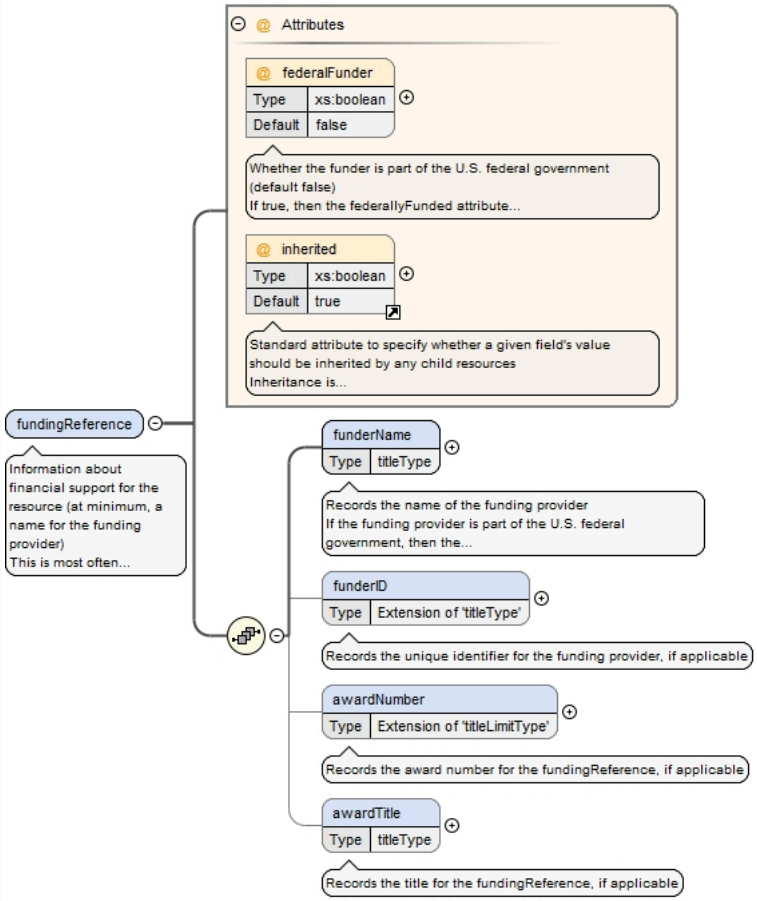
Attributes

QName	Type	Fixed	Use	
discoverable	xs:boolean	true	optional	
	Standard attribute to specify whether a given field should be discoverable to search operations within TigerData systems			
trackingLevel	trackingLevelType	ResourceRecord	optional	
	Standard attribute to specify the tracking level of a given field (ResourceRecord or InternalUseOnly)			

Source

```
<xs:element name="languages">
  <xs:annotation>
    <xs:documentation xml:lang="en">The container element for all languages for a resource</
xs:documentation>
    <xs:documentation xml:lang="en">May apply to either Projects or Items</xs:documentation>
    <xs:documentation xml:lang="en">If this element is present, then it should contain at least one
 sub-element</xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:sequence>
      <xs:element ref="language" minOccurs="1" maxOccurs="10"/>
    </xs:sequence>
    <xs:attribute ref="discoverable" fixed="true"/>
    <xs:attribute ref="trackingLevel" fixed="ResourceRecord"/>
  </xs:complexType>
</xs:element>
```

Element fundingReference

Namespace	No namespace
Annotations	Information about financial support for the resource (at minimum, a name for the funding provider) This is most often used to acknowledge grant funding for research projects, but it may also be used to specify any other funding sources for any type of resource May apply to either Projects or Items Derived from the DataCite definitions for FundingReference (v4.6+) https://datacite-metadata-schema.readthedocs.io/en/4.6/properties/fundingreference/
Diagram	
Properties	content: complex
Used by	Element fundingReferences
Model	funderName , funderID{0,1} , awardNumber{0,1} , awardTitle{0,1}
Children	awardNumber, awardTitle, funderID, funderName

Instance	`<fundingReference federalFunder="false" inherited="true">`
	`  <funderName xml:lang="en">{1,1}</funderName>`
	`  <funderID funderIDSchema="https://ror.org/" funderIDType="ROR" xml:lang="en">{0,1}</funderID>`
	`  <awardNumber awardURI="">{0,1}</awardNumber>`
	`  <awardTitle xml:lang="en">{0,1}</awardTitle>`
	`</fundingReference>`

Attributes	

QName	Type	Default	Use	
federalFunder	xs:boolean	false	optional	
	Whether the funder is part of the U.S. federal government (default false) If true, then the federallyFunded attribute for funded should also be true			
inherited	xs:boolean	true	optional	
	Standard attribute to specify whether a given field's value should be inherited by any child resources			

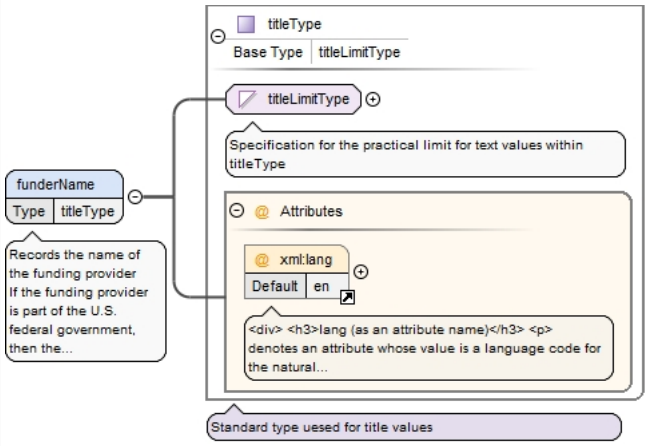
	QName	Type	Default	Use	
		Inheritance is limited to the applicability of the field to the child resource (e.g., researchDomain may be inherited by a subproject but not an item)			

Source

```
<xs:element name="fundingReference">
  <xs:annotation>
    <xs:documentation xml:lang="en">Information about financial support for the resource (at
 minimum, a name for the funding provider)</xs:documentation>
    <xs:documentation xml:lang="en">This is most often used to acknowledge grant funding for
 research projects, but it may also be used to specify any other funding sources for any type of
 resource</xs:documentation>
    <xs:documentation xml:lang="en">May apply to either Projects or Items</xs:documentation>
    <xs:documentation xml:lang="en">Derived from the DataCite definitions for FundingReference
 (v4.6+)</xs:documentation>
    <xs:documentation>https://datacite-metadata-schema.readthedocs.io/en/4.6/properties/
fundingreference/</xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:sequence>
      <xs:element name="funderName" type="titleType" minOccurs="1" maxOccurs="1">
        <xs:annotation>
          <xs:documentation xml:lang="en">Records the name of the funding provider</
xs:documentation>
          <xs:documentation xml:lang="en">If the funding provider is part of the U.S. federal
 government, then the federalFunder attribute should be set to true</xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="funderID" minOccurs="0" maxOccurs="1">
        <xs:annotation>
          <xs:documentation xml:lang="en">Records the unique identifier for the funding provider, if
 applicable</xs:documentation>
        </xs:annotation>
        <xs:complexType>
          <xs:simpleContent>
            <xs:extension base="titleType">
              <xs:attribute name="funderIDType" default="ROR">
                <xs:annotation>
                  <xs:documentation xml:lang="en">Records the type of identifier used for funderID</
xs:documentation>
                </xs:annotation>
                <xs:simpleType>
                  <xs:restriction base="xs:string">
                    <xs:enumeration value="Crossref Funder ID" xml:lang="en"/>
                    <xs:enumeration value="GRID" xml:lang="en"/>
                    <xs:enumeration value="ISNI" xml:lang="en"/>
                    <xs:enumeration value="ROR" xml:lang="en"/>
                    <xs:enumeration value="Other" xml:lang="en"/>
                  </xs:restriction>
                </xs:simpleType>
              </xs:attribute>
              <xs:attribute name="funderIDSchema" type="xs:anyURI" default="https://ror.org/">
                <xs:annotation>
                  <xs:documentation xml:lang="en">Records the schema that defines funderIDType</
xs:documentation>
                </xs:annotation>
              </xs:attribute>
            </xs:extension>
          </xs:simpleContent>
        </xs:complexType>
      </xs:element>
      <xs:element name="awardNumber" minOccurs="0" maxOccurs="1">
        <xs:annotation>
          <xs:documentation xml:lang="en">Records the award number for the fundingReference, if
 applicable</xs:documentation>
        </xs:annotation>
        <xs:complexType>
          <xs:simpleContent>
            <xs:extension base="titleLimitType">
              <xs:attribute name="awardURI" type="xs:anyURI" use="optional">
                <xs:annotation>
                  <xs:documentation xml:lang="en">Records the URI for the awardNumber</
xs:documentation>
                </xs:annotation>
              </xs:attribute>
            </xs:extension>
          </xs:simpleContent>
        </xs:complexType>
      </xs:element>
      <xs:element name="awardTitle" type="titleType" minOccurs="0" maxOccurs="1">
        <xs:annotation>
```

```
          <xs:documentation xml:lang="en">Records the title for the fundingReference, if
 applicable</xs:documentation>
        </xs:annotation>
      </xs:element>
    </xs:sequence>
    <xs:attribute name="federalFunder" type="xs:boolean" default="false">
      <xs:annotation>
        <xs:documentation xml:lang="en">Whether the funder is part of the U.S. federal government
 (default false)</xs:documentation>
        <xs:documentation xml:lang="en">If true, then the federallyFunded attribute for funded
 should also be true</xs:documentation>
      </xs:annotation>
    </xs:attribute>
    <xs:attribute ref="inherited" default="true"/>
  </xs:complexType>
</xs:element>
```

Element fundingReference / funderName

Namespace	No namespace
Annotations	Records the name of the funding provider If the funding provider is part of the U.S. federal government, then the federalFunder attribute should be set to true
Diagram	
Type	titleType

Type hierarchy	• xs:string
	  • titleLimitType
	  • titleType

Properties	content: complex minOccurs: 1 maxOccurs: 1

Attributes

QName	Type	Default	Use	
xml:lang	union of(xs:language, restriction of xs:string)	en	optional	

```
<div>
  <h3>lang (as an attribute name)</h3>
  <p>denotes an attribute whose value is a language code for the natural
 language of the content of any element; its value is inherited. This name
 is reserved by virtue of its definition in the XML specification.</p>
</div>
<div>
  <h4>Notes</h4>
  <p>Attempting to install the relevant ISO 2- and 3-letter codes as the
 enumerated possible values is probably never going to be a realistic
 possibility.</p>
  <p>See BCP 47 at
    <a href="http://www.rfc-editor.org/rfc/bcp/bcp47.txt">http://www.rfc-
editor.org/rfc/bcp/bcp47.txt</a>and the IANA language subtag registry at
    <a href="http://www.iana.org/assignments/language-subtag-
registry">http://www.iana.org/assignments/language-subtag-registry</a>for
 further information.</p>
  <p>The union allows for the 'un-declaration' of xml:lang with the empty
 string.</p>
```

	QName	Type	Default	Use	
		`</div>`			

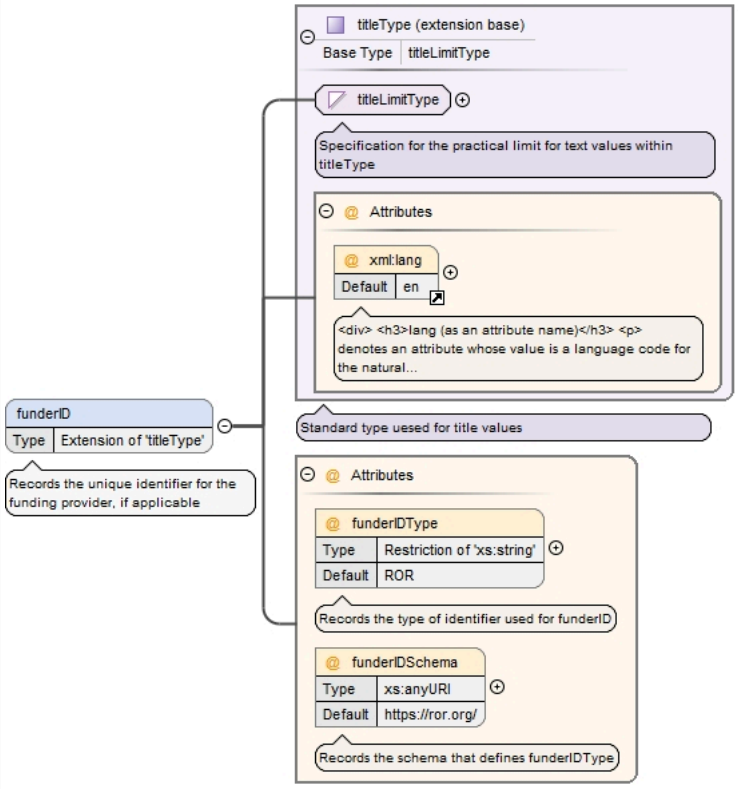
Source

```
<xs:element name="funderName" type="titleType" minOccurs="1" maxOccurs="1">
  <xs:annotation>
    <xs:documentation xml:lang="en">Records the name of the funding provider</xs:documentation>
    <xs:documentation xml:lang="en">If the funding provider is part of the U.S. federal government,
 then the federalFunder attribute should be set to true</xs:documentation>
  </xs:annotation>
</xs:element>
```

Element `fundingReference / funderID`

Namespace	No namespace
Annotations	`Records the unique identifier for the funding provider, if applicable`

Diagram



Type	extension of titleType

Type hierarchy	• xs:string
	  • titleLimitType
	  • titleType

Properties

content:	`complex`
minOccurs:	`0`
maxOccurs:	`1`

Attributes

QName	Type	Default	Use	
funderIDSchema	xs:anyURI	https://ror.org/	optional	
	`Records the schema that defines funderIDType`			
funderIDType	restriction of xs:string	ROR	optional	
	`Records the type of identifier used for funderID`			
xml:lang	union of(xs:language, restriction of xs:string)	en	optional	

	`<div>`
	`  <h3>lang (as an attribute name)</h3>`
	`  <p>denotes an attribute whose value is a language code for the natural language of the content of any element; its value is inherited. This name is reserved by virtue of its definition in the XML specification.</p>`			

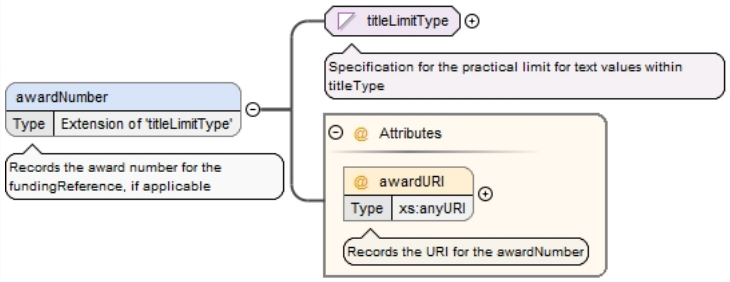
	QName	Type	Default	Use	

```
</div>
<div>
  <h4>Notes</h4>
  <p>Attempting to install the relevant ISO 2- and 3-letter codes as the
 enumerated possible values is probably never going to be a realistic
 possibility.</p>
  <p>See BCP 47 at
    <a href="http://www.rfc-editor.org/rfc/bcp/bcp47.txt">http://www.rfc-
editor.org/rfc/bcp/bcp47.txt</a>and the IANA language subtag registry at
    <a href="http://www.iana.org/assignments/language-subtag-
registry">http://www.iana.org/assignments/language-subtag-registry</a>for
 further information.</p>
  <p>The union allows for the 'un-declaration' of xml:lang with the empty
 string.</p>
</div>
```

Source

```
<xs:element name="funderID" minOccurs="0" maxOccurs="1">
  <xs:annotation>
    <xs:documentation xml:lang="en">Records the unique identifier for the funding provider, if
 applicable</xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:simpleContent>
      <xs:extension base="titleType">
        <xs:attribute name="funderIDType" default="ROR">
          <xs:annotation>
            <xs:documentation xml:lang="en">Records the type of identifier used for funderID</
xs:documentation>
          </xs:annotation>
          <xs:simpleType>
            <xs:restriction base="xs:string">
              <xs:enumeration value="Crossref Funder ID" xml:lang="en"/>
              <xs:enumeration value="GRID" xml:lang="en"/>
              <xs:enumeration value="ISNI" xml:lang="en"/>
              <xs:enumeration value="ROR" xml:lang="en"/>
              <xs:enumeration value="Other" xml:lang="en"/>
            </xs:restriction>
          </xs:simpleType>
        </xs:attribute>
        <xs:attribute name="funderIDSchema" type="xs:anyURI" default="https://ror.org/">
          <xs:annotation>
            <xs:documentation xml:lang="en">Records the schema that defines funderIDType</
xs:documentation>
          </xs:annotation>
        </xs:attribute>
      </xs:extension>
    </xs:simpleContent>
  </xs:complexType>
</xs:element>
```

Element fundingReference / awardNumber

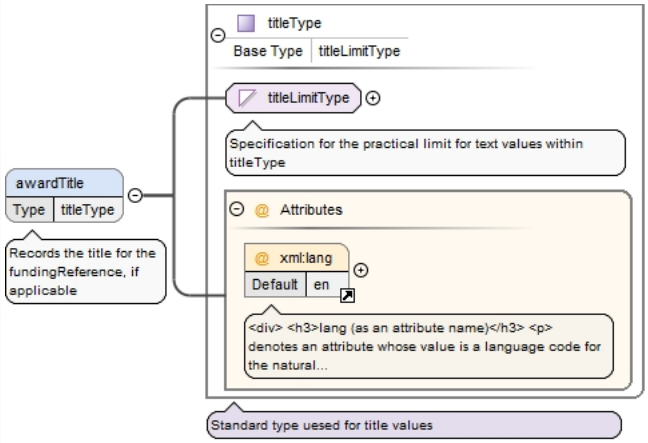
Namespace	No namespace
Annotations	Records the award number for the fundingReference, if applicable
Diagram	
Type	extension of titleLimitType
Type hierarchy	• xs:string • titleLimitType
Properties	content: complex minOccurs: 0 maxOccurs: 1

Attributes	**QName**	**Type**	**Use**	
	awardURI	xs:anyURI	optional	
		Records the URI for the awardNumber		

Source

```
<xs:element name="awardNumber" minOccurs="0" maxOccurs="1">
  <xs:annotation>
    <xs:documentation xml:lang="en">Records the award number for the fundingReference, if
 applicable</xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:simpleContent>
      <xs:extension base="titleLimitType">
        <xs:attribute name="awardURI" type="xs:anyURI" use="optional">
          <xs:annotation>
            <xs:documentation xml:lang="en">Records the URI for the awardNumber</xs:documentation>
          </xs:annotation>
        </xs:attribute>
      </xs:extension>
    </xs:simpleContent>
  </xs:complexType>
</xs:element>
```

Element fundingReference / awardTitle

Namespace	No namespace
Annotations	Records the title for the fundingReference, if applicable
Diagram	
Type	titleType

Type hierarchy	• xs:string
	  • titleLimitType
	  • titleType

Properties	content: complex minOccurs: 0 maxOccurs: 1

Attributes

QName	Type	Default	Use	
xml:lang	union of(xs:language, restriction of xs:string)	en	optional	

```
<div>
  <h3>lang (as an attribute name)</h3>
  <p>denotes an attribute whose value is a language code for the natural
 language of the content of any element; its value is inherited. This name
 is reserved by virtue of its definition in the XML specification.</p>
</div>
<div>
  <h4>Notes</h4>
  <p>Attempting to install the relevant ISO 2- and 3-letter codes as the
 enumerated possible values is probably never going to be a realistic
 possibility.</p>
  <p>See BCP 47 at
    <a href="http://www.rfc-editor.org/rfc/bcp/bcp47.txt">http://www.rfc-
editor.org/rfc/bcp/bcp47.txt</a>and the IANA language subtag registry at
```

	QName	Type	Default	Use	
		<a href="http://www.iana.org/assignments/language-subtag-registry">http://www.iana.org/assignments/language-subtag-registry</a>for further information. The union allows for the 'un-declaration' of xml:lang with the empty string. 			

Source

```
<xs:element name="awardTitle" type="titleType" minOccurs="0" maxOccurs="1">
  <xs:annotation>
    <xs:documentation xml:lang="en">Records the title for the fundingReference, if applicable</
xs:documentation>
  </xs:annotation>
</xs:element>
```

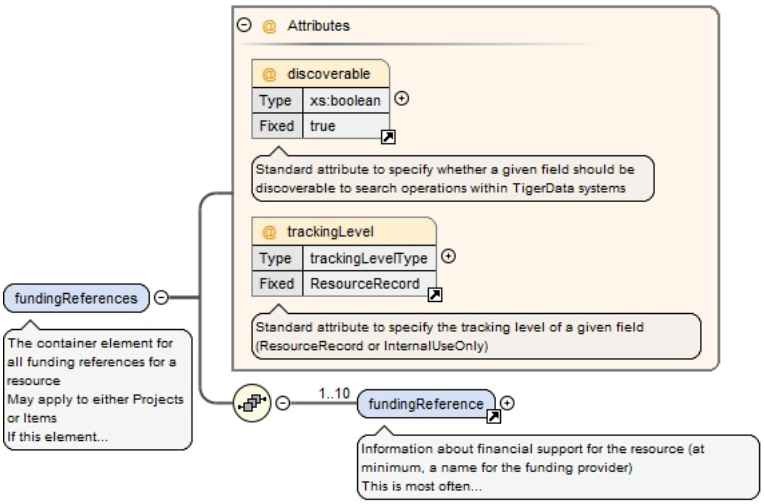
Element fundingReferences

Namespace: No namespace

Annotations:

```
The container element for all funding references for a resource

May apply to either Projects or Items

If this element is present, then it should contain at least one sub-element
```

Diagram



Properties: content: complex

Used by: Element Groups: additionalProjectInformation, itemFields

Model: fundingReference{1,10}

Children: fundingReference

Instance

```
<fundingReferences discoverable="true" trackingLevel="ResourceRecord">
  <fundingReference federalFunder="false" inherited="true">{1,10}</fundingReference>
</fundingReferences>
```

Attributes

QName	Type	Fixed	Use	
discoverable	xs:boolean	true	optional	
	Standard attribute to specify whether a given field should be discoverable to search operations within TigerData systems			
trackingLevel	trackingLevelType	ResourceRecord	optional	
	Standard attribute to specify the tracking level of a given field (ResourceRecord or InternalUseOnly)			

Source

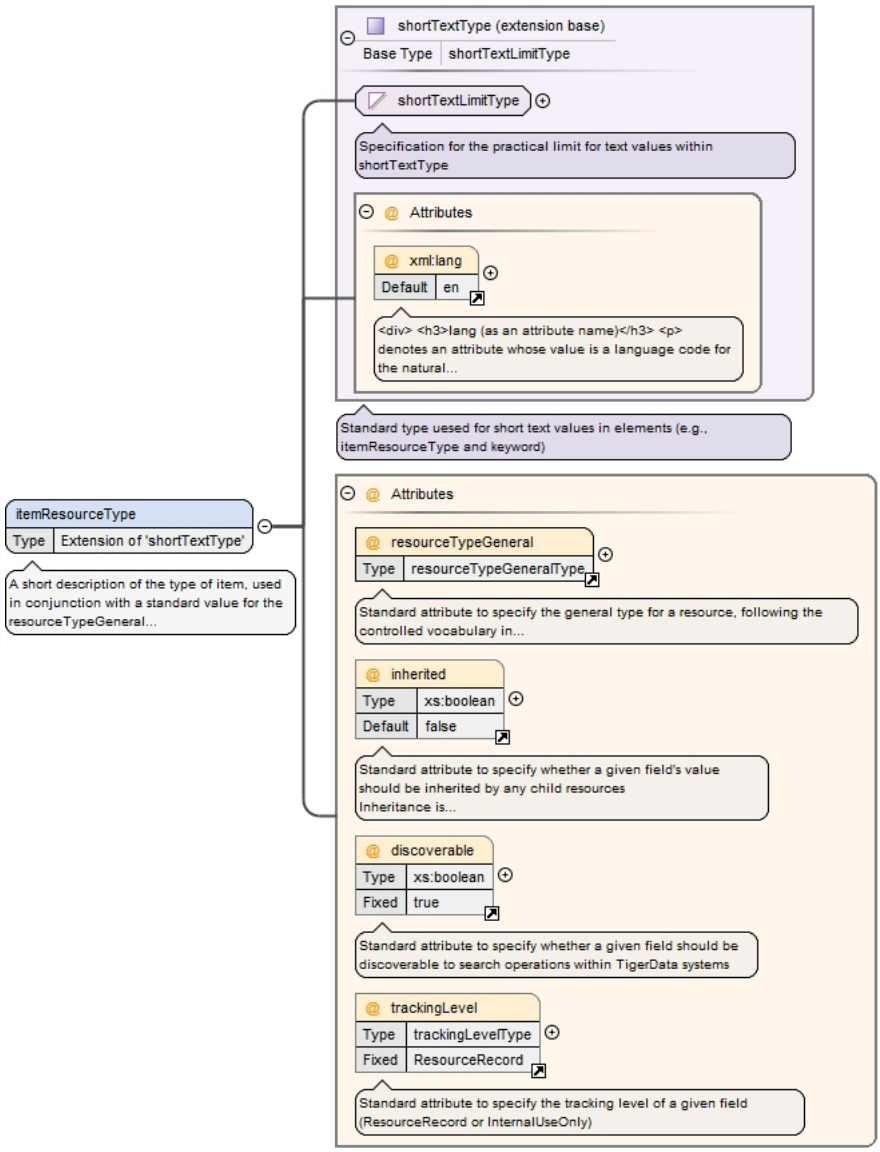
```
<xs:element name="fundingReferences">
  <xs:annotation>
    <xs:documentation xml:lang="en">The container element for all funding references for a
 resource</xs:documentation>
    <xs:documentation xml:lang="en">May apply to either Projects or Items</xs:documentation>
    <xs:documentation xml:lang="en">If this element is present, then it should contain at least one
 sub-element</xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:sequence>
      <xs:element ref="fundingReference" minOccurs="1" maxOccurs="10"/>
    </xs:sequence>
```

```
    <xs:attribute ref="discoverable" fixed="true"/>
    <xs:attribute ref="trackingLevel" fixed="ResourceRecord"/>
  </xs:complexType>
</xs:element>
```

Element `itemResourceType`

Namespace	No namespace

Annotations	`A short description of the type of item, used in conjunction with a standard value for the resourceTypeGeneral attribute`
	
	`Does not apply to Projects`
	
	`Modeled after the DataCite definition for ResourceType (v4.6+)`

Diagram	
Type	extension of shortTextType

Type hierarchy	• xs:string
	  • shortTextLimitType
	  • shortTextType

Properties	content: `complex`
Used by	Element Group itemFields
Attributes	

QName	Type	Fixed	Default	Use	
discoverable	xs:boolean	true		optional	

QName	Type	Fixed	Default	Use	
	Standard attribute to specify whether a given field should be discoverable to search operations within TigerData systems				
inherited	xs:boolean		false	optional	
	Standard attribute to specify whether a given field's value should be inherited by any child resources Inheritance is limited to the applicability of the field to the child resource (e.g., researchDomain may be inherited by a subproject but not an item)				
resourceTypeGeneral	resourceTypeGeneralType			required	
	Standard attribute to specify the general type for a resource, following the controlled vocabulary in resourceTypeGeneralType Derived from the DataCite definition for resourceTypeGeneral (v4.6+)				
trackingLevel	trackingLevelType	ResourceRecord		optional	
	Standard attribute to specify the tracking level of a given field (ResourceRecord or InternalUseOnly)				
xml:lang	union of(xs:language, restriction of xs:string)		en	optional	
	 <h3>lang (as an attribute name)</h3> denotes an attribute whose value is a language code for the natural language of the content of any element; its value is inherited. This name is reserved by virtue of its definition in the XML specification. <h4>Notes</h4> Attempting to install the relevant ISO 2- and 3-letter codes as the enumerated possible values is probably never going to be a realistic possibility. See BCP 47 at <a href="http://www.rfc-editor.org/rfc/bcp/bcp47.txt">http://www.rfc-editor.org/rfc/bcp/bcp47.txt</a>and the IANA language subtag registry at <a href="http://www.iana.org/assignments/language-subtag-registry">http://www.iana.org/assignments/language-subtag-registry</a>for further information. The union allows for the 'un-declaration' of xml:lang with the empty string. 				

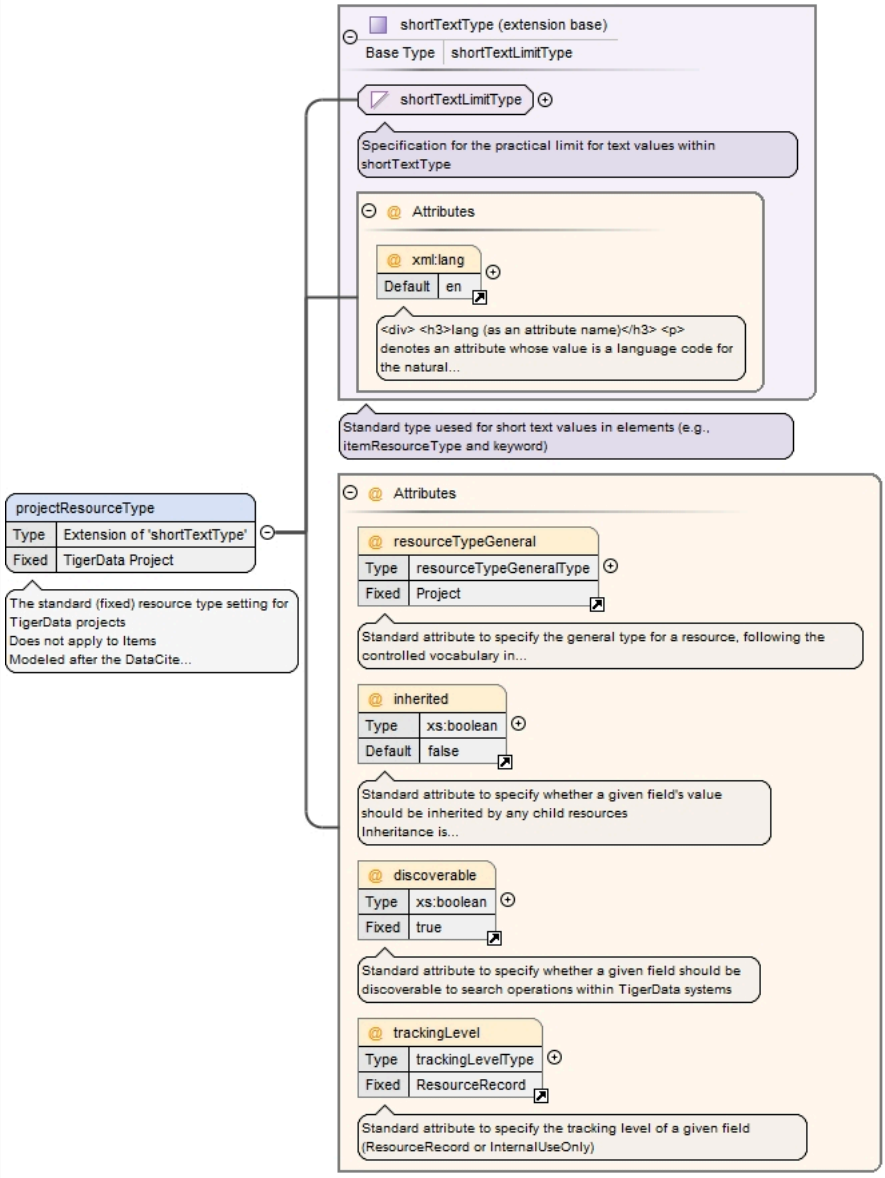
Source

```
<xs:element name="itemResourceType">
  <xs:annotation>
    <xs:documentation xml:lang="en">A short description of the type of item, used in conjunction
 with a standard value for the resourceTypeGeneral attribute</xs:documentation>
    <xs:documentation xml:lang="en">Does not apply to Projects</xs:documentation>
    <xs:documentation xml:lang="en">Modeled after the DataCite definition for ResourceType (v4.6+)</
xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:simpleContent>
      <xs:extension base="shortTextType">
        <xs:attribute ref="resourceTypeGeneral" use="required"/>
        <xs:attribute ref="inherited" default="false"/>
        <xs:attribute ref="discoverable" fixed="true"/>
        <xs:attribute ref="trackingLevel" fixed="ResourceRecord"/>
      </xs:extension>
    </xs:simpleContent>
  </xs:complexType>
</xs:element>
```

Element `projectResourceType`

Namespace	No namespace
Annotations	The standard (fixed) resource type setting for TigerData projects Does not apply to Items Modeled after the DataCite definition for resourceType (v4.6+)

Diagram



Type	extension of shortTextType
Type hierarchy	• xs:string • shortTextLimitType • shortTextType
Properties	content: `complex` fixed: `TigerData Project`
Used by	Element Group additionalProjectInformation

Attributes

QName	Type	Fixed	Default	Use	
discoverable	xs:boolean	true		optional	
	`Standard attribute to specify whether a given field should be discoverable to search operations within TigerData systems`				
inherited	xs:boolean		false	optional	

	`Standard attribute to specify whether a given field's value should be inherited by any child resources`
	
	`Inheritance is limited to the applicability of the field to the child resource (e.g., researchDomain may be inherited by a subproject but not an item)`				

resourceTypeGeneral	resourceTypeGeneralType	Project		optional	

QName	Type	Fixed	Default	Use	
	Standard attribute to specify the general type for a resource, following the controlled vocabulary in resourceTypeGeneralType Derived from the DataCite definition for resourceTypeGeneral (v4.6+)				
trackingLevel	trackingLevelType	ResourceRecord		optional	
	Standard attribute to specify the tracking level of a given field (ResourceRecord or InternalUseOnly)				
xml:lang	union of(xs:language, restriction of xs:string)		en	optional	
	 <h3>lang (as an attribute name)</h3> denotes an attribute whose value is a language code for the natural language of the content of any element; its value is inherited. This name is reserved by virtue of its definition in the XML specification. <h4>Notes</h4> Attempting to install the relevant ISO 2- and 3-letter codes as the enumerated possible values is probably never going to be a realistic possibility. See BCP 47 at <a href="http://www.rfc-editor.org/rfc/bcp/bcp47.txt">http://www.rfc-editor.org/rfc/bcp/bcp47.txt</a>and the IANA language subtag registry at <a href="http://www.iana.org/assignments/language-subtag-registry">http://www.iana.org/assignments/language-subtag-registry</a>for further information. The union allows for the 'un-declaration' of xml:lang with the empty string. 				

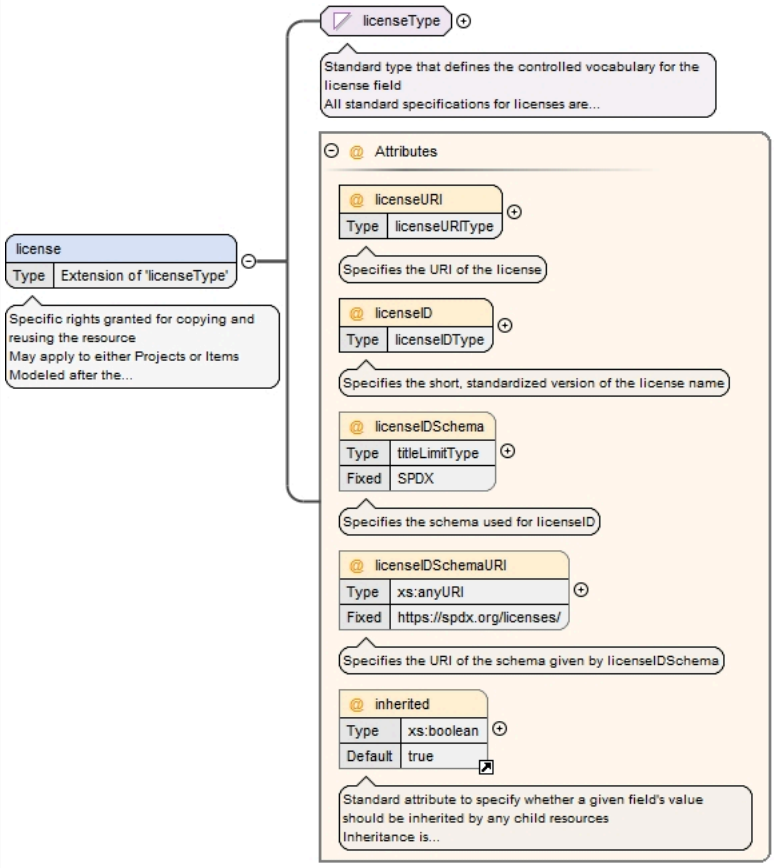
Source

```
<xs:element name="projectResourceType" fixed="TigerData Project">
  <xs:annotation>
    <xs:documentation xml:lang="en">The standard (fixed) resource type setting for TigerData
 projects</xs:documentation>
    <xs:documentation xml:lang="en">Does not apply to Items</xs:documentation>
    <xs:documentation xml:lang="en">Modeled after the DataCite definition for resourceType (v4.6+)</
xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:simpleContent>
      <xs:extension base="shortTextType">
        <xs:attribute ref="resourceTypeGeneral" fixed="Project"/>
        <xs:attribute ref="inherited" default="false"/>
        <xs:attribute ref="discoverable" fixed="true"/>
        <xs:attribute ref="trackingLevel" fixed="ResourceRecord"/>
      </xs:extension>
    </xs:simpleContent>
  </xs:complexType>
</xs:element>
```

Element license

Namespace	No namespace
Annotations	Specific rights granted for copying and reusing the resource May apply to either Projects or Items Modeled after the DataCite definitions for Rights (v4.6+)

Diagram



Type	extension of licenseType
Type hierarchy	• xs:string • licenseType
Properties	content: `complex`
Used by	Element licenses

Attributes

QName	Type	Fixed	Default	Use	
inherited	xs:boolean		true	optional	

	`Standard attribute to specify whether a given field's value should be inherited by any child resources`
	
	`Inheritance is limited to the applicability of the field to the child resource (e.g., researchDomain may be inherited by a subproject but not an item)`				

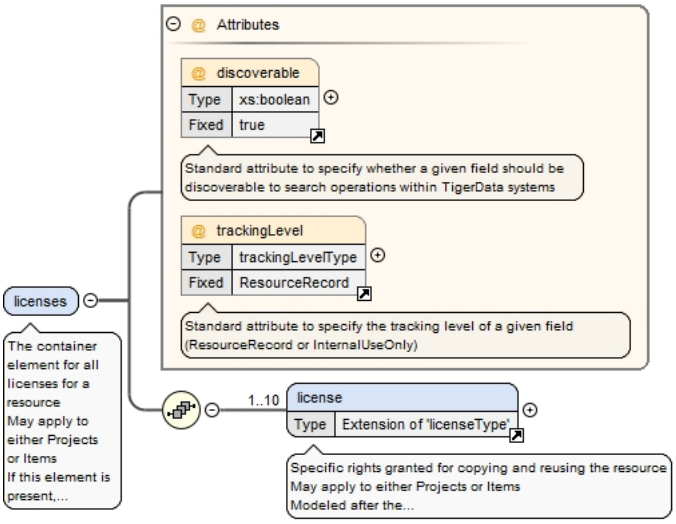
licenseID	licenseIDType			required	
	`Specifies the short, standardized version of the license name`				
licenseIDSchema	titleLimitType	SPDX		optional	
	`Specifies the schema used for licenseID`				
licenseIDSchemaURI	xs:anyURI	https://spdx.org/licenses/		optional	
	`Specifies the URI of the schema given by licenseIDSchema`				
licenseURI	licenseURIType			required	
	`Specifies the URI of the license`				

Source

```
<xs:element name="license">
  <xs:annotation>
    <xs:documentation xml:lang="en">Specific rights granted for copying and reusing the resource</
xs:documentation>
    <xs:documentation xml:lang="en">May apply to either Projects or Items</xs:documentation>
    <xs:documentation xml:lang="en">Modeled after the DataCite definitions for Rights (v4.6+)</
xs:documentation>
  </xs:annotation>
  <xs:complexType>
```

```
    <xs:simpleContent>
      <xs:extension base="licenseType">
        <xs:attribute name="licenseURI" type="licenseURIType" use="required">
          <xs:annotation>
            <xs:documentation xml:lang="en">Specifies the URI of the license</xs:documentation>
          </xs:annotation>
        </xs:attribute>
        <xs:attribute name="licenseID" type="licenseIDType" use="required">
          <xs:annotation>
            <xs:documentation xml:lang="en">Specifies the short, standardized version of the license
 name</xs:documentation>
          </xs:annotation>
        </xs:attribute>
        <xs:attribute name="licenseIDSchema" type="titleLimitType" fixed="SPDX">
          <xs:annotation>
            <xs:documentation xml:lang="en">Specifies the schema used for licenseID</
xs:documentation>
          </xs:annotation>
        </xs:attribute>
        <xs:attribute name="licenseIDSchemaURI" type="xs:anyURI" fixed="https://spdx.org/licenses/">
          <xs:annotation>
            <xs:documentation xml:lang="en">Specifies the URI of the schema given by
 licenseIDSchema</xs:documentation>
          </xs:annotation>
        </xs:attribute>
        <xs:attribute ref="inherited" default="true"/>
      </xs:extension>
    </xs:simpleContent>
  </xs:complexType>
</xs:element>
```

Element licenses

Namespace	No namespace
Annotations	The container element for all licenses for a resource May apply to either Projects or Items If this element is present, then it should contain at least one sub-element
Diagram	
Properties	content: complex
Used by	Element Groups additionalProjectInformation, itemFields
Model	license{1,10}
Children	license

Instance	`<licenses discoverable="true" trackingLevel="ResourceRecord">`
	`  <license inherited="true" licenseID="" licenseIDSchema="SPDX" licenseIDSchemaURI="https://spdx.org/licenses/" licenseURI="">{1,10}</license>`
	`</licenses>`

Attributes	

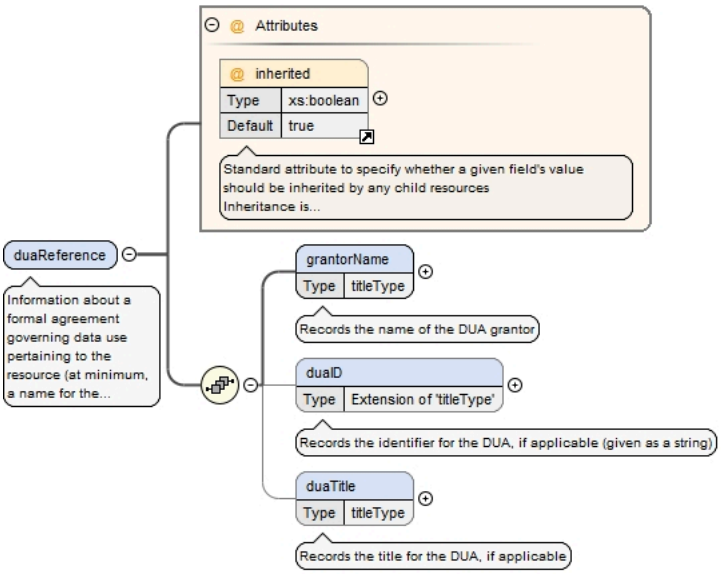
QName	Type	Fixed	Use	
discoverable	xs:boolean	true	optional	
	Standard attribute to specify whether a given field should be discoverable to search operations within TigerData systems			

QName	Type	Fixed	Use
trackingLevel	trackingLevelType	ResourceRecord	optional
	Standard attribute to specify the tracking level of a given field (ResourceRecord or InternalUseOnly)		

Source

```
<xs:element name="licenses">
  <xs:annotation>
    <xs:documentation xml:lang="en">The container element for all licenses for a resource</
xs:documentation>
    <xs:documentation xml:lang="en">May apply to either Projects or Items</xs:documentation>
    <xs:documentation xml:lang="en">If this element is present, then it should contain at least one
 sub-element</xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:sequence>
      <xs:element ref="license" minOccurs="1" maxOccurs="10"/>
    </xs:sequence>
    <xs:attribute ref="discoverable" fixed="true"/>
    <xs:attribute ref="trackingLevel" fixed="ResourceRecord"/>
  </xs:complexType>
</xs:element>
```

Element duaReference

Namespace	No namespace
Annotations	Information about a formal agreement governing data use pertaining to the resource (at minimum, a name for the agreement grantor) DUA is short for Data Use Agreement May apply to either Projects or Items
Diagram	
Properties	content: complex
Used by	Element duaReferences
Model	grantorName , duaID{0,1} , duaTitle{0,1}
Children	duaID, duaTitle, grantorName
Instance	


```
<duaReference inherited="true">
  <grantorName xml:lang="en">{1,1}</grantorName>
  <duaID duaURI="" xml:lang="en">{0,1}</duaID>
  <duaTitle xml:lang="en">{0,1}</duaTitle>
</duaReference>
```

Attributes

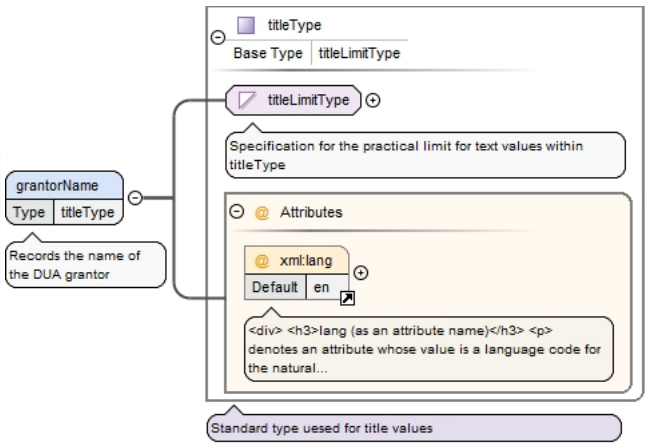
QName	Type	Default	Use
inherited	xs:boolean	true	optional
	Standard attribute to specify whether a given field's value should be inherited by any child resources		

	QName	Type	Default	Use	
		Inheritance is limited to the applicability of the field to the child resource (e.g., researchDomain may be inherited by a subproject but not an item)			

Source

```
<xs:element name="duaReference">
  <xs:annotation>
    <xs:documentation xml:lang="en">Information about a formal agreement governing data use
 pertaining to the resource (at minimum, a name for the agreement grantor)</xs:documentation>
    <xs:documentation xml:lang="en">DUA is short for Data Use Agreement</xs:documentation>
    <xs:documentation xml:lang="en">May apply to either Projects or Items</xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:sequence>
      <xs:element name="grantorName" type="titleType" minOccurs="1" maxOccurs="1">
        <xs:annotation>
          <xs:documentation xml:lang="en">Records the name of the DUA grantor</xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="duaID" minOccurs="0" maxOccurs="1">
        <xs:annotation>
          <xs:documentation xml:lang="en">Records the identifier for the DUA, if applicable (given
 as a string)</xs:documentation>
        </xs:annotation>
        <xs:complexType>
          <xs:simpleContent>
            <xs:extension base="titleType">
              <xs:attribute name="duaURI" type="xs:anyURI" use="optional">
                <xs:annotation>
                  <xs:documentation xml:lang="en">Records the URI for the DUA</xs:documentation>
                </xs:annotation>
              </xs:attribute>
            </xs:extension>
          </xs:simpleContent>
        </xs:complexType>
      </xs:element>
      <xs:element name="duaTitle" type="titleType" minOccurs="0" maxOccurs="1">
        <xs:annotation>
          <xs:documentation xml:lang="en">Records the title for the DUA, if applicable</
xs:documentation>
        </xs:annotation>
      </xs:element>
    </xs:sequence>
    <xs:attribute ref="inherited" default="true"/>
  </xs:complexType>
</xs:element>
```

Element duaReference / grantorName

Namespace	No namespace
Annotations	Records the name of the DUA grantor
Diagram	
Type	titleType

Type hierarchy	• xs:string
	  • titleLimitType
	  • titleType

Properties	content: complex

	minOccurs:	1
	maxOccurs:	1

Attributes

QName	Type	Default	Use	
xml:lang	union of(xs:language, restriction of xs:string)	en	optional	

```
<div>
  <h3>lang (as an attribute name)</h3>
  <p>denotes an attribute whose value is a language code for the natural
 language of the content of any element; its value is inherited. This name
 is reserved by virtue of its definition in the XML specification.</p>
</div>
<div>
  <h4>Notes</h4>
  <p>Attempting to install the relevant ISO 2- and 3-letter codes as the
 enumerated possible values is probably never going to be a realistic
 possibility.</p>
  <p>See BCP 47 at
    <a href="http://www.rfc-editor.org/rfc/bcp/bcp47.txt">http://www.rfc-
editor.org/rfc/bcp/bcp47.txt</a>and the IANA language subtag registry at
    <a href="http://www.iana.org/assignments/language-subtag-
registry">http://www.iana.org/assignments/language-subtag-registry</a>for
 further information.</p>
  <p>The union allows for the 'un-declaration' of xml:lang with the empty
 string.</p>
</div>
```

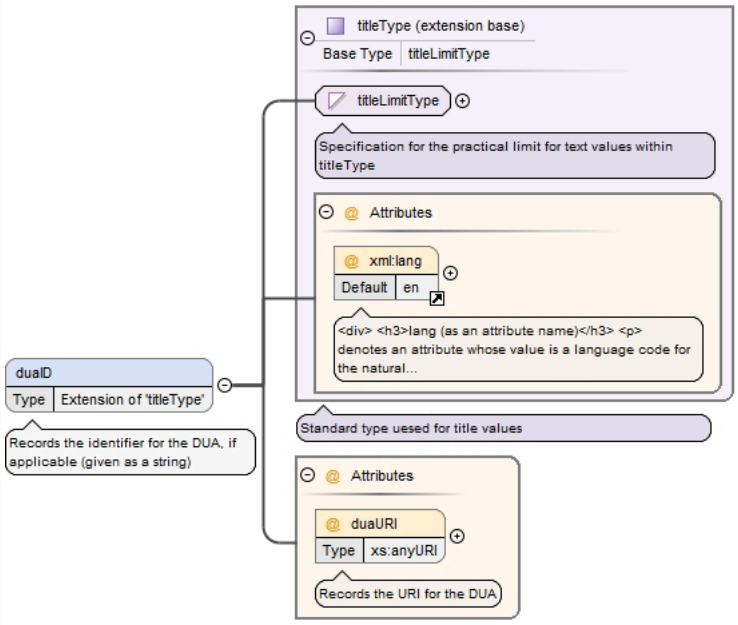
Source

```
<xs:element name="grantorName" type="titleType" minOccurs="1" maxOccurs="1">
  <xs:annotation>
    <xs:documentation xml:lang="en">Records the name of the DUA grantor</xs:documentation>
  </xs:annotation>
</xs:element>
```

Element dualReference / dualID

Namespace	No namespace
Annotations	Records the identifier for the DUA, if applicable (given as a string)

Diagram



Type	extension of titleType

Type hierarchy	• xs:string
	  • titleLimitType
	  • titleType

Properties

content:	complex
minOccurs:	0
maxOccurs:	1

Attributes

QName	Type	Default	Use	
duaURI	xs:anyURI		optional	
	Records the URI for the DUA			
xml:lang	union of(xs:language, restriction of xs:string)	en	optional	

```
<div>
  <h3>lang (as an attribute name)</h3>
  <p>denotes an attribute whose value is a language code for the natural
 language of the content of any element; its value is inherited. This name
 is reserved by virtue of its definition in the XML specification.</p>
</div>
<div>
  <h4>Notes</h4>
  <p>Attempting to install the relevant ISO 2- and 3-letter codes as the
 enumerated possible values is probably never going to be a realistic
 possibility.</p>
  <p>See BCP 47 at
    <a href="http://www.rfc-editor.org/rfc/bcp/bcp47.txt">http://www.rfc-
editor.org/rfc/bcp/bcp47.txt</a>and the IANA language subtag registry at
    <a href="http://www.iana.org/assignments/language-subtag-
registry">http://www.iana.org/assignments/language-subtag-registry</a>for
 further information.</p>
  <p>The union allows for the 'un-declaration' of xml:lang with the empty
 string.</p>
</div>
```

Source

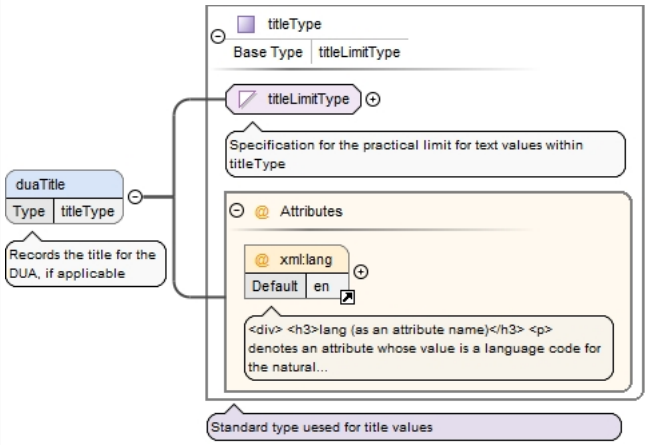
```
<xs:element name="duaID" minOccurs="0" maxOccurs="1">
  <xs:annotation>
    <xs:documentation xml:lang="en">Records the identifier for the DUA, if applicable (given as a
 string)</xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:simpleContent>
      <xs:extension base="titleType">
        <xs:attribute name="duaURI" type="xs:anyURI" use="optional">
          <xs:annotation>
            <xs:documentation xml:lang="en">Records the URI for the DUA</xs:documentation>
          </xs:annotation>
        </xs:attribute>
      </xs:extension>
    </xs:simpleContent>
  </xs:complexType>
</xs:element>
```

Element duaReference / duaTitle

Namespace: No namespace

Annotations: Records the title for the DUA, if applicable

Diagram



Type: titleType

Type hierarchy:
- xs:string
  - titleLimitType
    - titleType

Properties: content: complex

	minOccurs:	0
	maxOccurs:	1

Attributes

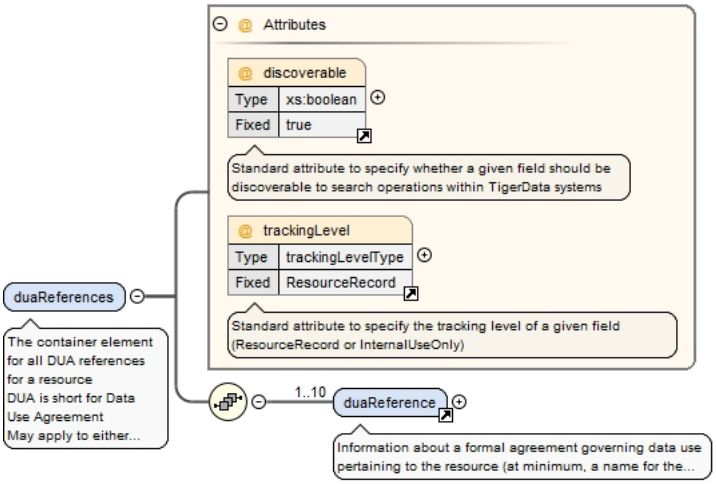
QName	Type	Default	Use	
xml:lang	union of(xs:language, restriction of xs:string)	en	optional	

```
<div>
  <h3>lang (as an attribute name)</h3>
  <p>denotes an attribute whose value is a language code for the natural
 language of the content of any element; its value is inherited. This name
 is reserved by virtue of its definition in the XML specification.</p>
</div>
<div>
  <h4>Notes</h4>
  <p>Attempting to install the relevant ISO 2- and 3-letter codes as the
 enumerated possible values is probably never going to be a realistic
 possibility.</p>
  <p>See BCP 47 at
    <a href="http://www.rfc-editor.org/rfc/bcp/bcp47.txt">http://www.rfc-
editor.org/rfc/bcp/bcp47.txt</a>and the IANA language subtag registry at
    <a href="http://www.iana.org/assignments/language-subtag-
registry">http://www.iana.org/assignments/language-subtag-registry</a>for
 further information.</p>
  <p>The union allows for the 'un-declaration' of xml:lang with the empty
 string.</p>
</div>
```

Source

```
<xs:element name="duaTitle" type="titleType" minOccurs="0" maxOccurs="1">
  <xs:annotation>
    <xs:documentation xml:lang="en">Records the title for the DUA, if applicable</xs:documentation>
  </xs:annotation>
</xs:element>
```

Element duaReferences

Namespace	No namespace
Annotations	The container element for all DUA references for a resource DUA is short for Data Use Agreement May apply to either Projects or Items If this element is present, then it should contain at least one sub-element
Diagram	
Properties	content: complex
Used by	Element Groups additionalProjectInformation, itemFields
Model	duaReference{1,10}
Children	duaReference

Instance	`<duaReferences discoverable="true" trackingLevel="ResourceRecord">`
	`  <duaReference inherited="true">{1,10}</duaReference>`
	`</duaReferences>`

Attributes

QName	Type	Fixed	Use	
discoverable	xs:boolean	true	optional	
	Standard attribute to specify whether a given field should be discoverable to search operations within TigerData systems			
trackingLevel	trackingLevelType	ResourceRecord	optional	
	Standard attribute to specify the tracking level of a given field (ResourceRecord or InternalUseOnly)			

Source

```
<xs:element name="duaReferences">
  <xs:annotation>
    <xs:documentation xml:lang="en">The container element for all DUA references for a resource</
xs:documentation>
    <xs:documentation xml:lang="en">DUA is short for Data Use Agreement</xs:documentation>
    <xs:documentation xml:lang="en">May apply to either Projects or Items</xs:documentation>
    <xs:documentation xml:lang="en">If this element is present, then it should contain at least one
 sub-element</xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:sequence>
      <xs:element ref="duaReference" minOccurs="1" maxOccurs="10"/>
    </xs:sequence>
    <xs:attribute ref="discoverable" fixed="true"/>
    <xs:attribute ref="trackingLevel" fixed="ResourceRecord"/>
  </xs:complexType>
</xs:element>
```

Element `startDate`

Namespace: No namespace

Annotations

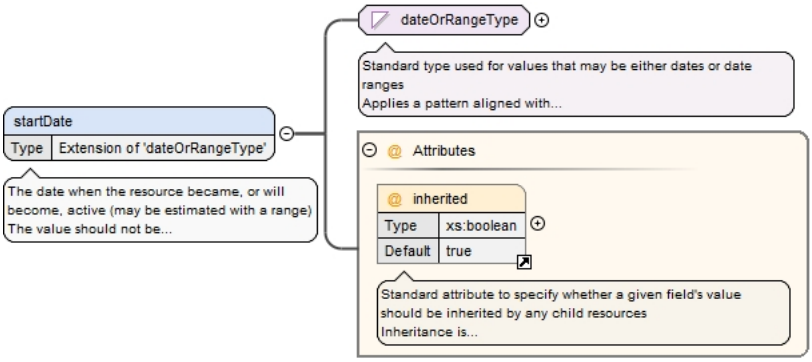
The date when the resource became, or will become, active (may be estimated with a range)

The value should not be chronologically earlier than that of the approvalDateTime subfield under the submission field

Unlike provenance records, this date field is discoverable and tracked in the resource record

May apply to either Projects or Items

Diagram



Type: extension of dateOrRangeType

Type hierarchy

- xs:string
  - dateOrRangeType

Properties

content: `complex`

Used by

Elements: itemDates, projectDates

Attributes

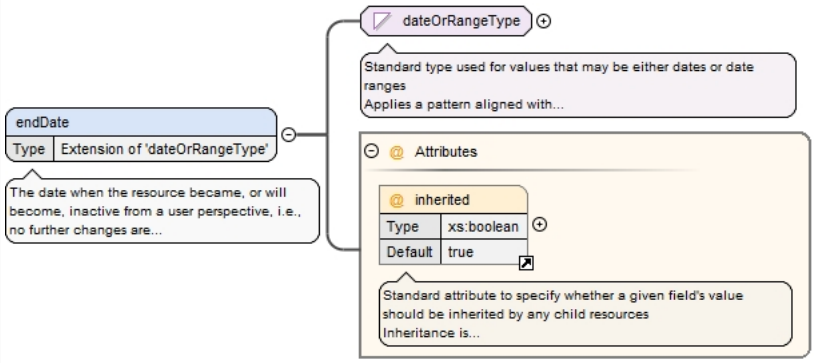
QName	Type	Default	Use	
inherited	xs:boolean	true	optional	
	Standard attribute to specify whether a given field's value should be inherited by any child resources Inheritance is limited to the applicability of the field to the child resource (e.g., researchDomain may be inherited by a subproject but not an item)			

Source

```
<xs:element name="startDate">
  <xs:annotation>
    <xs:documentation xml:lang="en">The date when the resource became, or will become, active (may
 be estimated with a range)</xs:documentation>
```

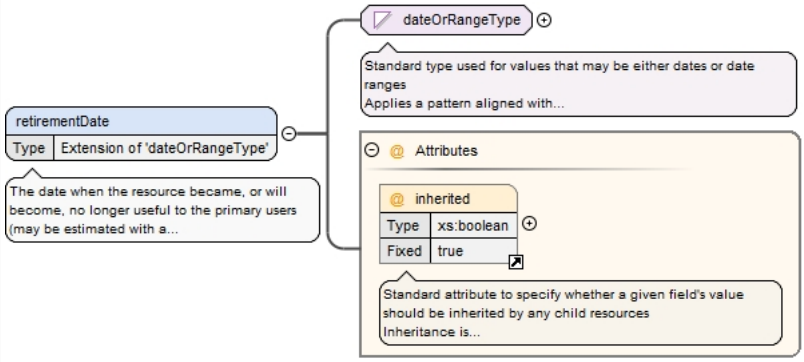
```
    <xs:documentation xml:lang="en">The value should not be chronologically earlier than that of the
 approvalDateTime subfield under the submission field</xs:documentation>
    <xs:documentation xml:lang="en">Unlike provenance records, this date field is discoverable and
 tracked in the resource record</xs:documentation>
    <xs:documentation xml:lang="en">May apply to either Projects or Items</xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:simpleContent>
      <xs:extension base="dateOrRangeType">
        <xs:attribute ref="inherited" default="true"/>
      </xs:extension>
    </xs:simpleContent>
  </xs:complexType>
</xs:element>
```

Element endDate

Namespace	No namespace
Annotations	The date when the resource became, or will become, inactive from a user perspective, i.e., no further changes are expected to be made (may be estimated with a range) The value should not be chronologically earlier than that of startDate, nor later than that of retirementDate Unlike provenance records, this date field is discoverable and tracked in the resource record May apply to either Projects or Items
Diagram	
Type	extension of dateOrRangeType
Type hierarchy	• xs:string • dateOrRangeType
Properties	content: complex
Used by	Elements itemDates, projectDates
Attributes	**QName** / **Type** / **Default** / **Use** **inherited** / xs:boolean / true / optional Standard attribute to specify whether a given field's value should be inherited by any child resources Inheritance is limited to the applicability of the field to the child resource (e.g., researchDomain may be inherited by a subproject but not an item)
Source	<xs:element name="endDate"> <xs:annotation> <xs:documentation xml:lang="en">The date when the resource became, or will become, inactive from a user perspective, i.e., no further changes are expected to be made (may be estimated with a range)</xs:documentation> <xs:documentation xml:lang="en">The value should not be chronologically earlier than that of startDate, nor later than that of retirementDate</xs:documentation> <xs:documentation xml:lang="en">Unlike provenance records, this date field is discoverable and tracked in the resource record</xs:documentation> <xs:documentation xml:lang="en">May apply to either Projects or Items</xs:documentation> </xs:annotation> <xs:complexType> <xs:simpleContent> <xs:extension base="dateOrRangeType"> <xs:attribute ref="inherited" default="true"/> </xs:extension> </xs:simpleContent>

```
  </xs:complexType>
</xs:element>
```

Element retirementDate

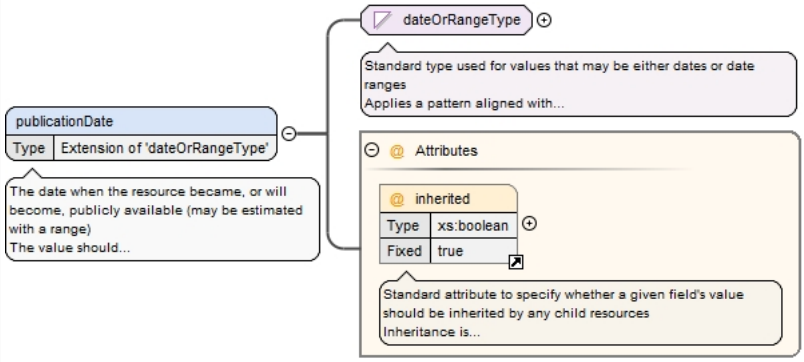
Namespace	No namespace
Annotations	The date when the resource became, or will become, no longer useful to the primary users (may be estimated with a range) The value should not be chronolocially earlier than that of endDate, nor later than that of the approvalDateTime subfield under the retirement provenance field Unlike provenance records, this date field is discoverable and tracked in the resource record May apply to either Projects or Items
Diagram	
Type	extension of dateOrRangeType
Type hierarchy	• xs:string • dateOrRangeType
Properties	content: complex
Used by	Elements: itemDates, projectDates
Attributes	**QName**: **inherited**; **Type**: xs:boolean; **Fixed**: true; **Use**: optional Standard attribute to specify whether a given field's value should be inherited by any child resources Inheritance is limited to the applicability of the field to the child resource (e.g., researchDomain may be inherited by a subproject but not an item)

Source

```
<xs:element name="retirementDate">
  <xs:annotation>
    <xs:documentation xml:lang="en">The date when the resource became, or will become, no longer useful to the primary users (may be estimated with a range)</xs:documentation>
    <xs:documentation xml:lang="en">The value should not be chronolocially earlier than that of endDate, nor later than that of the approvalDateTime subfield under the retirement provenance field</xs:documentation>
    <xs:documentation xml:lang="en">Unlike provenance records, this date field is discoverable and tracked in the resource record</xs:documentation>
    <xs:documentation xml:lang="en">May apply to either Projects or Items</xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:simpleContent>
      <xs:extension base="dateOrRangeType">
        <xs:attribute ref="inherited" fixed="true"/>
      </xs:extension>
    </xs:simpleContent>
  </xs:complexType>
</xs:element>
```

Element publicationDate

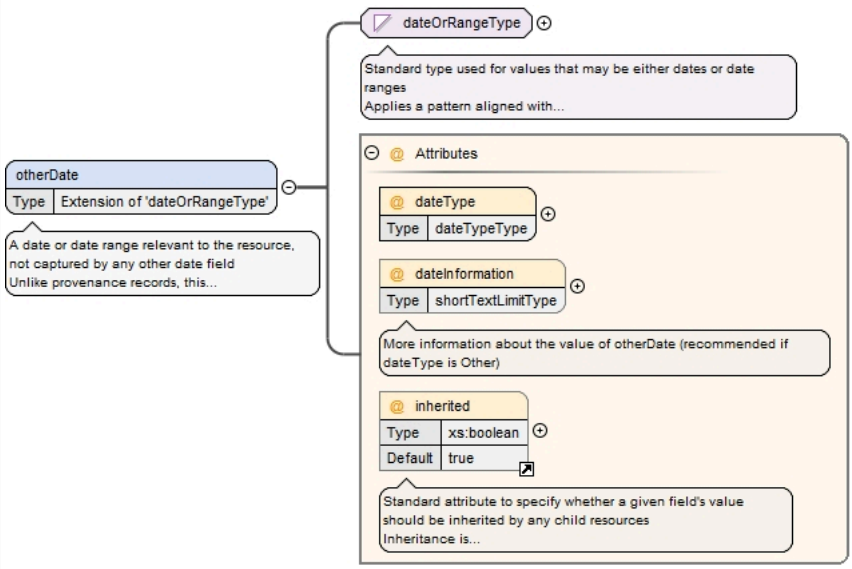
Namespace	No namespace
Annotations	The date when the resource became, or will become, publicly available (may be estimated with a range) The value should not be chronoligically earlier than that of startDate, nor later than that of the approvalDateTime subfield under the publication field

	Unlike provenance records, this date field is discoverable and tracked in the resource record Does not apply to Items
Diagram	
Type	extension of dateOrRangeType
Type hierarchy	• xs:string • dateOrRangeType
Properties	content: complex
Used by	Element projectDates
Attributes	**QName** / **Type** / **Fixed** / **Use** **inherited** / xs:boolean / true / optional Standard attribute to specify whether a given field's value should be inherited by any child resources Inheritance is limited to the applicability of the field to the child resource (e.g., researchDomain may be inherited by a subproject but not an item)

Source	`<xs:element name="publicationDate">`
	`  <xs:annotation>`
	`  <xs:documentation xml:lang="en">The date when the resource became, or will become, publicly available (may be estimated with a range)</xs:documentation>`
	`  <xs:documentation xml:lang="en">The value should not be chronoligically earlier than that of startDate, nor later than that of the approvalDateTime subfield under the publication field</xs:documentation>`
	`  <xs:documentation xml:lang="en">Unlike provenance records, this date field is discoverable and tracked in the resource record</xs:documentation>`
	`  <xs:documentation xml:lang="en">Does not apply to Items</xs:documentation>`
	`  </xs:annotation>`
	`  <xs:complexType>`
	`  <xs:simpleContent>`
	`  <xs:extension base="dateOrRangeType">`
	`  <xs:attribute ref="inherited" fixed="true"/>`
	`  </xs:extension>`
	`  </xs:simpleContent>`
	`  </xs:complexType>`
	`</xs:element>`

Element otherDate

Namespace	No namespace
Annotations	A date or date range relevant to the resource, not captured by any other date field Unlike provenance records, this date field is discoverable and tracked in the resource record May apply to either Projects or Items

Diagram	
Type	extension of dateOrRangeType
Type hierarchy	• xs:string • dateOrRangeType
Properties	content: `complex`
Used by	Elements itemDates, projectDates

Attributes

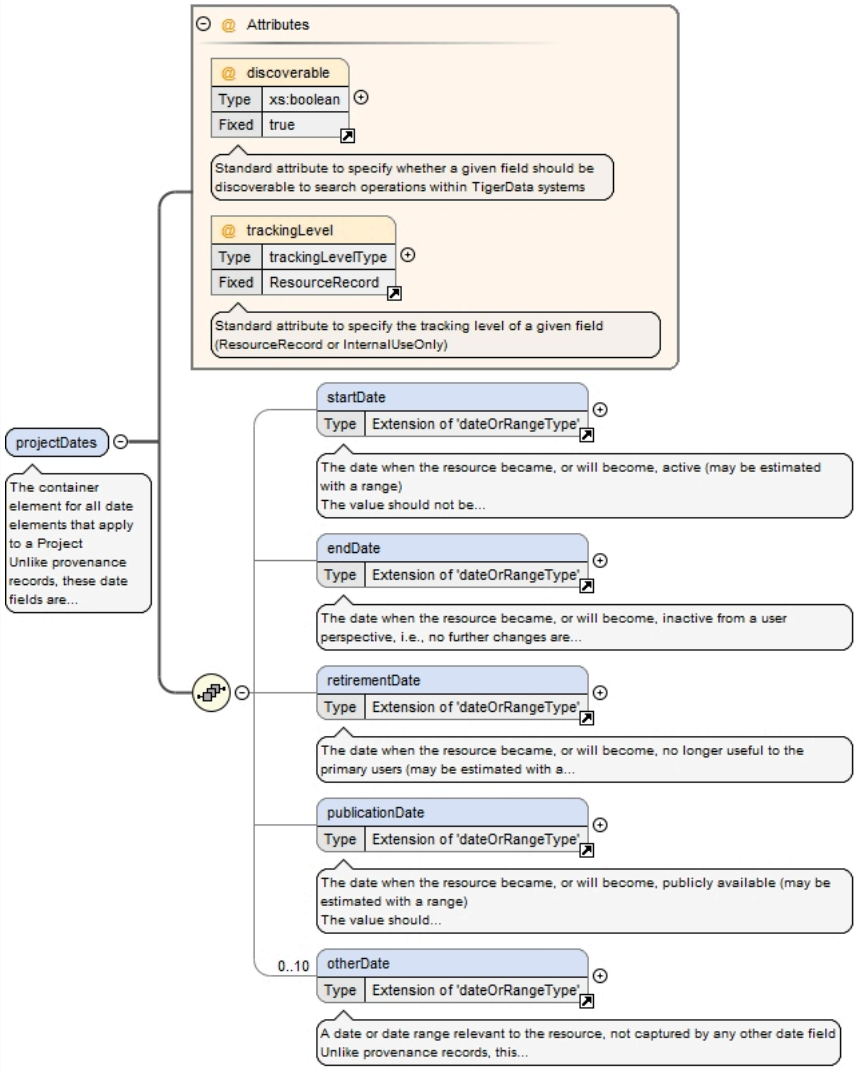
QName	Type	Default	Use	
dateInformation	shortTextLimitType		optional	
	More information about the value of otherDate (recommended if dateType is Other)			
dateType	dateTypeType		required	
inherited	xs:boolean	true	optional	
	Standard attribute to specify whether a given field's value should be inherited by any child resources Inheritance is limited to the applicability of the field to the child resource (e.g., researchDomain may be inherited by a subproject but not an item)			

Source

```
<xs:element name="otherDate">
  <xs:annotation>
    <xs:documentation xml:lang="en">A date or date range relevant to the resource, not captured by
 any other date field</xs:documentation>
    <xs:documentation xml:lang="en">Unlike provenance records, this date field is discoverable and
 tracked in the resource record</xs:documentation>
    <xs:documentation xml:lang="en">May apply to either Projects or Items</xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:simpleContent>
      <xs:extension base="dateOrRangeType">
        <xs:attribute name="dateType" type="dateTypeType" use="required"/>
        <xs:attribute name="dateInformation" type="shortTextLimitType" use="optional">
          <xs:annotation>
            <xs:documentation xml:lang="en">More information about the value of otherDate
 (recommended if dateType is Other)</xs:documentation>
          </xs:annotation>
        </xs:attribute>
        <xs:attribute ref="inherited" default="true"/>
      </xs:extension>
    </xs:simpleContent>
  </xs:complexType>
</xs:element>
```

Element `projectDates`

Namespace	No namespace
Annotations	The container element for all date elements that apply to a Project Unlike provenance records, these date fields are all discoverable and tracked in the resource record

	If this element is present, then it should contain at least one sub-element
Diagram	
Properties	content: complex
Used by	Element Group additionalProjectInformation
Model	startDate{0,1} , endDate{0,1} , retirementDate{0,1} , publicationDate{0,1} , otherDate{0,10}
Children	endDate, otherDate, publicationDate, retirementDate, startDate

Attributes

QName	Type	Fixed	Use	
discoverable	xs:boolean	true	optional	
	Standard attribute to specify whether a given field should be discoverable to search operations within TigerData systems			
trackingLevel	trackingLevelType	ResourceRecord	optional	
	Standard attribute to specify the tracking level of a given field (ResourceRecord or InternalUseOnly)			

Source

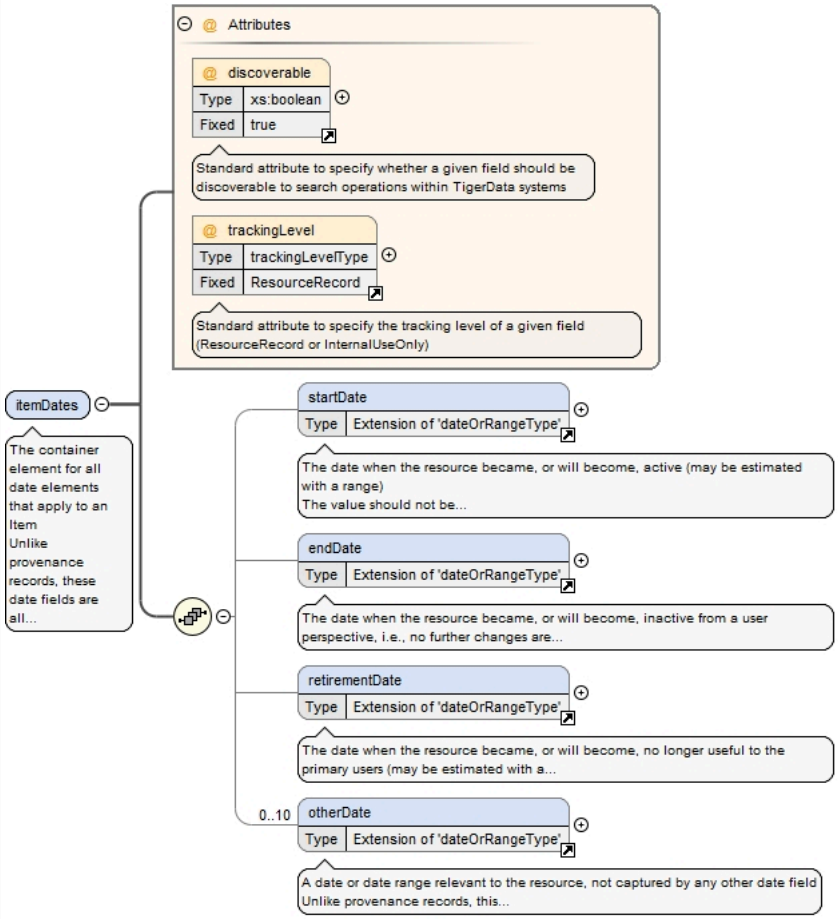
```
<xs:element name="projectDates">
  <xs:annotation>
    <xs:documentation xml:lang="en">The container element for all date elements that apply to a
 Project</xs:documentation>
    <xs:documentation xml:lang="en">Unlike provenance records, these date fields are all
 discoverable and tracked in the resource record</xs:documentation>
```

Instance

```
<projectDates discoverable="true" trackingLevel="ResourceRecord">
  <startDate inherited="true">{0,1}</startDate>
  <endDate inherited="true">{0,1}</endDate>
  <retirementDate inherited="true">{0,1}</retirementDate>
  <publicationDate inherited="true">{0,1}</publicationDate>
  <otherDate dateInformation="" dateType="" inherited="true">{0,10}</otherDate>
</projectDates>
```

```
    <xs:documentation xml:lang="en">If this element is present, then it should contain at least one
 sub-element</xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:sequence>
      <xs:element ref="startDate" minOccurs="0" maxOccurs="1"/>
      <xs:element ref="endDate" minOccurs="0" maxOccurs="1"/>
      <xs:element ref="retirementDate" minOccurs="0" maxOccurs="1"/>
      <xs:element ref="publicationDate" minOccurs="0" maxOccurs="1"/>
      <xs:element ref="otherDate" minOccurs="0" maxOccurs="10"/>
    </xs:sequence>
    <xs:attribute ref="discoverable" fixed="true"/>
    <xs:attribute ref="trackingLevel" fixed="ResourceRecord"/>
  </xs:complexType>
</xs:element>
```

Element `itemDates`

Namespace	No namespace
Annotations	The container element for all date elements that apply to an Item Unlike provenance records, these date fields are all discoverable and tracked in the resource record If this element is present, then it should contain at least one sub-element
Diagram	
Properties	content: complex
Used by	Element Group itemFields
Model	startDate{0,1} , endDate{0,1} , retirementDate{0,1} , otherDate{0,10}
Children	endDate, otherDate, retirementDate, startDate

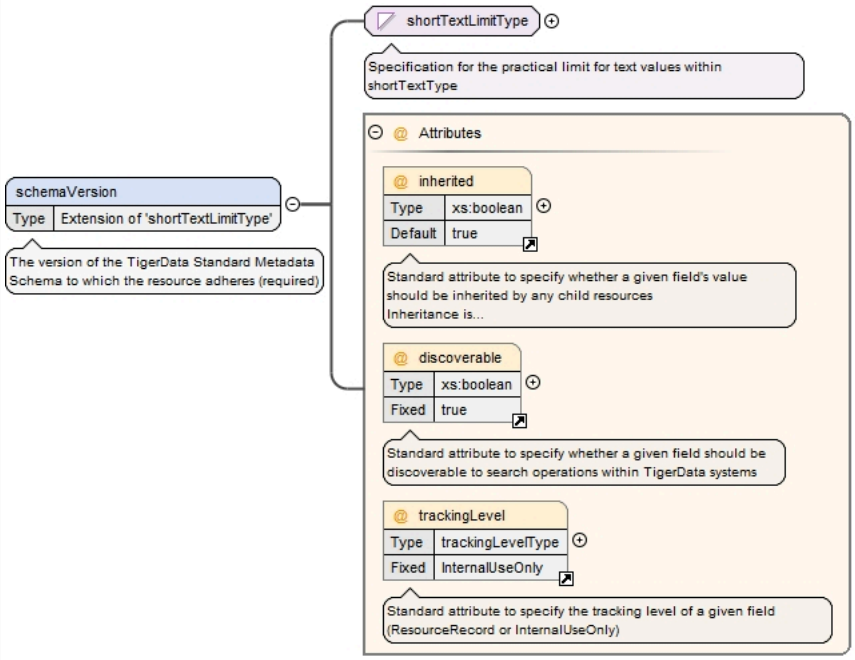
Instance	`<itemDates discoverable="true" trackingLevel="ResourceRecord">`
	`  <startDate inherited="true">{0,1}</startDate>`
	`  <endDate inherited="true">{0,1}</endDate>`
	`  <retirementDate inherited="true">{0,1}</retirementDate>`
	`  <otherDate dateInformation="" dateType="" inherited="true">{0,10}</otherDate>`
	`</itemDates>`

Attributes	**QName**	**Type**	**Fixed**	**Use**	
	discoverable	xs:boolean	true	optional	
		Standard attribute to specify whether a given field should be discoverable to search operations within TigerData systems			
	trackingLevel	trackingLevelType	ResourceRecord	optional	
		Standard attribute to specify the tracking level of a given field (ResourceRecord or InternalUseOnly)			

Source

```
<xs:element name="itemDates">
  <xs:annotation>
    <xs:documentation xml:lang="en">The container element for all date elements that apply to an
 Item</xs:documentation>
    <xs:documentation xml:lang="en">Unlike provenance records, these date fields are all
 discoverable and tracked in the resource record</xs:documentation>
    <xs:documentation xml:lang="en">If this element is present, then it should contain at least one
 sub-element</xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:sequence>
      <xs:element ref="startDate" minOccurs="0" maxOccurs="1"/>
      <xs:element ref="endDate" minOccurs="0" maxOccurs="1"/>
      <xs:element ref="retirementDate" minOccurs="0" maxOccurs="1"/>
      <xs:element ref="otherDate" minOccurs="0" maxOccurs="10"/>
    </xs:sequence>
    <xs:attribute ref="discoverable" fixed="true"/>
    <xs:attribute ref="trackingLevel" fixed="ResourceRecord"/>
  </xs:complexType>
</xs:element>
```

Element schemaVersion

Namespace	No namespace
Annotations	The version of the TigerData Standard Metadata Schema to which the resource adheres (required)
Diagram	
Type	extension of shortTextLimitType
Type hierarchy	• xs:string • shortTextLimitType
Properties	content: complex
Used by	Element resource

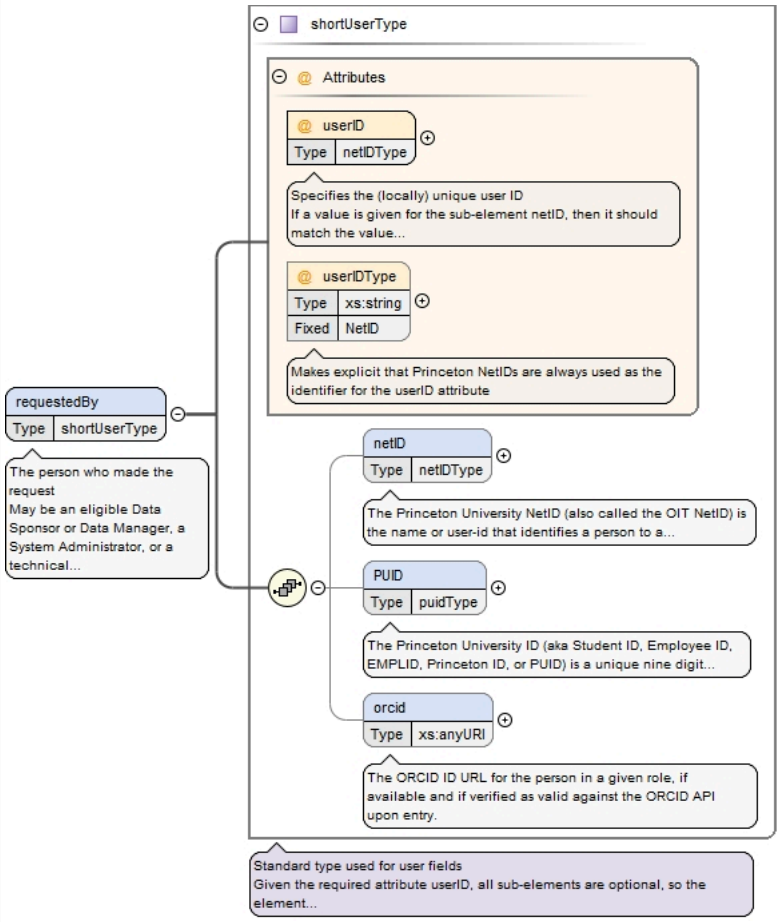
Attributes	**QName**	**Type**	**Fixed**	**Default**	**Use**	
	discoverable	xs:boolean	true		optional	

	QName	Type	Fixed	Default	Use	
		Standard attribute to specify whether a given field should be discoverable to search operations within TigerData systems				
	inherited	xs:boolean		true	optional	
		Standard attribute to specify whether a given field's value should be inherited by any child resources Inheritance is limited to the applicability of the field to the child resource (e.g., researchDomain may be inherited by a subproject but not an item)				
	trackingLevel	trackingLevelType	InternalUseOnly		optional	
		Standard attribute to specify the tracking level of a given field (ResourceRecord or InternalUseOnly)				

Source

```
<xs:element name="schemaVersion">
  <xs:annotation>
    <xs:documentation xml:lang="en">The version of the TigerData Standard Metadata Schema to which
 the resource adheres (required)</xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:simpleContent>
      <xs:extension base="shortTextLimitType">
        <xs:attribute ref="inherited" default="true"/>
        <xs:attribute ref="discoverable" fixed="true"/>
        <xs:attribute ref="trackingLevel" fixed="InternalUseOnly"/>
      </xs:extension>
    </xs:simpleContent>
  </xs:complexType>
</xs:element>
```

Element provenanceSubfields / requestedBy

Namespace	No namespace
Annotations	The person who made the request May be an eligible Data Sponsor or Data Manager, a System Administrator, or a technical service account
Diagram	

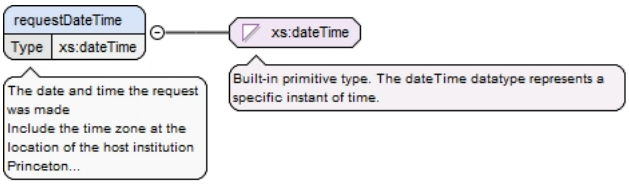
Type	shortUserType
Properties	content: complex minOccurs: 1 maxOccurs: 1
Model	netID{0,1} , PUID{0,1} , orcid{0,1}
Children	PUID, netID, orcid

Instance	`<requestedBy userID="" userIDType="NetID">`
	`  <netID>{0,1}</netID>`
	`  <PUID>{0,1}</PUID>`
	`  <orcid>{0,1}</orcid>`
	`</requestedBy>`

Attributes	**QName** / **Type** / **Fixed** / **Use** **userID** / netIDType / / required Specifies the (locally) unique user ID If a value is given for the sub-element netID, then it should match the value given for userID **userIDType** / xs:string / NetID / optional Makes explicit that Princeton NetIDs are always used as the identifier for the userID attribute

Source	`<xs:element name="requestedBy" type="shortUserType" minOccurs="1" maxOccurs="1">`
	`  <xs:annotation>`
	`  <xs:documentation xml:lang="en">The person who made the request</xs:documentation>`
	`  <xs:documentation xml:lang="en">May be an eligible Data Sponsor or Data Manager, a System Administrator, or a technical service account</xs:documentation>`
	`  </xs:annotation>`
	`</xs:element>`

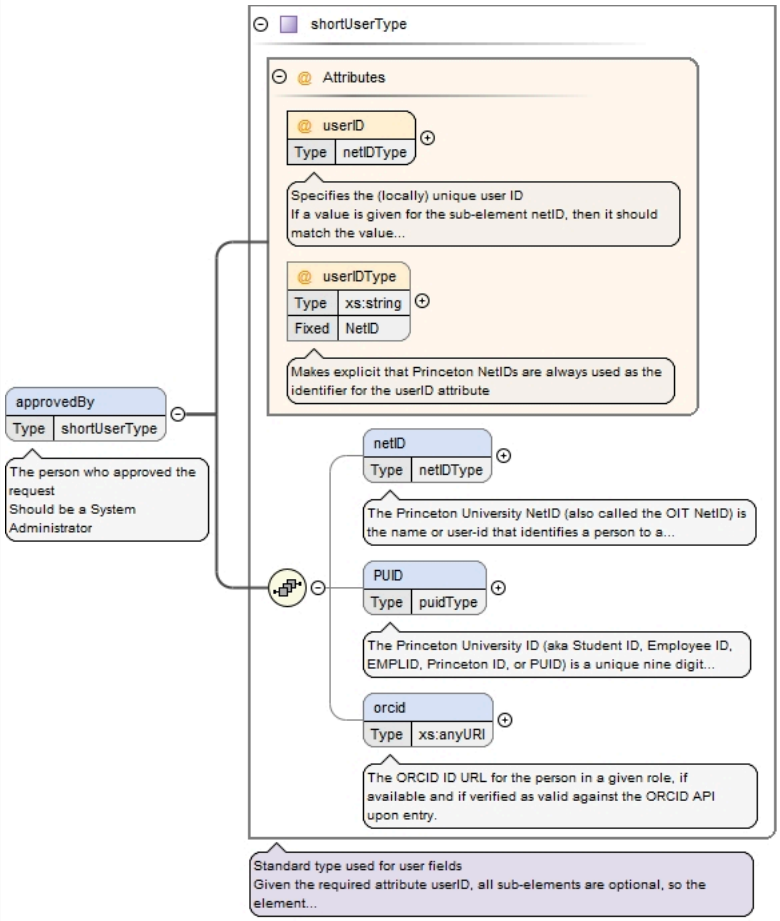
Element provenanceSubfields / requestDateTime

Namespace	No namespace
Annotations	The date and time the request was made Include the time zone at the location of the host institution Princeton University is in the Eastern Time Zone (UTC-05:00 during Eastern Standard Time and UTC-04:00 during Eastern Daylight Time)
Diagram	
Type	xs:dateTime
Properties	content: simple minOccurs: 1 maxOccurs: 1

Source	`<xs:element name="requestDateTime" type="xs:dateTime" minOccurs="1" maxOccurs="1">`
	`  <xs:annotation>`
	`  <xs:documentation xml:lang="en">The date and time the request was made</xs:documentation>`
	`  <xs:documentation xml:lang="en">Include the time zone at the location of the host institution</xs:documentation>`
	`  <xs:documentation xml:lang="en">Princeton University is in the Eastern Time Zone (UTC-05:00 during Eastern Standard Time and UTC-04:00 during Eastern Daylight Time)</xs:documentation>`
	`  </xs:annotation>`
	`</xs:element>`

Element provenanceSubfields / approvedBy

Namespace	No namespace
Annotations	The person who approved the request Should be a System Administrator

Diagram	
Type	shortUserType
Properties	content: complex minOccurs: 0 maxOccurs: 1
Model	netID{0,1} , PUID{0,1} , orcid{0,1}
Children	PUID, netID, orcid

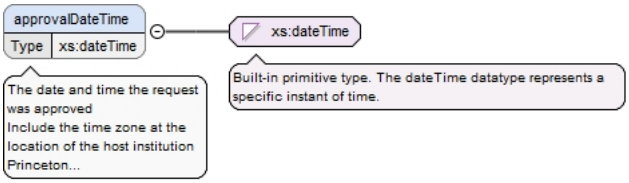
Instance	`<approvedBy userID="" userIDType="NetID">`
	`  <netID>{0,1}</netID>`
	`  <PUID>{0,1}</PUID>`
	`  <orcid>{0,1}</orcid>`
	`</approvedBy>`

Attributes	**QName** / **Type** / **Fixed** / **Use** **userID** / netIDType / / required Specifies the (locally) unique user ID If a value is given for the sub-element netID, then it should match the value given for userID **userIDType** / xs:string / NetID / optional Makes explicit that Princeton NetIDs are always used as the identifier for the userID attribute

Source	`<xs:element name="approvedBy" type="shortUserType" minOccurs="0" maxOccurs="1">`
	`  <xs:annotation>`
	`  <xs:documentation xml:lang="en">The person who approved the request</xs:documentation>`
	`  <xs:documentation xml:lang="en">Should be a System Administrator</xs:documentation>`
	`  </xs:annotation>`
	`</xs:element>`

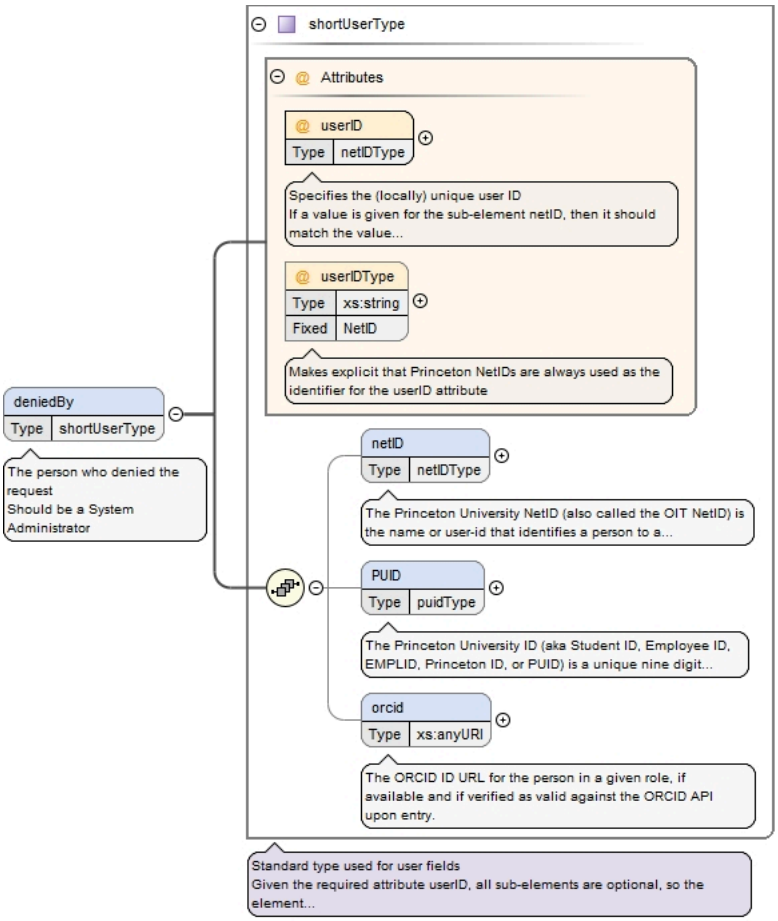
Element provenanceSubfields / approvalDateTime

Namespace	No namespace
Annotations	The date and time the request was approved

	Include the time zone at the location of the host institution Princeton University is in the Eastern Time Zone (UTC-05:00 during Eastern Standard Time and UTC-04:00 during Eastern Daylight Time)
Diagram	
Type	xs:dateTime
Properties	content: simple minOccurs: 0 maxOccurs: 1

Source	`<xs:element name="approvalDateTime" type="xs:dateTime" minOccurs="0" maxOccurs="1">`
	`  <xs:annotation>`
	`  <xs:documentation xml:lang="en">The date and time the request was approved</xs:documentation>`
	`  <xs:documentation xml:lang="en">Include the time zone at the location of the host institution</xs:documentation>`
	`  <xs:documentation xml:lang="en">Princeton University is in the Eastern Time Zone (UTC-05:00 during Eastern Standard Time and UTC-04:00 during Eastern Daylight Time)</xs:documentation>`
	`  </xs:annotation>`
	`</xs:element>`

Element provenanceSubfields / deniedBy

Namespace	No namespace
Annotations	The person who denied the request Should be a System Administrator
Diagram	
Type	shortUserType

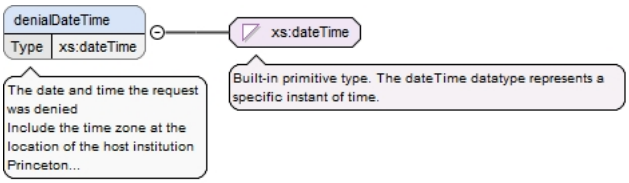
Properties	content: `complex` minOccurs: `0` maxOccurs: `1`
Model	netID{0,1} , PUID{0,1} , orcid{0,1}
Children	PUID, netID, orcid

Instance	`<deniedBy userID="" userIDType="NetID">`
	`  <netID>{0,1}</netID>`
	`  <PUID>{0,1}</PUID>`
	`  <orcid>{0,1}</orcid>`
	`</deniedBy>`

Attributes	**QName** / **Type** / **Fixed** / **Use** **userID** / netIDType / / required Specifies the (locally) unique user ID If a value is given for the sub-element netID, then it should match the value given for userID **userIDType** / xs:string / NetID / optional Makes explicit that Princeton NetIDs are always used as the identifier for the userID attribute

Source	`<xs:element name="deniedBy" type="shortUserType" minOccurs="0" maxOccurs="1">`
	`  <xs:annotation>`
	`  <xs:documentation xml:lang="en">The person who denied the request</xs:documentation>`
	`  <xs:documentation xml:lang="en">Should be a System Administrator</xs:documentation>`
	`  </xs:annotation>`
	`</xs:element>`

Element provenanceSubfields / denialDateTime

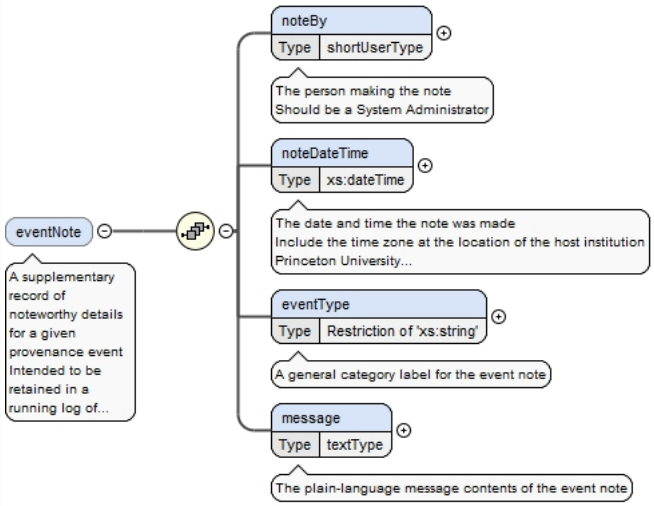
Namespace	No namespace
Annotations	The date and time the request was denied Include the time zone at the location of the host institution Princeton University is in the Eastern Time Zone (UTC-05:00 during Eastern Standard Time and UTC-04:00 during Eastern Daylight Time)
Diagram	
Type	xs:dateTime
Properties	content: `simple` minOccurs: `0` maxOccurs: `1`

Source	`<xs:element name="denialDateTime" type="xs:dateTime" minOccurs="0" maxOccurs="1">`
	`  <xs:annotation>`
	`  <xs:documentation xml:lang="en">The date and time the request was denied</xs:documentation>`
	`  <xs:documentation xml:lang="en">Include the time zone at the location of the host institution</xs:documentation>`
	`  <xs:documentation xml:lang="en">Princeton University is in the Eastern Time Zone (UTC-05:00 during Eastern Standard Time and UTC-04:00 during Eastern Daylight Time)</xs:documentation>`
	`  </xs:annotation>`
	`</xs:element>`

Element provenanceSubfields / eventNote

Namespace	No namespace
Annotations	A supplementary record of noteworthy details for a given provenance event Intended to be retained in a running log of all noteworthy events

Diagram



Properties

content:	complex
minOccurs:	0
maxOccurs:	5

Model

noteBy , noteDateTime , eventType , message

Children

eventType, message, noteBy, noteDateTime

Instance

```
<eventNote>
  <noteBy userID="" userIDType="NetID">{1,1}</noteBy>
  <noteDateTime>{1,1}</noteDateTime>
  <eventType>{1,1}</eventType>
  <message xml:lang="en">{1,1}</message>
</eventNote>
```

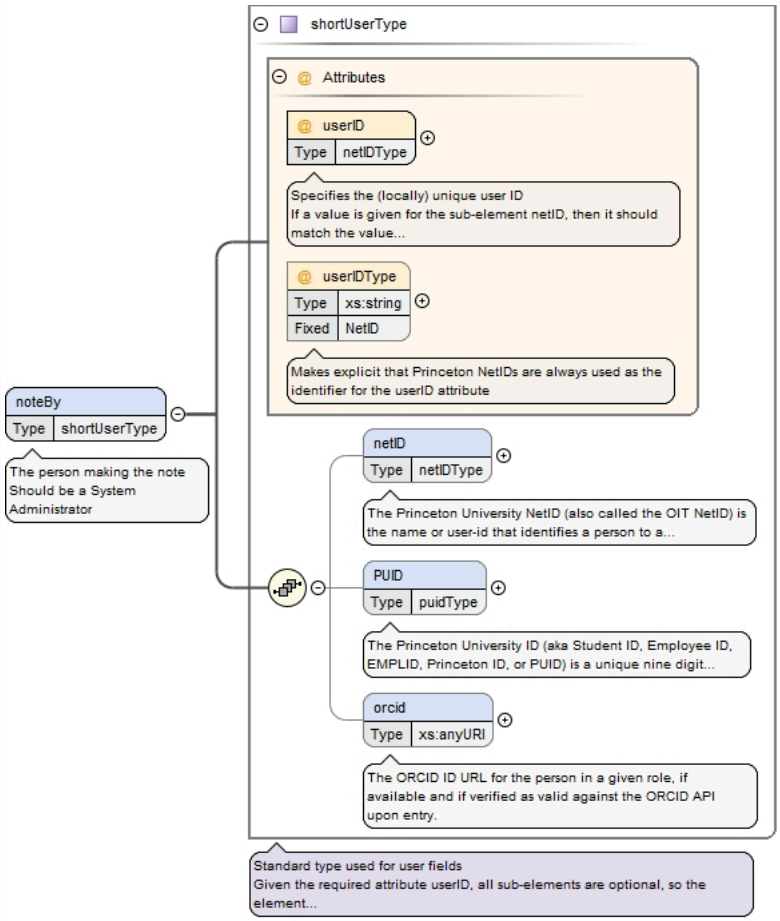
Source

```
<xs:element name="eventNote" minOccurs="0" maxOccurs="5">
  <xs:annotation>
    <xs:documentation xml:lang="en">A supplementary record of noteworthy details for a given
 provenance event</xs:documentation>
    <xs:documentation xml:lang="en">Intended to be retained in a running log of all noteworthy
 events</xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:sequence>
      <xs:element name="noteBy" type="shortUserType" minOccurs="1" maxOccurs="1">
        <xs:annotation>
          <xs:documentation xml:lang="en">The person making the note</xs:documentation>
          <xs:documentation xml:lang="en">Should be a System Administrator</xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="noteDateTime" type="xs:dateTime" minOccurs="1" maxOccurs="1">
        <xs:annotation>
          <xs:documentation xml:lang="en">The date and time the note was made</xs:documentation>
          <xs:documentation xml:lang="en">Include the time zone at the location of the host
 institution</xs:documentation>
          <xs:documentation xml:lang="en">Princeton University is in the Eastern Time Zone
 (UTC-05:00 during Eastern Standard Time and UTC-04:00 during Eastern Daylight Time)</
xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="eventType" minOccurs="1" maxOccurs="1">
        <xs:annotation>
          <xs:documentation xml:lang="en">A general category label for the event note</
xs:documentation>
        </xs:annotation>
        <xs:simpleType>
          <xs:restriction base="xs:string">
            <xs:enumeration value="Collection" xml:lang="en">
              <xs:annotation>
                <xs:documentation xml:lang="en">Event note records the assignment of or change to
 the project's Mediaflux collection ID</xs:documentation>
              </xs:annotation>
            </xs:enumeration>
            <xs:enumeration value="Directory" xml:lang="en">
              <xs:annotation>
                <xs:documentation xml:lang="en">Event note pertains to the project's directory or
 mount point</xs:documentation>
              </xs:annotation>
            </xs:enumeration>
```

```
            <xs:enumeration value="Quota" xml:lang="en">
              <xs:annotation>
                <xs:documentation xml:lang="en">Event note pertains to the project's quota settings
 in Mediaflux</xs:documentation>
              </xs:annotation>
            </xs:enumeration>
            <xs:enumeration value="Tier" xml:lang="en">
              <xs:annotation>
                <xs:documentation xml:lang="en">Event note pertains to the project's storage tier</
xs:documentation>
              </xs:annotation>
            </xs:enumeration>
            <xs:enumeration value="Sponsor" xml:lang="en">
              <xs:annotation>
                <xs:documentation xml:lang="en">Event note records any changes to the project's Data
 Sponsor</xs:documentation>
              </xs:annotation>
            </xs:enumeration>
            <xs:enumeration value="Revision" xml:lang="en">
              <xs:annotation>
                <xs:documentation xml:lang="en">Event note explains the return of the project
 request to the submitter for revision</xs:documentation>
              </xs:annotation>
            </xs:enumeration>
            <xs:enumeration value="Denial" xml:lang="en">
              <xs:annotation>
                <xs:documentation xml:lang="en">Event note explains the denial of the project
 request</xs:documentation>
              </xs:annotation>
            </xs:enumeration>
            <xs:enumeration value="Other" xml:lang="en">
              <xs:annotation>
                <xs:documentation xml:lang="en">The event note is not otherwise classified</
xs:documentation>
              </xs:annotation>
            </xs:enumeration>
          </xs:restriction>
        </xs:simpleType>
      </xs:element>
      <xs:element name="message" type="textType" minOccurs="1" maxOccurs="1">
        <xs:annotation>
          <xs:documentation xml:lang="en">The plain-language message contents of the event note</
xs:documentation>
        </xs:annotation>
      </xs:element>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

Element provenanceSubfields / eventNote / noteBy

Namespace	No namespace
Annotations	The person making the note Should be a System Administrator

Diagram	
Type	shortUserType
Properties	content: complex minOccurs: 1 maxOccurs: 1
Model	netID{0,1} , PUID{0,1} , orcid{0,1}
Children	PUID, netID, orcid

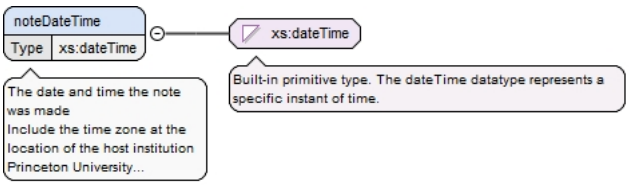
Instance	`<noteBy userID="" userIDType="NetID">`
	`  <netID>{0,1}</netID>`
	`  <PUID>{0,1}</PUID>`
	`  <orcid>{0,1}</orcid>`
	`</noteBy>`

Attributes	**QName** / **Type** / **Fixed** / **Use** **userID** / netIDType / / required Specifies the (locally) unique user ID If a value is given for the sub-element netID, then it should match the value given for userID **userIDType** / xs:string / NetID / optional Makes explicit that Princeton NetIDs are always used as the identifier for the userID attribute

Source	`<xs:element name="noteBy" type="shortUserType" minOccurs="1" maxOccurs="1">`
	`  <xs:annotation>`
	`  <xs:documentation xml:lang="en">The person making the note</xs:documentation>`
	`  <xs:documentation xml:lang="en">Should be a System Administrator</xs:documentation>`
	`  </xs:annotation>`
	`</xs:element>`

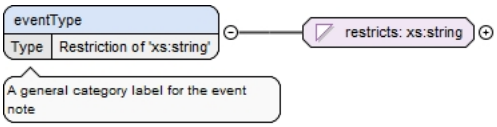
Element provenanceSubfields / eventNote / noteDateTime

Namespace	No namespace
Annotations	The date and time the note was made

	Include the time zone at the location of the host institution Princeton University is in the Eastern Time Zone (UTC-05:00 during Eastern Standard Time and UTC-04:00 during Eastern Daylight Time)
Diagram	
Type	xs:dateTime
Properties	content: simple minOccurs: 1 maxOccurs: 1

Source	`<xs:element name="noteDateTime" type="xs:dateTime" minOccurs="1" maxOccurs="1">`
	`  <xs:annotation>`
	`  <xs:documentation xml:lang="en">The date and time the note was made</xs:documentation>`
	`  <xs:documentation xml:lang="en">Include the time zone at the location of the host institution</xs:documentation>`
	`  <xs:documentation xml:lang="en">Princeton University is in the Eastern Time Zone (UTC-05:00 during Eastern Standard Time and UTC-04:00 during Eastern Daylight Time)</xs:documentation>`
	`  </xs:annotation>`
	`</xs:element>`

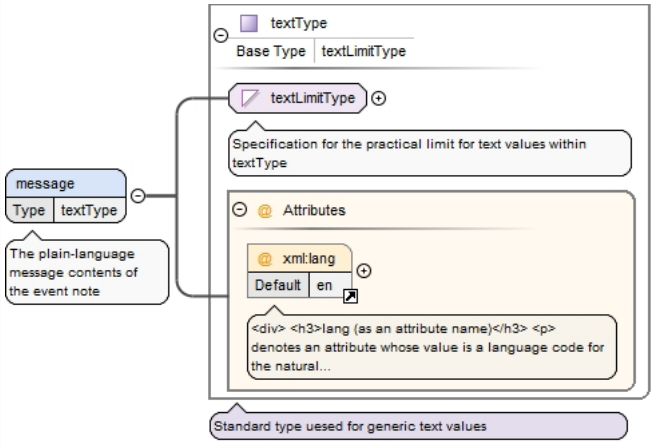
Element provenanceSubfields / eventNote / eventType

Namespace	No namespace
Annotations	A general category label for the event note
Diagram	
Type	restriction of xs:string
Properties	content: simple minOccurs: 1 maxOccurs: 1
Facets	enumeration: Collection — Event note records the assignment of or change to the project's Mediaflux collection ID enumeration: Directory — Event note pertains to the project's directory or mount point enumeration: Quota — Event note pertains to the project's quota settings in Mediaflux enumeration: Tier — Event note pertains to the project's storage tier enumeration: Sponsor — Event note records any changes to the project's Data Sponsor enumeration: Revision — Event note explains the return of the project request to the submitter for revision enumeration: Denial — Event note explains the denial of the project request enumeration: Other — The event note is not otherwise classified

Source	`<xs:element name="eventType" minOccurs="1" maxOccurs="1">`
	`  <xs:annotation>`
	`  <xs:documentation xml:lang="en">A general category label for the event note</xs:documentation>`
	`  </xs:annotation>`
	`  <xs:simpleType>`
	`  <xs:restriction base="xs:string">`
	`  <xs:enumeration value="Collection" xml:lang="en">`
	`  <xs:annotation>`
	`  <xs:documentation xml:lang="en">Event note records the assignment of or change to the project's Mediaflux collection ID</xs:documentation>`
	`  </xs:annotation>`
	`  </xs:enumeration>`
	`  <xs:enumeration value="Directory" xml:lang="en">`

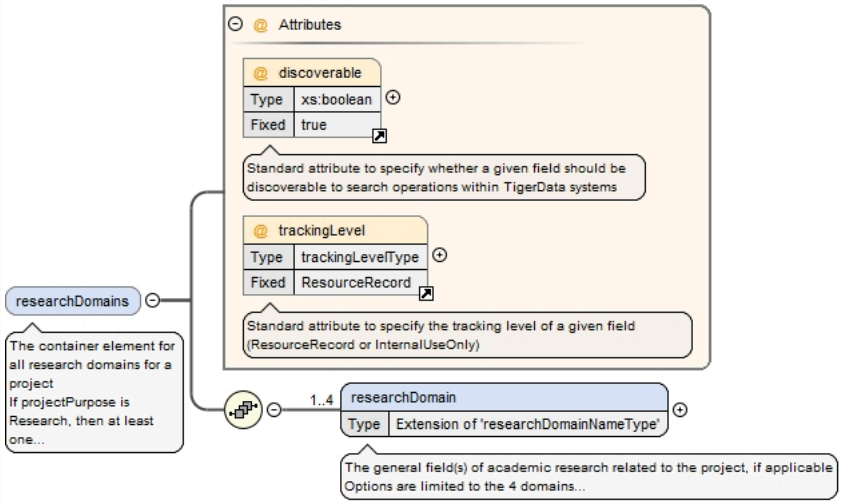
```
        <xs:annotation>
          <xs:documentation xml:lang="en">Event note pertains to the project's directory or mount
 point</xs:documentation>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="Quota" xml:lang="en">
        <xs:annotation>
          <xs:documentation xml:lang="en">Event note pertains to the project's quota settings in
 Mediaflux</xs:documentation>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="Tier" xml:lang="en">
        <xs:annotation>
          <xs:documentation xml:lang="en">Event note pertains to the project's storage tier</
xs:documentation>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="Sponsor" xml:lang="en">
        <xs:annotation>
          <xs:documentation xml:lang="en">Event note records any changes to the project's Data
 Sponsor</xs:documentation>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="Revision" xml:lang="en">
        <xs:annotation>
          <xs:documentation xml:lang="en">Event note explains the return of the project request to
 the submitter for revision</xs:documentation>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="Denial" xml:lang="en">
        <xs:annotation>
          <xs:documentation xml:lang="en">Event note explains the denial of the project request</
xs:documentation>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="Other" xml:lang="en">
        <xs:annotation>
          <xs:documentation xml:lang="en">The event note is not otherwise classified</
xs:documentation>
        </xs:annotation>
      </xs:enumeration>
    </xs:restriction>
  </xs:simpleType>
</xs:element>
```

Element provenanceSubfields / eventNote / message

Namespace	No namespace
Annotations	The plain-language message contents of the event note
Diagram	
Type	textType
Type hierarchy	• xs:string • textLimitType • textType
Properties	content: complex minOccurs: 1

	maxOccurs:	1			
Attributes	**QName**	**Type**	**Default**	**Use**	
	xml:lang	union of(xs:language, restriction of xs:string)	en	optional	
		 <h3>lang (as an attribute name)</h3> denotes an attribute whose value is a language code for the natural language of the content of any element; its value is inherited. This name is reserved by virtue of its definition in the XML specification. <h4>Notes</h4> Attempting to install the relevant ISO 2- and 3-letter codes as the enumerated possible values is probably never going to be a realistic possibility. See BCP 47 at <a href="http://www.rfc-editor.org/rfc/bcp/bcp47.txt">http://www.rfc-editor.org/rfc/bcp/bcp47.txt</a>and the IANA language subtag registry at <a href="http://www.iana.org/assignments/language-subtag-registry">http://www.iana.org/assignments/language-subtag-registry</a>for further information. The union allows for the 'un-declaration' of xml:lang with the empty string. 			
Source	<xs:element name="message" type="textType" minOccurs="1" maxOccurs="1"> <xs:annotation> <xs:documentation xml:lang="en">The plain-language message contents of the event note</xs:documentation> </xs:annotation> </xs:element>				

Element projectDescription / researchDomains

Namespace	No namespace
Annotations	The container element for all research domains for a project If projectPurpose is Research, then at least one researchDomain element should be given If this element is present, then it should contain at least one sub-element No duplicate domains; no more than 4 total
Diagram	
Properties	content: complex minOccurs: 0 maxOccurs: 1
Model	researchDomain{1,4}
Children	researchDomain
Instance	<researchDomains discoverable="true" trackingLevel="ResourceRecord"> <researchDomain inherited="true">{1,4}</researchDomain> </researchDomains>

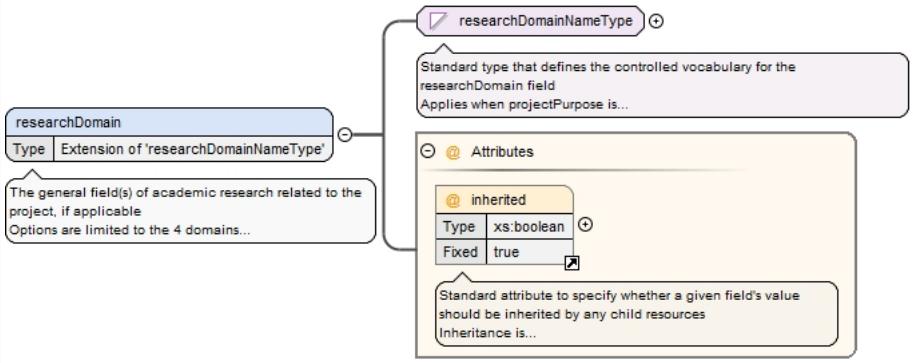
Attributes

QName	Type	Fixed	Use	
discoverable	xs:boolean	true	optional	
	Standard attribute to specify whether a given field should be discoverable to search operations within TigerData systems			
trackingLevel	trackingLevelType	ResourceRecord	optional	
	Standard attribute to specify the tracking level of a given field (ResourceRecord or InternalUseOnly)			

Source

```
<xs:element name="researchDomains" minOccurs="0" maxOccurs="1">
  <xs:annotation>
    <xs:documentation xml:lang="en">The container element for all research domains for a project</
xs:documentation>
    <xs:documentation xml:lang="en">If projectPurpose is Research, then at least one researchDomain
 element should be given</xs:documentation>
    <xs:documentation xml:lang="en">If this element is present, then it should contain at least one
 sub-element</xs:documentation>
    <xs:documentation xml:lang="en">No duplicate domains; no more than 4 total</xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:sequence>
      <xs:element name="researchDomain" minOccurs="1" maxOccurs="4">
        <xs:annotation>
          <xs:documentation xml:lang="en">The general field(s) of academic research related to the
 project, if applicable</xs:documentation>
          <xs:documentation xml:lang="en">Options are limited to the 4 domains Princeton University
 uses to categorize departments</xs:documentation>
        </xs:annotation>
        <xs:complexType>
          <xs:simpleContent>
            <xs:extension base="researchDomainNameType">
              <xs:attribute ref="inherited" fixed="true"/>
            </xs:extension>
          </xs:simpleContent>
        </xs:complexType>
      </xs:element>
    </xs:sequence>
    <xs:attribute ref="discoverable" fixed="true"/>
    <xs:attribute ref="trackingLevel" fixed="ResourceRecord"/>
  </xs:complexType>
</xs:element>
```

Element projectDescription / researchDomains / researchDomain

Namespace	No namespace
Annotations	The general field(s) of academic research related to the project, if applicable Options are limited to the 4 domains Princeton University uses to categorize departments
Diagram	
Type	extension of researchDomainNameType
Type hierarchy	• xs:string • researchDomainNameType
Properties	content: complex minOccurs: 1 maxOccurs: 4

Attributes

QName	Type	Fixed	Use	
inherited	xs:boolean	true	optional	

	QName	Type	Fixed	Use	
		Standard attribute to specify whether a given field's value should be inherited by any child resources Inheritance is limited to the applicability of the field to the child resource (e.g., researchDomain may be inherited by a subproject but not an item)			

Source

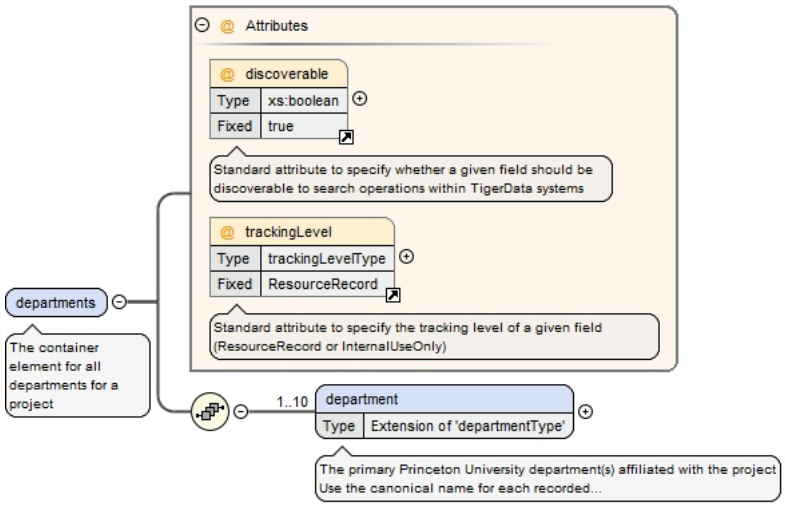
```
<xs:element name="researchDomain" minOccurs="1" maxOccurs="4">
  <xs:annotation>
    <xs:documentation xml:lang="en">The general field(s) of academic research related to the
 project, if applicable</xs:documentation>
    <xs:documentation xml:lang="en">Options are limited to the 4 domains Princeton University uses
 to categorize departments</xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:simpleContent>
      <xs:extension base="researchDomainNameType">
        <xs:attribute ref="inherited" fixed="true"/>
      </xs:extension>
    </xs:simpleContent>
  </xs:complexType>
</xs:element>
```

Element projectDescription / departments

Namespace: No namespace

Annotations: The container element for all departments for a project

Diagram



Properties

content:	complex
minOccurs:	1
maxOccurs:	1

Model: department{1,10}

Children: department

Instance

```
<departments discoverable="true" trackingLevel="ResourceRecord">
  <department departmentCode="" inherited="true">{1,10}</department>
</departments>
```

Attributes

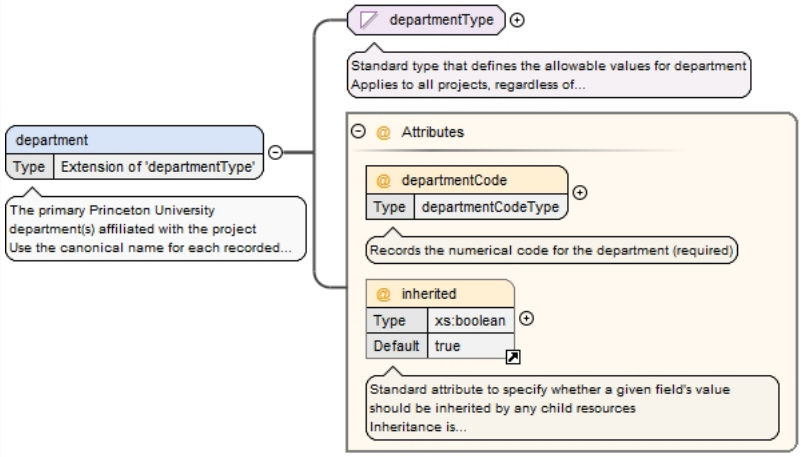
QName	Type	Fixed	Use	
discoverable	xs:boolean	true	optional	
	Standard attribute to specify whether a given field should be discoverable to search operations within TigerData systems			
trackingLevel	trackingLevelType	ResourceRecord	optional	
	Standard attribute to specify the tracking level of a given field (ResourceRecord or InternalUseOnly)			

Source

```
<xs:element name="departments" minOccurs="1" maxOccurs="1">
  <xs:annotation>
    <xs:documentation xml:lang="en">The container element for all departments for a project</
xs:documentation>
  </xs:annotation>
```

```
  <xs:complexType>
    <xs:sequence>
      <xs:element name="department" minOccurs="1" maxOccurs="10">
        <xs:annotation>
          <xs:documentation xml:lang="en">The primary Princeton University department(s) affiliated
 with the project</xs:documentation>
          <xs:documentation xml:lang="en">Use the canonical name for each recorded department</
xs:documentation>
          <xs:documentation xml:lang="en">Princeton department names typically start with a 2- or 3-
character abbreviation, followed by a minus-dash, and then a short description</xs:documentation>
        </xs:annotation>
        <xs:complexType>
          <xs:simpleContent>
            <xs:extension base="departmentType">
              <xs:attribute name="departmentCode" type="departmentCodeType" use="required">
                <xs:annotation>
                  <xs:documentation xml:lang="en">Records the numerical code for the department
 (required)</xs:documentation>
                </xs:annotation>
              </xs:attribute>
              <xs:attribute ref="inherited" default="true"/>
            </xs:extension>
          </xs:simpleContent>
        </xs:complexType>
      </xs:element>
    </xs:sequence>
    <xs:attribute ref="discoverable" fixed="true"/>
    <xs:attribute ref="trackingLevel" fixed="ResourceRecord"/>
  </xs:complexType>
</xs:element>
```

Element projectDescription / departments / department

Namespace	No namespace
Annotations	The primary Princeton University department(s) affiliated with the project Use the canonical name for each recorded department Princeton department names typically start with a 2- or 3-character abbreviation, followed by a minus-dash, and then a short description
Diagram	
Type	extension of departmentType
Type hierarchy	• xs:string • departmentType
Properties	content: complex minOccurs: 1 maxOccurs: 10
Attributes	**QName** / **Type** / **Default** / **Use** **departmentCode** / departmentCodeType / / required Records the numerical code for the department (required) **inherited** / xs:boolean / true / optional Standard attribute to specify whether a given field's value should be inherited by any child resources

	QName	Type	Default	Use	
		Inheritance is limited to the applicability of the field to the child resource (e.g., researchDomain may be inherited by a subproject but not an item)			

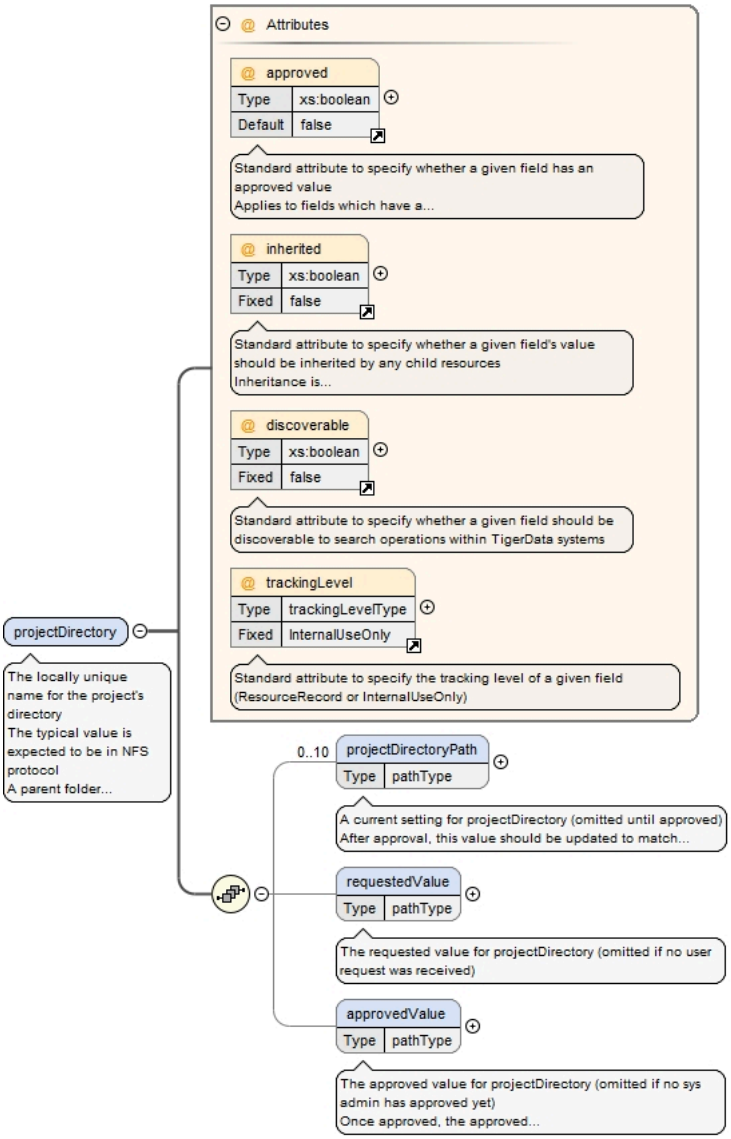
Source

```
<xs:element name="department" minOccurs="1" maxOccurs="10">
  <xs:annotation>
    <xs:documentation xml:lang="en">The primary Princeton University department(s) affiliated with
 the project</xs:documentation>
    <xs:documentation xml:lang="en">Use the canonical name for each recorded department</
xs:documentation>
    <xs:documentation xml:lang="en">Princeton department names typically start with a 2- or 3-
character abbreviation, followed by a minus-dash, and then a short description</xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:simpleContent>
      <xs:extension base="departmentType">
        <xs:attribute name="departmentCode" type="departmentCodeType" use="required">
          <xs:annotation>
            <xs:documentation xml:lang="en">Records the numerical code for the department
 (required)</xs:documentation>
          </xs:annotation>
        </xs:attribute>
        <xs:attribute ref="inherited" default="true"/>
      </xs:extension>
    </xs:simpleContent>
  </xs:complexType>
</xs:element>
```

Element projectDescription / projectDirectory

Namespace	No namespace
Annotations	The locally unique name for the project’s directory The typical value is expected to be in NFS protocol A parent folder is recommended to organize projects by groups (e.g., lab or principal investigator) If no user request was received and no value has yet been approved, then this field may be empty

Diagram



Properties

content:	complex
minOccurs:	1
maxOccurs:	1

Model

projectDirectoryPath{0,10} , requestedValue{0,1} , approvedValue{0,1}

Children

approvedValue, projectDirectoryPath, requestedValue

Instance

```
<projectDirectory approved="false" discoverable="false" inherited="false" trackingLevel="InternalUseOnly">
  <projectDirectoryPath protocol="NFS">{0,10}</projectDirectoryPath>
  <requestedValue protocol="NFS">{0,1}</requestedValue>
  <approvedValue protocol="NFS">{0,1}</approvedValue>
</projectDirectory>
```

Attributes

QName	Type	Fixed	Default	Use	
approved	xs:boolean		false	optional	
	Standard attribute to specify whether a given field has an approved value Applies to fields which have a request-approval framework, including projectDirectory, storageCapacity, and storagePerformance				
discoverable	xs:boolean	false		optional	
	Standard attribute to specify whether a given field should be discoverable to search operations within TigerData systems				
inherited	xs:boolean	false		optional	
	Standard attribute to specify whether a given field's value should be inherited by any child resources				

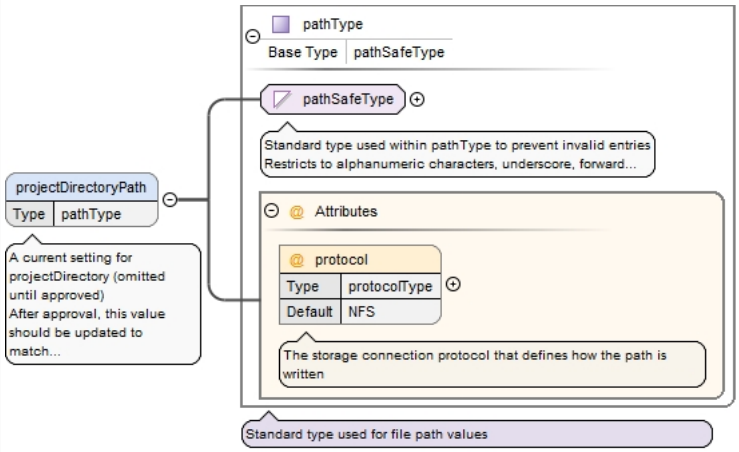
QName	Type	Fixed	Default	Use	
	Inheritance is limited to the applicability of the field to the child resource (e.g., researchDomain may be inherited by a subproject but not an item)				
trackingLevel	trackingLevelType	InternalUseOnly		optional	
	Standard attribute to specify the tracking level of a given field (ResourceRecord or InternalUseOnly)				

Source

```
<xs:element name="projectDirectory" minOccurs="1" maxOccurs="1">
  <xs:annotation>
    <xs:documentation xml:lang="en">The locally unique name for the project’s directory</
xs:documentation>
    <xs:documentation xml:lang="en">The typical value is expected to be in NFS protocol</
xs:documentation>
    <xs:documentation xml:lang="en">A parent folder is recommended to organize projects by groups
 (e.g., lab or principal investigator)</xs:documentation>
    <xs:documentation xml:lang="en">If no user request was received and no value has yet been
 approved, then this field may be empty</xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:sequence>
      <xs:element name="projectDirectoryPath" type="pathType" minOccurs="0" maxOccurs="10">
        <xs:annotation>
          <xs:documentation xml:lang="en">A current setting for projectDirectory (omitted until
 approved)</xs:documentation>
          <xs:documentation xml:lang="en">After approval, this value should be updated to match the
 approved value (in rare cases, the current setting may later deviate from the approved value)</
xs:documentation>
          <xs:documentation xml:lang="en">Multiple elements are allowed to specify paths in
 alternative protocols, using the protocol attribute</xs:documentation>
          <xs:documentation xml:lang="en">Example NFS path: /tigerdata/parent-folder/project-
folder</xs:documentation>
          <xs:documentation xml:lang="en">Example SMB path: \\tigerdata-smb\parent-folder\project-
folder</xs:documentation>
          <xs:documentation xml:lang="en">Example S3 path: S3://princeton/tigerdata/parent-folder/
project-folder</xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="requestedValue" type="pathType" minOccurs="0" maxOccurs="1">
        <xs:annotation>
          <xs:documentation xml:lang="en">The requested value for projectDirectory (omitted if no
 user request was received)</xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="approvedValue" type="pathType" minOccurs="0" maxOccurs="1">
        <xs:annotation>
          <xs:documentation xml:lang="en">The approved value for projectDirectory (omitted if no sys
 admin has approved yet)</xs:documentation>
          <xs:documentation xml:lang="en">Once approved, the approved attribute should also be set
 to true</xs:documentation>
        </xs:annotation>
      </xs:element>
    </xs:sequence>
    <xs:attribute ref="approved" default="false"/>
    <xs:attribute ref="inherited" fixed="false"/>
    <xs:attribute ref="discoverable" fixed="false"/>
    <xs:attribute ref="trackingLevel" fixed="InternalUseOnly"/>
  </xs:complexType>
</xs:element>
```

Element `projectDescription / projectDirectory / projectDirectoryPath`

Namespace	No namespace
Annotations	A current setting for projectDirectory (omitted until approved) After approval, this value should be updated to match the approved value (in rare cases, the current setting may later deviate from the approved value) Multiple elements are allowed to specify paths in alternative protocols, using the protocol attribute Example NFS path: /tigerdata/parent-folder/project-folder Example SMB path: \\tigerdata-smb\parent-folder\project-folder Example S3 path: S3://princeton/tigerdata/parent-folder/project-folder

Diagram	
Type	pathType

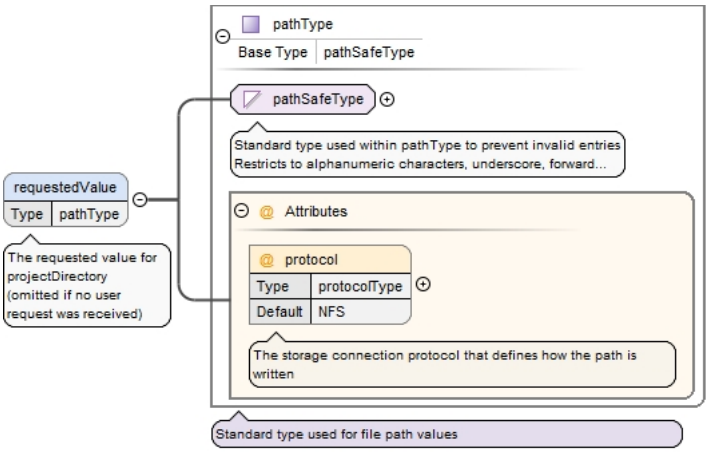
Type hierarchy	• xs:string
	  • pathSafeType
	  • pathType

Properties	content: complex minOccurs: 0 maxOccurs: 10
Attributes	**QName** / **Type** / **Default** / **Use** **protocol** / protocolType / NFS / optional The storage connection protocol that defines how the path is written

Source	`<xs:element name="projectDirectoryPath" type="pathType" minOccurs="0" maxOccurs="10">`
	`  <xs:annotation>`
	`  <xs:documentation xml:lang="en">A current setting for projectDirectory (omitted until approved)</xs:documentation>`
	`  <xs:documentation xml:lang="en">After approval, this value should be updated to match the approved value (in rare cases, the current setting may later deviate from the approved value)</xs:documentation>`
	`  <xs:documentation xml:lang="en">Multiple elements are allowed to specify paths in alternative protocols, using the protocol attribute</xs:documentation>`
	`  <xs:documentation xml:lang="en">Example NFS path: /tigerdata/parent-folder/project-folder</xs:documentation>`
	`  <xs:documentation xml:lang="en">Example SMB path: \\tigerdata-smb\parent-folder\project-folder</xs:documentation>`
	`  <xs:documentation xml:lang="en">Example S3 path: S3://princeton/tigerdata/parent-folder/project-folder</xs:documentation>`
	`  </xs:annotation>`
	`</xs:element>`

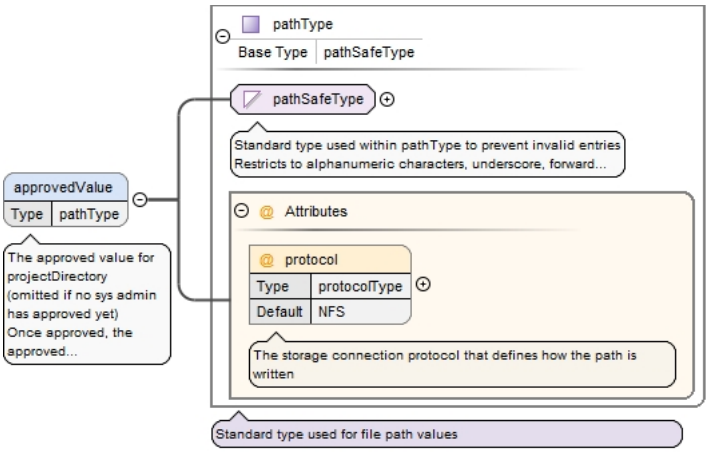
Element `projectDescription / projectDirectory / requestedValue`

Namespace	No namespace
Annotations	The requested value for projectDirectory (omitted if no user request was received)

Diagram	
Type	pathType
Type hierarchy	• xs:string • pathSafeType • pathType
Properties	content: complex minOccurs: 0 maxOccurs: 1
Attributes	**QName** / **Type** / **Default** / **Use** **protocol** / protocolType / NFS / optional The storage connection protocol that defines how the path is written

Source	`<xs:element name="requestedValue" type="pathType" minOccurs="0" maxOccurs="1">`
	`<xs:annotation>`
	`<xs:documentation xml:lang="en">The requested value for projectDirectory (omitted if no user request was received)</xs:documentation>`
	`</xs:annotation>`
	`</xs:element>`

Element projectDescription / projectDirectory / approvedValue

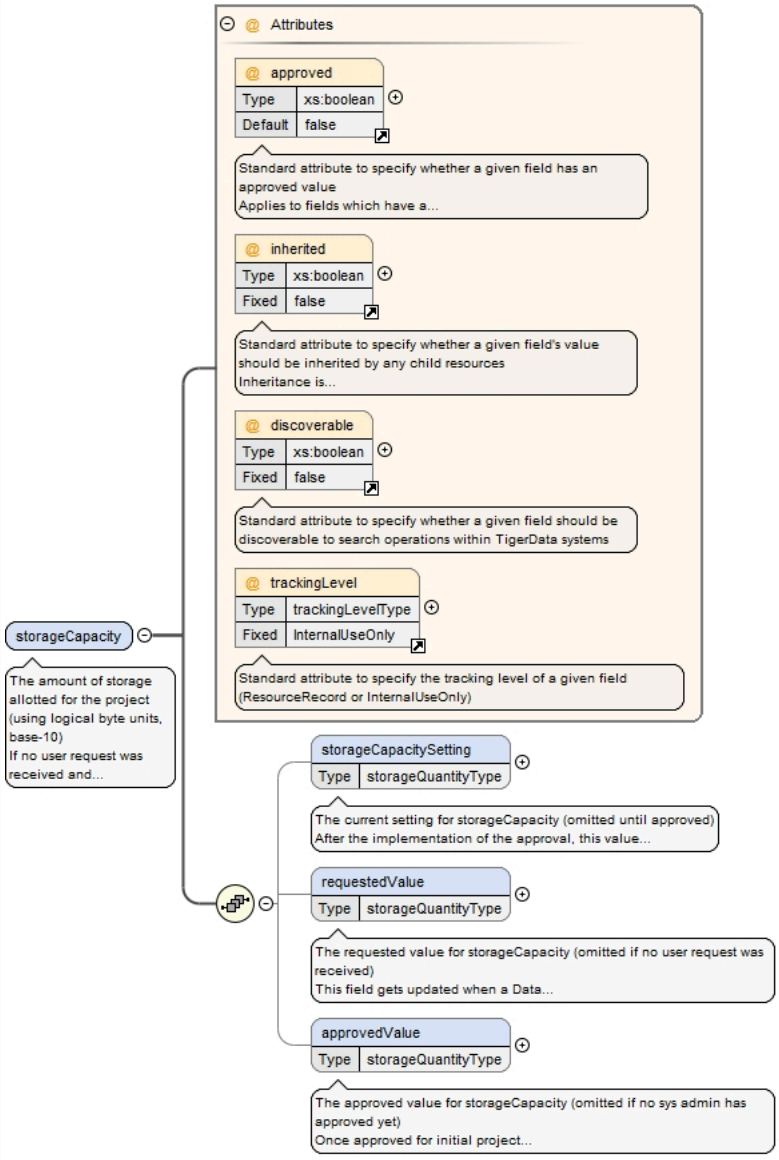
Namespace	No namespace
Annotations	The approved value for projectDirectory (omitted if no sys admin has approved yet) Once approved, the approved attribute should also be set to true
Diagram	
Type	pathType
Type hierarchy	• xs:string • pathSafeType • pathType

Properties	content:	complex			
	minOccurs:	0			
	maxOccurs:	1			
Attributes	**QName**	**Type**	**Default**	**Use**	
	protocol	protocolType	NFS	optional	
		The storage connection protocol that defines how the path is written			

Source

```
<xs:element name="approvedValue" type="pathType" minOccurs="0" maxOccurs="1">
  <xs:annotation>
    <xs:documentation xml:lang="en">The approved value for projectDirectory (omitted if no sys admin
 has approved yet)</xs:documentation>
    <xs:documentation xml:lang="en">Once approved, the approved attribute should also be set to
 true</xs:documentation>
  </xs:annotation>
</xs:element>
```

Element storageAndAccess / storageCapacity

Namespace	No namespace
Annotations	The amount of storage allotted for the project (using logical byte units, base-10) If no user request was received and no value has yet been approved, then this field may be empty
Diagram	
Properties	content: complex

	minOccurs: 1
	maxOccurs: 1
Model	storageCapacitySetting{0,1} , requestedValue{0,1} , approvedValue{0,1}
Children	approvedValue, requestedValue, storageCapacitySetting

Instance

```
<storageCapacity approved="false" discoverable="false" inherited="false" trackingLevel="InternalUseOnly">
  <storageCapacitySetting>{0,1}</storageCapacitySetting>
  <requestedValue>{0,1}</requestedValue>
  <approvedValue>{0,1}</approvedValue>
</storageCapacity>
```

Attributes

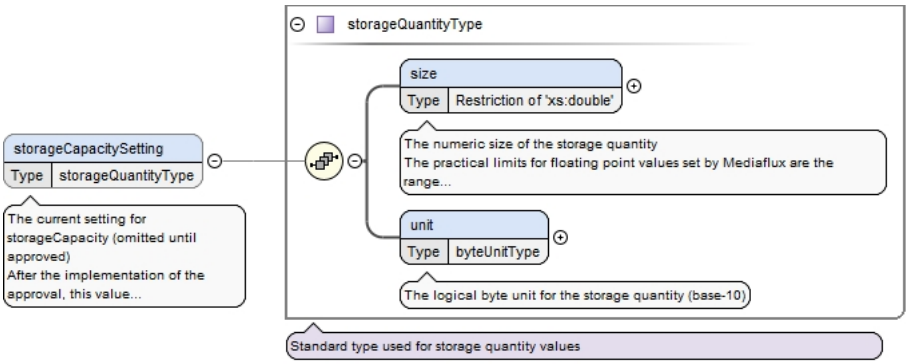
QName	Type	Fixed	Default	Use	
approved	xs:boolean		false	optional	
	Standard attribute to specify whether a given field has an approved value Applies to fields which have a request-approval framework, including projectDirectory, storageCapacity, and storagePerformance				
discoverable	xs:boolean	false		optional	
	Standard attribute to specify whether a given field should be discoverable to search operations within TigerData systems				
inherited	xs:boolean	false		optional	
	Standard attribute to specify whether a given field's value should be inherited by any child resources Inheritance is limited to the applicability of the field to the child resource (e.g., researchDomain may be inherited by a subproject but not an item)				
trackingLevel	trackingLevelType	InternalUseOnly		optional	
	Standard attribute to specify the tracking level of a given field (ResourceRecord or InternalUseOnly)				

Source

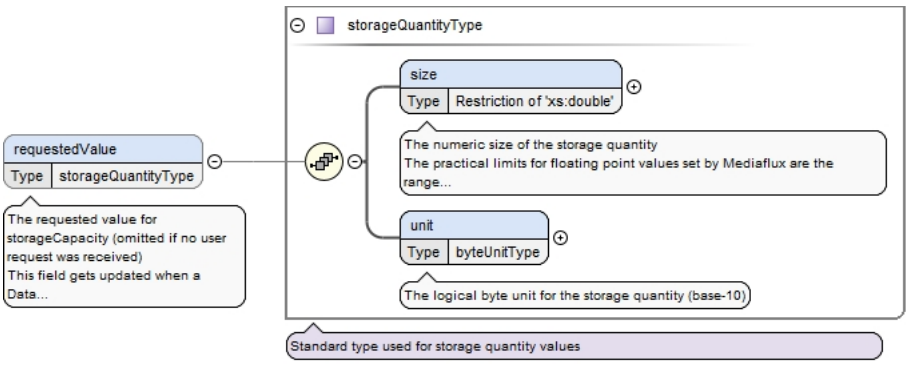
```
<xs:element name="storageCapacity" minOccurs="1" maxOccurs="1">
  <xs:annotation>
    <xs:documentation xml:lang="en">The amount of storage allotted for the project (using logical
 byte units, base-10)</xs:documentation>
    <xs:documentation xml:lang="en">If no user request was received and no value has yet been
 approved, then this field may be empty</xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:sequence>
      <xs:element name="storageCapacitySetting" type="storageQuantityType" minOccurs="0"
 maxOccurs="1">
        <xs:annotation>
          <xs:documentation xml:lang="en">The current setting for storageCapacity (omitted until
 approved)</xs:documentation>
          <xs:documentation xml:lang="en">After the implementation of the approval, this value
 should be updated to match the approvedValue</xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="requestedValue" type="storageQuantityType" minOccurs="0" maxOccurs="1">
        <xs:annotation>
          <xs:documentation xml:lang="en">The requested value for storageCapacity (omitted if no
 user request was received)</xs:documentation>
          <xs:documentation xml:lang="en">This field gets updated when a Data Sponsor or Data
 Manager requests a change in storage capacity on an active project</xs:documentation>
          <xs:documentation xml:lang="en">Depending on the amount requested, a System Administrator
 may ask the Data Sponsor for more justification for the request</xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="approvedValue" type="storageQuantityType" minOccurs="0" maxOccurs="1">
        <xs:annotation>
          <xs:documentation xml:lang="en">The approved value for storageCapacity (omitted if no sys
 admin has approved yet)</xs:documentation>
          <xs:documentation xml:lang="en">Once approved for initial project setup, the approved
 attribute should also be set to true</xs:documentation>
          <xs:documentation xml:lang="en">If the Data Sponsor or Data Manager requests a change
 in storage capacity, then the approval of the new amount will change the approvedValue</
xs:documentation>
        </xs:annotation>
      </xs:element>
    </xs:sequence>
    <xs:attribute ref="approved" default="false"/>
    <xs:attribute ref="inherited" fixed="false"/>
    <xs:attribute ref="discoverable" fixed="false"/>
    <xs:attribute ref="trackingLevel" fixed="InternalUseOnly"/>
  </xs:complexType>
```

```
</xs:element>
```

Element storageAndAccess / storageCapacity / storageCapacitySetting

Namespace	No namespace
Annotations	The current setting for storageCapacity (omitted until approved) After the implementation of the approval, this value should be updated to match the approvedValue
Diagram	
Type	storageQuantityType
Properties	content: complex minOccurs: 0 maxOccurs: 1
Model	size , unit
Children	size, unit
Instance	<storageCapacitySetting> <size>{1,1}</size> <unit>{1,1}</unit> </storageCapacitySetting>
Source	<xs:element name="storageCapacitySetting" type="storageQuantityType" minOccurs="0" maxOccurs="1"> <xs:annotation> <xs:documentation xml:lang="en">The current setting for storageCapacity (omitted until approved)</xs:documentation> <xs:documentation xml:lang="en">After the implementation of the approval, this value should be updated to match the approvedValue</xs:documentation> </xs:annotation> </xs:element>

Element storageAndAccess / storageCapacity / requestedValue

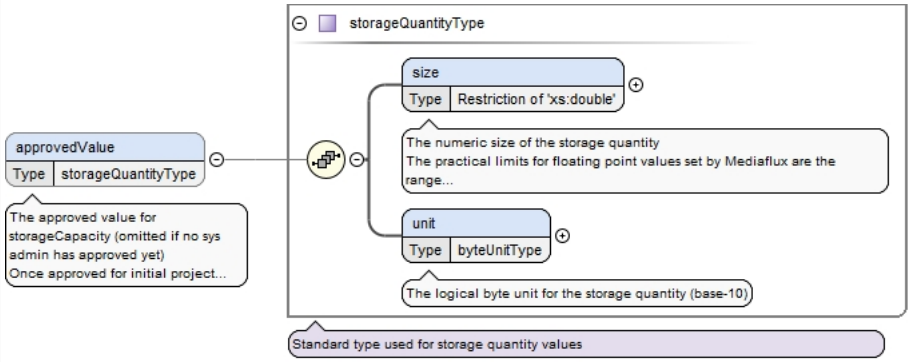
Namespace	No namespace
Annotations	The requested value for storageCapacity (omitted if no user request was received) This field gets updated when a Data Sponsor or Data Manager requests a change in storage capacity on an active project Depending on the amount requested, a System Administrator may ask the Data Sponsor for more justification for the request
Diagram	
Type	storageQuantityType
Properties	content: complex

	minOccurs: 0 maxOccurs: 1
Model	size , unit
Children	size, unit

Instance	`<requestedValue>`
	`  <size>{1,1}</size>`
	`  <unit>{1,1}</unit>`
	`</requestedValue>`

Source	`<xs:element name="requestedValue" type="storageQuantityType" minOccurs="0" maxOccurs="1">`
	`  <xs:annotation>`
	`  <xs:documentation xml:lang="en">The requested value for storageCapacity (omitted if no user request was received)</xs:documentation>`
	`  <xs:documentation xml:lang="en">This field gets updated when a Data Sponsor or Data Manager requests a change in storage capacity on an active project</xs:documentation>`
	`  <xs:documentation xml:lang="en">Depending on the amount requested, a System Administrator may ask the Data Sponsor for more justification for the request</xs:documentation>`
	`  </xs:annotation>`
	`</xs:element>`

Element `storageAndAccess / storageCapacity / approvedValue`

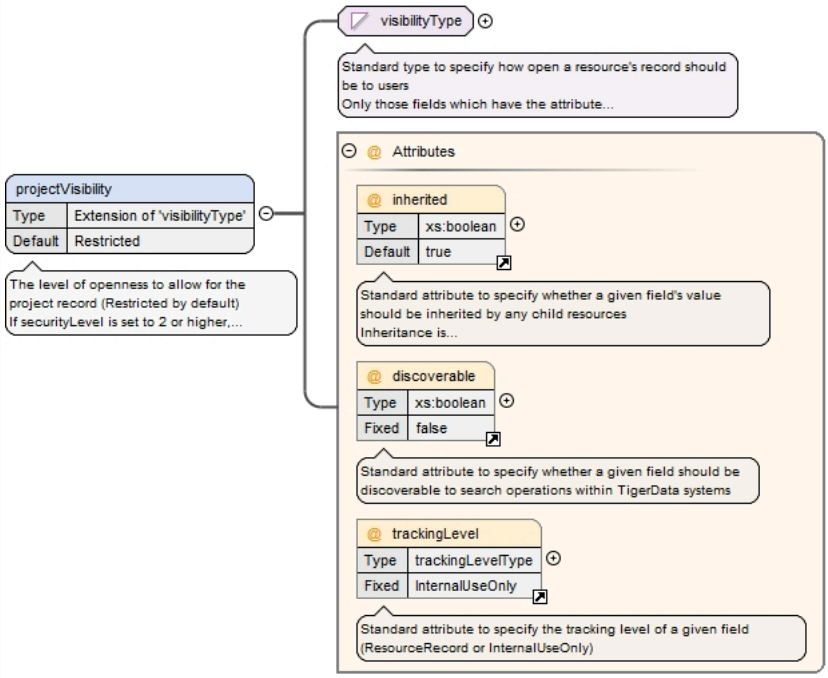
Namespace	No namespace
Annotations	The approved value for storageCapacity (omitted if no sys admin has approved yet) Once approved for initial project setup, the approved attribute should also be set to true If the Data Sponsor or Data Manager requests a change in storage capacity, then the approval of the new amount will change the approvedValue
Diagram	
Type	storageQuantityType
Properties	content: complex minOccurs: 0 maxOccurs: 1
Model	size , unit
Children	size, unit

Instance	`<approvedValue>`
	`  <size>{1,1}</size>`
	`  <unit>{1,1}</unit>`
	`</approvedValue>`

Source	`<xs:element name="approvedValue" type="storageQuantityType" minOccurs="0" maxOccurs="1">`
	`  <xs:annotation>`
	`  <xs:documentation xml:lang="en">The approved value for storageCapacity (omitted if no sys admin has approved yet)</xs:documentation>`
	`  <xs:documentation xml:lang="en">Once approved for initial project setup, the approved attribute should also be set to true</xs:documentation>`
	`  <xs:documentation xml:lang="en">If the Data Sponsor or Data Manager requests a change in storage capacity, then the approval of the new amount will change the approvedValue</xs:documentation>`
	`  </xs:annotation>`
	`</xs:element>`

Element `storageAndAccess / projectVisibility`

Namespace	No namespace
Annotations	The level of openness to allow for the project record (Restricted by default)

	If securityLevel is set to 2 or higher, then project visibility should be set to Restricted
Diagram	
Type	extension of visibilityType
Type hierarchy	• xs:string • visibilityType
Properties	content: complex minOccurs: 1 maxOccurs: 1 default: Restricted

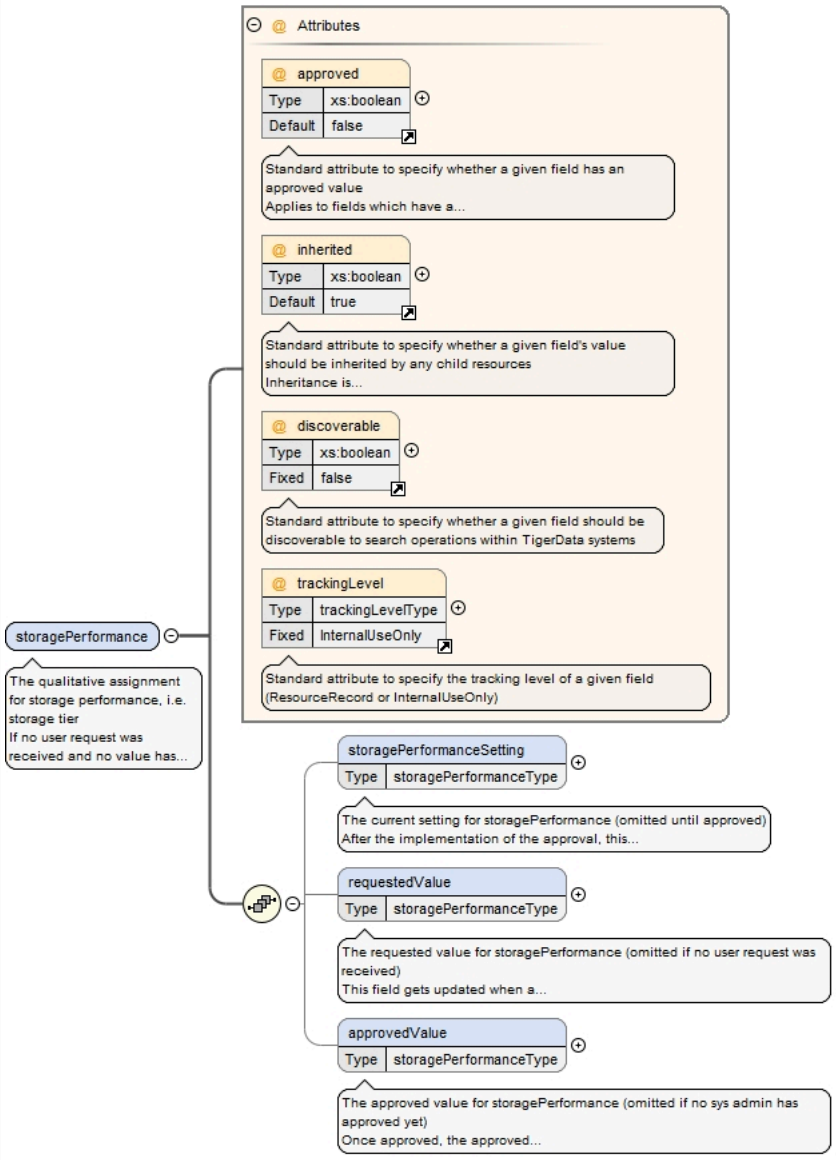
Attributes

QName	Type	Fixed	Default	Use	
discoverable	xs:boolean	false		optional	
	Standard attribute to specify whether a given field should be discoverable to search operations within TigerData systems				
inherited	xs:boolean		true	optional	
	Standard attribute to specify whether a given field's value should be inherited by any child resources Inheritance is limited to the applicability of the field to the child resource (e.g., researchDomain may be inherited by a subproject but not an item)				
trackingLevel	trackingLevelType	InternalUseOnly		optional	
	Standard attribute to specify the tracking level of a given field (ResourceRecord or InternalUseOnly)				

Source

```
<xs:element name="projectVisibility" minOccurs="1" maxOccurs="1" default="Restricted">
  <xs:annotation>
    <xs:documentation xml:lang="en">The level of openness to allow for the project record
 (Restricted by default)</xs:documentation>
    <xs:documentation xml:lang="en">If securityLevel is set to 2 or higher, then project visibility
 should be set to Restricted</xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:simpleContent>
      <xs:extension base="visibilityType">
        <xs:attribute ref="inherited" default="true"/>
        <xs:attribute ref="discoverable" fixed="false"/>
        <xs:attribute ref="trackingLevel" fixed="InternalUseOnly"/>
      </xs:extension>
    </xs:simpleContent>
  </xs:complexType>
</xs:element>
```

Element storageAndAccess / storagePerformance

Namespace	No namespace
Annotations	The qualitative assignment for storage performance, i.e. storage tier If no user request was received and no value has yet been approved, then this field may be empty
Diagram	

Properties	content:	complex
	minOccurs:	1
	maxOccurs:	1
Model	storagePerformanceSetting{0,1} , requestedValue{0,1} , approvedValue{0,1}	
Children	approvedValue, requestedValue, storagePerformanceSetting	

Instance

```
<storagePerformance approved="false" discoverable="false" inherited="true" trackingLevel="InternalUseOnly">
  <storagePerformanceSetting>{0,1}</storagePerformanceSetting>
  <requestedValue>{0,1}</requestedValue>
  <approvedValue>{0,1}</approvedValue>
</storagePerformance>
```

Attributes

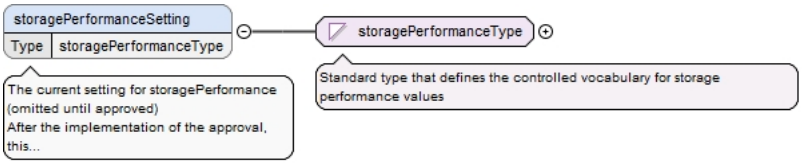
QName	Type	Fixed	Default	Use	
approved	xs:boolean		false	optional	
	Standard attribute to specify whether a given field has an approved value Applies to fields which have a request-approval framework, including projectDirectory, storageCapacity, and storagePerformance				

QName	Type	Fixed	Default	Use	
discoverable	xs:boolean	false		optional	
	Standard attribute to specify whether a given field should be discoverable to search operations within TigerData systems				
inherited	xs:boolean		true	optional	
	Standard attribute to specify whether a given field's value should be inherited by any child resources Inheritance is limited to the applicability of the field to the child resource (e.g., researchDomain may be inherited by a subproject but not an item)				
trackingLevel	trackingLevelType	InternalUseOnly		optional	
	Standard attribute to specify the tracking level of a given field (ResourceRecord or InternalUseOnly)				

Source

```
<xs:element name="storagePerformance" minOccurs="1" maxOccurs="1">
  <xs:annotation>
    <xs:documentation xml:lang="en">The qualitative assignment for storage performance, i.e. storage
 tier</xs:documentation>
    <xs:documentation xml:lang="en">If no user request was received and no value has yet been
 approved, then this field may be empty</xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:sequence>
      <xs:element name="storagePerformanceSetting" type="storagePerformanceType" minOccurs="0"
 maxOccurs="1">
        <xs:annotation>
          <xs:documentation xml:lang="en">The current setting for storagePerformance (omitted until
 approved)</xs:documentation>
          <xs:documentation xml:lang="en">After the implementation of the approval, this value
 should be updated to match the approvedValue</xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="requestedValue" type="storagePerformanceType" minOccurs="0" maxOccurs="1">
        <xs:annotation>
          <xs:documentation xml:lang="en">The requested value for storagePerformance (omitted if no
 user request was received)</xs:documentation>
          <xs:documentation xml:lang="en">This field gets updated when a Data Sponsor or Data
 Manager requests a change in storage performance on an active project</xs:documentation>
          <xs:documentation xml:lang="en">Depending on the level requested, a System Administrator
 may ask the Data Sponsor for more justification for the request</xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="approvedValue" type="storagePerformanceType" minOccurs="0" maxOccurs="1">
        <xs:annotation>
          <xs:documentation xml:lang="en">The approved value for storagePerformance (omitted if no
 sys admin has approved yet)</xs:documentation>
          <xs:documentation xml:lang="en">Once approved, the approved attribute should also be set
 to true</xs:documentation>
          <xs:documentation xml:lang="en">If the Data Sponsor or Data Manager requests a change
 in storage performance, then the approval of the new level will change the approvedValue</
xs:documentation>
        </xs:annotation>
      </xs:element>
    </xs:sequence>
    <xs:attribute ref="approved" default="false"/>
    <xs:attribute ref="inherited" default="true"/>
    <xs:attribute ref="discoverable" fixed="false"/>
    <xs:attribute ref="trackingLevel" fixed="InternalUseOnly"/>
  </xs:complexType>
</xs:element>
```

Element storageAndAccess / storagePerformance / storagePerformanceSetting

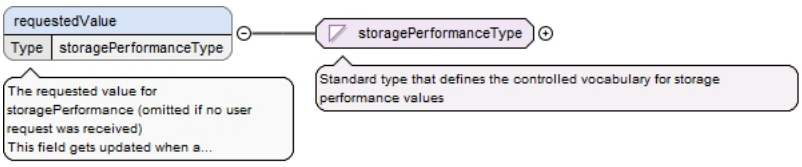
Namespace	No namespace
Annotations	The current setting for storagePerformance (omitted until approved) After the implementation of the approval, this value should be updated to match the approvedValue
Diagram	
Type	storagePerformanceType

Properties	content:	simple	
	minOccurs:	0	
	maxOccurs:	1	
Facets	enumeration	Eco	The most economical storage tier available in TigerData (lowest cost and smallest carbon footprint) Appropriate for long-term/low-use data, i.e. cold storage The typical implementation is an object store system, e.g. IBM Cloud Object Storage
	enumeration	Standard	The middle storage tier for TigerData, expected as a default Appropriate for data that is accessed occasionally but infrequently edited, i.e. cool storage The typical implementation is a network attached storage system, e.g. Dell PowerScale
	enumeration	Premium	The most performant storage tier available in TigerData Reserved for actively edited data that needs to be close to high performance computing systems, i.e. warm storage The typical implementation is a cluster file system, e.g. IBM General Parallel File System A special request may be required for this tier

Source

```
<xs:element name="storagePerformanceSetting" type="storagePerformanceType" minOccurs="0"
 maxOccurs="1">
  <xs:annotation>
    <xs:documentation xml:lang="en">The current setting for storagePerformance (omitted until
 approved)</xs:documentation>
    <xs:documentation xml:lang="en">After the implementation of the approval, this value should be
 updated to match the approvedValue</xs:documentation>
  </xs:annotation>
</xs:element>
```

Element storageAndAccess / storagePerformance / requestedValue

Namespace	No namespace
Annotations	The requested value for storagePerformance (omitted if no user request was received) This field gets updated when a Data Sponsor or Data Manager requests a change in storage performance on an active project Depending on the level requested, a System Administrator may ask the Data Sponsor for more justification for the request
Diagram	
Type	storagePerformanceType

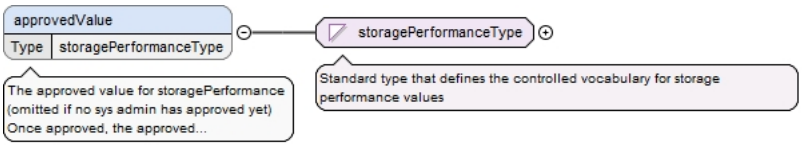
Properties	content:	simple	
	minOccurs:	0	
	maxOccurs:	1	
Facets	enumeration	Eco	The most economical storage tier available in TigerData (lowest cost and smallest carbon footprint) Appropriate for long-term/low-use data, i.e. cold storage The typical implementation is an object store system, e.g. IBM Cloud Object Storage

	enumeration	Standard	The middle storage tier for TigerData, expected as a default Appropriate for data that is accessed occasionally but infrequently edited, i.e. cool storage The typical implementation is a network attached storage system, e.g. Dell PowerScale
	enumeration	Premium	The most performant storage tier available in TigerData Reserved for actively edited data that needs to be close to high performance computing systems, i.e. warm storage The typical implementation is a cluster file system, e.g. IBM General Parallel File System A special request may be required for this tier

Source

```
<xs:element name="requestedValue" type="storagePerformanceType" minOccurs="0" maxOccurs="1">
  <xs:annotation>
    <xs:documentation xml:lang="en">The requested value for storagePerformance (omitted if no user
 request was received)</xs:documentation>
    <xs:documentation xml:lang="en">This field gets updated when a Data Sponsor or Data Manager
 requests a change in storage performance on an active project</xs:documentation>
    <xs:documentation xml:lang="en">Depending on the level requested, a System Administrator may ask
 the Data Sponsor for more justification for the request</xs:documentation>
  </xs:annotation>
</xs:element>
```

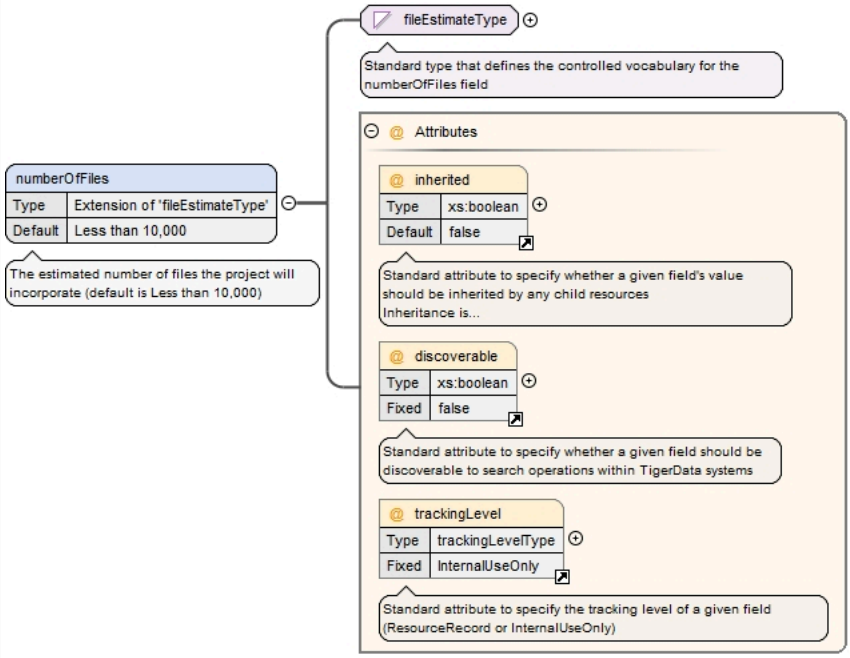
Element storageAndAccess / storagePerformance / approvedValue

Namespace	No namespace		
Annotations	The approved value for storagePerformance (omitted if no sys admin has approved yet) Once approved, the approved attribute should also be set to true If the Data Sponsor or Data Manager requests a change in storage performance, then the approval of the new level will change the approvedValue		
Diagram			
Type	storagePerformanceType		
Properties	content:	simple	
	minOccurs:	0	
	maxOccurs:	1	
Facets	enumeration	Eco	The most economical storage tier available in TigerData (lowest cost and smallest carbon footprint) Appropriate for long-term/low-use data, i.e. cold storage The typical implementation is an object store system, e.g. IBM Cloud Object Storage
	enumeration	Standard	The middle storage tier for TigerData, expected as a default Appropriate for data that is accessed occasionally but infrequently edited, i.e. cool storage The typical implementation is a network attached storage system, e.g. Dell PowerScale
	enumeration	Premium	The most performant storage tier available in TigerData Reserved for actively edited data that needs to be close to high performance computing systems, i.e. warm storage

	The typical implementation is a cluster file system, e.g. IBM General Parallel File System A special request may be required for this tier

Source	`<xs:element name="approvedValue" type="storagePerformanceType" minOccurs="0" maxOccurs="1">`
	`  <xs:annotation>`
	`  <xs:documentation xml:lang="en">The approved value for storagePerformance (omitted if no sys admin has approved yet)</xs:documentation>`
	`  <xs:documentation xml:lang="en">Once approved, the approved attribute should also be set to true</xs:documentation>`
	`  <xs:documentation xml:lang="en">If the Data Sponsor or Data Manager requests a change in storage performance, then the approval of the new level will change the approvedValue</xs:documentation>`
	`  </xs:annotation>`
	`</xs:element>`

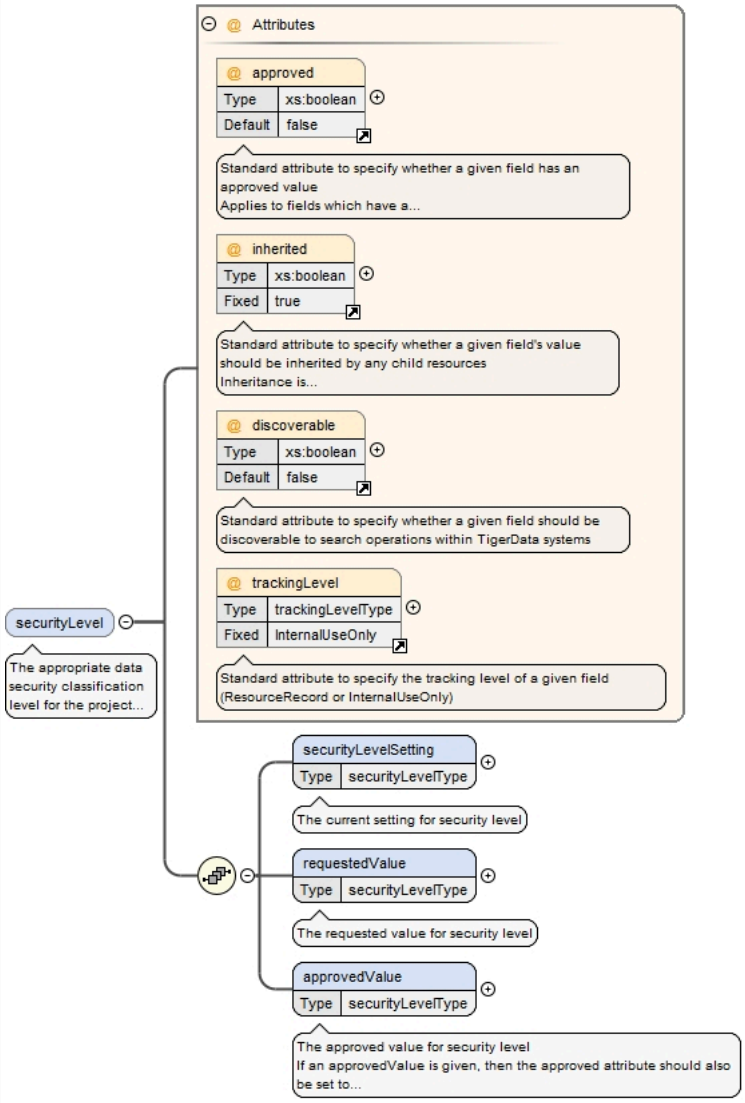
Element storageAndAccess / numberOfFiles

Namespace	No namespace
Annotations	The estimated number of files the project will incorporate (default is Less than 10,000)
Diagram	
Type	extension of fileEstimateType
Type hierarchy	• xs:string • fileEstimateType
Properties	content: complex minOccurs: 1 maxOccurs: 1 default: Less than 10,000
Attributes	**QName** / **Type** / **Fixed** / **Default** / **Use** **discoverable** / xs:boolean / false / / optional Standard attribute to specify whether a given field should be discoverable to search operations within TigerData systems **inherited** / xs:boolean / / false / optional Standard attribute to specify whether a given field's value should be inherited by any child resources Inheritance is limited to the applicability of the field to the child resource (e.g., researchDomain may be inherited by a subproject but not an item) **trackingLevel** / trackingLevelType / InternalUseOnly / / optional Standard attribute to specify the tracking level of a given field (ResourceRecord or InternalUseOnly)

Source

```
<xs:element name="numberOfFiles" minOccurs="1" maxOccurs="1" default="Less than 10,000">
  <xs:annotation>
    <xs:documentation xml:lang="en">The estimated number of files the project will incorporate
 (default is Less than 10,000)</xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:simpleContent>
      <xs:extension base="fileEstimateType">
        <xs:attribute ref="inherited" default="false"/>
        <xs:attribute ref="discoverable" fixed="false"/>
        <xs:attribute ref="trackingLevel" fixed="InternalUseOnly"/>
      </xs:extension>
    </xs:simpleContent>
  </xs:complexType>
</xs:element>
```

Element storageAndAccess / securityLevel

Namespace	No namespace
Annotations	The appropriate data security classification level for the project contents https://protectingourinfo.princeton.edu/classify If the security level is set to 2 or higher, then project visibility should be set to Restricted
Diagram	
Properties	content: complex minOccurs: 0 maxOccurs: 1
Model	securityLevelSetting , requestedValue , approvedValue

Children	approvedValue, requestedValue, securityLevelSetting

Instance

```
<securityLevel approved="false" discoverable="false" inherited="true" trackingLevel="InternalUseOnly">
  <securityLevelSetting>{1,1}</securityLevelSetting>
  <requestedValue>{1,1}</requestedValue>
  <approvedValue>{1,1}</approvedValue>
</securityLevel>
```

Attributes

QName	Type	Fixed	Default	Use	
approved	xs:boolean		false	optional	
	Standard attribute to specify whether a given field has an approved value Applies to fields which have a request-approval framework, including projectDirectory, storageCapacity, and storagePerformance				
discoverable	xs:boolean		false	optional	
	Standard attribute to specify whether a given field should be discoverable to search operations within TigerData systems				
inherited	xs:boolean	true		optional	
	Standard attribute to specify whether a given field's value should be inherited by any child resources Inheritance is limited to the applicability of the field to the child resource (e.g., researchDomain may be inherited by a subproject but not an item)				
trackingLevel	trackingLevelType	InternalUseOnly		optional	
	Standard attribute to specify the tracking level of a given field (ResourceRecord or InternalUseOnly)				

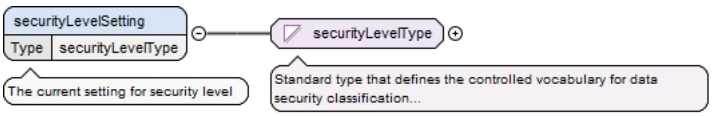
Source

```
<xs:element name="securityLevel" minOccurs="0" maxOccurs="1">
  <xs:annotation>
    <xs:documentation xml:lang="en">The appropriate data security classification level for the
 project contents</xs:documentation>
    <xs:documentation>https://protectingourinfo.princeton.edu/classify</xs:documentation>
    <xs:documentation xml:lang="en">If the security level is set to 2 or higher, then project
 visibility should be set to Restricted</xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:sequence>
      <xs:element name="securityLevelSetting" type="securityLevelType" maxOccurs="1">
        <xs:annotation>
          <xs:documentation xml:lang="en">The current setting for security level</xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="requestedValue" type="securityLevelType" maxOccurs="1">
        <xs:annotation>
          <xs:documentation xml:lang="en">The requested value for security level</xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="approvedValue" type="securityLevelType" maxOccurs="1">
        <xs:annotation>
          <xs:documentation xml:lang="en">The approved value for security level</xs:documentation>
          <xs:documentation xml:lang="en">If an approvedValue is given, then the approved attribute
 should also be set to true</xs:documentation>
        </xs:annotation>
      </xs:element>
    </xs:sequence>
    <xs:attribute ref="approved" default="false"/>
    <xs:attribute ref="inherited" fixed="true"/>
    <xs:attribute ref="discoverable" default="false"/>
    <xs:attribute ref="trackingLevel" fixed="InternalUseOnly"/>
  </xs:complexType>
</xs:element>
```

Element storageAndAccess / securityLevel / securityLevelSetting

Namespace	No namespace
Annotations	The current setting for security level

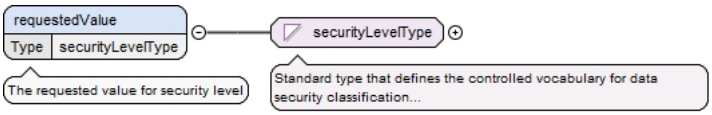
Diagram



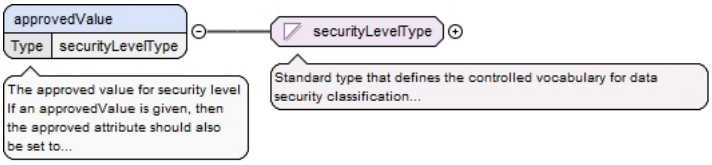
Type	securityLevelType
Properties	content: simple

	maxOccurs:	1	
Facets	enumeration	Level 0 - Public	Intended to be freely shared or disclosed inside and outside of Princeton University
	enumeration	Level 1 - Internal	Intended to be used only by Princeton University staff, faculty or students, and not for public disclosure
	enumeration	Level 2 - Confidential	Requires careful handling and protection due to contractual, regulatory, proprietary, or privacy considerations Requires TigerData Secure
	enumeration	Level 3 - Restricted	Subject to restrictive data security regulations and/or privacy protections, e.g. HIPAA Requires TigerData Secure
Source	<xs:element name="securityLevelSetting" type="securityLevelType" maxOccurs="1"> <xs:annotation> <xs:documentation xml:lang="en">The current setting for security level</xs:documentation> </xs:annotation> </xs:element>		

Element storageAndAccess / securityLevel / requestedValue

Namespace	No namespace
Annotations	The requested value for security level
Diagram	
Type	securityLevelType
Properties	content: simple
	maxOccurs: 1
Facets	enumeration: Level 0 - Public — Intended to be freely shared or disclosed inside and outside of Princeton University
	enumeration: Level 1 - Internal — Intended to be used only by Princeton University staff, faculty or students, and not for public disclosure
	enumeration: Level 2 - Confidential — Requires careful handling and protection due to contractual, regulatory, proprietary, or privacy considerations Requires TigerData Secure
	enumeration: Level 3 - Restricted — Subject to restrictive data security regulations and/or privacy protections, e.g. HIPAA Requires TigerData Secure
Source	<xs:element name="requestedValue" type="securityLevelType" maxOccurs="1"> <xs:annotation> <xs:documentation xml:lang="en">The requested value for security level</xs:documentation> </xs:annotation> </xs:element>

Element storageAndAccess / securityLevel / approvedValue

Namespace	No namespace
Annotations	The approved value for security level If an approvedValue is given, then the approved attribute should also be set to true
Diagram	
Type	securityLevelType
Properties	content: simple

	maxOccurs:	1	
Facets	enumeration	Level 0 - Public	Intended to be freely shared or disclosed inside and outside of Princeton University
	enumeration	Level 1 - Internal	Intended to be used only by Princeton University staff, faculty or students, and not for public disclosure
	enumeration	Level 2 - Confidential	Requires careful handling and protection due to contractual, regulatory, proprietary, or privacy considerations Requires TigerData Secure
	enumeration	Level 3 - Restricted	Subject to restrictive data security regulations and/or privacy protections, e.g. HIPAA Requires TigerData Secure

Source

```
<xs:element name="approvedValue" type="securityLevelType" maxOccurs="1">
  <xs:annotation>
    <xs:documentation xml:lang="en">The approved value for security level</xs:documentation>
    <xs:documentation xml:lang="en">If an approvedValue is given, then the approved attribute should
 also be set to true</xs:documentation>
  </xs:annotation>
</xs:element>
```

Element storageAndAccess / storageSystem

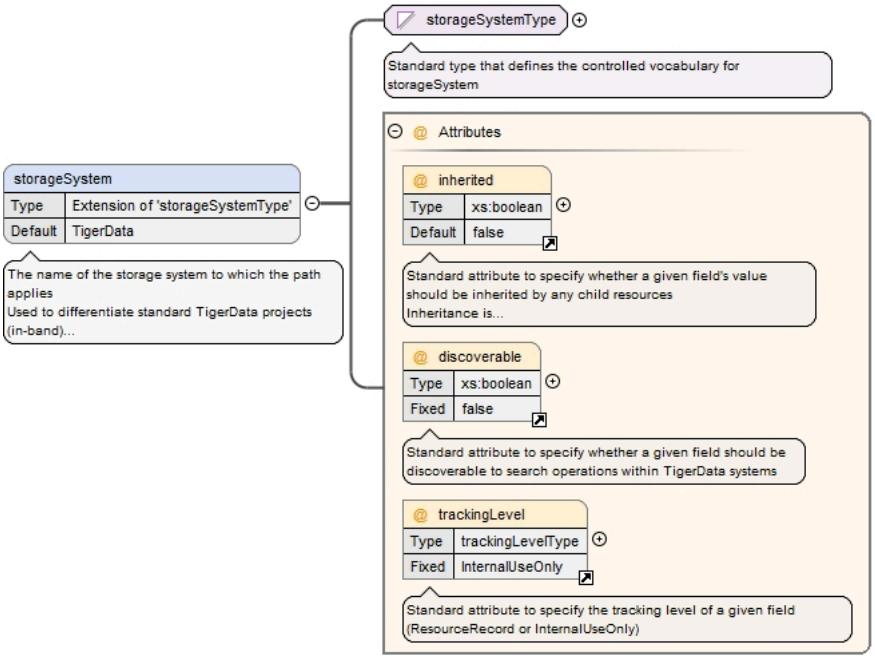
Namespace: No namespace

Annotations:

The name of the storage system to which the path applies

Used to differentiate standard TigerData projects (in-band) from out-of-band systems (e.g., '/projects' or 'Della /scratch/gpfs')

Diagram



Type: extension of storageSystemType

Type hierarchy:
- xs:string
  - storageSystemType

Properties

content:	complex
minOccurs:	0
maxOccurs:	1
default:	TigerData

Attributes

QName	Type	Fixed	Default	Use	
discoverable	xs:boolean	false		optional	

	QName	Type	Fixed	Default	Use	
		Standard attribute to specify whether a given field should be discoverable to search operations within TigerData systems				
	inherited	xs:boolean		false	optional	
		Standard attribute to specify whether a given field's value should be inherited by any child resources Inheritance is limited to the applicability of the field to the child resource (e.g., researchDomain may be inherited by a subproject but not an item)				
	trackingLevel	trackingLevelType	InternalUseOnly		optional	
		Standard attribute to specify the tracking level of a given field (ResourceRecord or InternalUseOnly)				

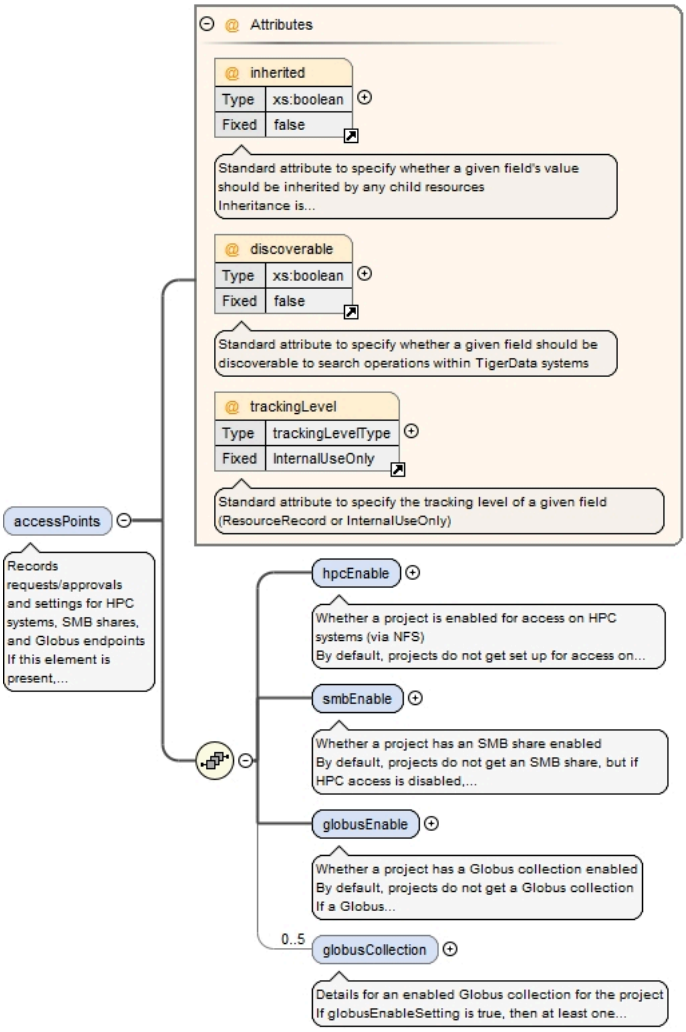
Source

```
<xs:element name="storageSystem" minOccurs="0" maxOccurs="1" default="TigerData">
  <xs:annotation>
    <xs:documentation xml:lang="en">The name of the storage system to which the path applies</
xs:documentation>
    <xs:documentation xml:lang="en">Used to differentiate standard TigerData projects (in-band) from
 out-of-band systems (e.g., '/projects' or 'Della /scratch/gpfs')</xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:simpleContent>
      <xs:extension base="storageSystemType">
        <xs:attribute ref="inherited" default="false"/>
        <xs:attribute ref="discoverable" fixed="false"/>
        <xs:attribute ref="trackingLevel" fixed="InternalUseOnly"/>
      </xs:extension>
    </xs:simpleContent>
  </xs:complexType>
</xs:element>
```

Element storageAndAccess / accessPoints

Namespace	No namespace
Annotations	Records requests/approvals and settings for HPC systems, SMB shares, and Globus endpoints If this element is present, then it should contain all 3 sub-elements

Diagram



Properties

content:	complex
minOccurs:	0
maxOccurs:	1

Model

hpcEnable , smbEnable , globusEnable , globusCollection{0,5}

Children

globusCollection, globusEnable, hpcEnable, smbEnable

Instance

```
<accessPoints discoverable="false" inherited="false" trackingLevel="InternalUseOnly">
  <hpcEnable approved="false">{1,1}</hpcEnable>
  <smbEnable approved="false">{1,1}</smbEnable>
  <globusEnable approved="false">{1,1}</globusEnable>
  <globusCollection>{0,5}</globusCollection>
</accessPoints>
```

Attributes

QName	Type	Fixed	Use	
discoverable	xs:boolean	false	optional	
	Standard attribute to specify whether a given field should be discoverable to search operations within TigerData systems			
inherited	xs:boolean	false	optional	
	Standard attribute to specify whether a given field's value should be inherited by any child resources Inheritance is limited to the applicability of the field to the child resource (e.g., researchDomain may be inherited by a subproject but not an item)			
trackingLevel	trackingLevelType	InternalUseOnly	optional	
	Standard attribute to specify the tracking level of a given field (ResourceRecord or InternalUseOnly)			

Source

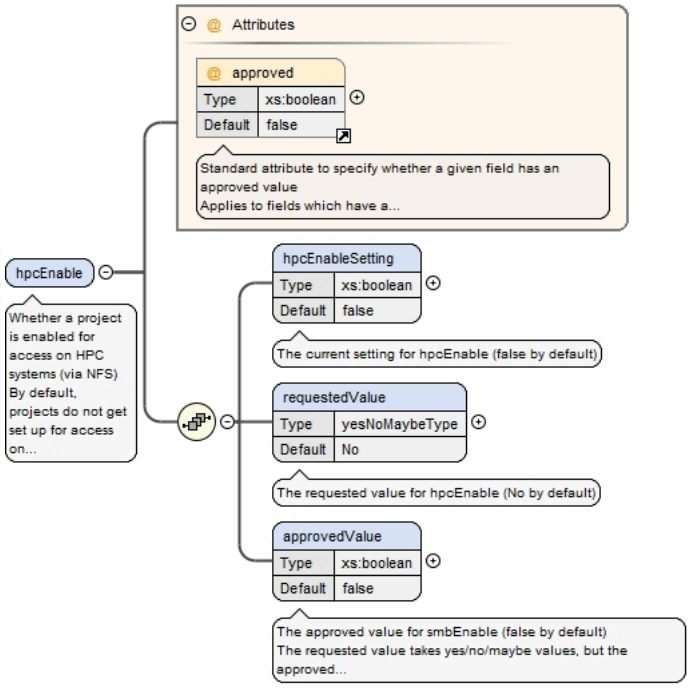
```
<xs:element name="accessPoints" minOccurs="0" maxOccurs="1">
```

```
  <xs:annotation>
    <xs:documentation xml:lang="en">Records requests/approvals and settings for HPC systems, SMB
 shares, and Globus endpoints</xs:documentation>
    <xs:documentation xml:lang="en">If this element is present, then it should contain all 3 sub-
elements</xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:sequence>
      <xs:element name="hpcEnable" minOccurs="1" maxOccurs="1">
        <xs:annotation>
          <xs:documentation xml:lang="en">Whether a project is enabled for access on HPC systems
 (via NFS)</xs:documentation>
          <xs:documentation xml:lang="en">By default, projects do not get set up for access
 on HPC systems, but if both SMB and Globus are disabled, then HPC enabling may be necessary</
xs:documentation>
        </xs:annotation>
        <xs:complexType>
          <xs:sequence>
            <xs:element name="hpcEnableSetting" type="xs:boolean" maxOccurs="1" default="false">
              <xs:annotation>
                <xs:documentation xml:lang="en">The current setting for hpcEnable (false by
 default)</xs:documentation>
              </xs:annotation>
            </xs:element>
            <xs:element name="requestedValue" type="yesNoMaybeType" maxOccurs="1" default="No">
              <xs:annotation>
                <xs:documentation xml:lang="en">The requested value for hpcEnable (No by default)</
xs:documentation>
              </xs:annotation>
            </xs:element>
            <xs:element name="approvedValue" type="xs:boolean" maxOccurs="1" default="false">
              <xs:annotation>
                <xs:documentation xml:lang="en">The approved value for smbEnable (false by
 default)</xs:documentation>
                <xs:documentation xml:lang="en">The requested value takes yes/no/maybe values, but
 the approved value must be true/false</xs:documentation>
                <xs:documentation xml:lang="en">If approvedValue is true, then hpcEnableSetting and
 the approved attribute should also be set to true</xs:documentation>
              </xs:annotation>
            </xs:element>
          </xs:sequence>
          <xs:attribute ref="approved" default="false"/>
        </xs:complexType>
      </xs:element>
      <xs:element name="smbEnable" minOccurs="1" maxOccurs="1">
        <xs:annotation>
          <xs:documentation xml:lang="en">Whether a project has an SMB share enabled</
xs:documentation>
          <xs:documentation xml:lang="en">By default, projects do not get an SMB share, but if HPC
 access is disabled, then smbEnable is likely needed</xs:documentation>
          <xs:documentation xml:lang="en">If an SMB share is approved and set, then the SMB path
 should be included in projectDirectoryPath</xs:documentation>
        </xs:annotation>
        <xs:complexType>
          <xs:sequence>
            <xs:element name="smbEnableSetting" type="xs:boolean" maxOccurs="1" default="false">
              <xs:annotation>
                <xs:documentation xml:lang="en">The current setting for smbEnable (false by
 default)</xs:documentation>
              </xs:annotation>
            </xs:element>
            <xs:element name="requestedValue" type="yesNoMaybeType" maxOccurs="1" default="No">
              <xs:annotation>
                <xs:documentation xml:lang="en">The requested value for smbEnable (No by default)</
xs:documentation>
              </xs:annotation>
            </xs:element>
            <xs:element name="approvedValue" type="xs:boolean" maxOccurs="1" default="false">
              <xs:annotation>
                <xs:documentation xml:lang="en">The approved value for smbEnable (false by
 default)</xs:documentation>
                <xs:documentation xml:lang="en">The requested value takes yes/no/maybe values, but
 the approved value must be true/false</xs:documentation>
                <xs:documentation xml:lang="en">If approvedValue is true, then smbEnableSetting and
 the approved attribute should also be set to true</xs:documentation>
              </xs:annotation>
            </xs:element>
          </xs:sequence>
          <xs:attribute ref="approved" default="false"/>
        </xs:complexType>
      </xs:element>
      <xs:element name="globusEnable" minOccurs="1" maxOccurs="1">
        <xs:annotation>
```

```
          <xs:documentation xml:lang="en">Whether a project has a Globus collection enabled</
xs:documentation>
          <xs:documentation xml:lang="en">By default, projects do not get a Globus collection</
xs:documentation>
          <xs:documentation xml:lang="en">If a Globus collection is approved and set, then the
 details should be given in globusCollection</xs:documentation>
        </xs:annotation>
        <xs:complexType>
          <xs:sequence>
            <xs:element name="globusEnableSetting" type="xs:boolean" maxOccurs="1" default="false">
              <xs:annotation>
                <xs:documentation xml:lang="en">The current setting for globusEnable (false by
 default)</xs:documentation>
              </xs:annotation>
            </xs:element>
            <xs:element name="requestedValue" type="yesNoMaybeType" maxOccurs="1" default="No">
              <xs:annotation>
                <xs:documentation xml:lang="en">The requested value for globusEnable (No by
 default)</xs:documentation>
              </xs:annotation>
            </xs:element>
            <xs:element name="approvedValue" type="xs:boolean" maxOccurs="1" default="false">
              <xs:annotation>
                <xs:documentation xml:lang="en">The approved value for globusEnable (false by
 default)</xs:documentation>
                <xs:documentation xml:lang="en">The requested value takes yes/no/maybe values, but
 the approved value must be true/false</xs:documentation>
                <xs:documentation xml:lang="en">If approvedValue is true, then globusEnableSetting
 and the approved attribute should also be set to true</xs:documentation>
              </xs:annotation>
            </xs:element>
          </xs:sequence>
          <xs:attribute ref="approved" default="false"/>
        </xs:complexType>
      </xs:element>
      <xs:element name="globusCollection" minOccurs="0" maxOccurs="5">
        <xs:annotation>
          <xs:documentation xml:lang="en">Details for an enabled Globus collection for the project</
xs:documentation>
          <xs:documentation xml:lang="en">If globusEnableSetting is true, then at least one
 globusCollection value set should be given</xs:documentation>
          <xs:documentation xml:lang="en">If no Globus collection is approved, then this field
 should be omitted</xs:documentation>
        </xs:annotation>
        <xs:complexType>
          <xs:sequence>
            <xs:element name="globusName" type="titleLimitType" minOccurs="1" maxOccurs="1">
              <xs:annotation>
                <xs:documentation xml:lang="en">The Globus collection name (required)</
xs:documentation>
                <xs:documentation xml:lang="en">The naming convention is "Princeton TigerData -
 parent-folder/project-folder"</xs:documentation>
              </xs:annotation>
            </xs:element>
            <xs:element name="globusUUID" type="uuidType" minOccurs="1" maxOccurs="1">
              <xs:annotation>
                <xs:documentation xml:lang="en">The Globus collection universally unique identifier
 (required)</xs:documentation>
                <xs:documentation xml:lang="en">The value is expected to be 32 hexadecimal digits in
 8-4-4-4-12 format</xs:documentation>
              </xs:annotation>
            </xs:element>
            <xs:element name="globusOwner" type="userType" minOccurs="1" maxOccurs="1">
              <xs:annotation>
                <xs:documentation xml:lang="en">The Globus collection owner, given as a TigerData
 userType (required)</xs:documentation>
                <xs:documentation xml:lang="en">The owner is typically the project's Data Manager</
xs:documentation>
              </xs:annotation>
            </xs:element>
            <xs:element name="globusURL" type="xs:anyURI" minOccurs="0" maxOccurs="1">
              <xs:annotation>
                <xs:documentation xml:lang="en">The Globus collection URL (optional)</
xs:documentation>
                <xs:documentation xml:lang="en">The expected format for a Globus collection URL is
 https://app.globus.org/file-manager?origin_id=[uuid]</xs:documentation>
              </xs:annotation>
            </xs:element>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
    </xs:sequence>
    <xs:attribute ref="inherited" fixed="false"/>
```

```
    <xs:attribute ref="discoverable" fixed="false"/>
    <xs:attribute ref="trackingLevel" fixed="InternalUseOnly"/>
  </xs:complexType>
</xs:element>
```

Element storageAndAccess / accessPoints / hpcEnable

Namespace	No namespace
Annotations	Whether a project is enabled for access on HPC systems (via NFS) By default, projects do not get set up for access on HPC systems, but if both SMB and Globus are disabled, then HPC enabling may be necessary
Diagram	
Properties	content: complex minOccurs: 1 maxOccurs: 1
Model	hpcEnableSetting , requestedValue , approvedValue
Children	approvedValue, hpcEnableSetting, requestedValue

Instance	`<hpcEnable approved="false">`
	`  <hpcEnableSetting>{1,1}</hpcEnableSetting>`
	`  <requestedValue>{1,1}</requestedValue>`
	`  <approvedValue>{1,1}</approvedValue>`
	`</hpcEnable>`

Attributes

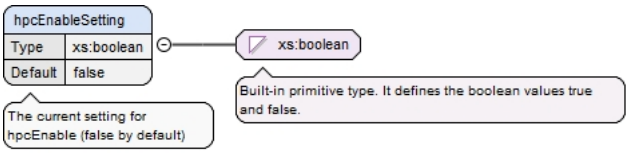
QName	Type	Default	Use	
approved	xs:boolean	false	optional	
	Standard attribute to specify whether a given field has an approved value Applies to fields which have a request-approval framework, including projectDirectory, storageCapacity, and storagePerformance			

Source

```
<xs:element name="hpcEnable" minOccurs="1" maxOccurs="1">
  <xs:annotation>
    <xs:documentation xml:lang="en">Whether a project is enabled for access on HPC systems (via
 NFS)</xs:documentation>
    <xs:documentation xml:lang="en">By default, projects do not get set up for access on
 HPC systems, but if both SMB and Globus are disabled, then HPC enabling may be necessary</
xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:sequence>
      <xs:element name="hpcEnableSetting" type="xs:boolean" maxOccurs="1" default="false">
        <xs:annotation>
          <xs:documentation xml:lang="en">The current setting for hpcEnable (false by default)</
xs:documentation>
        </xs:annotation>
```

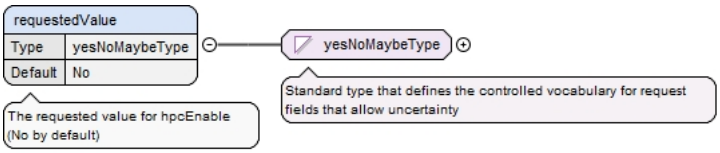
```
      </xs:element>
      <xs:element name="requestedValue" type="yesNoMaybeType" maxOccurs="1" default="No">
        <xs:annotation>
          <xs:documentation xml:lang="en">The requested value for hpcEnable (No by default)</
xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="approvedValue" type="xs:boolean" maxOccurs="1" default="false">
        <xs:annotation>
          <xs:documentation xml:lang="en">The approved value for smbEnable (false by default)</
xs:documentation>
          <xs:documentation xml:lang="en">The requested value takes yes/no/maybe values, but the
 approved value must be true/false</xs:documentation>
          <xs:documentation xml:lang="en">If approvedValue is true, then hpcEnableSetting and the
 approved attribute should also be set to true</xs:documentation>
        </xs:annotation>
      </xs:element>
    </xs:sequence>
    <xs:attribute ref="approved" default="false"/>
  </xs:complexType>
</xs:element>
```

Element storageAndAccess / accessPoints / hpcEnable / hpcEnableSetting

Namespace	No namespace
Annotations	The current setting for hpcEnable (false by default)
Diagram	
Type	xs:boolean
Properties	content: simple maxOccurs: 1 default: false

Source	`<xs:element name="hpcEnableSetting" type="xs:boolean" maxOccurs="1" default="false">`
	`  <xs:annotation>`
	`  <xs:documentation xml:lang="en">The current setting for hpcEnable (false by default)</xs:documentation>`
	`  </xs:annotation>`
	`</xs:element>`

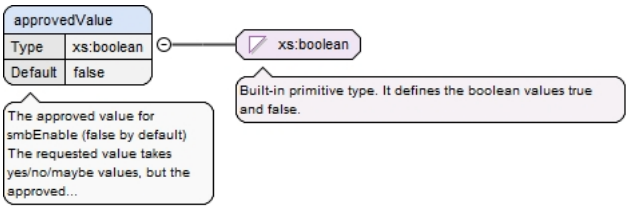
Element storageAndAccess / accessPoints / hpcEnable / requestedValue

Namespace	No namespace
Annotations	The requested value for hpcEnable (No by default)
Diagram	
Type	yesNoMaybeType
Properties	content: simple maxOccurs: 1 default: No
Facets	enumeration: No — The requester does not need the option (typically, the default) Usually, when approved, applied as a false setting enumeration: Yes — The requester needs the option Usually, when approved, applied as a true setting enumeration: Maybe — The requester is unsure whether they will need the option

	More conversation may be required to clarify before approval

Source	`<xs:element name="requestedValue" type="yesNoMaybeType" maxOccurs="1" default="No">`
	`  <xs:annotation>`
	`  <xs:documentation xml:lang="en">The requested value for hpcEnable (No by default)</xs:documentation>`
	`  </xs:annotation>`
	`</xs:element>`

Element storageAndAccess / accessPoints / hpcEnable / approvedValue

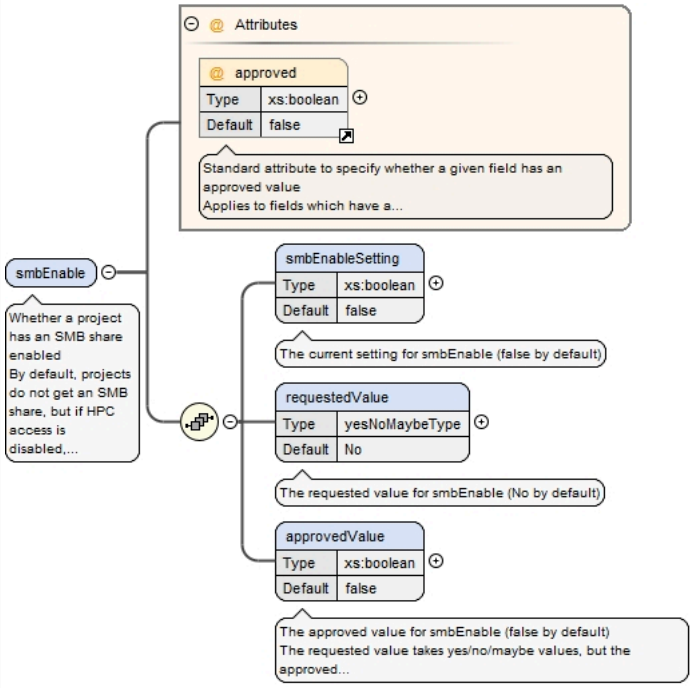
Namespace	No namespace
Annotations	The approved value for smbEnable (false by default) The requested value takes yes/no/maybe values, but the approved value must be true/false If approvedValue is true, then hpcEnableSetting and the approved attribute should also be set to true
Diagram	
Type	xs:boolean
Properties	content: simple maxOccurs: 1 default: false

Source	`<xs:element name="approvedValue" type="xs:boolean" maxOccurs="1" default="false">`
	`  <xs:annotation>`
	`  <xs:documentation xml:lang="en">The approved value for smbEnable (false by default)</xs:documentation>`
	`  <xs:documentation xml:lang="en">The requested value takes yes/no/maybe values, but the approved value must be true/false</xs:documentation>`
	`  <xs:documentation xml:lang="en">If approvedValue is true, then hpcEnableSetting and the approved attribute should also be set to true</xs:documentation>`
	`  </xs:annotation>`
	`</xs:element>`

Element storageAndAccess / accessPoints / smbEnable

Namespace	No namespace
Annotations	Whether a project has an SMB share enabled By default, projects do not get an SMB share, but if HPC access is disabled, then smbEnable is likely needed If an SMB share is approved and set, then the SMB path should be included in projectDirectoryPath

Diagram



Properties

content:	complex
minOccurs:	1
maxOccurs:	1

Model

smbEnableSetting , requestedValue , approvedValue

Children

approvedValue, requestedValue, smbEnableSetting

Instance

```
<smbEnable approved="false">
  <smbEnableSetting>{1,1}</smbEnableSetting>
  <requestedValue>{1,1}</requestedValue>
  <approvedValue>{1,1}</approvedValue>
</smbEnable>
```

Attributes

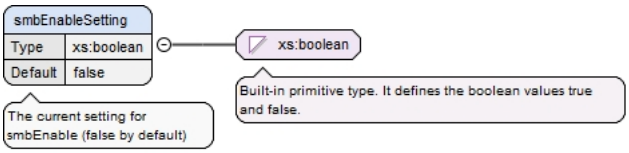
QName	Type	Default	Use	
approved	xs:boolean	false	optional	
	Standard attribute to specify whether a given field has an approved value Applies to fields which have a request-approval framework, including projectDirectory, storageCapacity, and storagePerformance			

Source

```
<xs:element name="smbEnable" minOccurs="1" maxOccurs="1">
  <xs:annotation>
    <xs:documentation xml:lang="en">Whether a project has an SMB share enabled</xs:documentation>
    <xs:documentation xml:lang="en">By default, projects do not get an SMB share, but if HPC access
 is disabled, then smbEnable is likely needed</xs:documentation>
    <xs:documentation xml:lang="en">If an SMB share is approved and set, then the SMB path should be
 included in projectDirectoryPath</xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:sequence>
      <xs:element name="smbEnableSetting" type="xs:boolean" maxOccurs="1" default="false">
        <xs:annotation>
          <xs:documentation xml:lang="en">The current setting for smbEnable (false by default)</
xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="requestedValue" type="yesNoMaybeType" maxOccurs="1" default="No">
        <xs:annotation>
          <xs:documentation xml:lang="en">The requested value for smbEnable (No by default)</
xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="approvedValue" type="xs:boolean" maxOccurs="1" default="false">
        <xs:annotation>
          <xs:documentation xml:lang="en">The approved value for smbEnable (false by default)</
xs:documentation>
          <xs:documentation xml:lang="en">The requested value takes yes/no/maybe values, but the
 approved value must be true/false</xs:documentation>
```

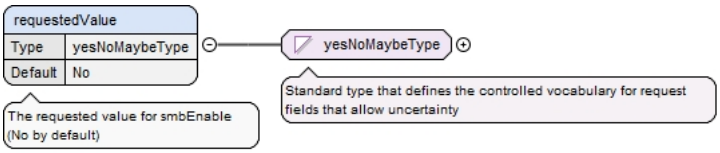
```
          <xs:documentation xml:lang="en">If approvedValue is true, then smbEnableSetting and the approved attribute should also be set to true</xs:documentation>
        </xs:annotation>
      </xs:element>
    </xs:sequence>
    <xs:attribute ref="approved" default="false"/>
  </xs:complexType>
</xs:element>
```

Element storageAndAccess / accessPoints / smbEnable / smbEnableSetting

Namespace	No namespace
Annotations	The current setting for smbEnable (false by default)
Diagram	
Type	xs:boolean
Properties	content: simple maxOccurs: 1 default: false

Source	`<xs:element name="smbEnableSetting" type="xs:boolean" maxOccurs="1" default="false">`
	`  <xs:annotation>`
	`  <xs:documentation xml:lang="en">The current setting for smbEnable (false by default)</xs:documentation>`
	`  </xs:annotation>`
	`</xs:element>`

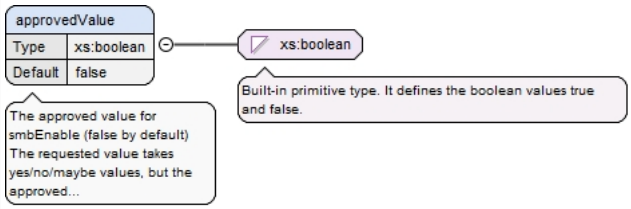
Element storageAndAccess / accessPoints / smbEnable / requestedValue

Namespace	No namespace
Annotations	The requested value for smbEnable (No by default)
Diagram	
Type	yesNoMaybeType
Properties	content: simple maxOccurs: 1 default: No
Facets	enumeration: No — The requester does not need the option (typically, the default) Usually, when approved, applied as a false setting enumeration: Yes — The requester needs the option Usually, when approved, applied as a true setting enumeration: Maybe — The requester is unsure whether they will need the option More conversation may be required to clarify before approval

Source	`<xs:element name="requestedValue" type="yesNoMaybeType" maxOccurs="1" default="No">`
	`  <xs:annotation>`
	`  <xs:documentation xml:lang="en">The requested value for smbEnable (No by default)</xs:documentation>`
	`  </xs:annotation>`
	`</xs:element>`

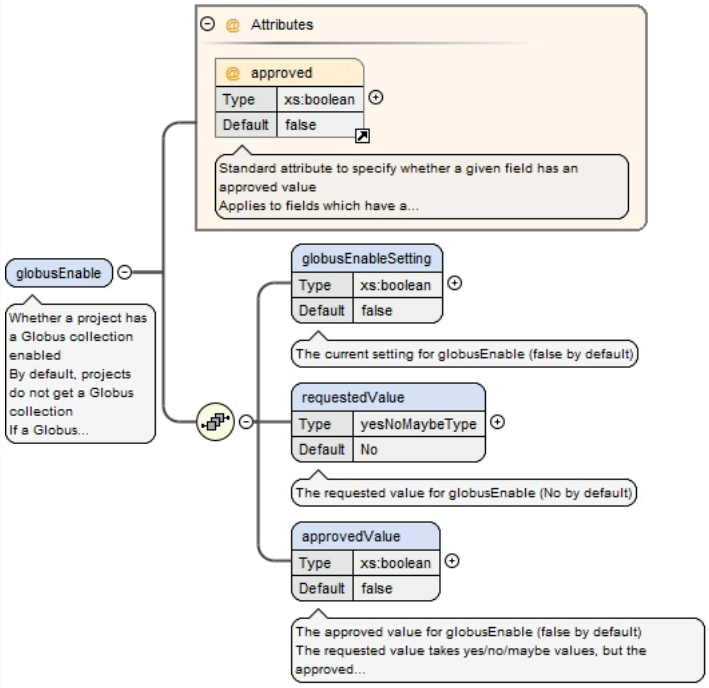
Element storageAndAccess / accessPoints / smbEnable / approvedValue

Namespace	No namespace

Annotations	The approved value for smbEnable (false by default) The requested value takes yes/no/maybe values, but the approved value must be true/false If approvedValue is true, then smbEnableSetting and the approved attribute should also be set to true
Diagram	
Type	xs:boolean
Properties	content: simple maxOccurs: 1 default: false

Source	`<xs:element name="approvedValue" type="xs:boolean" maxOccurs="1" default="false">`
	`  <xs:annotation>`
	`  <xs:documentation xml:lang="en">The approved value for smbEnable (false by default)</xs:documentation>`
	`  <xs:documentation xml:lang="en">The requested value takes yes/no/maybe values, but the approved value must be true/false</xs:documentation>`
	`  <xs:documentation xml:lang="en">If approvedValue is true, then smbEnableSetting and the approved attribute should also be set to true</xs:documentation>`
	`  </xs:annotation>`
	`</xs:element>`

Element storageAndAccess / accessPoints / globusEnable

Namespace	No namespace
Annotations	Whether a project has a Globus collection enabled By default, projects do not get a Globus collection If a Globus collection is approved and set, then the details should be given in globusCollection
Diagram	
Properties	content: complex minOccurs: 1 maxOccurs: 1
Model	globusEnableSetting , requestedValue , approvedValue

Children	approvedValue, globusEnableSetting, requestedValue

Instance

```
<globusEnable approved="false">
  <globusEnableSetting>{1,1}</globusEnableSetting>
  <requestedValue>{1,1}</requestedValue>
  <approvedValue>{1,1}</approvedValue>
</globusEnable>
```

Attributes

QName	Type	Default	Use	
approved	xs:boolean	false	optional	
	Standard attribute to specify whether a given field has an approved value Applies to fields which have a request-approval framework, including projectDirectory, storageCapacity, and storagePerformance			

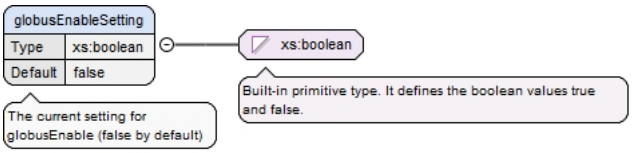
Source

```
<xs:element name="globusEnable" minOccurs="1" maxOccurs="1">
  <xs:annotation>
    <xs:documentation xml:lang="en">Whether a project has a Globus collection enabled</
xs:documentation>
    <xs:documentation xml:lang="en">By default, projects do not get a Globus collection</
xs:documentation>
    <xs:documentation xml:lang="en">If a Globus collection is approved and set, then the details
 should be given in globusCollection</xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:sequence>
      <xs:element name="globusEnableSetting" type="xs:boolean" maxOccurs="1" default="false">
        <xs:annotation>
          <xs:documentation xml:lang="en">The current setting for globusEnable (false by default)</
xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="requestedValue" type="yesNoMaybeType" maxOccurs="1" default="No">
        <xs:annotation>
          <xs:documentation xml:lang="en">The requested value for globusEnable (No by default)</
xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="approvedValue" type="xs:boolean" maxOccurs="1" default="false">
        <xs:annotation>
          <xs:documentation xml:lang="en">The approved value for globusEnable (false by default)</
xs:documentation>
          <xs:documentation xml:lang="en">The requested value takes yes/no/maybe values, but the
 approved value must be true/false</xs:documentation>
          <xs:documentation xml:lang="en">If approvedValue is true, then globusEnableSetting and the
 approved attribute should also be set to true</xs:documentation>
        </xs:annotation>
      </xs:element>
    </xs:sequence>
    <xs:attribute ref="approved" default="false"/>
  </xs:complexType>
</xs:element>
```

Element storageAndAccess / accessPoints / globusEnable / globusEnableSetting

Namespace	No namespace
Annotations	The current setting for globusEnable (false by default)

Diagram



Type	xs:boolean

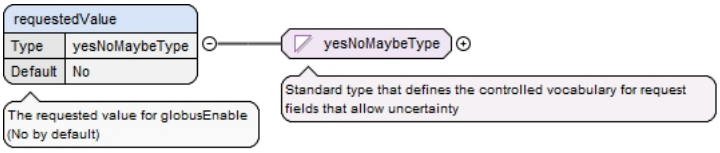
Properties

content:	simple
maxOccurs:	1
default:	false

Source

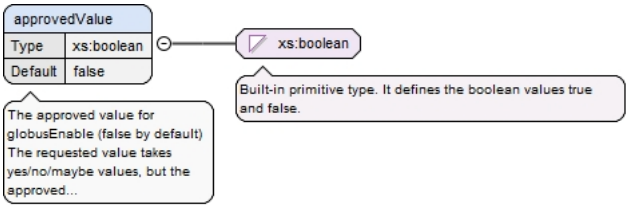
```
<xs:element name="globusEnableSetting" type="xs:boolean" maxOccurs="1" default="false">
  <xs:annotation>
    <xs:documentation xml:lang="en">The current setting for globusEnable (false by default)</
xs:documentation>
  </xs:annotation>
</xs:element>
```

Element storageAndAccess / accessPoints / globusEnable / requestedValue

Namespace	No namespace
Annotations	The requested value for globusEnable (No by default)
Diagram	
Type	yesNoMaybeType
Properties	content: simple maxOccurs: 1 default: No
Facets	enumeration: No — The requester does not need the option (typically, the default) Usually, when approved, applied as a false setting enumeration: Yes — The requester needs the option Usually, when approved, applied as a true setting enumeration: Maybe — The requester is unsure whether they will need the option More conversation may be required to clarify before approval

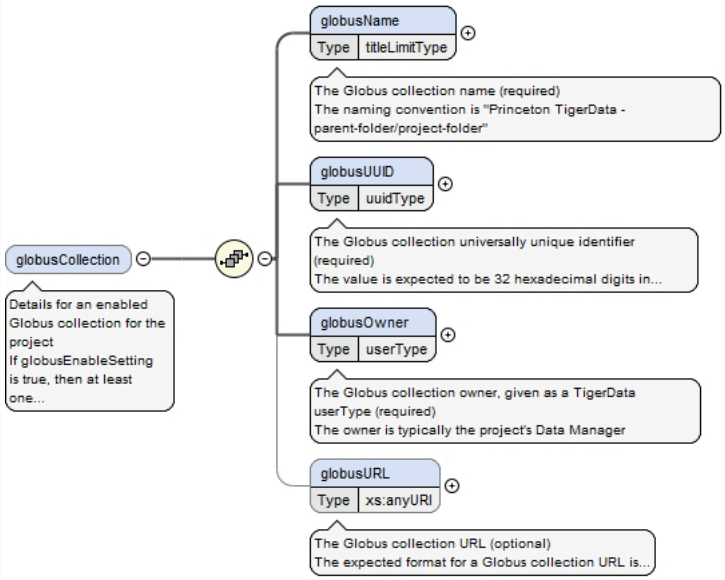
Source	`<xs:element name="requestedValue" type="yesNoMaybeType" maxOccurs="1" default="No">`
	`  <xs:annotation>`
	`  <xs:documentation xml:lang="en">The requested value for globusEnable (No by default)</xs:documentation>`
	`  </xs:annotation>`
	`</xs:element>`

Element storageAndAccess / accessPoints / globusEnable / approvedValue

Namespace	No namespace
Annotations	The approved value for globusEnable (false by default) The requested value takes yes/no/maybe values, but the approved value must be true/false If approvedValue is true, then globusEnableSetting and the approved attribute should also be set to true
Diagram	
Type	xs:boolean
Properties	content: simple maxOccurs: 1 default: false

Source	`<xs:element name="approvedValue" type="xs:boolean" maxOccurs="1" default="false">`
	`  <xs:annotation>`
	`  <xs:documentation xml:lang="en">The approved value for globusEnable (false by default)</xs:documentation>`
	`  <xs:documentation xml:lang="en">The requested value takes yes/no/maybe values, but the approved value must be true/false</xs:documentation>`
	`  <xs:documentation xml:lang="en">If approvedValue is true, then globusEnableSetting and the approved attribute should also be set to true</xs:documentation>`
	`  </xs:annotation>`
	`</xs:element>`

Element storageAndAccess / accessPoints / globusCollection

Namespace	No namespace
Annotations	Details for an enabled Globus collection for the project If globusEnableSetting is true, then at least one globusCollection value set should be given If no Globus collection is approved, then this field should be omitted
Diagram	
Properties	content: complex minOccurs: 0 maxOccurs: 5
Model	globusName , globusUUID , globusOwner , globusURL{0,1}
Children	globusName, globusOwner, globusURL, globusUUID

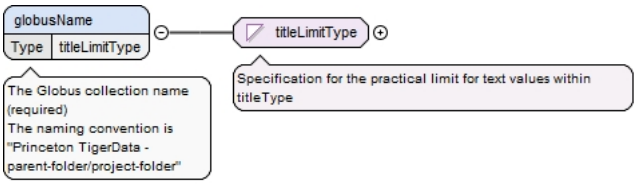
Instance	`<globusCollection>`
	`  <globusName>{1,1}</globusName>`
	`  <globusUUID>{1,1}</globusUUID>`
	`  <globusOwner userID="" userIDType="NetID">{1,1}</globusOwner>`
	`  <globusURL>{0,1}</globusURL>`
	`</globusCollection>`

Source

```
<xs:element name="globusCollection" minOccurs="0" maxOccurs="5">
  <xs:annotation>
    <xs:documentation xml:lang="en">Details for an enabled Globus collection for the project</
xs:documentation>
    <xs:documentation xml:lang="en">If globusEnableSetting is true, then at least one
 globusCollection value set should be given</xs:documentation>
    <xs:documentation xml:lang="en">If no Globus collection is approved, then this field should be
 omitted</xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:sequence>
      <xs:element name="globusName" type="titleLimitType" minOccurs="1" maxOccurs="1">
        <xs:annotation>
          <xs:documentation xml:lang="en">The Globus collection name (required)</xs:documentation>
          <xs:documentation xml:lang="en">The naming convention is "Princeton TigerData - parent-
folder/project-folder"</xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="globusUUID" type="uuidType" minOccurs="1" maxOccurs="1">
        <xs:annotation>
          <xs:documentation xml:lang="en">The Globus collection universally unique identifier
 (required)</xs:documentation>
          <xs:documentation xml:lang="en">The value is expected to be 32 hexadecimal digits in
 8-4-4-4-12 format</xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="globusOwner" type="userType" minOccurs="1" maxOccurs="1">
        <xs:annotation>
          <xs:documentation xml:lang="en">The Globus collection owner, given as a TigerData userType
 (required)</xs:documentation>
```

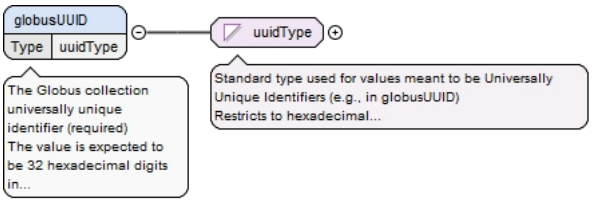
```
          <xs:documentation xml:lang="en">The owner is typically the project's Data Manager</
xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="globusURL" type="xs:anyURI" minOccurs="0" maxOccurs="1">
        <xs:annotation>
          <xs:documentation xml:lang="en">The Globus collection URL (optional)</xs:documentation>
          <xs:documentation xml:lang="en">The expected format for a Globus collection URL is
 https://app.globus.org/file-manager?origin_id=[uuid]</xs:documentation>
        </xs:annotation>
      </xs:element>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

Element storageAndAccess / accessPoints / globusCollection / globusName

Namespace	No namespace
Annotations	The Globus collection name (required) The naming convention is "Princeton TigerData - parent-folder/project-folder"
Diagram	
Type	titleLimitType
Properties	content: simple minOccurs: 1 maxOccurs: 1
Facets	minLength 1 maxLength 200

Source	`<xs:element name="globusName" type="titleLimitType" minOccurs="1" maxOccurs="1">`
	`  <xs:annotation>`
	`  <xs:documentation xml:lang="en">The Globus collection name (required)</xs:documentation>`
	`  <xs:documentation xml:lang="en">The naming convention is "Princeton TigerData - parent-folder/ project-folder"</xs:documentation>`
	`  </xs:annotation>`
	`</xs:element>`

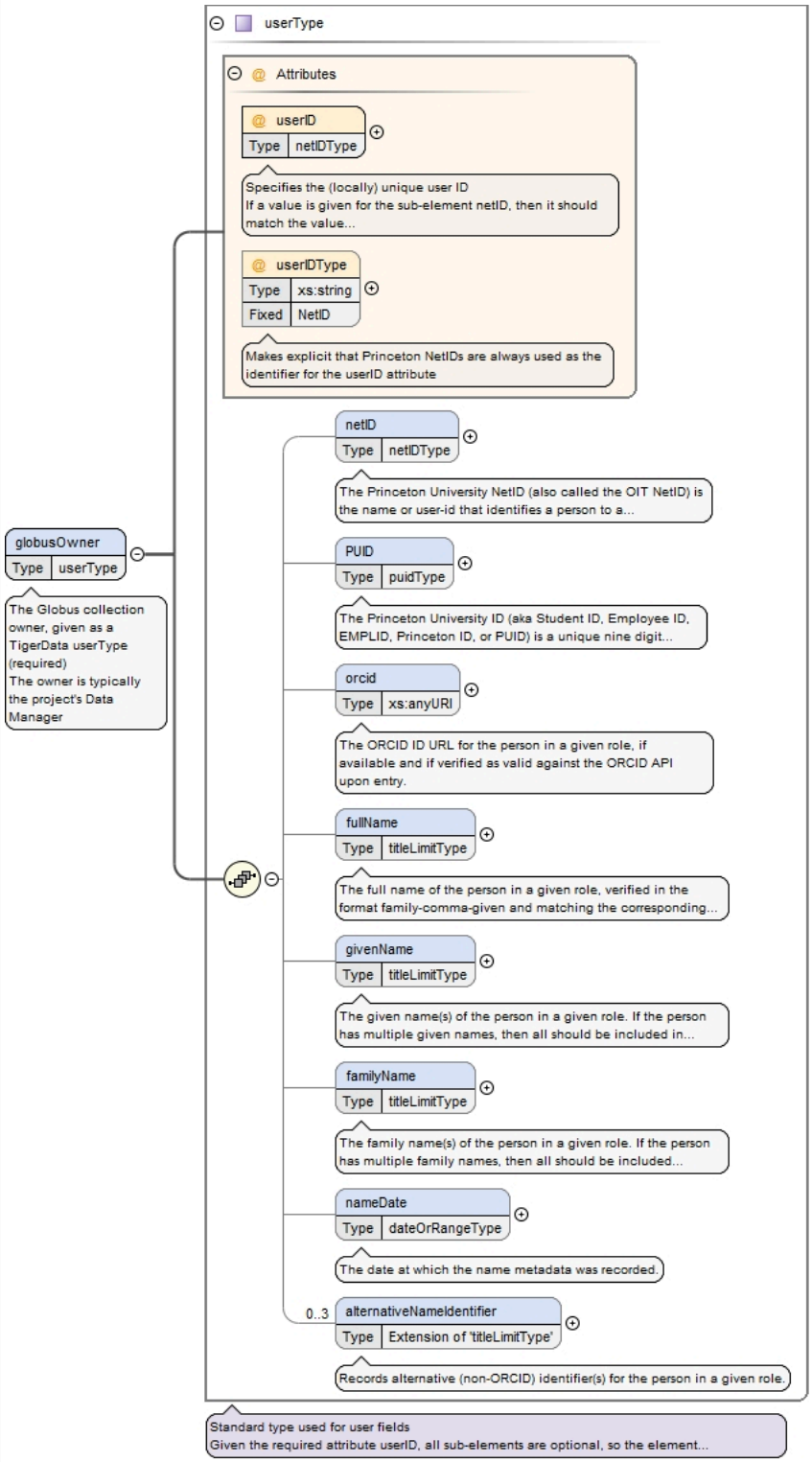
Element storageAndAccess / accessPoints / globusCollection / globusUUID

Namespace	No namespace
Annotations	The Globus collection universally unique identifier (required) The value is expected to be 32 hexadecimal digits in 8-4-4-4-12 format
Diagram	
Type	uuidType
Properties	content: simple minOccurs: 1 maxOccurs: 1
Facets	pattern [0-9a-f\-]{32,36}

Source	`<xs:element name="globusUUID" type="uuidType" minOccurs="1" maxOccurs="1">`
	`  <xs:annotation>`
	`  <xs:documentation xml:lang="en">The Globus collection universally unique identifier (required)</ xs:documentation>`

```
    <xs:documentation xml:lang="en">The value is expected to be 32 hexadecimal digits in 8-4-4-4-12
 format</xs:documentation>
  </xs:annotation>
</xs:element>
```

Element storageAndAccess / accessPoints / globusCollection / globusOwner

Namespace	No namespace
Annotations	The Globus collection owner, given as a TigerData userType (required) The owner is typically the project's Data Manager
Diagram	
Type	userType

Properties	content:	complex
	minOccurs:	1
	maxOccurs:	1
Model	netID{0,1} , PUID{0,1} , orcid{0,1} , fullName{0,1} , givenName{0,1} , familyName{0,1} , nameDate{0,1} , alternativeNameIdentifier{0,3}	
Children	PUID, alternativeNameIdentifier, familyName, fullName, givenName, nameDate, netID, orcid	

Instance

```
<globusOwner userID="" userIDType="NetID">
  <netID>{0,1}</netID>
  <PUID>{0,1}</PUID>
  <orcid>{0,1}</orcid>
  <fullName>{0,1}</fullName>
  <givenName>{0,1}</givenName>
  <familyName>{0,1}</familyName>
  <nameDate>{0,1}</nameDate>
  <alternativeNameIdentifier nameIdentifierSchema="" schemaURI="">{0,3}</alternativeNameIdentifier>
</globusOwner>
```

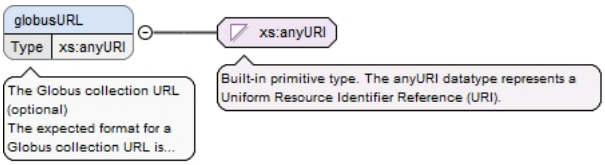
Attributes

QName	Type	Fixed	Use	
userID	netIDType		required	
	Specifies the (locally) unique user ID If a value is given for the sub-element netID, then it should match the value given for userID			
userIDType	xs:string	NetID	optional	
	Makes explicit that Princeton NetIDs are always used as the identifier for the userID attribute			

Source

```
<xs:element name="globusOwner" type="userType" minOccurs="1" maxOccurs="1">
  <xs:annotation>
    <xs:documentation xml:lang="en">The Globus collection owner, given as a TigerData userType
 (required)</xs:documentation>
    <xs:documentation xml:lang="en">The owner is typically the project's Data Manager</
xs:documentation>
  </xs:annotation>
</xs:element>
```

Element storageAndAccess / accessPoints / globusCollection / globusURL

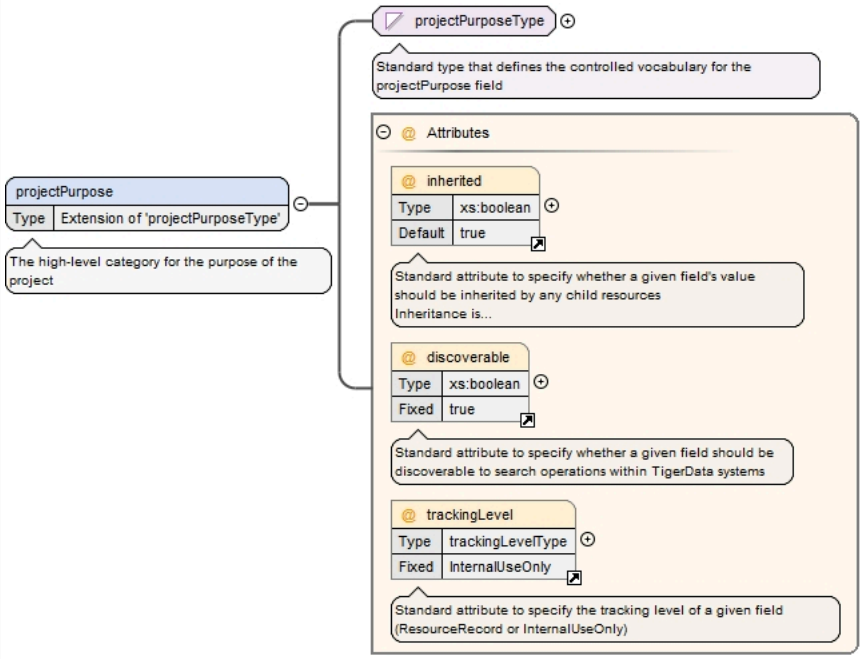
Namespace	No namespace
Annotations	The Globus collection URL (optional) The expected format for a Globus collection URL is https://app.globus.org/file-manager?origin_id=[uuid]
Diagram	
Type	xs:anyURI
Properties	content: simple
	minOccurs: 0
	maxOccurs: 1

Source

```
<xs:element name="globusURL" type="xs:anyURI" minOccurs="0" maxOccurs="1">
  <xs:annotation>
    <xs:documentation xml:lang="en">The Globus collection URL (optional)</xs:documentation>
    <xs:documentation xml:lang="en">The expected format for a Globus collection URL is https://
app.globus.org/file-manager?origin_id=[uuid]</xs:documentation>
  </xs:annotation>
</xs:element>
```

Element additionalProjectInformation / projectPurpose

Namespace	No namespace
Annotations	The high-level category for the purpose of the project

Diagram	
Type	extension of projectPurposeType
Type hierarchy	• xs:string • projectPurposeType
Properties	content: `complex` minOccurs: `1` maxOccurs: `1`

Attributes

QName	Type	Fixed	Default	Use	
discoverable	xs:boolean	true		optional	
	Standard attribute to specify whether a given field should be discoverable to search operations within TigerData systems				
inherited	xs:boolean		true	optional	
	Standard attribute to specify whether a given field's value should be inherited by any child resources Inheritance is limited to the applicability of the field to the child resource (e.g., researchDomain may be inherited by a subproject but not an item)				
trackingLevel	trackingLevelType	InternalUseOnly		optional	
	Standard attribute to specify the tracking level of a given field (ResourceRecord or InternalUseOnly)				

Source

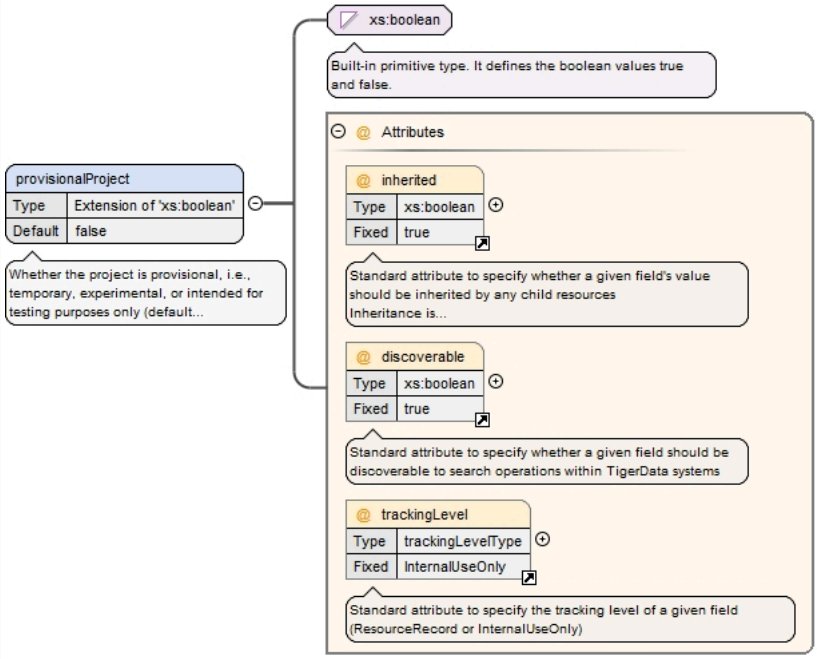
```
<xs:element name="projectPurpose" minOccurs="1" maxOccurs="1">
  <xs:annotation>
    <xs:documentation xml:lang="en">The high-level category for the purpose of the project</
xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:simpleContent>
      <xs:extension base="projectPurposeType">
        <xs:attribute ref="inherited" default="true"/>
        <xs:attribute ref="discoverable" fixed="true"/>
        <xs:attribute ref="trackingLevel" fixed="InternalUseOnly"/>
      </xs:extension>
    </xs:simpleContent>
  </xs:complexType>
</xs:element>
```

Element `additionalProjectInformation / provisionalProject`

Namespace	No namespace
Annotations	Whether the project is provisional, i.e., temporary, experimental, or intended for testing purposes only (default false)

```
If the value is true, then limitations may be placed on other fields, e.g. storageCapacity,
 storagePerformance, and endDate

If the value is false, then the project is considered standard and the provisional limitations are
 not imposed

Whether provisional or standard, the same fields are required for all projects
```

Diagram



Type: extension of xs:boolean

Properties

content:	complex
minOccurs:	1
maxOccurs:	1
default:	false

Attributes

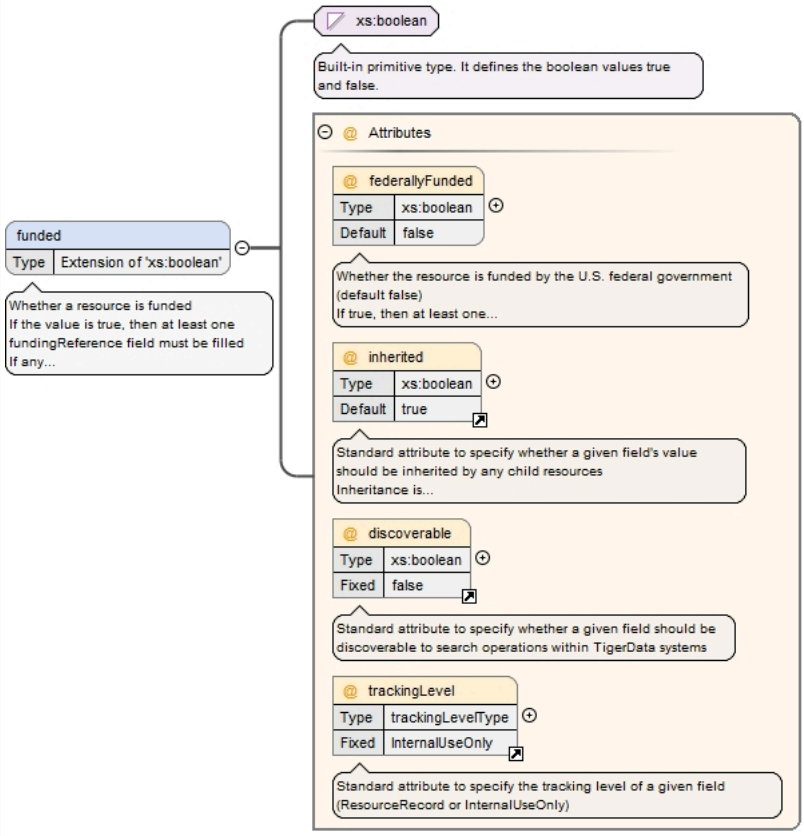
QName	Type	Fixed	Use	
discoverable	xs:boolean	true	optional	
	Standard attribute to specify whether a given field should be discoverable to search operations within TigerData systems			
inherited	xs:boolean	true	optional	
	Standard attribute to specify whether a given field's value should be inherited by any child resources Inheritance is limited to the applicability of the field to the child resource (e.g., researchDomain may be inherited by a subproject but not an item)			
trackingLevel	trackingLevelType	InternalUseOnly	optional	
	Standard attribute to specify the tracking level of a given field (ResourceRecord or InternalUseOnly)			

Source

```
<xs:element name="provisionalProject" minOccurs="1" maxOccurs="1" default="false">
  <xs:annotation>
    <xs:documentation xml:lang="en">Whether the project is provisional, i.e., temporary,
 experimental, or intended for testing purposes only (default false)</xs:documentation>
    <xs:documentation xml:lang="en">If the value is true, then limitations may be placed on other
 fields, e.g. storageCapacity, storagePerformance, and endDate</xs:documentation>
    <xs:documentation xml:lang="en">If the value is false, then the project is considered standard
 and the provisional limitations are not imposed</xs:documentation>
    <xs:documentation xml:lang="en">Whether provisional or standard, the same fields are required
 for all projects</xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:simpleContent>
      <xs:extension base="xs:boolean">
        <xs:attribute ref="inherited" fixed="true"/>
        <xs:attribute ref="discoverable" fixed="true"/>
        <xs:attribute ref="trackingLevel" fixed="InternalUseOnly"/>
      </xs:extension>
```

```
    </xs:simpleContent>
  </xs:complexType>
</xs:element>
```

Element additionalProjectInformation / funded

Namespace	No namespace
Annotations	Whether a resource is funded If the value is true, then at least one fundingReference field must be filled If any subproject or item contained in a project has a fundingReference, then this field should be set to true
Diagram	
Type	extension of xs:boolean
Properties	content: complex minOccurs: 0 maxOccurs: 1

Attributes

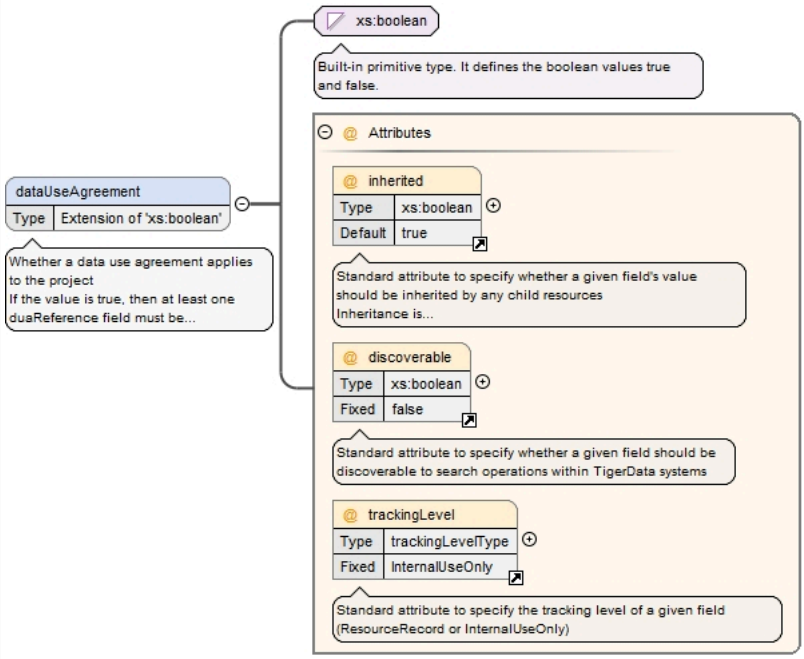
QName	Type	Fixed	Default	Use	
discoverable	xs:boolean	false		optional	
	Standard attribute to specify whether a given field should be discoverable to search operations within TigerData systems				
federallyFunded	xs:boolean		false	optional	
	Whether the resource is funded by the U.S. federal government (default false) If true, then at least one fundingReference must have the federalFunder attribute set to true				
inherited	xs:boolean		true	optional	
	Standard attribute to specify whether a given field's value should be inherited by any child resources Inheritance is limited to the applicability of the field to the child resource (e.g., researchDomain may be inherited by a subproject but not an item)				
trackingLevel	trackingLevelType	InternalUseOnly		optional	

	QName	Type	Fixed	Default	Use	
		Standard attribute to specify the tracking level of a given field (ResourceRecord or InternalUseOnly)				

Source

```
<xs:element name="funded" minOccurs="0" maxOccurs="1">
  <xs:annotation>
    <xs:documentation xml:lang="en">Whether a resource is funded</xs:documentation>
    <xs:documentation xml:lang="en">If the value is true, then at least one fundingReference field
 must be filled</xs:documentation>
    <xs:documentation xml:lang="en">If any subproject or item contained in a project has a
 fundingReference, then this field should be set to true</xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:simpleContent>
      <xs:extension base="xs:boolean">
        <xs:attribute name="federallyFunded" type="xs:boolean" default="false">
          <xs:annotation>
            <xs:documentation xml:lang="en">Whether the resource is funded by the U.S. federal
 government (default false)</xs:documentation>
            <xs:documentation xml:lang="en">If true, then at least one fundingReference must have
 the federalFunder attribute set to true</xs:documentation>
          </xs:annotation>
        </xs:attribute>
        <xs:attribute ref="inherited" default="true"/>
        <xs:attribute ref="discoverable" fixed="false"/>
        <xs:attribute ref="trackingLevel" fixed="InternalUseOnly"/>
      </xs:extension>
    </xs:simpleContent>
  </xs:complexType>
</xs:element>
```

Element additionalProjectInformation / dataUseAgreement

Namespace	No namespace
Annotations	Whether a data use agreement applies to the project If the value is true, then at least one duaReference field must be filled If any subproject or item contained in a project has a duaReference, then this field should be set to true
Diagram	
Type	extension of xs:boolean
Properties	content: complex minOccurs: 0 maxOccurs: 1
Attributes	

QName	Type	Fixed	Default	Use
discoverable	xs:boolean	false		optional

QName	Type	Fixed	Default	Use	
	Standard attribute to specify whether a given field should be discoverable to search operations within TigerData systems				
inherited	xs:boolean		true	optional	
	Standard attribute to specify whether a given field's value should be inherited by any child resources Inheritance is limited to the applicability of the field to the child resource (e.g., researchDomain may be inherited by a subproject but not an item)				
trackingLevel	trackingLevelType	InternalUseOnly		optional	
	Standard attribute to specify the tracking level of a given field (ResourceRecord or InternalUseOnly)				

Source

```
<xs:element name="dataUseAgreement" minOccurs="0" maxOccurs="1">
  <xs:annotation>
    <xs:documentation xml:lang="en">Whether a data use agreement applies to the project</
xs:documentation>
    <xs:documentation xml:lang="en">If the value is true, then at least one duaReference field must
 be filled</xs:documentation>
    <xs:documentation xml:lang="en">If any subproject or item contained in a project has a
 duaReference, then this field should be set to true</xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:simpleContent>
      <xs:extension base="xs:boolean">
        <xs:attribute ref="inherited" default="true"/>
        <xs:attribute ref="discoverable" fixed="false"/>
        <xs:attribute ref="trackingLevel" fixed="InternalUseOnly"/>
      </xs:extension>
    </xs:simpleContent>
  </xs:complexType>
</xs:element>
```

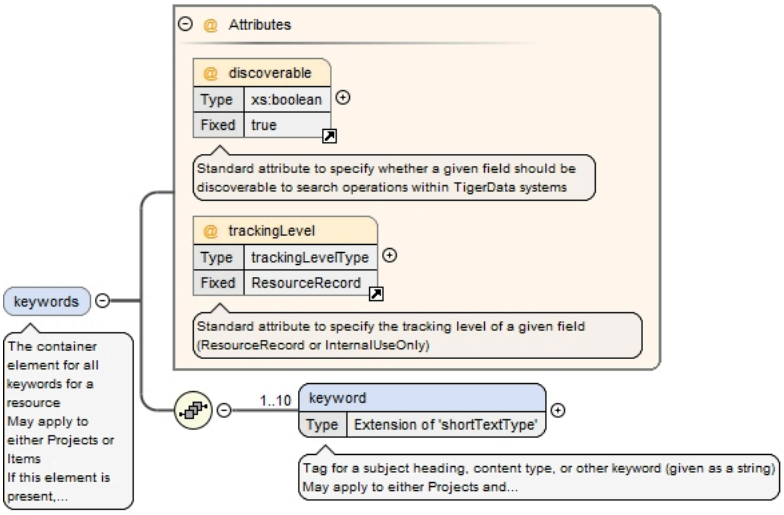
Element supplementalMetadata / keywords

Namespace: No namespace

Annotations:

```
The container element for all keywords for a resource

May apply to either Projects or Items

If this element is present, then it should contain at least one sub-element
```

Diagram



Properties

content:	complex
minOccurs:	0
maxOccurs:	1

Model: keyword{1,10}

Children: keyword

Instance

```
<keywords discoverable="true" trackingLevel="ResourceRecord">
  <keyword classificationCode="" inherited="true" xml:lang="en" subjectSchema="" subjectSchemaURI="" valueURI="">{1
keyword>
```

```
</keywords>
```

Attributes

QName	Type	Fixed	Use	
discoverable	xs:boolean	true	optional	
	Standard attribute to specify whether a given field should be discoverable to search operations within TigerData systems			
trackingLevel	trackingLevelType	ResourceRecord	optional	
	Standard attribute to specify the tracking level of a given field (ResourceRecord or InternalUseOnly)			

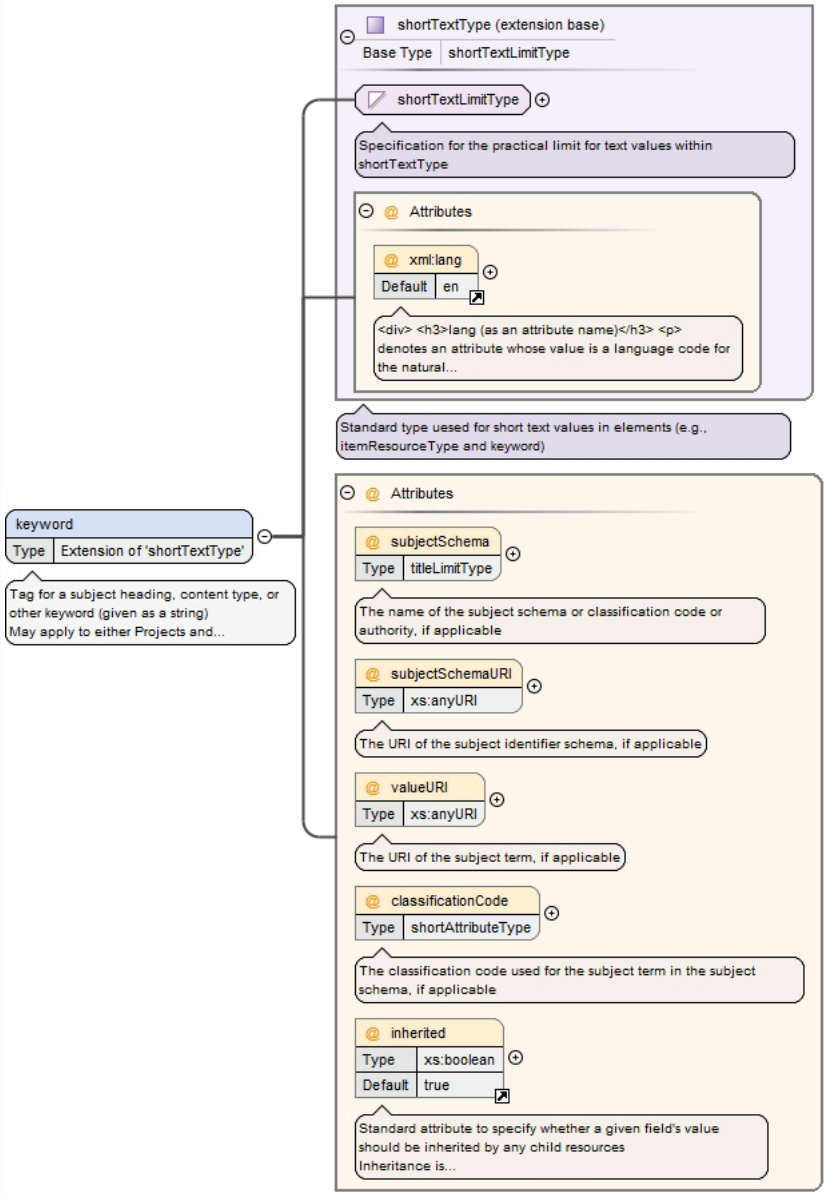
Source

```
<xs:element name="keywords" minOccurs="0" maxOccurs="1">
  <xs:annotation>
    <xs:documentation xml:lang="en">The container element for all keywords for a resource</
xs:documentation>
    <xs:documentation xml:lang="en">May apply to either Projects or Items</xs:documentation>
    <xs:documentation xml:lang="en">If this element is present, then it should contain at least one
 sub-element</xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:sequence>
      <xs:element name="keyword" minOccurs="1" maxOccurs="10">
        <xs:annotation>
          <xs:documentation xml:lang="en">Tag for a subject heading, content type, or other keyword
 (given as a string)</xs:documentation>
          <xs:documentation xml:lang="en">May apply to either Projects and Items</xs:documentation>
          <xs:documentation xml:lang="en">Derived from the DataCite definitions for Subject
 (v4.6+)</xs:documentation>
          <xs:documentation>https://datacite-metadata-schema.readthedocs.io/en/4.6/properties/
subject/</xs:documentation>
        </xs:annotation>
        <xs:complexType>
          <xs:simpleContent>
            <xs:extension base="shortTextType">
              <xs:attribute name="subjectSchema" type="titleLimitType" use="optional">
                <xs:annotation>
                  <xs:documentation xml:lang="en">The name of the subject schema or classification
 code or authority, if applicable</xs:documentation>
                </xs:annotation>
              </xs:attribute>
              <xs:attribute name="subjectSchemaURI" type="xs:anyURI" use="optional">
                <xs:annotation>
                  <xs:documentation xml:lang="en">The URI of the subject identifier schema, if
 applicable</xs:documentation>
                </xs:annotation>
              </xs:attribute>
              <xs:attribute name="valueURI" type="xs:anyURI" use="optional">
                <xs:annotation>
                  <xs:documentation xml:lang="en">The URI of the subject term, if applicable</
xs:documentation>
                </xs:annotation>
              </xs:attribute>
              <xs:attribute name="classificationCode" type="shortAttributeType" use="optional">
                <xs:annotation>
                  <xs:documentation xml:lang="en">The classification code used for the subject term
 in the subject schema, if applicable</xs:documentation>
                </xs:annotation>
              </xs:attribute>
              <xs:attribute ref="inherited" default="true"/>
            </xs:extension>
          </xs:simpleContent>
        </xs:complexType>
      </xs:element>
    </xs:sequence>
    <xs:attribute ref="discoverable" fixed="true"/>
    <xs:attribute ref="trackingLevel" fixed="ResourceRecord"/>
  </xs:complexType>
</xs:element>
```

Element supplementalMetadata / keywords / keyword

Namespace	No namespace
Annotations	Tag for a subject heading, content type, or other keyword (given as a string) May apply to either Projects and Items Derived from the DataCite definitions for Subject (v4.6+) https://datacite-metadata-schema.readthedocs.io/en/4.6/properties/subject/

Diagram



Type	extension of shortTextType

Type hierarchy	• xs:string
	  • shortTextLimitType
	  • shortTextType

Properties

content:	`complex`
minOccurs:	`1`
maxOccurs:	`10`

Attributes

QName	Type	Default	Use	
classificationCode	shortAttributeType		optional	
	`The classification code used for the subject term in the subject schema, if applicable`			
inherited	xs:boolean	true	optional	

	`Standard attribute to specify whether a given field's value should be inherited by any child resources`
	
	`Inheritance is limited to the applicability of the field to the child resource (e.g., researchDomain may be inherited by a subproject but not an item)`			

subjectSchema	titleLimitType		optional	

QName	Type	Default	Use	
	The name of the subject schema or classification code or authority, if applicable			
subjectSchemaURI	xs:anyURI		optional	
	The URI of the subject identifier schema, if applicable			
valueURI	xs:anyURI		optional	
	The URI of the subject term, if applicable			
xml:lang	union of(xs:language, restriction of xs:string)	en	optional	
	 <h3>lang (as an attribute name)</h3> denotes an attribute whose value is a language code for the natural language of the content of any element; its value is inherited. This name is reserved by virtue of its definition in the XML specification. <h4>Notes</h4> Attempting to install the relevant ISO 2- and 3-letter codes as the enumerated possible values is probably never going to be a realistic possibility. See BCP 47 at <a href="http://www.rfc-editor.org/rfc/bcp/bcp47.txt">http://www.rfc-editor.org/rfc/bcp/bcp47.txt</a>and the IANA language subtag registry at <a href="http://www.iana.org/assignments/language-subtag-registry">http://www.iana.org/assignments/language-subtag-registry</a>for further information. The union allows for the 'un-declaration' of xml:lang with the empty string. 			

Source

```
<xs:element name="keyword" minOccurs="1" maxOccurs="10">
  <xs:annotation>
    <xs:documentation xml:lang="en">Tag for a subject heading, content type, or other keyword (given
 as a string)</xs:documentation>
    <xs:documentation xml:lang="en">May apply to either Projects and Items</xs:documentation>
    <xs:documentation xml:lang="en">Derived from the DataCite definitions for Subject (v4.6+)</
xs:documentation>
    <xs:documentation>https://datacite-metadata-schema.readthedocs.io/en/4.6/properties/subject/</
xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:simpleContent>
      <xs:extension base="shortTextType">
        <xs:attribute name="subjectSchema" type="titleLimitType" use="optional">
          <xs:annotation>
            <xs:documentation xml:lang="en">The name of the subject schema or classification code or
 authority, if applicable</xs:documentation>
          </xs:annotation>
        </xs:attribute>
        <xs:attribute name="subjectSchemaURI" type="xs:anyURI" use="optional">
          <xs:annotation>
            <xs:documentation xml:lang="en">The URI of the subject identifier schema, if
 applicable</xs:documentation>
          </xs:annotation>
        </xs:attribute>
        <xs:attribute name="valueURI" type="xs:anyURI" use="optional">
          <xs:annotation>
            <xs:documentation xml:lang="en">The URI of the subject term, if applicable</
xs:documentation>
          </xs:annotation>
        </xs:attribute>
        <xs:attribute name="classificationCode" type="shortAttributeType" use="optional">
          <xs:annotation>
            <xs:documentation xml:lang="en">The classification code used for the subject term in the
 subject schema, if applicable</xs:documentation>
          </xs:annotation>
        </xs:attribute>
        <xs:attribute ref="inherited" default="true"/>
      </xs:extension>
    </xs:simpleContent>
  </xs:complexType>
</xs:element>
```

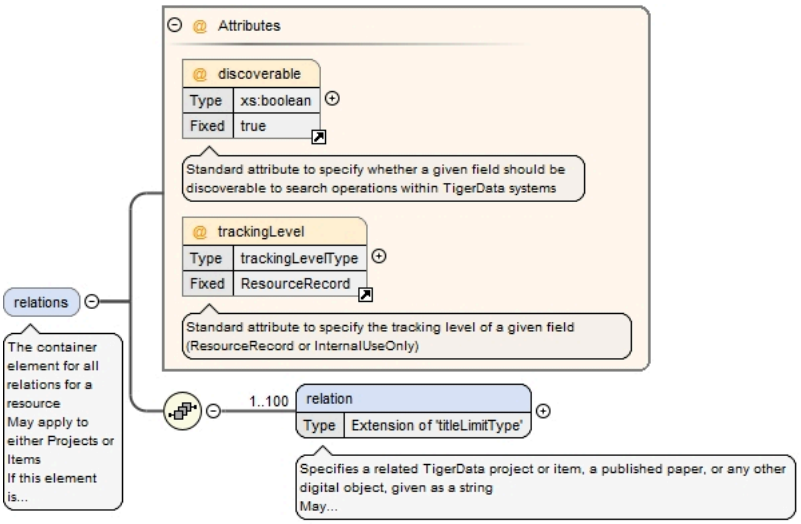
Element supplementalMetadata / relations

Namespace	No namespace
Annotations	The container element for all relations for a resource

May apply to either Projects or Items

If this element is present, then it should contain at least one sub-element

Diagram



Properties

content:	complex
minOccurs:	0
maxOccurs:	1

Model

relation{1,100}

Children

relation

Instance

```
<relations discoverable="true" trackingLevel="ResourceRecord">
  <relation inherited="false" relatedIDType="DOI" relatedMetadataSchema="" relatedMetadataSchemaType="" relatedMeta
relation>
</relations>
```

Attributes

QName	Type	Fixed	Use	
discoverable	xs:boolean	true	optional	
	Standard attribute to specify whether a given field should be discoverable to search operations within TigerData systems			
trackingLevel	trackingLevelType	ResourceRecord	optional	
	Standard attribute to specify the tracking level of a given field (ResourceRecord or InternalUseOnly)			

Source

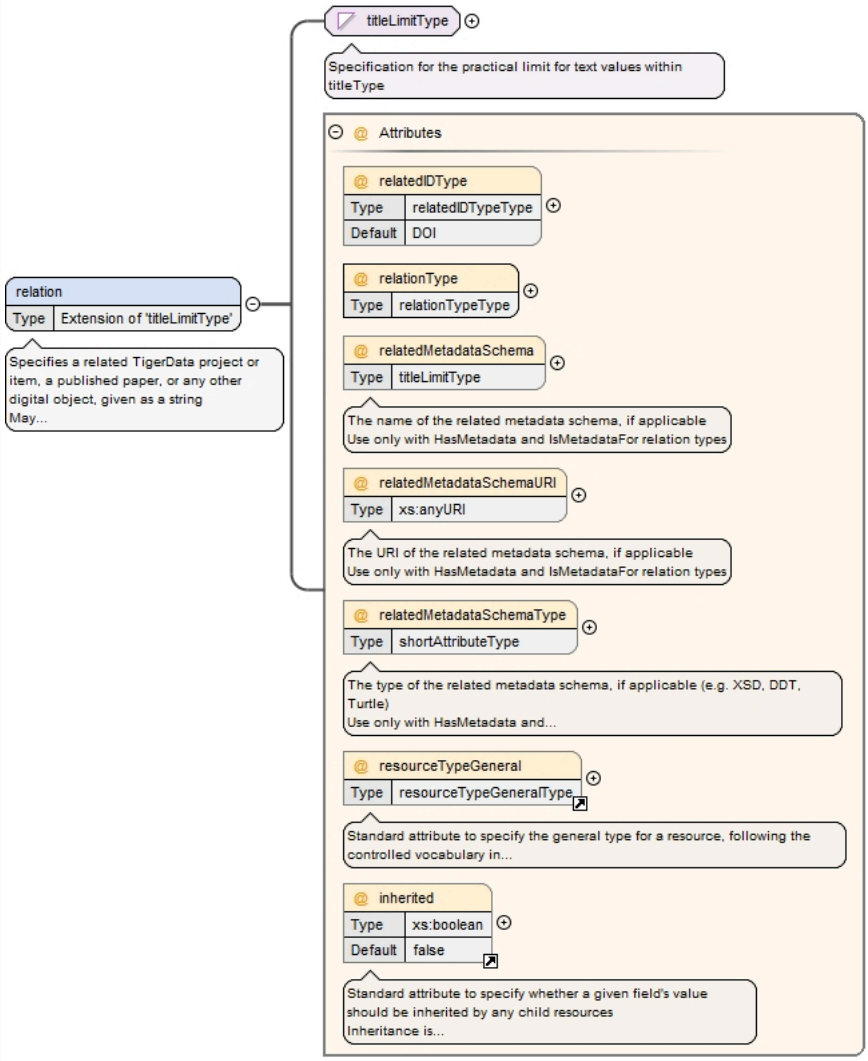
```
<xs:element name="relations" minOccurs="0" maxOccurs="1">
  <xs:annotation>
    <xs:documentation xml:lang="en">The container element for all relations for a resource</
xs:documentation>
    <xs:documentation xml:lang="en">May apply to either Projects or Items</xs:documentation>
    <xs:documentation xml:lang="en">If this element is present, then it should contain at least one
 sub-element</xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:sequence>
      <xs:element name="relation" minOccurs="1" maxOccurs="100">
        <xs:annotation>
          <xs:documentation xml:lang="en">Specifies a related TigerData project or item, a published
 paper, or any other digital object, given as a string</xs:documentation>
          <xs:documentation xml:lang="en">May apply to either Projects or Items</xs:documentation>
          <xs:documentation xml:lang="en">Derived from the DataCite definitions for
 RelatedIdentifier (v4.6+)</xs:documentation>
          <xs:documentation>https://datacite-metadata-schema.readthedocs.io/en/4.6/properties/
relatedidentifier/</xs:documentation>
        </xs:annotation>
        <xs:complexType>
          <xs:simpleContent>
            <xs:extension base="titleLimitType">
              <xs:attribute name="relatedIDType" type="relatedIDTypeType" default="DOI"/>
              <xs:attribute name="relationType" type="relationTypeType" use="required"/>
              <xs:attribute name="relatedMetadataSchema" type="titleLimitType" use="optional">
                <xs:annotation>
                  <xs:documentation xml:lang="en">The name of the related metadata schema, if
 applicable</xs:documentation>
                  <xs:documentation xml:lang="en">Use only with HasMetadata and IsMetadataFor
 relation types</xs:documentation>
```

```
                  </xs:annotation>
                </xs:attribute>
                <xs:attribute name="relatedMetadataSchemaURI" type="xs:anyURI" use="optional">
                  <xs:annotation>
                    <xs:documentation xml:lang="en">The URI of the related metadata schema, if
 applicable</xs:documentation>
                    <xs:documentation xml:lang="en">Use only with HasMetadata and IsMetadataFor
 relation types</xs:documentation>
                  </xs:annotation>
                </xs:attribute>
                <xs:attribute name="relatedMetadataSchemaType" type="shortAttributeType"
 use="optional">
                  <xs:annotation>
                    <xs:documentation xml:lang="en">The type of the related metadata schema, if
 applicable (e.g. XSD, DDT, Turtle)</xs:documentation>
                    <xs:documentation xml:lang="en">Use only with HasMetadata and IsMetadataFor
 relation types</xs:documentation>
                  </xs:annotation>
                </xs:attribute>
                <xs:attribute ref="resourceTypeGeneral" use="optional"/>
                <xs:attribute ref="inherited" default="false"/>
              </xs:extension>
            </xs:simpleContent>
          </xs:complexType>
        </xs:element>
      </xs:sequence>
      <xs:attribute ref="discoverable" fixed="true"/>
      <xs:attribute ref="trackingLevel" fixed="ResourceRecord"/>
    </xs:complexType>
  </xs:element>
```

Element supplementalMetadata / relations / relation

Namespace	No namespace
Annotations	Specifies a related TigerData project or item, a published paper, or any other digital object, given as a string May apply to either Projects or Items Derived from the DataCite definitions for RelatedIdentifier (v4.6+) https://datacite-metadata-schema.readthedocs.io/en/4.6/properties/relatedidentifier/

Diagram



Type: extension of titleLimitType

Type hierarchy:
- xs:string
  - titleLimitType

Properties:

content:	`complex`
minOccurs:	`1`
maxOccurs:	`100`

Attributes:

QName	Type	Default	Use	
inherited	xs:boolean	false	optional	

	`Standard attribute to specify whether a given field's value should be inherited by any child resources`
	
	`Inheritance is limited to the applicability of the field to the child resource (e.g., researchDomain may be inherited by a subproject but not an item)`			

relatedIDType	relatedIDTypeType	DOI	optional	
relatedMetadataSchema	titleLimitType		optional	

	`The name of the related metadata schema, if applicable`
	
	`Use only with HasMetadata and IsMetadataFor relation types`			

relatedMetadataSchemaType	shortAttributeType		optional	

	`The type of the related metadata schema, if applicable (e.g. XSD, DDT, Turtle)`
	
	`Use only with HasMetadata and IsMetadataFor relation types`			

QName	Type	Default	Use	
relatedMetadataSchemaURI	xs:anyURI		optional	
	The URI of the related metadata schema, if applicable Use only with HasMetadata and IsMetadataFor relation types			
relationType	relationTypeType		required	
resourceTypeGeneral	resourceTypeGeneralType		optional	
	Standard attribute to specify the general type for a resource, following the controlled vocabulary in resourceTypeGeneralType Derived from the DataCite definition for resourceTypeGeneral (v4.6+)			

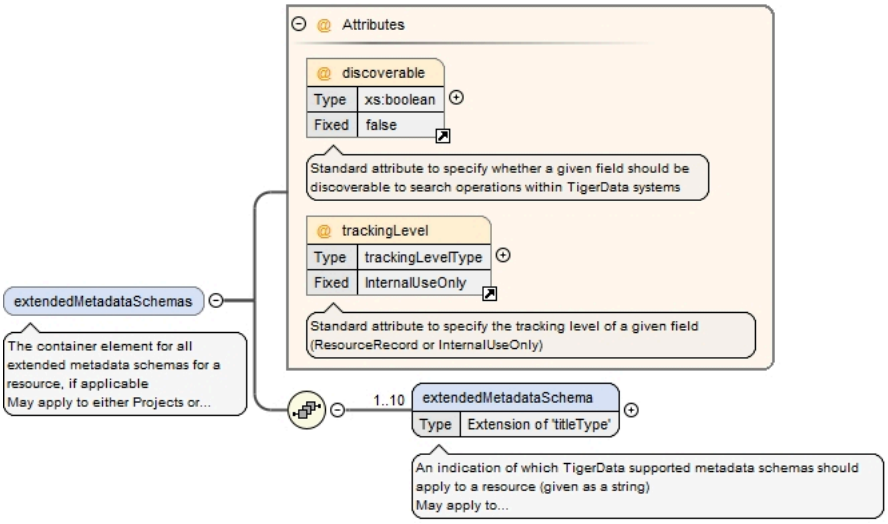
Source

```
<xs:element name="relation" minOccurs="1" maxOccurs="100">
  <xs:annotation>
    <xs:documentation xml:lang="en">Specifies a related TigerData project or item, a published
 paper, or any other digital object, given as a string</xs:documentation>
    <xs:documentation xml:lang="en">May apply to either Projects or Items</xs:documentation>
    <xs:documentation xml:lang="en">Derived from the DataCite definitions for RelatedIdentifier
 (v4.6+)</xs:documentation>
    <xs:documentation>https://datacite-metadata-schema.readthedocs.io/en/4.6/properties/
relatedidentifier/</xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:simpleContent>
      <xs:extension base="titleLimitType">
        <xs:attribute name="relatedIDType" type="relatedIDTypeType" default="DOI"/>
        <xs:attribute name="relationType" type="relationTypeType" use="required"/>
        <xs:attribute name="relatedMetadataSchema" type="titleLimitType" use="optional">
          <xs:annotation>
            <xs:documentation xml:lang="en">The name of the related metadata schema, if applicable</
xs:documentation>
            <xs:documentation xml:lang="en">Use only with HasMetadata and IsMetadataFor relation
 types</xs:documentation>
          </xs:annotation>
        </xs:attribute>
        <xs:attribute name="relatedMetadataSchemaURI" type="xs:anyURI" use="optional">
          <xs:annotation>
            <xs:documentation xml:lang="en">The URI of the related metadata schema, if applicable</
xs:documentation>
            <xs:documentation xml:lang="en">Use only with HasMetadata and IsMetadataFor relation
 types</xs:documentation>
          </xs:annotation>
        </xs:attribute>
        <xs:attribute name="relatedMetadataSchemaType" type="shortAttributeType" use="optional">
          <xs:annotation>
            <xs:documentation xml:lang="en">The type of the related metadata schema, if applicable
 (e.g. XSD, DDT, Turtle)</xs:documentation>
            <xs:documentation xml:lang="en">Use only with HasMetadata and IsMetadataFor relation
 types</xs:documentation>
          </xs:annotation>
        </xs:attribute>
        <xs:attribute ref="resourceTypeGeneral" use="optional"/>
        <xs:attribute ref="inherited" default="false"/>
      </xs:extension>
    </xs:simpleContent>
  </xs:complexType>
</xs:element>
```

Element supplementalMetadata / extendedMetadataSchemas

Namespace	No namespace
Annotations	The container element for all extended metadata schemas for a resource, if applicable May apply to either Projects or Items If this element is present, then it should contain at least one sub-element

Diagram



Properties

content:	complex
minOccurs:	0
maxOccurs:	1

Model

extendedMetadataSchema{1,10}

Children

extendedMetadataSchema

Instance

```
<extendedMetadataSchemas discoverable="false" trackingLevel="InternalUseOnly">
  <extendedMetadataSchema inherited="false" xml:lang="en">{1,10}</extendedMetadataSchema>
</extendedMetadataSchemas>
```

Attributes

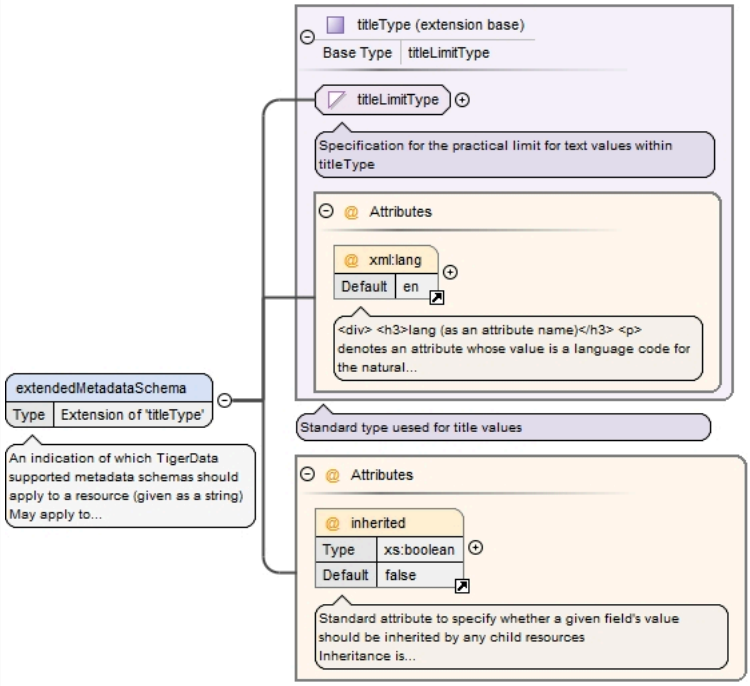
QName	Type	Fixed	Use	
discoverable	xs:boolean	false	optional	
	Standard attribute to specify whether a given field should be discoverable to search operations within TigerData systems			
trackingLevel	trackingLevelType	InternalUseOnly	optional	
	Standard attribute to specify the tracking level of a given field (ResourceRecord or InternalUseOnly)			

Source

```
<xs:element name="extendedMetadataSchemas" minOccurs="0" maxOccurs="1">
  <xs:annotation>
    <xs:documentation xml:lang="en">The container element for all extended metadata schemas for a
 resource, if applicable</xs:documentation>
    <xs:documentation xml:lang="en">May apply to either Projects or Items</xs:documentation>
    <xs:documentation xml:lang="en">If this element is present, then it should contain at least one
 sub-element</xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:sequence>
      <xs:element name="extendedMetadataSchema" minOccurs="1" maxOccurs="10">
        <xs:annotation>
          <xs:documentation xml:lang="en">An indication of which TigerData supported metadata
 schemas should apply to a resource (given as a string)</xs:documentation>
          <xs:documentation xml:lang="en">May apply to either Projects or Items</xs:documentation>
        </xs:annotation>
        <xs:complexType>
          <xs:simpleContent>
            <xs:extension base="titleType">
              <xs:attribute ref="inherited" default="false"/>
            </xs:extension>
          </xs:simpleContent>
        </xs:complexType>
      </xs:element>
    </xs:sequence>
    <xs:attribute ref="discoverable" fixed="false"/>
    <xs:attribute ref="trackingLevel" fixed="InternalUseOnly"/>
  </xs:complexType>
</xs:element>
```

Element supplementalMetadata / extendedMetadataSchemas / extendedMetadataSchema

Namespace	No namespace

Annotations	An indication of which TigerData supported metadata schemas should apply to a resource (given as a string) May apply to either Projects or Items
Diagram	
Type	extension of titleType

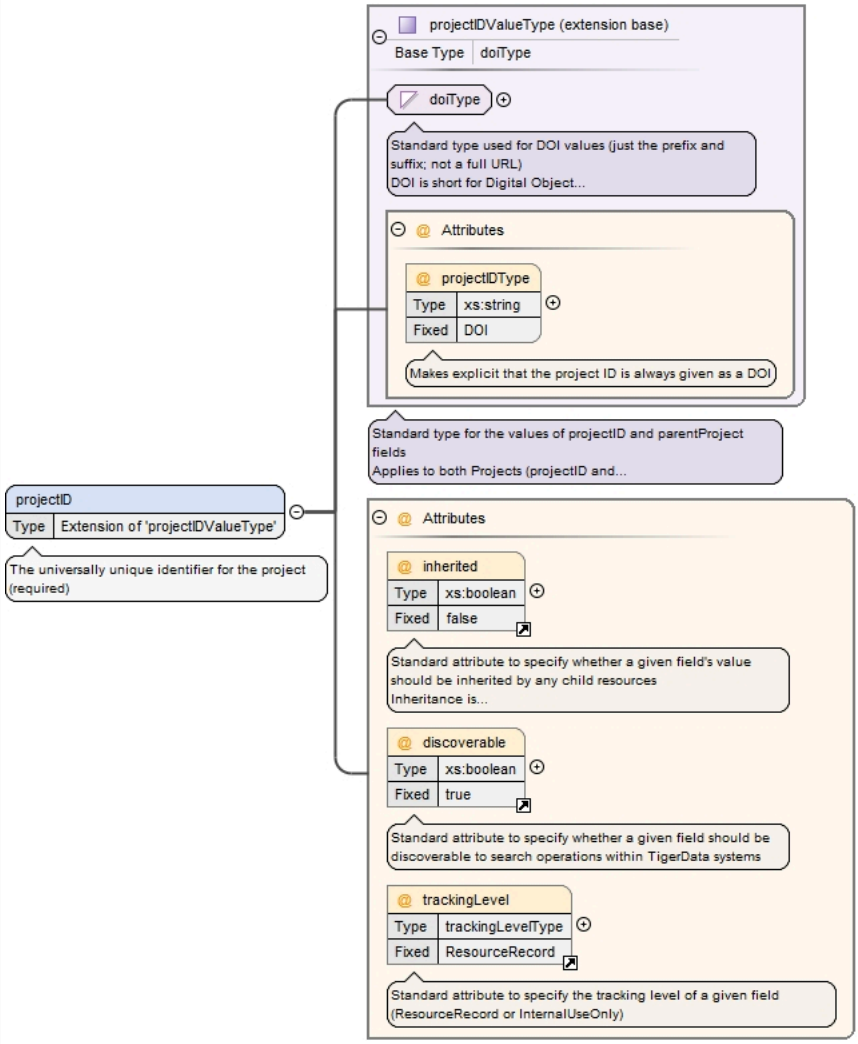
Type hierarchy	• xs:string
	  • titleLimitType
	  • titleType

Properties	content: complex minOccurs: 1 maxOccurs: 10
Attributes	**QName** / **Type** / **Default** / **Use** **inherited** / xs:boolean / false / optional Standard attribute to specify whether a given field's value should be inherited by any child resources Inheritance is limited to the applicability of the field to the child resource (e.g., researchDomain may be inherited by a subproject but not an item) **xml:lang** / union of(xs:language, restriction of xs:string) / en / optional <h3>lang (as an attribute name)</h3> denotes an attribute whose value is a language code for the natural language of the content of any element; its value is inherited. This name is reserved by virtue of its definition in the XML specification. <h4>Notes</h4> Attempting to install the relevant ISO 2- and 3-letter codes as the enumerated possible values is probably never going to be a realistic possibility. See BCP 47 at <a href="http://www.rfc-editor.org/rfc/bcp/bcp47.txt">http://www.rfc-editor.org/rfc/bcp/bcp47.txt</a>and the IANA language subtag registry at <a href="http://www.iana.org/assignments/language-subtag-registry">http://www.iana.org/assignments/language-subtag-registry</a>for further information. The union allows for the 'un-declaration' of xml:lang with the empty string.

Source

```
<xs:element name="extendedMetadataSchema" minOccurs="1" maxOccurs="10">
  <xs:annotation>
    <xs:documentation xml:lang="en">An indication of which TigerData supported metadata schemas
 should apply to a resource (given as a string)</xs:documentation>
    <xs:documentation xml:lang="en">May apply to either Projects or Items</xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:simpleContent>
      <xs:extension base="titleType">
        <xs:attribute ref="inherited" default="false"/>
      </xs:extension>
    </xs:simpleContent>
  </xs:complexType>
</xs:element>
```

Element projectFields / projectID

Namespace	No namespace
Annotations	The universally unique identifier for the project (required)
Diagram	
Type	extension of projectIDValueType

Type hierarchy	• xs:string
	  • doiType
	  • projectIDValueType

Properties	content: complex minOccurs: 1 maxOccurs: 1

Attributes

QName	Type	Fixed	Use	
discoverable	xs:boolean	true	optional	
	Standard attribute to specify whether a given field should be discoverable to search operations within TigerData systems			
inherited	xs:boolean	false	optional	
	Standard attribute to specify whether a given field's value should be inherited by any child resources Inheritance is limited to the applicability of the field to the child resource (e.g., researchDomain may be inherited by a subproject but not an item)			
projectIDType	xs:string	DOI	optional	
	Makes explicit that the project ID is always given as a DOI			
trackingLevel	trackingLevelType	ResourceRecord	optional	
	Standard attribute to specify the tracking level of a given field (ResourceRecord or InternalUseOnly)			

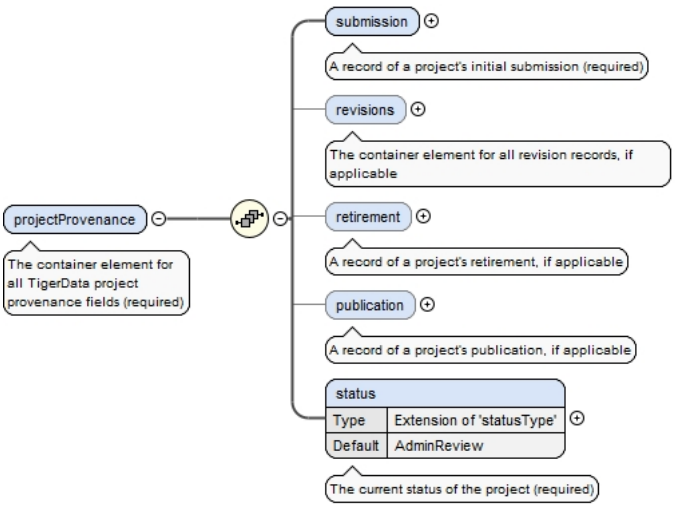
Source

```
<xs:element name="projectID" minOccurs="1" maxOccurs="1">
  <xs:annotation>
    <xs:documentation xml:lang="en">The universally unique identifier for the project (required)</
xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:simpleContent>
      <xs:extension base="projectIDValueType">
        <xs:attribute ref="inherited" fixed="false"/>
        <xs:attribute ref="discoverable" fixed="true"/>
        <xs:attribute ref="trackingLevel" fixed="ResourceRecord"/>
      </xs:extension>
    </xs:simpleContent>
  </xs:complexType>
</xs:element>
```

Element `projectFields / projectProvenance`

Namespace	No namespace
Annotations	The container element for all TigerData project provenance fields (required)

Diagram



Properties

content:	complex
minOccurs:	1
maxOccurs:	1

Model: submission , revisions{0,1} , retirement{0,1} , publication{0,1} , status

Children: publication, retirement, revisions, status, submission

Instance

```
<projectProvenance>
  <submission discoverable="false" inherited="false" trackingLevel="InternalUseOnly">{1,1}</
submission>
  <revisions discoverable="false" trackingLevel="InternalUseOnly">{0,1}</revisions>
  <retirement discoverable="false" inherited="true" trackingLevel="InternalUseOnly">{0,1}</
retirement>
```

```
  <publication discoverable="false" inherited="true" trackingLevel="InternalUseOnly">{0,1}</
publication>
  <status discoverable="true" inherited="false" trackingLevel="InternalUseOnly">{1,1}</status>
</projectProvenance>
```

Source

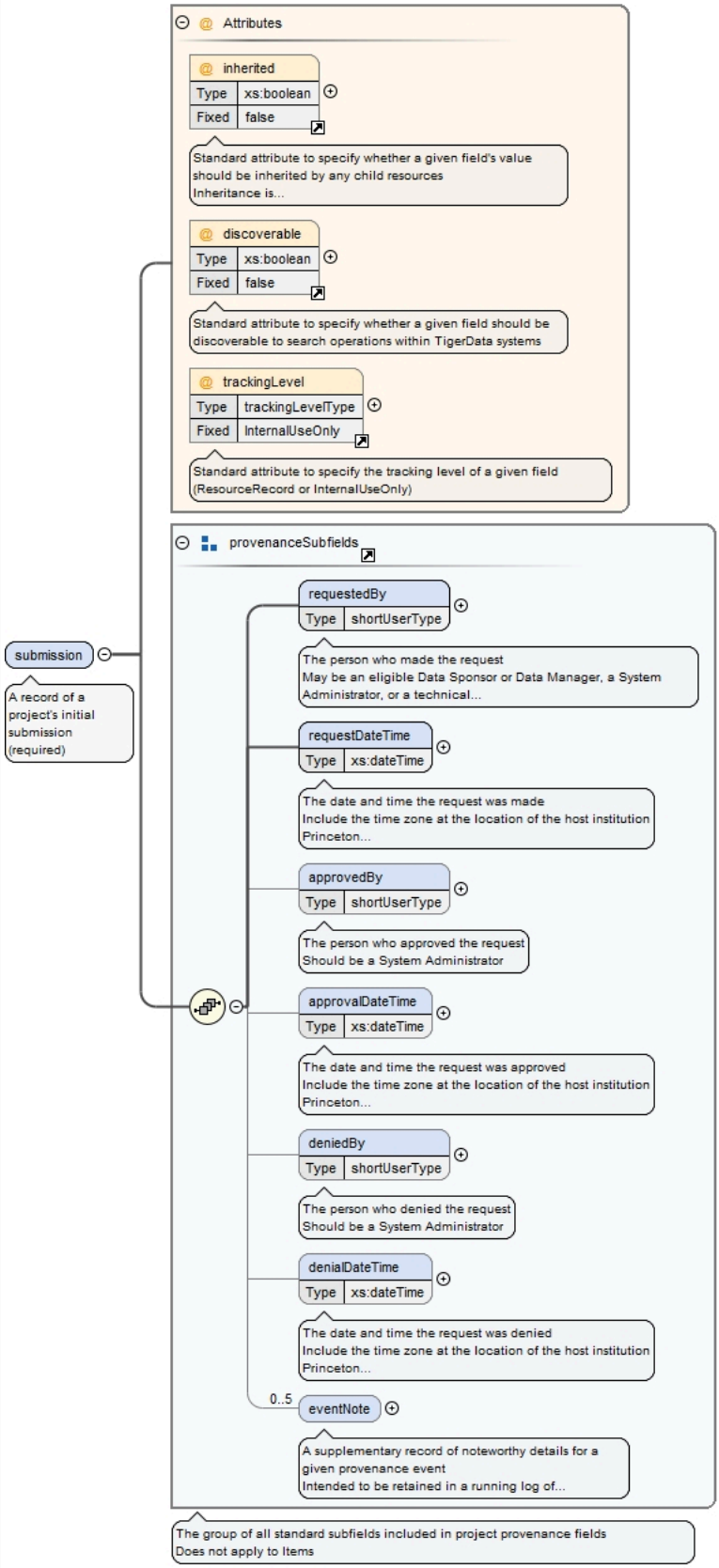
```
<xs:element name="projectProvenance" minOccurs="1" maxOccurs="1">
  <xs:annotation>
    <xs:documentation xml:lang="en">The container element for all TigerData project provenance
 fields (required)</xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:sequence>
      <xs:element name="submission" minOccurs="1" maxOccurs="1">
        <xs:annotation>
          <xs:documentation xml:lang="en">A record of a project's initial submission (required)</
xs:documentation>
        </xs:annotation>
        <xs:complexType>
          <xs:group ref="provenanceSubfields"/>
          <xs:attribute ref="inherited" fixed="false"/>
          <xs:attribute ref="discoverable" fixed="false"/>
          <xs:attribute ref="trackingLevel" fixed="InternalUseOnly"/>
        </xs:complexType>
      </xs:element>
      <xs:element name="revisions" minOccurs="0" maxOccurs="1">
        <xs:annotation>
          <xs:documentation xml:lang="en">The container element for all revision records, if
 applicable</xs:documentation>
        </xs:annotation>
        <xs:complexType>
          <xs:sequence>
            <xs:element name="revision" minOccurs="1" maxOccurs="10">
              <xs:annotation>
                <xs:documentation xml:lang="en">A record of a major revision to an active project</
xs:documentation>
              </xs:annotation>
              <xs:complexType>
                <xs:group ref="provenanceSubfields"/>
                <xs:attribute ref="inherited" default="false"/>
              </xs:complexType>
            </xs:element>
          </xs:sequence>
          <xs:attribute ref="discoverable" fixed="false"/>
          <xs:attribute ref="trackingLevel" fixed="InternalUseOnly"/>
        </xs:complexType>
      </xs:element>
      <xs:element name="retirement" minOccurs="0" maxOccurs="1">
        <xs:annotation>
          <xs:documentation xml:lang="en">A record of a project's retirement, if applicable</
xs:documentation>
        </xs:annotation>
        <xs:complexType>
          <xs:group ref="provenanceSubfields"/>
          <xs:attribute ref="inherited" fixed="true"/>
          <xs:attribute ref="discoverable" fixed="false"/>
          <xs:attribute ref="trackingLevel" fixed="InternalUseOnly"/>
        </xs:complexType>
      </xs:element>
      <xs:element name="publication" minOccurs="0" maxOccurs="1">
        <xs:annotation>
          <xs:documentation xml:lang="en">A record of a project's publication, if applicable</
xs:documentation>
        </xs:annotation>
        <xs:complexType>
          <xs:group ref="provenanceSubfields"/>
          <xs:attribute ref="inherited" fixed="true"/>
          <xs:attribute ref="discoverable" fixed="false"/>
          <xs:attribute ref="trackingLevel" fixed="InternalUseOnly"/>
        </xs:complexType>
      </xs:element>
      <xs:element name="status" minOccurs="1" maxOccurs="1" default="AdminReview">
        <xs:annotation>
          <xs:documentation xml:lang="en">The current status of the project (required)</
xs:documentation>
        </xs:annotation>
        <xs:complexType>
          <xs:simpleContent>
            <xs:extension base="statusType">
              <xs:attribute ref="inherited" default="false"/>
              <xs:attribute ref="discoverable" fixed="true"/>
              <xs:attribute ref="trackingLevel" fixed="InternalUseOnly"/>
            </xs:extension>
          </xs:simpleContent>
```

```
        </xs:complexType>
      </xs:element>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

Element projectFields / projectProvenance / submission

Namespace	No namespace
Annotations	A record of a project’s initial submission (required)

Diagram



Properties

content:	complex
minOccurs:	1
maxOccurs:	1

Model	requestedBy , requestDateTime , approvedBy{0,1} , approvalDateTime{0,1} , deniedBy{0,1} , denialDateTime{0,1} , eventNote{0,5}
Children	approvalDateTime, approvedBy, denialDateTime, deniedBy, eventNote, requestDateTime, requestedBy

Instance	`<submission discoverable="false" inherited="false" trackingLevel="InternalUseOnly">`
	`  <requestedBy userID="" userIDType="NetID">{1,1}</requestedBy>`
	`  <requestDateTime>{1,1}</requestDateTime>`
	`  <approvedBy userID="" userIDType="NetID">{0,1}</approvedBy>`
	`  <approvalDateTime>{0,1}</approvalDateTime>`
	`  <deniedBy userID="" userIDType="NetID">{0,1}</deniedBy>`
	`  <denialDateTime>{0,1}</denialDateTime>`
	`  <eventNote>{0,5}</eventNote>`
	`</submission>`

Attributes

QName	Type	Fixed	Use	
discoverable	xs:boolean	false	optional	
	Standard attribute to specify whether a given field should be discoverable to search operations within TigerData systems			
inherited	xs:boolean	false	optional	
	Standard attribute to specify whether a given field's value should be inherited by any child resources Inheritance is limited to the applicability of the field to the child resource (e.g., researchDomain may be inherited by a subproject but not an item)			
trackingLevel	trackingLevelType	InternalUseOnly	optional	
	Standard attribute to specify the tracking level of a given field (ResourceRecord or InternalUseOnly)			

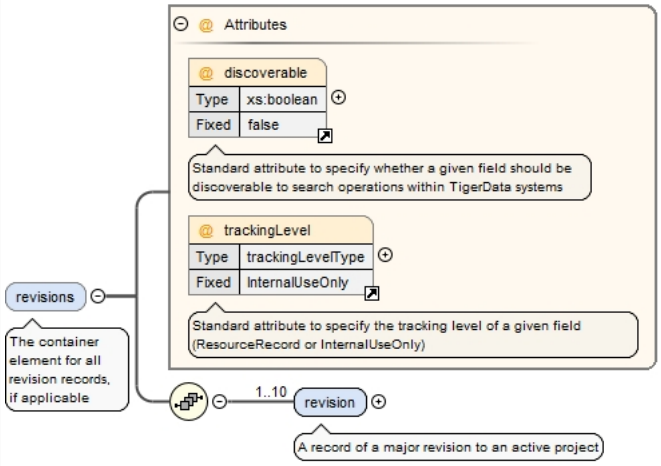
Source

```
<xs:element name="submission" minOccurs="1" maxOccurs="1">
  <xs:annotation>
    <xs:documentation xml:lang="en">A record of a project’s initial submission (required)</
xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:group ref="provenanceSubfields"/>
    <xs:attribute ref="inherited" fixed="false"/>
    <xs:attribute ref="discoverable" fixed="false"/>
    <xs:attribute ref="trackingLevel" fixed="InternalUseOnly"/>
  </xs:complexType>
</xs:element>
```

Element `projectFields / projectProvenance / revisions`

Namespace	No namespace
Annotations	The container element for all revision records, if applicable

Diagram



Properties

content:	complex
minOccurs:	0
maxOccurs:	1

Model	revision{1,10}
Children	revision

Instance	`<revisions discoverable="false" trackingLevel="InternalUseOnly">`
	`  <revision inherited="false">{1,10}</revision>`
	`</revisions>`

Attributes	

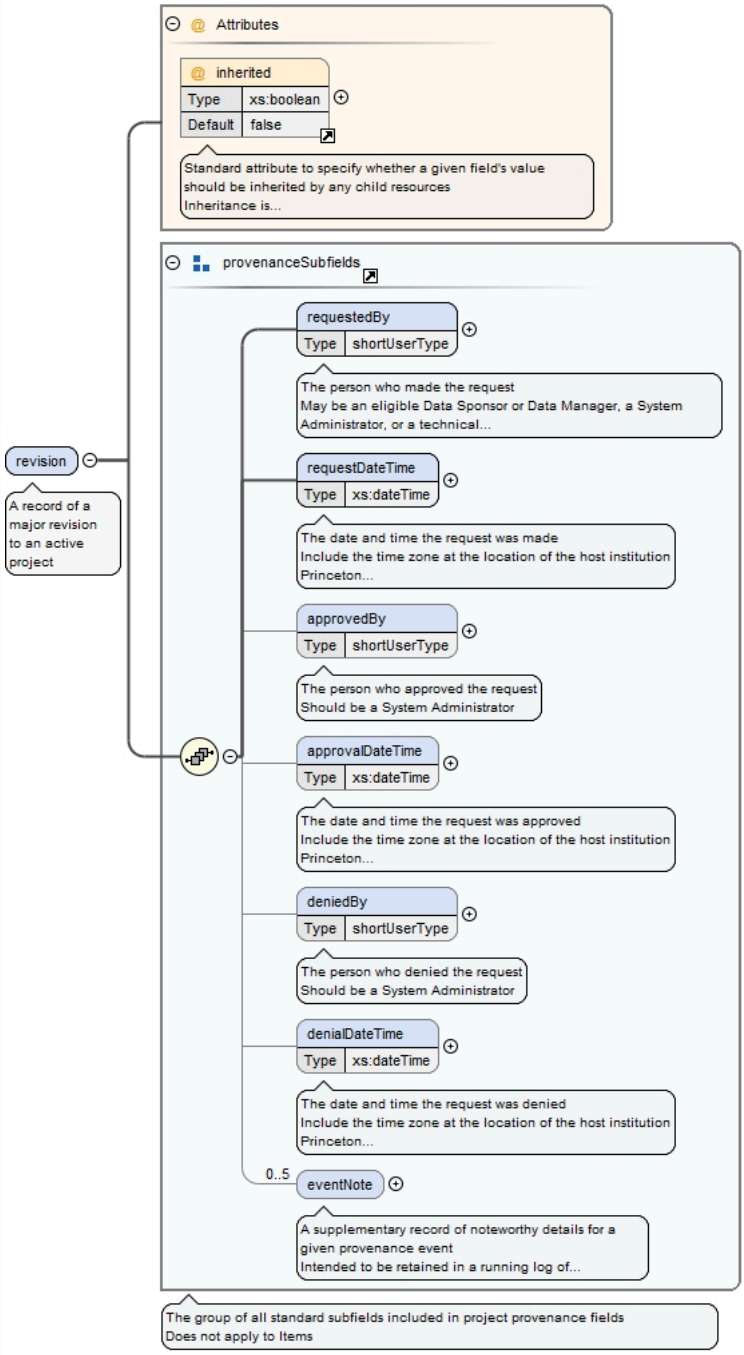
QName	Type	Fixed	Use	
discoverable	xs:boolean	false	optional	
	Standard attribute to specify whether a given field should be discoverable to search operations within TigerData systems			
trackingLevel	trackingLevelType	InternalUseOnly	optional	
	Standard attribute to specify the tracking level of a given field (ResourceRecord or InternalUseOnly)			

Source

```
<xs:element name="revisions" minOccurs="0" maxOccurs="1">
  <xs:annotation>
    <xs:documentation xml:lang="en">The container element for all revision records, if applicable</
xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:sequence>
      <xs:element name="revision" minOccurs="1" maxOccurs="10">
        <xs:annotation>
          <xs:documentation xml:lang="en">A record of a major revision to an active project</
xs:documentation>
        </xs:annotation>
        <xs:complexType>
          <xs:group ref="provenanceSubfields"/>
          <xs:attribute ref="inherited" default="false"/>
        </xs:complexType>
      </xs:element>
    </xs:sequence>
    <xs:attribute ref="discoverable" fixed="false"/>
    <xs:attribute ref="trackingLevel" fixed="InternalUseOnly"/>
  </xs:complexType>
</xs:element>
```

Element `projectFields / projectProvenance / revisions / revision`

Namespace	No namespace
Annotations	A record of a major revision to an active project

Diagram	
Properties	content: complex minOccurs: 1 maxOccurs: 10
Model	requestedBy , requestDateTime , approvedBy{0,1} , approvalDateTime{0,1} , deniedBy{0,1} , denialDateTime{0,1} , eventNote{0,5}
Children	approvalDateTime, approvedBy, denialDateTime, deniedBy, eventNote, requestDateTime, requestedBy

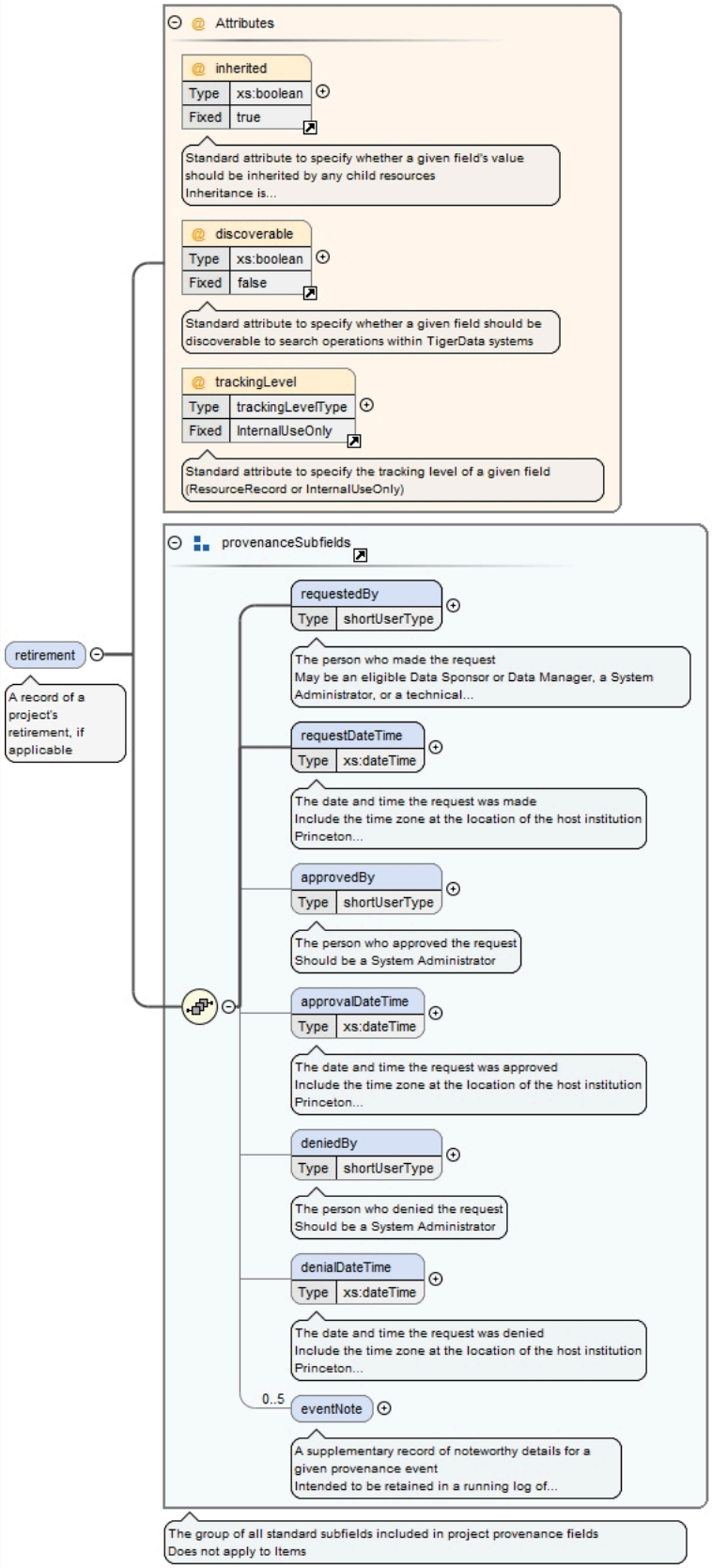
Instance	`<revision inherited="false">`
	`  <requestedBy userID="" userIDType="NetID">{1,1}</requestedBy>`
	`  <requestDateTime>{1,1}</requestDateTime>`
	`  <approvedBy userID="" userIDType="NetID">{0,1}</approvedBy>`
	`  <approvalDateTime>{0,1}</approvalDateTime>`
	`  <deniedBy userID="" userIDType="NetID">{0,1}</deniedBy>`
	`  <denialDateTime>{0,1}</denialDateTime>`
	`  <eventNote>{0,5}</eventNote>`
	`</revision>`

Attributes	**QName**	**Type**	**Default**	**Use**	
	inherited	xs:boolean	false	optional	
		Standard attribute to specify whether a given field's value should be inherited by any child resources Inheritance is limited to the applicability of the field to the child resource (e.g., researchDomain may be inherited by a subproject but not an item)			
Source	<xs:element name="revision" minOccurs="1" maxOccurs="10">
<xs:annotation>
<xs:documentation xml:lang="en">A record of a major revision to an active project</xs:documentation>
</xs:annotation>
<xs:complexType>
<xs:group ref="provenanceSubfields"/>
<xs:attribute ref="inherited" default="false"/>
</xs:complexType>
</xs:element>				

Element projectFields / projectProvenance / retirement

Namespace	No namespace
Annotations	A record of a project’s retirement, if applicable

Diagram



Properties

content:	complex
minOccurs:	0
maxOccurs:	1

Model	requestedBy , requestDateTime , approvedBy{0,1} , approvalDateTime{0,1} , deniedBy{0,1} , denialDateTime{0,1} , eventNote{0,5}
Children	approvalDateTime, approvedBy, denialDateTime, deniedBy, eventNote, requestDateTime, requestedBy

Instance	`<retirement discoverable="false" inherited="true" trackingLevel="InternalUseOnly">`
	`  <requestedBy userID="" userIDType="NetID">{1,1}</requestedBy>`
	`  <requestDateTime>{1,1}</requestDateTime>`
	`  <approvedBy userID="" userIDType="NetID">{0,1}</approvedBy>`
	`  <approvalDateTime>{0,1}</approvalDateTime>`
	`  <deniedBy userID="" userIDType="NetID">{0,1}</deniedBy>`
	`  <denialDateTime>{0,1}</denialDateTime>`
	`  <eventNote>{0,5}</eventNote>`
	`</retirement>`

Attributes

QName	Type	Fixed	Use	
discoverable	xs:boolean	false	optional	
	Standard attribute to specify whether a given field should be discoverable to search operations within TigerData systems			
inherited	xs:boolean	true	optional	
	Standard attribute to specify whether a given field's value should be inherited by any child resources Inheritance is limited to the applicability of the field to the child resource (e.g., researchDomain may be inherited by a subproject but not an item)			
trackingLevel	trackingLevelType	InternalUseOnly	optional	
	Standard attribute to specify the tracking level of a given field (ResourceRecord or InternalUseOnly)			

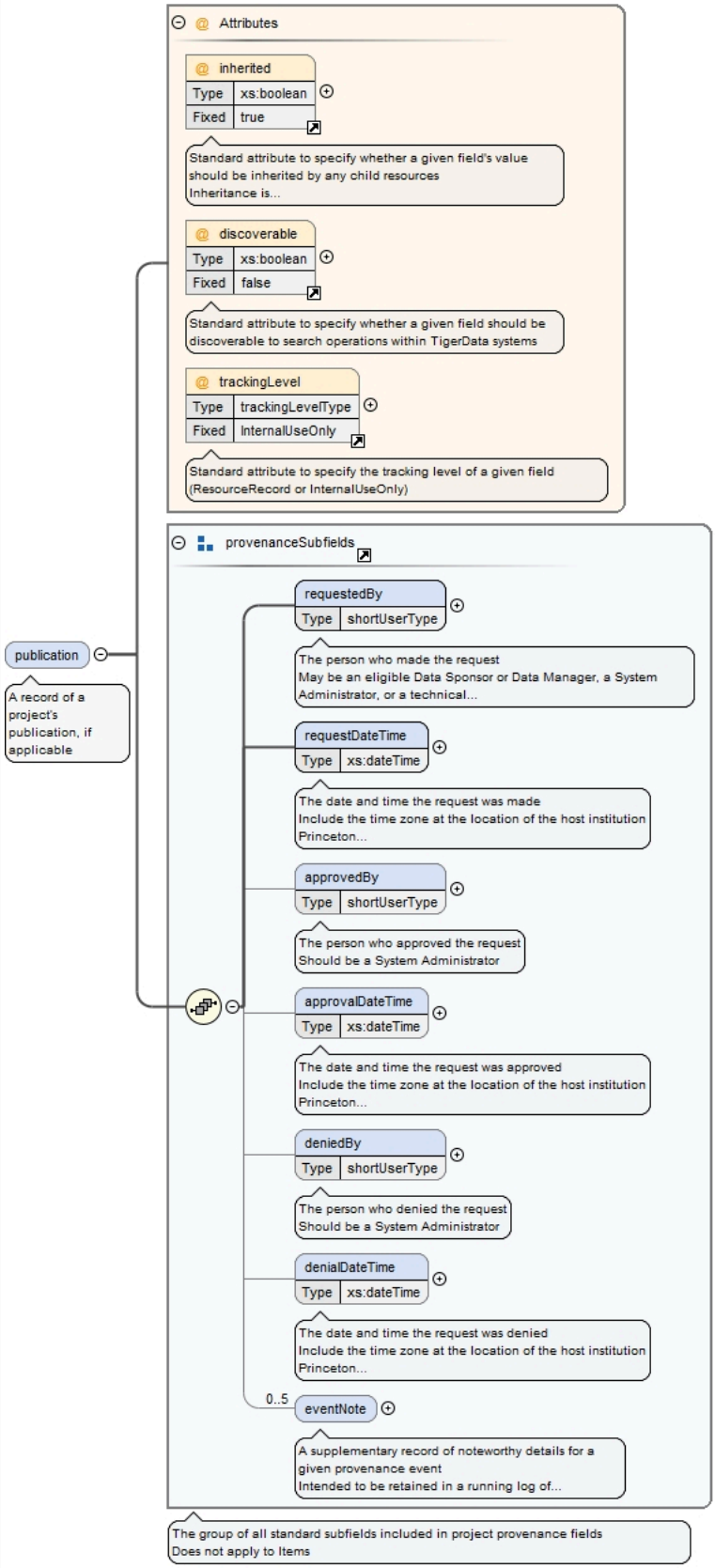
Source

```
<xs:element name="retirement" minOccurs="0" maxOccurs="1">
  <xs:annotation>
    <xs:documentation xml:lang="en">A record of a project’s retirement, if applicable</
xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:group ref="provenanceSubfields"/>
    <xs:attribute ref="inherited" fixed="true"/>
    <xs:attribute ref="discoverable" fixed="false"/>
    <xs:attribute ref="trackingLevel" fixed="InternalUseOnly"/>
  </xs:complexType>
</xs:element>
```

Element `projectFields / projectProvenance / publication`

Namespace	No namespace
Annotations	A record of a project’s publication, if applicable

Diagram



Properties

content:	complex
minOccurs:	0
maxOccurs:	1

Model	requestedBy , requestDateTime , approvedBy{0,1} , approvalDateTime{0,1} , deniedBy{0,1} , denialDateTime{0,1} , eventNote{0,5}
Children	approvalDateTime, approvedBy, denialDateTime, deniedBy, eventNote, requestDateTime, requestedBy

Instance	`<publication discoverable="false" inherited="true" trackingLevel="InternalUseOnly">`
	`  <requestedBy userID="" userIDType="NetID">{1,1}</requestedBy>`
	`  <requestDateTime>{1,1}</requestDateTime>`
	`  <approvedBy userID="" userIDType="NetID">{0,1}</approvedBy>`
	`  <approvalDateTime>{0,1}</approvalDateTime>`
	`  <deniedBy userID="" userIDType="NetID">{0,1}</deniedBy>`
	`  <denialDateTime>{0,1}</denialDateTime>`
	`  <eventNote>{0,5}</eventNote>`
	`</publication>`

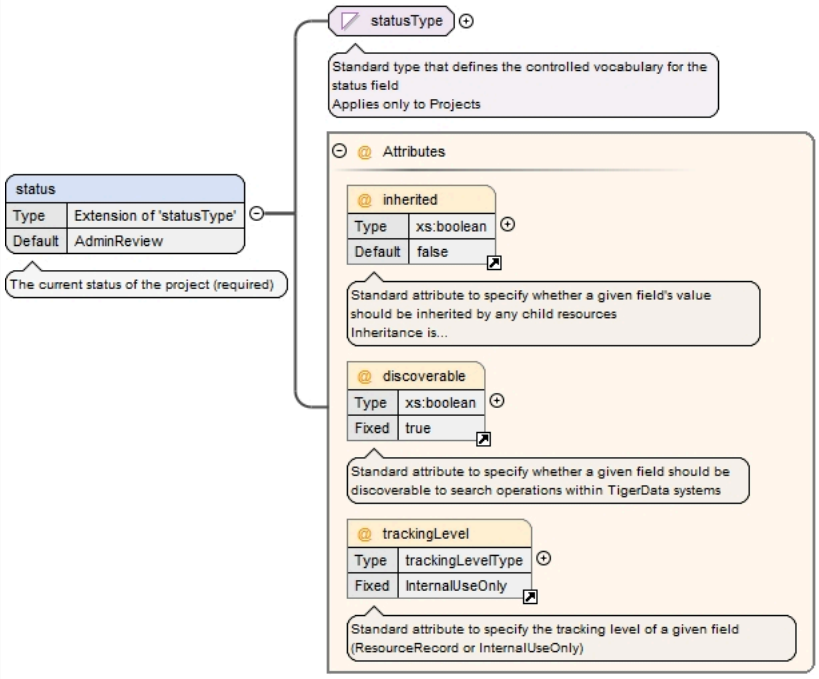
Attributes

QName	Type	Fixed	Use	
discoverable	xs:boolean	false	optional	
	Standard attribute to specify whether a given field should be discoverable to search operations within TigerData systems			
inherited	xs:boolean	true	optional	
	Standard attribute to specify whether a given field's value should be inherited by any child resources Inheritance is limited to the applicability of the field to the child resource (e.g., researchDomain may be inherited by a subproject but not an item)			
trackingLevel	trackingLevelType	InternalUseOnly	optional	
	Standard attribute to specify the tracking level of a given field (ResourceRecord or InternalUseOnly)			

Source

```
<xs:element name="publication" minOccurs="0" maxOccurs="1">
  <xs:annotation>
    <xs:documentation xml:lang="en">A record of a project’s publication, if applicable</
xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:group ref="provenanceSubfields"/>
    <xs:attribute ref="inherited" fixed="true"/>
    <xs:attribute ref="discoverable" fixed="false"/>
    <xs:attribute ref="trackingLevel" fixed="InternalUseOnly"/>
  </xs:complexType>
</xs:element>
```

Element `projectFields / projectProvenance / status`

Namespace	No namespace
Annotations	The current status of the project (required)
Diagram	

Type	extension of statusType
Type hierarchy	• xs:string • statusType
Properties	content: complex minOccurs: 1 maxOccurs: 1 default: AdminReview
Attributes	

QName	Type	Fixed	Default	Use	
discoverable	xs:boolean	true		optional	
	Standard attribute to specify whether a given field should be discoverable to search operations within TigerData systems				
inherited	xs:boolean		false	optional	
	Standard attribute to specify whether a given field's value should be inherited by any child resources Inheritance is limited to the applicability of the field to the child resource (e.g., researchDomain may be inherited by a subproject but not an item)				
trackingLevel	trackingLevelType	InternalUseOnly		optional	
	Standard attribute to specify the tracking level of a given field (ResourceRecord or InternalUseOnly)				

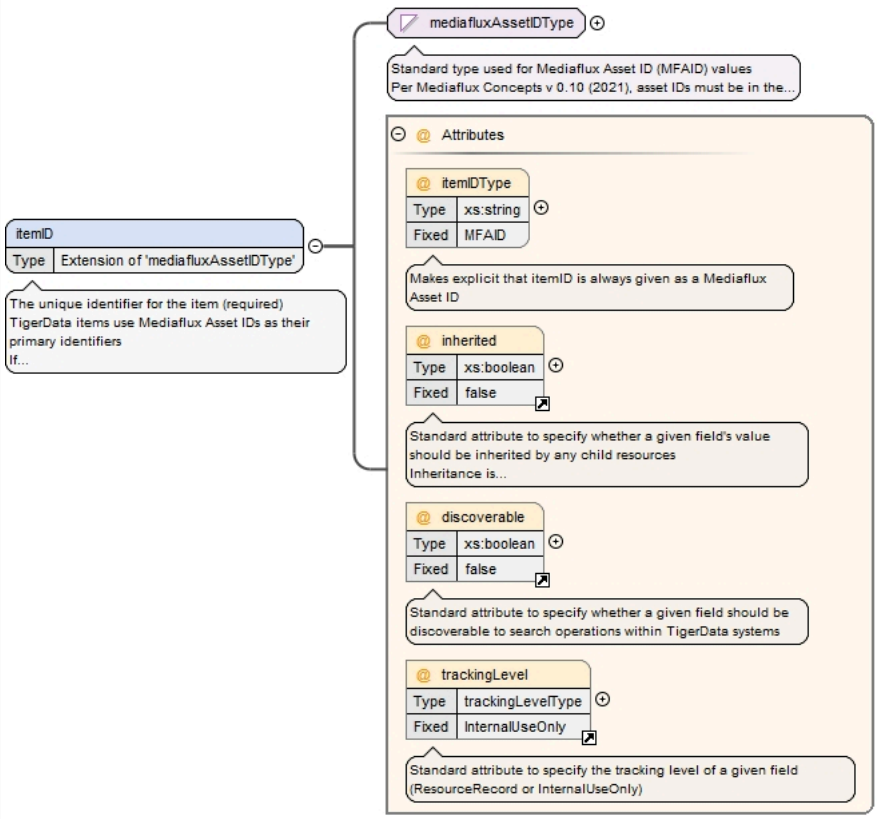
Source

```
<xs:element name="status" minOccurs="1" maxOccurs="1" default="AdminReview">
  <xs:annotation>
    <xs:documentation xml:lang="en">The current status of the project (required)</xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:simpleContent>
      <xs:extension base="statusType">
        <xs:attribute ref="inherited" default="false"/>
        <xs:attribute ref="discoverable" fixed="true"/>
        <xs:attribute ref="trackingLevel" fixed="InternalUseOnly"/>
      </xs:extension>
    </xs:simpleContent>
  </xs:complexType>
</xs:element>
```

Element itemFields / itemID

Namespace	No namespace
Annotations	The unique identifier for the item (required) TigerData items use Mediaflux Asset IDs as their primary identifiers If an item also has any other IDs, they all should be included under alternativeIDs

Diagram



Type: extension of mediafluxAssetIDType

Type hierarchy:
- xs:integer
  - mediafluxAssetIDType

Properties

content:	complex
minOccurs:	1
maxOccurs:	1

Attributes

QName	Type	Fixed	Use	
discoverable	xs:boolean	false	optional	
	Standard attribute to specify whether a given field should be discoverable to search operations within TigerData systems			
inherited	xs:boolean	false	optional	
	Standard attribute to specify whether a given field's value should be inherited by any child resources Inheritance is limited to the applicability of the field to the child resource (e.g., researchDomain may be inherited by a subproject but not an item)			
itemIDType	xs:string	MFAID	optional	
	Makes explicit that itemID is always given as a Mediaflux Asset ID			
trackingLevel	trackingLevelType	InternalUseOnly	optional	
	Standard attribute to specify the tracking level of a given field (ResourceRecord or InternalUseOnly)			

Source

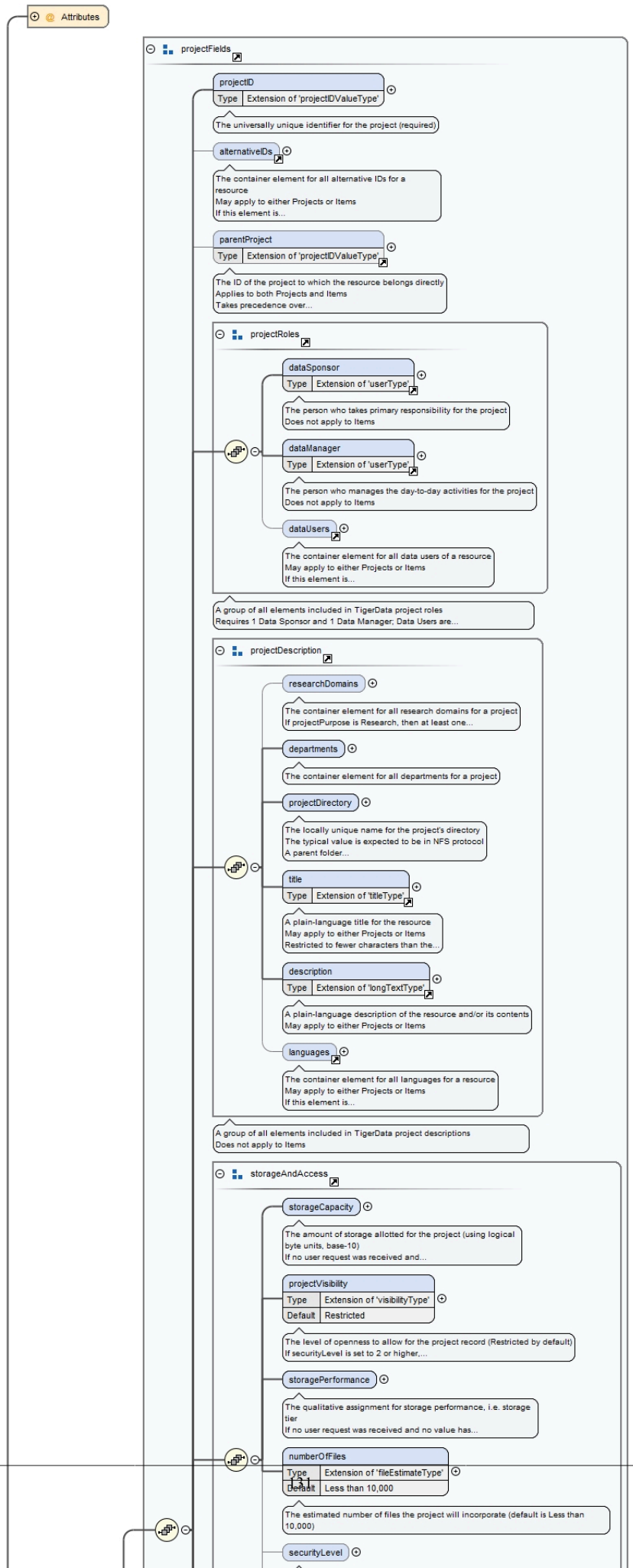
```
<xs:element name="itemID" minOccurs="1" maxOccurs="1">
  <xs:annotation>
    <xs:documentation xml:lang="en">The unique identifier for the item (required)</xs:documentation>
    <xs:documentation xml:lang="en">TigerData items use Mediaflux Asset IDs as their primary
 identifiers</xs:documentation>
    <xs:documentation xml:lang="en">If an item also has any other IDs, they all should be included
 under alternativeIDs</xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:simpleContent>
      <xs:extension base="mediafluxAssetIDType">
        <xs:attribute name="itemIDType" type="xs:string" fixed="MFAID">
```

```
          <xs:annotation>
            <xs:documentation xml:lang="en">Makes explicit that itemID is always given as a
 Mediaflux Asset ID</xs:documentation>
          </xs:annotation>
        </xs:attribute>
        <xs:attribute ref="inherited" fixed="false"/>
        <xs:attribute ref="discoverable" fixed="false"/>
        <xs:attribute ref="trackingLevel" fixed="InternalUseOnly"/>
      </xs:extension>
    </xs:simpleContent>
  </xs:complexType>
</xs:element>
```

Element resource

Namespace	No namespace
Annotations	Root element of any metadata record for TigerData resources (projects and items). If the resourceClass is Project, then the projectFields group must be used. If the resourceClass is Item, then the itemFields group must be used.

Diagram


Attributes
projectFields
projectID
Type Extension of 'projectIDValueType'
The universally unique identifier for the project (required)
alternativeIDs
The container element for all alternative IDs for a resource
May apply to either Projects or Items
If this element is...
parentProject
Type Extension of 'projectIDValueType'
The ID of the project to which the resource belongs directly
Applies to both Projects and Items
Takes precedence over...
projectRoles
dataSponsor
Type Extension of 'userType'
The person who takes primary responsibility for the project
Does not apply to Items
dataManager
Type Extension of 'userType'
The person who manages the day-to-day activities for the project
Does not apply to Items
dataUsers
The container element for all data users of a resource
May apply to either Projects or Items
If this element is...
A group of all elements included in TigerData project roles
Requires 1 Data Sponsor and 1 Data Manager; Data Users are...
projectDescription
researchDomains
The container element for all research domains for a project
If projectPurpose is Research, then at least one...
departments
The container element for all departments for a project
projectDirectory
The locally unique name for the project's directory
The typical value is expected to be in NFS protocol
A parent folder...
title
Type Extension of 'titleType'
A plain-language title for the resource
May apply to either Projects or Items
Restricted to fewer characters than the...
description
Type Extension of 'longTextType'
A plain-language description of the resource and/or its contents
May apply to either Projects or Items
languages
The container element for all languages for a resource
May apply to either Projects or Items
If this element is...
A group of all elements included in TigerData project descriptions
Does not apply to Items
storageAndAccess
storageCapacity
The amount of storage allotted for the project (using logical byte units, base-10)
If no user request was received and...
projectVisibility
Type Extension of 'visibilityType'
Default Restricted
The level of openness to allow for the project record (Restricted by default)
If securityLevel is set to 2 or higher,...
storagePerformance
The qualitative assignment for storage performance, i.e. storage tier
If no user request was received and no value has...
numberOfFiles
Type Extension of 'fileEstimateType'
Default Less than 10,000
The estimated number of files the project will incorporate (default is Less than 10,000)
securityLevel

Properties	content: complex
Model	((projectID , alternativeIDs{0,1} , parentProject{0,1} , dataSponsor , dataManager , dataUsers{0,1} , researchDomains{0,1} , departments , projectDirectory , title , description , languages{0,1} , storageCapacity , projectVisibility , storagePerformance , numberOfFiles , securityLevel{0,1} , storageSystem{0,1} , accessPoints{0,1} , projectPurpose , provisionalProject , funded{0,1} , fundingReferences{0,1} , projectDates{0,1} , projectResourceType , licenses{0,1} , dataUseAgreement{0,1} , duaReferences{0,1} , keywords{0,1} , relations{0,1} , extendedMetadataSchemas{0,1} , projectProvenance) | (itemID , alternativeIDs{0,1} , parentProject , dataUsers{0,1} , title{0,1} , description{0,1} , itemResourceType{0,1} , keywords{0,1} , relations{0,1} , extendedMetadataSchemas{0,1} , languages{0,1} , licenses{0,1} , fundingReferences{0,1} , duaReferences{0,1} , itemDates{0,1})) , schemaVersion
Children	accessPoints, alternativeIDs, dataManager, dataSponsor, dataUseAgreement, dataUsers, departments, description, duaReferences, extendedMetadataSchemas, funded, fundingReferences, itemDates, itemID, itemResourceType, keywords, languages, licenses, numberOfFiles, parentProject, projectDates, projectDirectory, projectID, projectProvenance, projectPurpose, projectResourceType, projectVisibility, provisionalProject, relations, researchDomains, schemaVersion, securityLevel, storageCapacity, storagePerformance, storageSystem, title
Instance	

```
<resource resourceClass="" resourceID="" resourceIDType="">
  <projectID discoverable="true" inherited="false" projectIDType="DOI" trackingLevel="ResourceRecord">{1,1}</
projectID>
  <alternativeIDs discoverable="true" trackingLevel="ResourceRecord">{0,1}</alternativeIDs>
  <parentProject discoverable="true" inherited="true" projectIDType="DOI" trackingLevel="ResourceRecord">{0,1}</
parentProject>
  <dataSponsor discoverable="true" inherited="true" trackingLevel="ResourceRecord" userID="" userIDType="NetID">{1,
dataSponsor>
  <dataManager discoverable="true" inherited="true" trackingLevel="ResourceRecord" userID="" userIDType="NetID">{1,
dataManager>
  <dataUsers trackingLevel="ResourceRecord">{0,1}</dataUsers>
  <researchDomains discoverable="true" trackingLevel="ResourceRecord">{0,1}</researchDomains>
  <departments discoverable="true" trackingLevel="ResourceRecord">{1,1}</departments>
  <projectDirectory approved="false" discoverable="false" inherited="false" trackingLevel="InternalUseOnly">{1,1}<
projectDirectory>
  <title discoverable="true" inherited="false" xml:lang="en" trackingLevel="ResourceRecord">{1,1}</
title>
  <description discoverable="true" inherited="false" xml:lang="en" trackingLevel="ResourceRecord">{1,1}</
description>
  <languages discoverable="true" trackingLevel="ResourceRecord">{0,1}</languages>
  <storageCapacity approved="false" discoverable="false" inherited="false" trackingLevel="InternalUseOnly">{1,1}</
storageCapacity>
  <projectVisibility discoverable="false" inherited="true" trackingLevel="InternalUseOnly">{1,1}</
projectVisibility>
  <storagePerformance approved="false" discoverable="false" inherited="true" trackingLevel="InternalUseOnly">{1,1}<
storagePerformance>
  <numberOfFiles discoverable="false" inherited="false" trackingLevel="InternalUseOnly">{1,1}</
numberOfFiles>
  <securityLevel approved="false" discoverable="false" inherited="true" trackingLevel="InternalUseOnly">{0,1}</
securityLevel>
  <storageSystem discoverable="false" inherited="false" trackingLevel="InternalUseOnly">{0,1}</
storageSystem>
  <accessPoints discoverable="false" inherited="false" trackingLevel="InternalUseOnly">{0,1}</
accessPoints>
  <projectPurpose discoverable="true" inherited="true" trackingLevel="InternalUseOnly">{1,1}</
projectPurpose>
  <provisionalProject discoverable="true" inherited="true" trackingLevel="InternalUseOnly">{1,1}</
provisionalProject>
  <funded discoverable="false" federallyFunded="false" inherited="true" trackingLevel="InternalUseOnly">{0,1}</
funded>
  <fundingReferences discoverable="true" trackingLevel="ResourceRecord">{0,1}</fundingReferences>
  <projectDates discoverable="true" trackingLevel="ResourceRecord">{0,1}</projectDates>
  <projectResourceType discoverable="true" inherited="false" xml:lang="en" resourceTypeGeneral="Project" trackingLe
projectResourceType>
  <licenses discoverable="true" trackingLevel="ResourceRecord">{0,1}</licenses>
  <dataUseAgreement discoverable="false" inherited="true" trackingLevel="InternalUseOnly">{0,1}</
dataUseAgreement>
  <duaReferences discoverable="true" trackingLevel="ResourceRecord">{0,1}</duaReferences>
  <keywords discoverable="true" trackingLevel="ResourceRecord">{0,1}</keywords>
  <relations discoverable="true" trackingLevel="ResourceRecord">{0,1}</relations>
  <extendedMetadataSchemas discoverable="false" trackingLevel="InternalUseOnly">{0,1}</
extendedMetadataSchemas>
  <projectProvenance>{1,1}</projectProvenance>
  <itemID discoverable="false" inherited="false" itemIDType="MFAID" trackingLevel="InternalUseOnly">{1,1}</
itemID>
  <alternativeIDs discoverable="true" trackingLevel="ResourceRecord">{0,1}</alternativeIDs>
  <parentProject discoverable="true" inherited="true" projectIDType="DOI" trackingLevel="ResourceRecord">{1,1}</
parentProject>
  <dataUsers trackingLevel="ResourceRecord">{0,1}</dataUsers>
  <title discoverable="true" inherited="false" xml:lang="en" trackingLevel="ResourceRecord">{0,1}</
title>
  <description discoverable="true" inherited="false" xml:lang="en" trackingLevel="ResourceRecord">{0,1}</
description>
```

```
  <itemResourceType discoverable="true" inherited="false" xml:lang="en" resourceTypeGeneral="" trackingLevel="Resou
itemResourceType>
  <keywords discoverable="true" trackingLevel="ResourceRecord">{0,1}</keywords>
  <relations discoverable="true" trackingLevel="ResourceRecord">{0,1}</relations>
  <extendedMetadataSchemas discoverable="false" trackingLevel="InternalUseOnly">{0,1}</
extendedMetadataSchemas>
  <languages discoverable="true" trackingLevel="ResourceRecord">{0,1}</languages>
  <licenses discoverable="true" trackingLevel="ResourceRecord">{0,1}</licenses>
  <fundingReferences discoverable="true" trackingLevel="ResourceRecord">{0,1}</fundingReferences>
  <duaReferences discoverable="true" trackingLevel="ResourceRecord">{0,1}</duaReferences>
  <itemDates discoverable="true" trackingLevel="ResourceRecord">{0,1}</itemDates>
  <schemaVersion discoverable="true" inherited="true" trackingLevel="InternalUseOnly">{1,1}</
schemaVersion>
</resource>
```

Attributes

QName	Type	Use	
resourceClass	restriction of xs:string	required	
	Specifies the class of a given resource: either Project or Item (required)		
resourceID	titleLimitType	required	
	The unique identifier for the resource within TigerData systems (required) If the resourceClass is Project, then the resourceID should be a DOI; if Item, then the resourceID should be a Mediaflux AssetID (MFAID)		
resourceIDType	restriction of xs:string	required	
	If the resourceClass is Project, then the resourceID should be a DOI; if Item, then the resourceID should be a Mediaflux AssetID (MFAID)		

Source

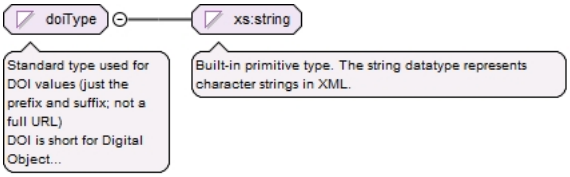
```
<xs:element name="resource">
  <xs:annotation>
    <xs:documentation xml:lang="en">Root element of any metadata record for TigerData resources
 (projects and items).</xs:documentation>
    <xs:documentation xml:lang="en">If the resourceClass is Project, then the projectFields
 group must be used. If the resourceClass is Item, then the itemFields group must be used.</
xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:sequence>
      <xs:choice minOccurs="1" maxOccurs="1">
        <xs:group ref="projectFields"/>
        <xs:group ref="itemFields"/>
      </xs:choice>
      <xs:element ref="schemaVersion" maxOccurs="1" minOccurs="1"/>
    </xs:sequence>
    <xs:attribute name="resourceClass" use="required">
      <xs:annotation>
        <xs:documentation xml:lang="en">Specifies the class of a given resource: either Project or
 Item (required)</xs:documentation>
      </xs:annotation>
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:enumeration value="Project" xml:lang="en"/>
          <xs:enumeration value="Item" xml:lang="en"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:attribute>
    <xs:attribute name="resourceID" type="titleLimitType" use="required">
      <xs:annotation>
        <xs:documentation xml:lang="en">The unique identifier for the resource within TigerData
 systems (required)</xs:documentation>
        <xs:documentation xml:lang="en">If the resourceClass is Project, then the resourceID should
 be a DOI; if Item, then the resourceID should be a Mediaflux AssetID (MFAID)</xs:documentation>
      </xs:annotation>
    </xs:attribute>
    <xs:attribute name="resourceIDType" use="required">
      <xs:annotation>
        <xs:documentation xml:lang="en">If the resourceClass is Project, then the resourceID should
 be a DOI; if Item, then the resourceID should be a Mediaflux AssetID (MFAID)</xs:documentation>
      </xs:annotation>
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:enumeration value="DOI"/>
          <xs:enumeration value="MFAID"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:attribute>
  </xs:complexType>
</xs:element>
```

Simple Type(s)

Simple Type `doiType`

Namespace	No namespace

Annotations	`Standard type used for DOI values (just the prefix and suffix; not a full URL)`
	
	`DOI is short for Digital Object Identifier`
	
	`Applies a pattern aligned with ISO 26324:2022, allowing any suffix that doesn't have whitespace and doesn't end with unexpected punctuation`
	
	`https://www.iso.org/standard/81599.html`

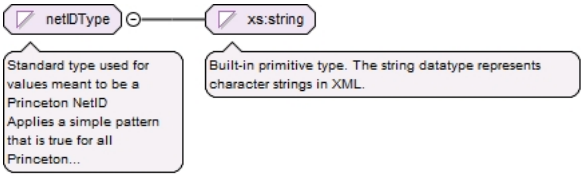
Diagram	
Type	restriction of xs:string
Facets	pattern `10\.\d{4,9}\/[a-z0-9]{4}-[a-z0-9]{4}`
Used by	Complex Type projectIDValueType

Source	`<xs:simpleType name="doiType">`
	`  <xs:annotation>`
	`  <xs:documentation xml:lang="en">Standard type used for DOI values (just the prefix and suffix; not a full URL)</xs:documentation>`
	`  <xs:documentation xml:lang="en">DOI is short for Digital Object Identifier</xs:documentation>`
	`  <xs:documentation xml:lang="en">Applies a pattern aligned with ISO 26324:2022, allowing any suffix that doesn't have whitespace and doesn't end with unexpected punctuation</xs:documentation>`
	`  <xs:documentation>https://www.iso.org/standard/81599.html</xs:documentation>`
	`  </xs:annotation>`
	`  <xs:restriction base="xs:string">`
	`  <xs:pattern value="10\.\d{4,9}\/[a-z0-9]{4}-[a-z0-9]{4}"/>`
	`  </xs:restriction>`
	`</xs:simpleType>`

Simple Type `netIDType`

Namespace	No namespace

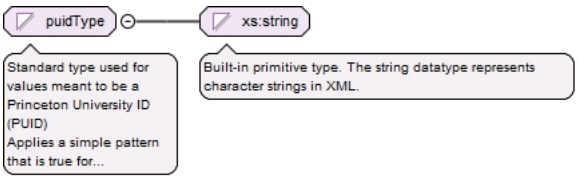
Annotations	`Standard type used for values meant to be a Princeton NetID`
	
	`Applies a simple pattern that is true for all Princeton NetIDs`
	
	`Validation of user accounts and permissions happens separate from metadata validation`

Diagram	
Type	restriction of xs:string
Facets	pattern `[a-z0-9-]{2,10}`
Used by	Elements shortUserType/netID, userType/netID Attributes shortUserType/@userID, userType/@userID

Source	`<xs:simpleType name="netIDType">`
	`  <xs:annotation>`
	`  <xs:documentation xml:lang="en">Standard type used for values meant to be a Princeton NetID</xs:documentation>`
	`  <xs:documentation xml:lang="en">Applies a simple pattern that is true for all Princeton NetIDs</xs:documentation>`
	`  <xs:documentation xml:lang="en">Validation of user accounts and permissions happens separate from metadata validation</xs:documentation>`
	`  </xs:annotation>`
	`  <xs:restriction base="xs:string">`
	`  <xs:pattern value="[a-z0-9-]{2,10}"/>`
	`  </xs:restriction>`

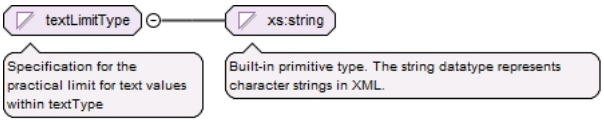
```
</xs:simpleType>
```

Simple Type `puidType`

Namespace	No namespace
Annotations	Standard type used for values meant to be a Princeton University ID (PUID) Applies a simple pattern that is true for all PUIDs Validation of user accounts and permissions happens separate from metadata validation
Diagram	
Type	restriction of xs:string
Facets	pattern `[0-9]{9}`
Used by	Elements shortUserType/PUID, userType/PUID

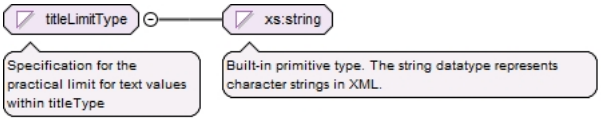
Source	`<xs:simpleType name="puidType">`
	`  <xs:annotation>`
	`  <xs:documentation xml:lang="en">Standard type used for values meant to be a Princeton University ID (PUID)</xs:documentation>`
	`  <xs:documentation xml:lang="en">Applies a simple pattern that is true for all PUIDs</xs:documentation>`
	`  <xs:documentation xml:lang="en">Validation of user accounts and permissions happens separate from metadata validation</xs:documentation>`
	`  </xs:annotation>`
	`  <xs:restriction base="xs:string">`
	`  <xs:pattern value="[0-9]{9}"/>`
	`  </xs:restriction>`
	`</xs:simpleType>`

Simple Type `textLimitType`

Namespace	No namespace
Annotations	Specification for the practical limit for text values within textType
Diagram	
Type	restriction of xs:string
Facets	minLength `1` maxLength `1000`
Used by	Complex Type textType

Source	`<xs:simpleType name="textLimitType">`
	`  <xs:annotation>`
	`  <xs:documentation xml:lang="en">Specification for the practical limit for text values within textType</xs:documentation>`
	`  </xs:annotation>`
	`  <xs:restriction base="xs:string">`
	`  <xs:minLength value="1"/>`
	`  <xs:maxLength value="1000"/>`
	`  </xs:restriction>`
	`</xs:simpleType>`

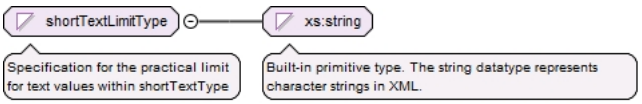
Simple Type `titleLimitType`

Namespace	No namespace
Annotations	Specification for the practical limit for text values within titleType
Diagram	

Type	restriction of xs:string
Facets	minLength: 1 maxLength: 200
Used by	Complex Type: titleType Elements: alternativeID, fundingReference/awardNumber, storageAndAccess/accessPoints/globusCollection/globusName, supplementalMetadata/relations/relation, userType/alternativeNameIdentifier, userType/familyName, userType/fullName, userType/givenName Attributes: license/@licenseIDSchema, resource/@resourceID, supplementalMetadata/keywords/keyword/@subjectSchema, supplementalMetadata/relations/relation/@relatedMetadataSchema

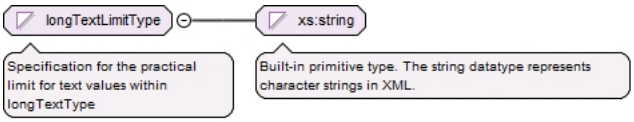
Source	`<xs:simpleType name="titleLimitType">`
	`  <xs:annotation>`
	`  <xs:documentation xml:lang="en">Specification for the practical limit for text values within titleType</xs:documentation>`
	`  </xs:annotation>`
	`  <xs:restriction base="xs:string">`
	`  <xs:minLength value="1"/>`
	`  <xs:maxLength value="200"/>`
	`  </xs:restriction>`
	`</xs:simpleType>`

Simple Type `shortTextLimitType`

Namespace	No namespace
Annotations	Specification for the practical limit for text values within shortTextType
Diagram	
Type	restriction of xs:string
Facets	minLength: 1 maxLength: 60
Used by	Complex Type: shortTextType Attributes: alternativeID/@alternativeIDType, otherDate/@dateInformation Element: schemaVersion

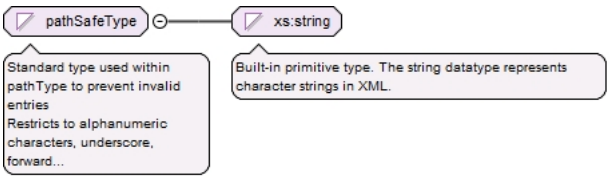
Source	`<xs:simpleType name="shortTextLimitType">`
	`  <xs:annotation>`
	`  <xs:documentation xml:lang="en">Specification for the practical limit for text values within shortTextType</xs:documentation>`
	`  </xs:annotation>`
	`  <xs:restriction base="xs:string">`
	`  <xs:minLength value="1"/>`
	`  <xs:maxLength value="60"/>`
	`  </xs:restriction>`
	`</xs:simpleType>`

Simple Type `longTextLimitType`

Namespace	No namespace
Annotations	Specification for the practical limit for text values within longTextType
Diagram	
Type	restriction of xs:string
Facets	minLength: 1 maxLength: 2000
Used by	Complex Type: longTextType
Source	`<xs:simpleType name="longTextLimitType">` `  <xs:annotation>`

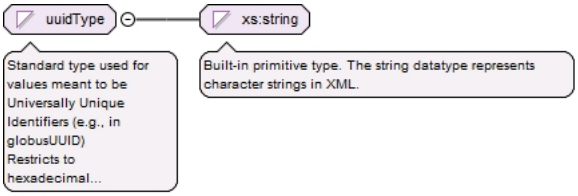
```
    <xs:documentation xml:lang="en">Specification for the practical limit for text values within
 longTextType</xs:documentation>
  </xs:annotation>
  <xs:restriction base="xs:string">
    <xs:minLength value="1"/>
    <xs:maxLength value="2000"/>
  </xs:restriction>
</xs:simpleType>
```

Simple Type `pathSafeType`

Namespace	No namespace
Annotations	Standard type used within pathType to prevent invalid entries Restricts to alphanumeric characters, underscore, forward and back slashes, colon, and minus-dash The typical value is expected to start "/tigerdata/" and follow with a parent folder of at least 3 characters and a project folder of at least 3 characters, with a slash in-between, hence the minimum of 18 characters The ordinary practical limit of 1000 characters for a text field is too high; Windows systems have a hard limit of 260 characters for the full path, so the directory needs to much less than that to avoid problems, hence the maximum of 128 characters
Diagram	
Type	restriction of xs:string
Facets	pattern `[a-zA-Z0-9\\/:_\-]{18,128}`
Used by	Complex Type pathType
Source	

```
<xs:simpleType name="pathSafeType">
  <xs:annotation>
    <xs:documentation xml:lang="en">Standard type used within pathType to prevent invalid entries</
xs:documentation>
    <xs:documentation xml:lang="en">Restricts to alphanumeric characters, underscore, forward and
 back slashes, colon, and minus-dash</xs:documentation>
    <xs:documentation xml:lang="en">The typical value is expected to start "/tigerdata/" and follow
 with a parent folder of at least 3 characters and a project folder of at least 3 characters, with a
 slash in-between, hence the minimum of 18 characters</xs:documentation>
    <xs:documentation xml:lang="en">The ordinary practical limit of 1000 characters for a text
 field is too high; Windows systems have a hard limit of 260 characters for the full path, so the
 directory needs to much less than that to avoid problems, hence the maximum of 128 characters</
xs:documentation>
  </xs:annotation>
  <xs:restriction base="xs:string">
    <xs:pattern value="[a-zA-Z0-9\\/:_\-]{18,128}"/>
  </xs:restriction>
</xs:simpleType>
```

Simple Type `uuidType`

Namespace	No namespace
Annotations	Standard type used for values meant to be Universally Unique Identifiers (e.g., in globusUUID) Restricts to hexadecimal characters and minus-dashes, with a length ranging from 32 to 36 The most common value is expected to be hexadecimal in 8-4-4-4-12 format, but this type specification is simplified for XML, and therefore more permissive
Diagram	
Type	restriction of xs:string

Facets	pattern	`[0-9a-f\-]{32,36}`
Used by	Element	storageAndAccess/accessPoints/globusCollection/globusUUID

Source

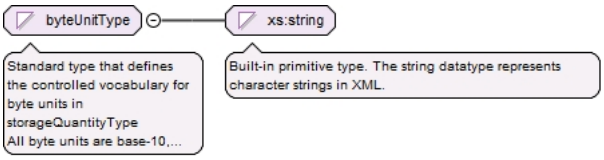
```
<xs:simpleType name="uuidType">
  <xs:annotation>
    <xs:documentation xml:lang="en">Standard type used for values meant to be Universally Unique
 Identifiers (e.g., in globusUUID)</xs:documentation>
    <xs:documentation xml:lang="en">Restricts to hexadecimal characters and minus-dashes, with a
 length ranging from 32 to 36</xs:documentation>
    <xs:documentation xml:lang="en">The most common value is expected to be hexadecimal in
 8-4-4-4-12 format, but this type specification is simplified for XML, and therefore more
 permissive</xs:documentation>
  </xs:annotation>
  <xs:restriction base="xs:string">
    <xs:pattern value="[0-9a-f\-]{32,36}"/>
  </xs:restriction>
</xs:simpleType>
```

Simple Type `byteUnitType`

Namespace	No namespace

Annotations	`Standard type that defines the controlled vocabulary for byte units in storageQuantityType`
	
	`All byte units are base-10, not base-2`

Diagram



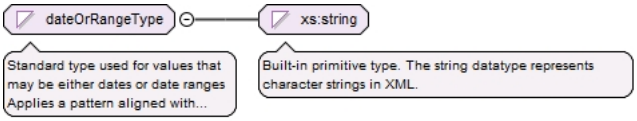
Type	restriction of xs:string		
Facets	enumeration	B	Bytes (B)
	enumeration	KB	Kilobytes (KB)
	enumeration	MB	Megabytes (MB)
	enumeration	GB	Gigabytes (GB)
	enumeration	TB	Terabytes (TB)
	enumeration	PB	Petabytes (PB)
Used by	Element	storageQuantityType/unit	

Source

```
<xs:simpleType name="byteUnitType">
  <xs:annotation>
    <xs:documentation xml:lang="en">Standard type that defines the controlled vocabulary for byte
 units in storageQuantityType</xs:documentation>
    <xs:documentation xml:lang="en">All byte units are base-10, not base-2</xs:documentation>
  </xs:annotation>
  <xs:restriction base="xs:string">
    <xs:enumeration value="B" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">Bytes (B)</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="KB" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">Kilobytes (KB)</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="MB" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">Megabytes (MB)</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="GB" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">Gigabytes (GB)</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="TB" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">Terabytes (TB)</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="PB" xml:lang="en">
```

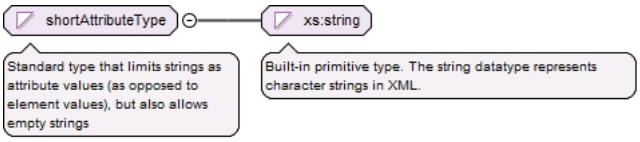
```
      <xs:annotation>
        <xs:documentation xml:lang="en">Petabytes (PB)</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
  </xs:restriction>
</xs:simpleType>
```

Simple Type `dateOrRangeType`

Namespace	No namespace
Annotations	Standard type used for values that may be either dates or date ranges Applies a pattern aligned with RKMS-ISO8601 https://www.ukoln.ac.uk/metadata/dcmi/collection-RKMS-ISO8601/
Diagram	
Type	restriction of xs:string
Facets	pattern: `\d{4}-(0[1-9]|1[0-2])-(0[1-9]|[12][0-9]|3[01])(\/\d{4}-(0[1-9]|1[0-2])-(0[1-9]|[12][0-9]|3[01]))?`
Used by	Elements: endDate, otherDate, publicationDate, retirementDate, startDate, userType/nameDate
Source	

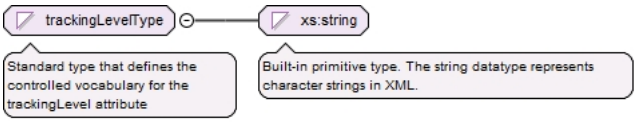
```
<xs:simpleType name="dateOrRangeType">
  <xs:annotation>
    <xs:documentation xml:lang="en">Standard type used for values that may be either dates or date
 ranges</xs:documentation>
    <xs:documentation xml:lang="en">Applies a pattern aligned with RKMS-ISO8601</xs:documentation>
    <xs:documentation>https://www.ukoln.ac.uk/metadata/dcmi/collection-RKMS-ISO8601/</
xs:documentation>
  </xs:annotation>
  <xs:restriction base="xs:string">
    <xs:pattern value="\d{4}-(0[1-9]|1[0-2])-(0[1-9]|[12][0-9]|3[01])(\/\d{4}-(0[1-9]|1[0-2])-
(0[1-9]|[12][0-9]|3[01]))?"/>
  </xs:restriction>
</xs:simpleType>
```

Simple Type `shortAttributeType`

Namespace	No namespace
Annotations	Standard type that limits strings as attribute values (as opposed to element values), but also allows empty strings
Diagram	
Type	restriction of xs:string
Facets	minLength: 0 maxLength: 60
Used by	Attributes: supplementalMetadata/keywords/keyword/@classificationCode, supplementalMetadata/relations/relation/@relatedMetadataSchemaType, userType/alternativeNameIdentifier/@nameIdentifierSchema
Source	

```
<xs:simpleType name="shortAttributeType">
  <xs:annotation>
    <xs:documentation xml:lang="en">Standard type that limits strings as attribute values (as
 opposed to element values), but also allows empty strings</xs:documentation>
  </xs:annotation>
  <xs:restriction base="xs:string">
    <xs:minLength value="0"/>
    <xs:maxLength value="60"/>
  </xs:restriction>
</xs:simpleType>
```

Simple Type `trackingLevelType`

Namespace	No namespace
Annotations	`Standard type that defines the controlled vocabulary for the trackingLevel attribute`
Diagram	
Type	restriction of xs:string
Facets	enumeration `ResourceRecord` `The respective field should be included in any long-term or crosswalked records for the resource` enumeration `InternalUseOnly` `The respective field is intended for internal (Princeton) use only`
Used by	Attribute @trackingLevel

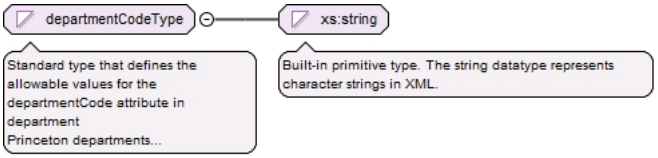
Source

```
<xs:simpleType name="trackingLevelType">
  <xs:annotation>
    <xs:documentation xml:lang="en">Standard type that defines the controlled vocabulary for the
 trackingLevel attribute</xs:documentation>
  </xs:annotation>
  <xs:restriction base="xs:string">
    <xs:enumeration value="ResourceRecord">
      <xs:annotation>
        <xs:documentation xml:lang="en">The respective field should be included in any long-term or
 crosswalked records for the resource</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="InternalUseOnly">
      <xs:annotation>
        <xs:documentation xml:lang="en">The respective field is intended for internal (Princeton)
 use only</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
  </xs:restriction>
</xs:simpleType>
```

Simple Type `departmentCodeType`

Namespace	No namespace

Annotations	`Standard type that defines the allowable values for the departmentCode attribute in department`
	
	`Princeton departments always have a 5-digit numerical code`

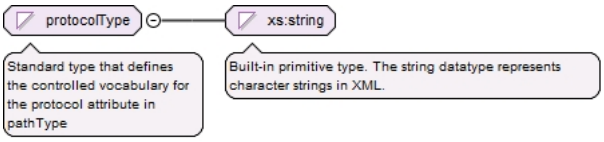
Diagram	
Type	restriction of xs:string
Facets	pattern `[0-9]{5}`
Used by	Attribute projectDescription/departments/department/@departmentCode

Source

```
<xs:simpleType name="departmentCodeType">
  <xs:annotation>
    <xs:documentation xml:lang="en">Standard type that defines the allowable values for the
 departmentCode attribute in department</xs:documentation>
    <xs:documentation xml:lang="en">Princeton departments always have a 5-digit numerical code</
xs:documentation>
  </xs:annotation>
  <xs:restriction base="xs:string">
    <xs:pattern value="[0-9]{5}"/>
  </xs:restriction>
</xs:simpleType>
```

Simple Type `protocolType`

Namespace	No namespace
Annotations	`Standard type that defines the controlled vocabulary for the protocol attribute in pathType`

Diagram	
Type	restriction of xs:string
Facets	enumeration `NFS` `Network File System (version not tracked)` enumeration `SMB` `Server Message Block (version not tracked)` `Used interchangeably with Common Internet File System (CIFS)` enumeration `S3` `Amazon Simple Storage Service (version not tracked)`
Used by	Attribute pathType/@protocol

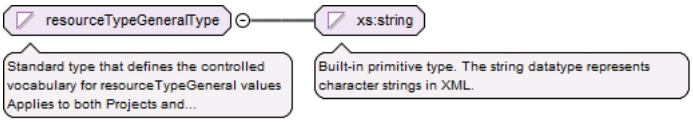
Source

```
<xs:simpleType name="protocolType">
  <xs:annotation>
    <xs:documentation xml:lang="en">Standard type that defines the controlled vocabulary for the
 protocol attribute in pathType</xs:documentation>
  </xs:annotation>
  <xs:restriction base="xs:string">
    <xs:enumeration value="NFS" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">Network File System (version not tracked)</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="SMB" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">Server Message Block (version not tracked)</
xs:documentation>
        <xs:documentation xml:lang="en">Used interchangeably with Common Internet File System
 (CIFS)</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="S3" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">Amazon Simple Storage Service (version not tracked)</
xs:documentation>
      </xs:annotation>
    </xs:enumeration>
  </xs:restriction>
</xs:simpleType>
```

Simple Type `resourceTypeGeneralType`

Namespace	No namespace

Annotations	`Standard type that defines the controlled vocabulary for resourceTypeGeneral values`
	
	`Applies to both Projects and Items`
	
	`TigerData projects and subprojects should always use the standard type Project`
	
	`Derived from the DataCite controlled vocabulary for resourceTypeGeneral (v4.6+)`
	
	`https://datacite-metadata-schema.readthedocs.io/en/4.6/appendices/appendix-1/resourceTypeGeneral/`
	
	`Appends custom options for TigerData items: README and DataDocumentation`
	
	`For labeling an item as a Data Management Plan (DMP), use the DataCite standard type OutputManagementPlan`

Diagram	
Type	restriction of xs:string
Facets	enumeration `Audiovisual` `A series of visual representations imparting an impression of motion when shown in succession. May or may not include sound.` enumeration `Award` `An umbrella term for resources provided to individual(s) or organization(s) in support of research, academic output, or training, such as a specific instance of funding,`

		grant, investment, sponsorship, scholarship, recognition, or non-monetary materials.
enumeration	Book	A medium for recording information in the form of writing or images, typically composed of many pages bound together and protected by a cover.
enumeration	BookChapter	One of the main divisions of a book.
enumeration	Collection	An aggregation of resources, which may encompass collections of one resourceType as well as those of mixed types. A collection is described as a group; its parts may also be separately described.
enumeration	ComputationalNotebook	A virtual notebook environment used for literate programming.
enumeration	ConferencePaper	Article that is written with the goal of being accepted to a conference.
enumeration	ConferenceProceeding	Collection of academic papers published in the context of an academic conference.
enumeration	DataPaper	A factual and objective publication with a focused intent to identify and describe specific data, sets of data, or data collections to facilitate discoverability.
enumeration	Dataset	Data encoded in a defined structure.
enumeration	Dissertation	A written essay, treatise, or thesis, especially one written by a candidate for the degree of Doctor of Philosophy.
enumeration	Event	A non-persistent, time-based occurrence.
enumeration	Image	A visual representation other than text.
enumeration	Instrument	A device, tool or apparatus used to obtain, measure and/or analyze data.
enumeration	InteractiveResource	A resource requiring interaction from the user to be understood, executed, or experienced.
enumeration	Journal	A scholarly publication consisting of articles that is published regularly throughout the year.
enumeration	JournalArticle	A written composition on a topic of interest, which forms a separate part of a journal.
enumeration	Model	An abstract, conceptual, graphical, mathematical or visualization model that represents empirical objects, phenomena, or physical processes.
enumeration	OutputManagementPlan	A formal document that outlines how research outputs are to be handled both during a research project and after the project is completed. Use this resource type for items that serve as the Data Management Plan (DMP) for a TigerData project.
enumeration	PeerReview	Evaluation of scientific, academic, or professional work by others working in the same field.
enumeration	PhysicalObject	A physical object or substance.
enumeration	Preprint	A version of a scholarly or scientific paper that precedes formal peer review and publication in a peer-reviewed scholarly or scientific journal.
enumeration	Project	A planned endeavor or activity, frequently collaborative, intended to achieve a particular aim using allocated resources such as budget, time, and expertise. Use this resource type for all TigerData projects and subprojects.
enumeration	Report	A document that presents information in an organized format for a specific audience and purpose.
enumeration	Service	An organized system of apparatus, appliances, staff, etc., for supplying some function(s) required by end users.
enumeration	Software	A computer program other than a computational notebook, in either source code (text) or compiled form. Use this type for general software components supporting scholarly

			research. Use the “ComputationalNotebook” value for virtual notebooks.
	enumeration	Sound	A resource primarily intended to be heard.
	enumeration	Standard	Something established by authority, custom, or general consent as a model, example, or point of reference.
	enumeration	StudyRegistration	A detailed, time-stamped description of a research plan, often openly shared in a registry or published in a journal before the study is conducted to lend accountability and transparency in the hypothesis generating and testing process.
	enumeration	Text	A resource consisting primarily of words for reading that is not covered by any other textual resource type in this list.
	enumeration	Workflow	A structured series of steps which can be executed to produce a final outcome, allowing users a means to specify and enact their work in a more reproducible manner.
	enumeration	Other	A type of resource not otherwise described by defined types.
	enumeration	README	A simple text file used to document important information about a containing resource. Use this resource type for all items serving as README files for TigerData projects.
	enumeration	DataDocumentation	A resource used to document detailed information about data in a containing resource (e.g., a codebook or data dictionary). Use this resource type for items serving as supplemental documentation to the README for a TigerData project.
Used by	Attribute	@resourceTypeGeneral	

Source

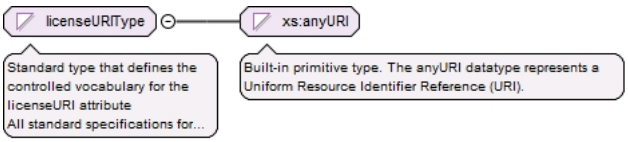
```
<xs:simpleType name="resourceTypeGeneralType">
  <xs:annotation>
    <xs:documentation xml:lang="en">Standard type that defines the controlled vocabulary for
 resourceTypeGeneral values</xs:documentation>
    <xs:documentation xml:lang="en">Applies to both Projects and Items</xs:documentation>
    <xs:documentation xml:lang="en">TigerData projects and subprojects should always use the
 standard type Project</xs:documentation>
    <xs:documentation xml:lang="en">Derived from the DataCite controlled vocabulary for
 resourceTypeGeneral (v4.6+)</xs:documentation>
    <xs:documentation>https://datacite-metadata-schema.readthedocs.io/en/4.6/appendices/appendix-1/
resourceTypeGeneral/</xs:documentation>
    <xs:documentation xml:lang="en">Appends custom options for TigerData items: README and
 DataDocumentation</xs:documentation>
    <xs:documentation xml:lang="en">For labeling an item as a Data Management Plan (DMP), use the
 DataCite standard type OutputManagementPlan</xs:documentation>
  </xs:annotation>
  <xs:restriction base="xs:string">
    <xs:enumeration value="Audiovisual" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">A series of visual representations imparting an impression
 of motion when shown in succession. May or may not include sound.</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Award" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">An umbrella term for resources provided to individual(s) or
 organization(s) in support of research, academic output, or training, such as a specific instance
 of funding, grant, investment, sponsorship, scholarship, recognition, or non-monetary materials.</
xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Book" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">A medium for recording information in the form of
 writing or images, typically composed of many pages bound together and protected by a cover.</
xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="BookChapter" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">One of the main divisions of a book.</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
```

```
      <xs:enumeration value="Collection" xml:lang="en">
        <xs:annotation>
          <xs:documentation xml:lang="en">An aggregation of resources, which may encompass collections
of one resourceType as well as those of mixed types. A collection is described as a group; its
parts may also be separately described.</xs:documentation>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="ComputationalNotebook" xml:lang="en">
        <xs:annotation>
          <xs:documentation xml:lang="en">A virtual notebook environment used for literate
programming.</xs:documentation>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="ConferencePaper" xml:lang="en">
        <xs:annotation>
          <xs:documentation xml:lang="en">Article that is written with the goal of being accepted to a
conference.</xs:documentation>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="ConferenceProceeding" xml:lang="en">
        <xs:annotation>
          <xs:documentation xml:lang="en">Collection of academic papers published in the context of an
academic conference.</xs:documentation>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="DataPaper" xml:lang="en">
        <xs:annotation>
          <xs:documentation xml:lang="en">A factual and objective publication with a focused
intent to identify and describe specific data, sets of data, or data collections to facilitate
discoverability.</xs:documentation>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="Dataset" xml:lang="en">
        <xs:annotation>
          <xs:documentation xml:lang="en">Data encoded in a defined structure.</xs:documentation>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="Dissertation" xml:lang="en">
        <xs:annotation>
          <xs:documentation xml:lang="en">A written essay, treatise, or thesis, especially one written
by a candidate for the degree of Doctor of Philosophy.</xs:documentation>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="Event" xml:lang="en">
        <xs:annotation>
          <xs:documentation xml:lang="en">A non-persistent, time-based occurrence.</xs:documentation>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="Image" xml:lang="en">
        <xs:annotation>
          <xs:documentation xml:lang="en">A visual representation other than text.</xs:documentation>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="Instrument" xml:lang="en">
        <xs:annotation>
          <xs:documentation xml:lang="en">A device, tool or apparatus used to obtain, measure and/or
analyze data.</xs:documentation>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="InteractiveResource" xml:lang="en">
        <xs:annotation>
          <xs:documentation xml:lang="en">A resource requiring interaction from the user to be
understood, executed, or experienced.</xs:documentation>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="Journal" xml:lang="en">
        <xs:annotation>
          <xs:documentation xml:lang="en">A scholarly publication consisting of articles that is
published regularly throughout the year.</xs:documentation>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="JournalArticle" xml:lang="en">
        <xs:annotation>
          <xs:documentation xml:lang="en">A written composition on a topic of interest, which forms a
separate part of a journal.</xs:documentation>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="Model" xml:lang="en">
        <xs:annotation>
          <xs:documentation xml:lang="en">An abstract, conceptual, graphical, mathematical or
visualization model that represents empirical objects, phenomena, or physical processes.</
xs:documentation>
        </xs:annotation>
```

```
    </xs:enumeration>
    <xs:enumeration value="OutputManagementPlan" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">A formal document that outlines how research outputs are to
 be handled both during a research project and after the project is completed.</xs:documentation>
        <xs:documentation xml:lang="en">Use this resource type for items that serve as the Data
 Management Plan (DMP) for a TigerData project.</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="PeerReview" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">Evaluation of scientific, academic, or professional work by
 others working in the same field.</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="PhysicalObject" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">A physical object or substance.</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Preprint" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">A version of a scholarly or scientific paper that
 precedes formal peer review and publication in a peer-reviewed scholarly or scientific journal.</
xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Project" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">A planned endeavor or activity, frequently collaborative,
 intended to achieve a particular aim using allocated resources such as budget, time, and
 expertise.</xs:documentation>
        <xs:documentation xml:lang="en">Use this resource type for all TigerData projects and
 subprojects.</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Report" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">A document that presents information in an organized format
 for a specific audience and purpose.</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Service" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">An organized system of apparatus, appliances, staff, etc.,
 for supplying some function(s) required by end users.</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Software" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">A computer program other than a computational notebook,
 in either source code (text) or compiled form. Use this type for general software components
 supporting scholarly research. Use the “ComputationalNotebook” value for virtual notebooks.</
xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Sound" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">A resource primarily intended to be heard.</
xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Standard" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">Something established by authority, custom, or general
 consent as a model, example, or point of reference.</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="StudyRegistration" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">A detailed, time-stamped description of a research
 plan, often openly shared in a registry or published in a journal before the study is conducted
 to lend accountability and transparency in the hypothesis generating and testing process.</
xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Text" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">A resource consisting primarily of words for reading that is
 not covered by any other textual resource type in this list.</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Workflow" xml:lang="en">
```

```
      <xs:annotation>
        <xs:documentation xml:lang="en">A structured series of steps which can be executed
 to produce a final outcome, allowing users a means to specify and enact their work in a more
 reproducible manner.</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Other" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">A type of resource not otherwise described by defined
 types.</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="README" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">A simple text file used to document important information
 about a containing resource.</xs:documentation>
        <xs:documentation xml:lang="en">Use this resource type for all items serving as README files
 for TigerData projects.</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="DataDocumentation" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">A resource used to document detailed information about data
 in a containing resource (e.g., a codebook or data dictionary).</xs:documentation>
        <xs:documentation xml:lang="en">Use this resource type for items serving as supplemental
 documentation to the README for a TigerData project.</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
  </xs:restriction>
</xs:simpleType>
```

Simple Type `licenseURIType`

Namespace	No namespace
Annotations	Standard type that defines the controlled vocabulary for the licenseURI attribute All standard specifications for licenses are drawn from https://spdx.org/licenses/
Diagram	
Type	restriction of xs:anyURI

Facets			
	enumeration	https://creativecommons.org/publicdomain/zero/1.0/	Creative Commons Public Domain Dedication 1.0 Universal CC0 1.0
	enumeration	https://creativecommons.org/licenses/by/4.0/	Creative Commons Attribution 4.0 International CC BY 4.0
	enumeration	https://creativecommons.org/licenses/by-sa/4.0/	Creative Commons Attribution-Sharealike 4.0 International CC BY-SA 4.0
	enumeration	https://creativecommons.org/licenses/by-nc/4.0/	Creative Commons Attribution-Noncommercial 4.0 International CC BY-NC 4.0
	enumeration	https://creativecommons.org/licenses/by-nc-sa/4.0/	Creative Commons Attribution-Noncommercial-Sharealike 4.0 International CC BY-NC-SA 4.0
	enumeration	https://creativecommons.org/licenses/by-nd/4.0/	Creative Commons Attribution-Noderivatives 4.0 International CC BY-ND 4.0
	enumeration	https://creativecommons.org/licenses/by-nc-nd/4.0/	Creative Commons Attribution-Noncommercial-Noderivatives 4.0 International CC BY-NC-ND 4.0
	enumeration	https://opensource.org/license/MIT	The MIT License MIT
Used by	Attribute	license/@licenseURI	

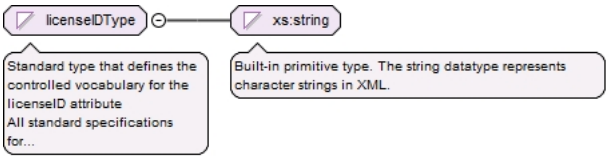
Source

```
<xs:simpleType name="licenseURIType">
  <xs:annotation>
    <xs:documentation xml:lang="en">Standard type that defines the controlled vocabulary for the
 licenseURI attribute</xs:documentation>
    <xs:documentation xml:lang="en">All standard specifications for licenses are drawn from https://
spdx.org/licenses/</xs:documentation>
  </xs:annotation>
  <xs:restriction base="xs:anyURI">
    <xs:enumeration value="https://creativecommons.org/publicdomain/zero/1.0/">
      <xs:annotation>
        <xs:documentation xml:lang="en">Creative Commons Public Domain Dedication 1.0 Universal</
xs:documentation>
        <xs:documentation xml:lang="en">CC0 1.0</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="https://creativecommons.org/licenses/by/4.0/">
      <xs:annotation>
        <xs:documentation xml:lang="en">Creative Commons Attribution 4.0 International</
xs:documentation>
        <xs:documentation xml:lang="en">CC BY 4.0</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="https://creativecommons.org/licenses/by-sa/4.0/">
      <xs:annotation>
        <xs:documentation xml:lang="en">Creative Commons Attribution-Sharealike 4.0 International</
xs:documentation>
        <xs:documentation xml:lang="en">CC BY-SA 4.0</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="https://creativecommons.org/licenses/by-nc/4.0/">
      <xs:annotation>
        <xs:documentation xml:lang="en">Creative Commons Attribution-Noncommercial 4.0
 International</xs:documentation>
        <xs:documentation xml:lang="en">CC BY-NC 4.0</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="https://creativecommons.org/licenses/by-nc-sa/4.0/">
      <xs:annotation>
        <xs:documentation xml:lang="en">Creative Commons Attribution-Noncommercial-Sharealike 4.0
 International</xs:documentation>
        <xs:documentation xml:lang="en">CC BY-NC-SA 4.0</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="https://creativecommons.org/licenses/by-nd/4.0/">
      <xs:annotation>
        <xs:documentation xml:lang="en">Creative Commons Attribution-Noderivatives 4.0
 International</xs:documentation>
        <xs:documentation xml:lang="en">CC BY-ND 4.0</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="https://creativecommons.org/licenses/by-nc-nd/4.0/">
      <xs:annotation>
        <xs:documentation xml:lang="en">Creative Commons Attribution-Noncommercial-Noderivatives 4.0
 International</xs:documentation>
        <xs:documentation xml:lang="en">CC BY-NC-ND 4.0</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="https://opensource.org/license/MIT">
      <xs:annotation>
        <xs:documentation xml:lang="en">The MIT License</xs:documentation>
        <xs:documentation xml:lang="en">MIT</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
  </xs:restriction>
</xs:simpleType>
```

Simple Type `licenseIDType`

Namespace	No namespace

Annotations	`Standard type that defines the controlled vocabulary for the licenseID attribute`
	
	`All standard specifications for licenses are drawn from https://spdx.org/licenses/`

Diagram	
Type	restriction of xs:string

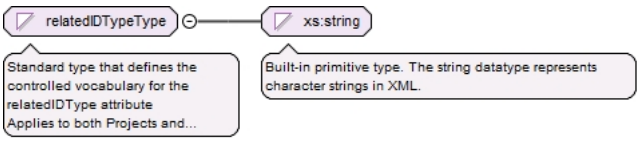
Facets	enumeration	CC0 1.0	Creative Commons Public Domain Dedication 1.0 Universal https://creativecommons.org/publicdomain/zero/1.0/
	enumeration	CC BY 4.0	Creative Commons Attribution 4.0 International https://creativecommons.org/licenses/by/4.0/
	enumeration	CC BY-SA 4.0	Creative Commons Attribution-Sharealike 4.0 International https://creativecommons.org/licenses/by-sa/4.0/
	enumeration	CC BY-NC 4.0	Creative Commons Attribution-Noncommercial 4.0 International https://creativecommons.org/licenses/by-nc/4.0/
	enumeration	CC BY-NC-SA 4.0	Creative Commons Attribution-Noncommercial-Sharealike 4.0 International https://creativecommons.org/licenses/by-nc-sa/4.0/
	enumeration	CC BY-ND 4.0	Creative Commons Attribution-Noderivatives 4.0 International https://creativecommons.org/licenses/by-nd/4.0/
	enumeration	CC BY-NC-ND 4.0	Creative Commons Attribution-Noncommercial-Noderivatives 4.0 International https://creativecommons.org/licenses/by-nc-nd/4.0/
	enumeration	MIT	The MIT License https://opensource.org/license/MIT
Used by	Attribute	license/@licenseID	

Source

```
<xs:simpleType name="licenseIDType">
  <xs:annotation>
    <xs:documentation xml:lang="en">Standard type that defines the controlled vocabulary for the
 licenseID attribute</xs:documentation>
    <xs:documentation xml:lang="en">All standard specifications for licenses are drawn from https://
spdx.org/licenses/</xs:documentation>
  </xs:annotation>
  <xs:restriction base="xs:string">
    <xs:enumeration value="CC0 1.0" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">Creative Commons Public Domain Dedication 1.0 Universal</
xs:documentation>
        <xs:documentation>https://creativecommons.org/publicdomain/zero/1.0/</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="CC BY 4.0" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">Creative Commons Attribution 4.0 International</
xs:documentation>
        <xs:documentation>https://creativecommons.org/licenses/by/4.0/</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="CC BY-SA 4.0" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">Creative Commons Attribution-Sharealike 4.0 International</
xs:documentation>
        <xs:documentation>https://creativecommons.org/licenses/by-sa/4.0/</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="CC BY-NC 4.0" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">Creative Commons Attribution-Noncommercial 4.0
 International</xs:documentation>
        <xs:documentation>https://creativecommons.org/licenses/by-nc/4.0/</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="CC BY-NC-SA 4.0" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">Creative Commons Attribution-Noncommercial-Sharealike 4.0
 International</xs:documentation>
        <xs:documentation>https://creativecommons.org/licenses/by-nc-sa/4.0/</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="CC BY-ND 4.0" xml:lang="en">
```

```
      <xs:annotation>
        <xs:documentation xml:lang="en">Creative Commons Attribution-Noderivatives 4.0
 International</xs:documentation>
        <xs:documentation>https://creativecommons.org/licenses/by-nd/4.0/</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="CC BY-NC-ND 4.0" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">Creative Commons Attribution-Noncommercial-Noderivatives 4.0
 International</xs:documentation>
        <xs:documentation>https://creativecommons.org/licenses/by-nc-nd/4.0/</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="MIT" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">The MIT License</xs:documentation>
        <xs:documentation>https://opensource.org/license/MIT</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
  </xs:restriction>
</xs:simpleType>
```

Simple Type `relatedIDTypeType`

Namespace	No namespace
Annotations	Standard type that defines the controlled vocabulary for the relatedIDType attribute Applies to both Projects and Items Derived from the DataCite controlled vocabulary for relatedIdentifierType (v4.6+) https://datacite-metadata-schema.readthedocs.io/en/4.6/appendices/appendix-1/relatedIdentifierType/ Appends a custom option for TigerData items: MFAID TigerData projects and subprojects should use DOI
Diagram	
Type	restriction of xs:string
Facets	enumeration — ARK — Archival Resource Key A URI designed to support long-term access to information objects. enumeration — arXiv — arXiv identifier arXiv.org is a repository of preprints of scientific papers in the fields of mathematics, physics, astronomy, computer science, quantitative biology, statistics, and quantitative finance. enumeration — bibcode — Astrophysics Data System bibliographic codes enumeration — CSTR — Common Science and Technology Resources Identifier CSTR is an identifier based on the Chinese National Standard GB/T 32843–2016 “Science and technology resource identification”, providing a unique identification service for scientific data, papers, scientific institutions, researchers, scientific instruments, patents and other scientific and technological resources. enumeration — DOI — Digital Object Identifier A character string used to uniquely identify an object. A DOI name is divided into two parts, a prefix and a suffix, separated by a slash. Use this type to reference TigerData projects enumeration — EAN13 — European Article Number (now renamed International Article Number, but retaining the original acronym)

		A 13-digit barcoding standard that is a superset of the original 12-digit Universal Product Code (UPC) system.
enumeration	EISSN	Electronic International Standard Serial Number ISSN used to identify periodicals in electronic form (eISSN or e-ISSN).
enumeration	Handle	This refers specifically to an ID in the Handle system operated by the Corporation for National Research Initiatives (CNRI).
enumeration	IGSN	International Generic Sample Number A code that uniquely identifies samples from our natural environment and related features-of-interest.
enumeration	ISBN	International Standard Book Number A unique numeric book identifier. There are 2 formats: a 10-digit ISBN format and a 13-digit ISBN.
enumeration	ISSN	International Standard Serial Number A unique 8-digit number used to identify a print or electronic periodical publication.
enumeration	ISTC	International Standard Text Code A unique “number” assigned to a textual work. An ISTC consists of 16 numbers and/or letters.
enumeration	LISSN	The linking ISSN or ISSN-L enables collocation or linking among different media versions of a continuing resource.
enumeration	LSID	Life Science Identifiers A unique identifier for data in the Life Science domain.
enumeration	PMID	PubMed identifier A unique number assigned to each PubMed record.
enumeration	PURL	Persistent Uniform Resource Locator A PURL has three parts: (1) a protocol, (2) a resolver address, and (3) a name.
enumeration	RRID	Research Resource IDentifier A character string used to uniquely identify key inputs to an experiment including the so-called “key biological resources” as defined by the National Institutes of Health, and related tools such as core facilities and databases. An RRID name is divided into two parts, the authority and a local identifier, separated by an underscore.
enumeration	UPC	Universal Product Code A barcode symbology used for tracking trade items in stores. Its most common form, the UPC-A, consists of 12 numerical digits.
enumeration	URL	Uniform Resource Locator Also known as web address, a URL is a specific character string that constitutes a reference to a resource.
enumeration	URN	Uniform Resource Name A unique and persistent identifier of an electronic document.
enumeration	w3id	Permanent identifier for Web applications Mostly used to publish vocabularies and ontologies. The letters ‘w3’ stand for “World Wide Web”.
enumeration	MFAID	A Mediaflux Asset ID number Include the domain and namespace to make the ID as persistent as possible

Use this type to reference TigerData items

Used by

Attribute supplementalMetadata/relations/relation/@relatedIDType

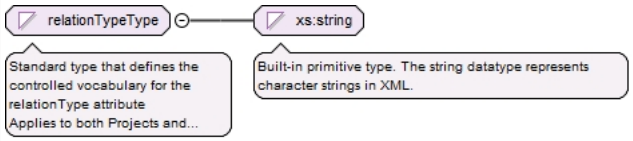
Source

```
<xs:simpleType name="relatedIDTypeType">
  <xs:annotation>
    <xs:documentation xml:lang="en">Standard type that defines the controlled vocabulary for the
 relatedIDType attribute</xs:documentation>
    <xs:documentation xml:lang="en">Applies to both Projects and Items</xs:documentation>
    <xs:documentation xml:lang="en">Derived from the DataCite controlled vocabulary for
 relatedIdentifierType (v4.6+)</xs:documentation>
    <xs:documentation>https://datacite-metadata-schema.readthedocs.io/en/4.6/appendices/appendix-1/
relatedIdentifierType/</xs:documentation>
    <xs:documentation xml:lang="en">Appends a custom option for TigerData items: MFAID</
xs:documentation>
    <xs:documentation xml:lang="en">TigerData projects and subprojects should use DOI</
xs:documentation>
  </xs:annotation>
  <xs:restriction base="xs:string">
    <xs:enumeration value="ARK" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">Archival Resource Key</xs:documentation>
        <xs:documentation xml:lang="en">A URI designed to support long-term access to information
 objects.</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="arXiv" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">arXiv identifier</xs:documentation>
        <xs:documentation xml:lang="en">arXiv.org is a repository of preprints of scientific
 papers in the fields of mathematics, physics, astronomy, computer science, quantitative biology,
 statistics, and quantitative finance.</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="bibcode" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">Astrophysics Data System bibliographic codes</
xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="CSTR" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">Common Science and Technology Resources Identifier</
xs:documentation>
        <xs:documentation xml:lang="en">CSTR is an identifier based on the Chinese National Standard
 GB/T 32843–2016 “Science and technology resource identification”, providing a unique identification
 service for scientific data, papers, scientific institutions, researchers, scientific instruments,
 patents and other scientific and technological resources.</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="DOI" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">Digital Object Identifier</xs:documentation>
        <xs:documentation xml:lang="en">A character string used to uniquely identify an object. A
 DOI name is divided into two parts, a prefix and a suffix, separated by a slash.</xs:documentation>
        <xs:documentation xml:lang="en">Use this type to reference TigerData projects</
xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="EAN13" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">European Article Number (now renamed International Article
 Number, but retaining the original acronym)</xs:documentation>
        <xs:documentation xml:lang="en">A 13-digit barcoding standard that is a superset of the
 original 12-digit Universal Product Code (UPC) system.</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="EISSN" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">Electronic International Standard Serial Number</
xs:documentation>
        <xs:documentation xml:lang="en">ISSN used to identify periodicals in electronic form (eISSN
 or e-ISSN).</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Handle" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">This refers specifically to an ID in the Handle system
 operated by the Corporation for National Research Initiatives (CNRI).</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="IGSN" xml:lang="en">
      <xs:annotation>
```

```
        <xs:documentation xml:lang="en">International Generic Sample Number</xs:documentation>
        <xs:documentation xml:lang="en">A code that uniquely identifies samples from our natural
 environment and related features-of-interest.</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="ISBN" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">International Standard Book Number</xs:documentation>
        <xs:documentation xml:lang="en">A unique numeric book identifier. There are 2 formats: a 10-
digit ISBN format and a 13-digit ISBN.</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="ISSN" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">International Standard Serial Number</xs:documentation>
        <xs:documentation xml:lang="en">A unique 8-digit number used to identify a print or
 electronic periodical publication.</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="ISTC" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">International Standard Text Code</xs:documentation>
        <xs:documentation xml:lang="en">A unique “number” assigned to a textual work. An ISTC
 consists of 16 numbers and/or letters.</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="LISSN" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">The linking ISSN or ISSN-L enables collocation or linking
 among different media versions of a continuing resource.</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="LSID" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">Life Science Identifiers</xs:documentation>
        <xs:documentation xml:lang="en">A unique identifier for data in the Life Science domain.</
xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="PMID" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">PubMed identifier</xs:documentation>
        <xs:documentation xml:lang="en">A unique number assigned to each PubMed record.</
xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="PURL" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">Persistent Uniform Resource Locator</xs:documentation>
        <xs:documentation xml:lang="en">A PURL has three parts: (1) a protocol, (2) a resolver
 address, and (3) a name.</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="RRID" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">Research Resource IDentifier</xs:documentation>
        <xs:documentation xml:lang="en">A character string used to uniquely identify key inputs
 to an experiment including the so-called “key biological resources” as defined by the National
 Institutes of Health, and related tools such as core facilities and databases. An RRID name
 is divided into two parts, the authority and a local identifier, separated by an underscore.</
xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="UPC" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">Universal Product Code</xs:documentation>
        <xs:documentation xml:lang="en">A barcode symbology used for tracking trade items in stores.
 Its most common form, the UPC-A, consists of 12 numerical digits.</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="URL" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">Uniform Resource Locator</xs:documentation>
        <xs:documentation xml:lang="en">Also known as web address, a URL is a specific character
 string that constitutes a reference to a resource.</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="URN" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">Uniform Resource Name</xs:documentation>
        <xs:documentation xml:lang="en">A unique and persistent identifier of an electronic
 document.</xs:documentation>
      </xs:annotation>
```

```
    </xs:enumeration>
    <xs:enumeration value="w3id" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">Permanent identifier for Web applications</xs:documentation>
        <xs:documentation xml:lang="en">Mostly used to publish vocabularies and ontologies. The
 letters ‘w3’ stand for “World Wide Web”.</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="MFAID" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">A Mediaflux Asset ID number</xs:documentation>
        <xs:documentation xml:lang="en">Include the domain and namespace to make the ID as
 persistent as possible</xs:documentation>
        <xs:documentation xml:lang="en">Use this type to reference TigerData items</
xs:documentation>
      </xs:annotation>
    </xs:enumeration>
  </xs:restriction>
</xs:simpleType>
```

Simple Type `relationTypeType`

Namespace	No namespace
Annotations	Standard type that defines the controlled vocabulary for the relationType attribute Applies to both Projects and Items Derived from the DataCite controlled vocabulary for relationType (v4.6+) https://datacite-metadata-schema.readthedocs.io/en/4.6/appendices/appendix-1/relationType/ The value is applied to object A to denote its relation to object B Appends custom options for TigerData: HasSubproject, IsSubprojectOf, HasItem, and IsItemOf Formal parent-child relationships between TigerData resources are called out in the parentProject field, and they can be further specified by relationType
Diagram	
Type	restriction of xs:string
Facets	

enumeration	IsCitedBy	B includes A in a citation
enumeration	Cites	A includes B in a citation
enumeration	IsSupplementTo	A is a supplement to B
enumeration	IsSupplementedBy	B is a supplement to A
enumeration	IsContinuedBy	A is continued by the work B
enumeration	Continues	A is a continuation of the work B
enumeration	Describes	A describes B
enumeration	IsDescribedBy	A is described by B
enumeration	HasMetadata	A has additional metadata B
enumeration	IsMetadataFor	Indicates additional metadata A for a resource B
enumeration	HasVersion	A has a version B
enumeration	IsVersionOf	A is a version of B
enumeration	IsNewVersionOf	A is a new edition of B, where the new edition has been modified or updated
enumeration	IsPreviousVersionOf	A is a previous edition of B
enumeration	IsPartOf	A is a portion of B; may be used for elements of a series Do not use for formal parent-child relationships between TigerData projects, subprojects, or items
enumeration	HasPart	A includes the part B Do not use for formal parent-child relationships between TigerData projects, subprojects, or items

	enumeration	IsPublishedIn	A is published inside B, but is independent of other things published inside of B
	enumeration	IsReferencedBy	A is used as a source of information by B
	enumeration	References	B is used as a source of information for A
	enumeration	IsDocumentedBy	B is documentation about/explaining A
	enumeration	Documents	A is documentation about/explaining B
	enumeration	IsCompiledBy	B is used to compile or create A
	enumeration	Compiles	B is the result of a compile or creation event using A
	enumeration	IsVariantFormOf	A is a variant or different form of B
	enumeration	IsOriginalFormOf	A is the original form of B
	enumeration	IsIdenticalTo	A is identical to B, for use when there is a need to register two separate instances of the same resource
	enumeration	IsReviewedBy	A is reviewed by B
	enumeration	Reviews	A is a review of B
	enumeration	IsDerivedFrom	B is a source upon which A is based
	enumeration	IsSourceOf	A is a source upon which B is based
	enumeration	IsRequiredBy	A is required by B
	enumeration	Requires	A requires B
	enumeration	Obsoletes	A replaces B
	enumeration	IsObsoletedBy	A is replaced by B
	enumeration	IsCollectedBy	A is collected by B
	enumeration	Collects	A collects B
	enumeration	IsTranslationOf	A is a translation of B
	enumeration	HasTranslation	A has a translation B
	enumeration	HasSubproject	A and B are both projects, and A includes B as a subproject Use only with formal relationships between TigerData projects and subprojects
	enumeration	IsSubprojectOf	A and B are both projects, and B includes A as a subproject Use only with formal relationships between TigerData projects and subprojects
	enumeration	HasItem	A is either a project or an item, B is an item, and A includes B Use only with formal relationships between TigerData projects and/or items
	enumeration	IsItemOf	A is an item, B is either a project or an item, and B includes A Use only with formal relationships between TigerData projects and/or items
Used by	Attribute	supplementalMetadata/relations/relation/@relationType	

Source

```
<xs:simpleType name="relationTypeType">
  <xs:annotation>
    <xs:documentation xml:lang="en">Standard type that defines the controlled vocabulary for the
 relationType attribute</xs:documentation>
    <xs:documentation xml:lang="en">Applies to both Projects and Items</xs:documentation>
    <xs:documentation xml:lang="en">Derived from the DataCite controlled vocabulary for relationType
 (v4.6+)</xs:documentation>
    <xs:documentation>https://datacite-metadata-schema.readthedocs.io/en/4.6/appendices/appendix-1/
relationType/</xs:documentation>
    <xs:documentation xml:lang="en">The value is applied to object A to denote its relation to
 object B</xs:documentation>
    <xs:documentation xml:lang="en">Appends custom options for TigerData: HasSubproject,
 IsSubprojectOf, HasItem, and IsItemOf</xs:documentation>
    <xs:documentation xml:lang="en">Formal parent-child relationships between TigerData resources
 are called out in the parentProject field, and they can be further specified by relationType</
xs:documentation>
  </xs:annotation>
  <xs:restriction base="xs:string">
```

```
      <xs:enumeration value="IsCitedBy" xml:lang="en">
        <xs:annotation>
          <xs:documentation xml:lang="en">B includes A in a citation</xs:documentation>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="Cites" xml:lang="en">
        <xs:annotation>
          <xs:documentation xml:lang="en">A includes B in a citation</xs:documentation>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="IsSupplementTo" xml:lang="en">
        <xs:annotation>
          <xs:documentation xml:lang="en">A is a supplement to B</xs:documentation>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="IsSupplementedBy" xml:lang="en">
        <xs:annotation>
          <xs:documentation xml:lang="en">B is a supplement to A</xs:documentation>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="IsContinuedBy" xml:lang="en">
        <xs:annotation>
          <xs:documentation xml:lang="en">A is continued by the work B</xs:documentation>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="Continues" xml:lang="en">
        <xs:annotation>
          <xs:documentation xml:lang="en">A is a continuation of the work B</xs:documentation>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="Describes" xml:lang="en">
        <xs:annotation>
          <xs:documentation xml:lang="en">A describes B</xs:documentation>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="IsDescribedBy" xml:lang="en">
        <xs:annotation>
          <xs:documentation xml:lang="en">A is described by B</xs:documentation>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="HasMetadata" xml:lang="en">
        <xs:annotation>
          <xs:documentation xml:lang="en">A has additional metadata B</xs:documentation>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="IsMetadataFor" xml:lang="en">
        <xs:annotation>
          <xs:documentation xml:lang="en">Indicates additional metadata A for a resource B</
xs:documentation>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="HasVersion" xml:lang="en">
        <xs:annotation>
          <xs:documentation xml:lang="en">A has a version B</xs:documentation>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="IsVersionOf" xml:lang="en">
        <xs:annotation>
          <xs:documentation xml:lang="en">A is a version of B</xs:documentation>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="IsNewVersionOf" xml:lang="en">
        <xs:annotation>
          <xs:documentation xml:lang="en">A is a new edition of B, where the new edition has been
 modified or updated</xs:documentation>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="IsPreviousVersionOf" xml:lang="en">
        <xs:annotation>
          <xs:documentation xml:lang="en">A is a previous edition of B</xs:documentation>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="IsPartOf" xml:lang="en">
        <xs:annotation>
          <xs:documentation xml:lang="en">A is a portion of B; may be used for elements of a series</
xs:documentation>
          <xs:documentation xml:lang="en">Do not use for formal parent-child relationships between
 TigerData projects, subprojects, or items</xs:documentation>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="HasPart" xml:lang="en">
        <xs:annotation>
          <xs:documentation xml:lang="en">A includes the part B</xs:documentation>
```

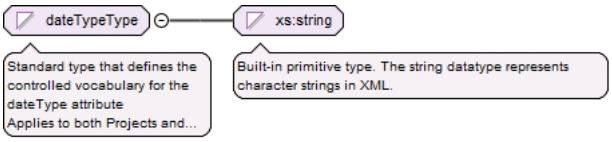
```
        <xs:documentation xml:lang="en">Do not use for formal parent-child relationships between
 TigerData projects, subprojects, or items</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="IsPublishedIn" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">A is published inside B, but is independent of other things
 published inside of B</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="IsReferencedBy" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">A is used as a source of information by B</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="References" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">B is used as a source of information for A</
xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="IsDocumentedBy" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">B is documentation about/explaining A</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Documents" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">A is documentation about/explaining B</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="IsCompiledBy" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">B is used to compile or create A</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Compiles" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">B is the result of a compile or creation event using A</
xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="IsVariantFormOf" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">A is a variant or different form of B</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="IsOriginalFormOf" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">A is the original form of B</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="IsIdenticalTo" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">A is identical to B, for use when there is a need to
 register two separate instances of the same resource</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="IsReviewedBy" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">A is reviewed by B</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Reviews" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">A is a review of B</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="IsDerivedFrom" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">B is a source upon which A is based</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="IsSourceOf" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">A is a source upon which B is based</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="IsRequiredBy" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">A is required by B</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
```

```
      <xs:enumeration value="Requires" xml:lang="en">
        <xs:annotation>
          <xs:documentation xml:lang="en">A requires B</xs:documentation>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="Obsoletes" xml:lang="en">
        <xs:annotation>
          <xs:documentation xml:lang="en">A replaces B</xs:documentation>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="IsObsoletedBy" xml:lang="en">
        <xs:annotation>
          <xs:documentation xml:lang="en">A is replaced by B</xs:documentation>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="IsCollectedBy" xml:lang="en">
        <xs:annotation>
          <xs:documentation xml:lang="en">A is collected by B</xs:documentation>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="Collects" xml:lang="en">
        <xs:annotation>
          <xs:documentation xml:lang="en">A collects B</xs:documentation>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="IsTranslationOf" xml:lang="en">
        <xs:annotation>
          <xs:documentation xml:lang="en">A is a translation of B</xs:documentation>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="HasTranslation" xml:lang="en">
        <xs:annotation>
          <xs:documentation xml:lang="en">A has a translation B</xs:documentation>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="HasSubproject" xml:lang="en">
        <xs:annotation>
          <xs:documentation xml:lang="en">A and B are both projects, and A includes B as a
 subproject</xs:documentation>
          <xs:documentation xml:lang="en">Use only with formal relationships between TigerData
 projects and subprojects</xs:documentation>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="IsSubprojectOf" xml:lang="en">
        <xs:annotation>
          <xs:documentation xml:lang="en">A and B are both projects, and B includes A as a
 subproject</xs:documentation>
          <xs:documentation xml:lang="en">Use only with formal relationships between TigerData
 projects and subprojects</xs:documentation>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="HasItem" xml:lang="en">
        <xs:annotation>
          <xs:documentation xml:lang="en">A is either a project or an item, B is an item, and A
 includes B</xs:documentation>
          <xs:documentation xml:lang="en">Use only with formal relationships between TigerData
 projects and/or items</xs:documentation>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="IsItemOf" xml:lang="en">
        <xs:annotation>
          <xs:documentation xml:lang="en">A is an item, B is either a project or an item, and B
 includes A</xs:documentation>
          <xs:documentation xml:lang="en">Use only with formal relationships between TigerData
 projects and/or items</xs:documentation>
        </xs:annotation>
      </xs:enumeration>
    </xs:restriction>
  </xs:simpleType>
```

Simple Type `dateTypeType`

Namespace	No namespace
Annotations	Standard type that defines the controlled vocabulary for the dateType attribute Applies to both Projects and Items Derived from the DataCite controlled vocabulary for dateType (v4.6+) https://datacite-metadata-schema.readthedocs.io/en/4.6/appendices/appendix-1/dateType/

Diagram



Type

restriction of xs:string

Facets

enumeration	Accepted	The date that the publisher accepted the resource into their system.
enumeration	Available	The date the resource is made publicly available. May be a range.
enumeration	Copyrighted	The specific, documented date at which the resource receives a copyrighted status, if applicable.
enumeration	Collected	The date or date range in which the resource content was collected.
enumeration	Created	The date the resource itself was put together; this could refer to a timeframe in ancient history, a date range, or a single date for a final component, e.g., the finalised file with all the data.
enumeration	Issued	The date that the resource is published or distributed, e.g., to a data centre.
enumeration	Submitted	The date the creator submits the resource to the publisher. This could be different from Accepted if the publisher then applies a selection process.
enumeration	Updated	The date of the last update to the resource, when the resource is being added to. May be a range.
enumeration	Valid	The date or date range during which the dataset or resource is accurate.
enumeration	Withdrawn	The date the resource is removed.
enumeration	Other	Other date that does not fit into an existing category.

Used by

Attribute otherDate/@dateType

Source

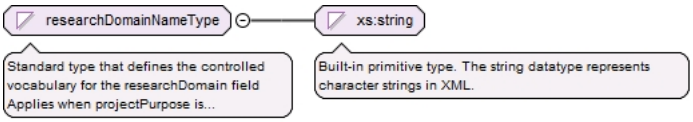
```
<xs:simpleType name="dateTypeType">
  <xs:annotation>
    <xs:documentation xml:lang="en">Standard type that defines the controlled vocabulary for the
 dateType attribute</xs:documentation>
    <xs:documentation xml:lang="en">Applies to both Projects and Items</xs:documentation>
    <xs:documentation xml:lang="en">Derived from the DataCite controlled vocabulary for dateType
 (v4.6+)</xs:documentation>
    <xs:documentation>https://datacite-metadata-schema.readthedocs.io/en/4.6/appendices/appendix-1/
dateType/</xs:documentation>
  </xs:annotation>
  <xs:restriction base="xs:string">
    <xs:enumeration value="Accepted" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">The date that the publisher accepted the resource into their
 system.</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Available" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">The date the resource is made publicly available. May be a
 range.</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Copyrighted" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">The specific, documented date at which the resource receives
 a copyrighted status, if applicable.</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Collected" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">The date or date range in which the resource content was
 collected.</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Created" xml:lang="en">
      <xs:annotation>
```

```
        <xs:documentation xml:lang="en">The date the resource itself was put together; this could
 refer to a timeframe in ancient history, a date range, or a single date for a final component,
 e.g., the finalised file with all the data.</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Issued" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">The date that the resource is published or distributed,
 e.g., to a data centre.</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Submitted" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">The date the creator submits the resource to the publisher.
 This could be different from Accepted if the publisher then applies a selection process.</
xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Updated" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">The date of the last update to the resource, when the
 resource is being added to. May be a range.</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Valid" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">The date or date range during which the dataset or resource
 is accurate.</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Withdrawn" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">The date the resource is removed.</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Other" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">Other date that does not fit into an existing category.</
xs:documentation>
      </xs:annotation>
    </xs:enumeration>
  </xs:restriction>
</xs:simpleType>
```

Simple Type `researchDomainNameType`

Namespace	No namespace

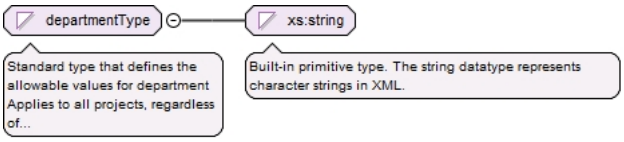
Annotations	`Standard type that defines the controlled vocabulary for the researchDomain field`
	
	`Applies when projectPurpose is Research`
	
	`Options are limited to the 4 domains Princeton University uses to categorize academic departments`

Diagram	
Type	restriction of xs:string
Facets	enumeration: `Natural Sciences` enumeration: `Engineering` enumeration: `Social Sciences` enumeration: `Humanities`
Used by	Element: projectDescription/researchDomains/researchDomain
Source	

```
<xs:simpleType name="researchDomainNameType">
  <xs:annotation>
    <xs:documentation xml:lang="en">Standard type that defines the controlled vocabulary for the
 researchDomain field</xs:documentation>
    <xs:documentation xml:lang="en">Applies when projectPurpose is Research</xs:documentation>
    <xs:documentation xml:lang="en">Options are limited to the 4 domains Princeton University uses
 to categorize academic departments</xs:documentation>
  </xs:annotation>
  <xs:restriction base="xs:string">
    <xs:enumeration value="Natural Sciences" xml:lang="en"/>
    <xs:enumeration value="Engineering" xml:lang="en"/>
```

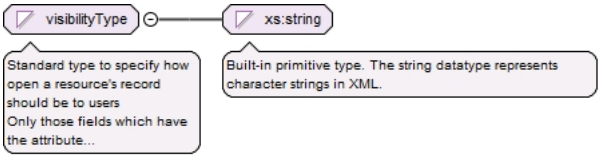
```
    <xs:enumeration value="Social Sciences" xml:lang="en"/>
    <xs:enumeration value="Humanities" xml:lang="en"/>
  </xs:restriction>
</xs:simpleType>
```

Simple Type `departmentType`

Namespace	No namespace
Annotations	Standard type that defines the allowable values for department Applies to all projects, regardless of projectPurpose Princeton department names typically start with a 2- or 3-character abbreviation, followed by a minus-dash, and then a short description; however, several exceptions exist The enforceable pattern is a string length from 6 to 38 (the real string max is 30, but we need to account for XML escape sequences for special characters)
Diagram	
Type	restriction of xs:string
Facets	minLength 6 maxLength 38
Used by	Element projectDescription/departments/department

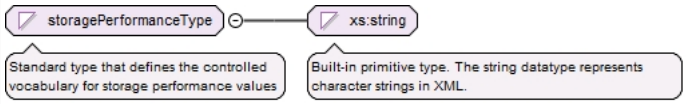
Source	`<xs:simpleType name="departmentType">`
	`  <xs:annotation>`
	`  <xs:documentation xml:lang="en">Standard type that defines the allowable values for department</xs:documentation>`
	`  <xs:documentation xml:lang="en">Applies to all projects, regardless of projectPurpose</xs:documentation>`
	`  <xs:documentation xml:lang="en">Princeton department names typically start with a 2- or 3-character abbreviation, followed by a minus-dash, and then a short description; however, several exceptions exist</xs:documentation>`
	`  <xs:documentation xml:lang="en">The enforceable pattern is a string length from 6 to 38 (the real string max is 30, but we need to account for XML escape sequences for special characters)</xs:documentation>`
	`  </xs:annotation>`
	`  <xs:restriction base="xs:string">`
	`  <xs:minLength value="6"/>`
	`  <xs:maxLength value="38"/>`
	`  </xs:restriction>`
	`</xs:simpleType>`

Simple Type `visibilityType`

Namespace	No namespace
Annotations	Standard type to specify how open a resource's record should be to users Only those fields which have the attribute discoverable set to true can be made visible
Diagram	
Type	restriction of xs:string
Facets	enumeration `Restricted` — Visibility is restricted to those assigned explicit roles on the resource enumeration `Limited` — Visibility is limited to TigerData users enumeration `Open` — Visibility is open to the general public
Used by	Element storageAndAccess/projectVisibility
Source	`<xs:simpleType name="visibilityType">` `  <xs:annotation>`

```
    <xs:documentation xml:lang="en">Standard type to specify how open a resource's record should be
 to users</xs:documentation>
    <xs:documentation xml:lang="en">Only those fields which have the attribute discoverable set to
 true can be made visible</xs:documentation>
  </xs:annotation>
  <xs:restriction base="xs:string">
    <xs:enumeration value="Restricted" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">Visibility is restricted to those assigned explicit roles on
 the resource</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Limited" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">Visibility is limited to TigerData users</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Open" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">Visibility is open to the general public</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
  </xs:restriction>
</xs:simpleType>
```

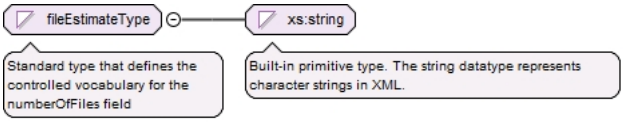
Simple Type `storagePerformanceType`

Namespace	No namespace
Annotations	Standard type that defines the controlled vocabulary for storage performance values
Diagram	
Type	restriction of xs:string
Facets	enumeration `Eco` — The most economical storage tier available in TigerData (lowest cost and smallest carbon footprint) Appropriate for long-term/low-use data, i.e. cold storage The typical implementation is an object store system, e.g. IBM Cloud Object Storage enumeration `Standard` — The middle storage tier for TigerData, expected as a default Appropriate for data that is accessed occasionally but infrequently edited, i.e. cool storage The typical implementation is a network attached storage system, e.g. Dell PowerScale enumeration `Premium` — The most performant storage tier available in TigerData Reserved for actively edited data that needs to be close to high performance computing systems, i.e. warm storage The typical implementation is a cluster file system, e.g. IBM General Parallel File System A special request may be required for this tier
Used by	Elements storageAndAccess/storagePerformance/approvedValue, storageAndAccess/storagePerformance/requestedValue, storageAndAccess/storagePerformance/storagePerformanceSetting
Source	

```
<xs:simpleType name="storagePerformanceType">
  <xs:annotation>
    <xs:documentation xml:lang="en">Standard type that defines the controlled vocabulary for storage
 performance values</xs:documentation>
  </xs:annotation>
  <xs:restriction base="xs:string">
    <xs:enumeration value="Eco" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">The most economical storage tier available in TigerData
 (lowest cost and smallest carbon footprint)</xs:documentation>
        <xs:documentation xml:lang="en">Appropriate for long-term/low-use data, i.e. cold storage</
xs:documentation>
```

```
        <xs:documentation xml:lang="en">The typical implementation is an object store system, e.g.
 IBM Cloud Object Storage</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Standard" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">The middle storage tier for TigerData, expected as a
 default</xs:documentation>
        <xs:documentation xml:lang="en">Appropriate for data that is accessed occasionally but
 infrequently edited, i.e. cool storage</xs:documentation>
        <xs:documentation xml:lang="en">The typical implementation is a network attached storage
 system, e.g. Dell PowerScale</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Premium" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">The most performant storage tier available in TigerData</
xs:documentation>
        <xs:documentation xml:lang="en">Reserved for actively edited data that needs to be close to
 high performance computing systems, i.e. warm storage</xs:documentation>
        <xs:documentation xml:lang="en">The typical implementation is a cluster file system, e.g.
 IBM General Parallel File System</xs:documentation>
        <xs:documentation xml:lang="en">A special request may be required for this tier</
xs:documentation>
      </xs:annotation>
    </xs:enumeration>
  </xs:restriction>
</xs:simpleType>
```

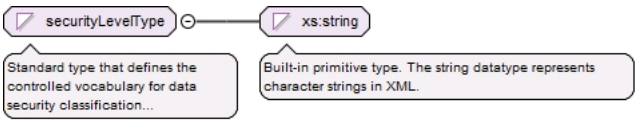
Simple Type `fileEstimateType`

Namespace	No namespace
Annotations	Standard type that defines the controlled vocabulary for the numberOfFiles field
Diagram	
Type	restriction of xs:string
Facets	enumeration: Less than 10,000 — The project is estimated to include less than 10,000 files at any one time enumeration: 10k - 100k — The project is estimated to include between 10,000 and 100,000 files at any one time enumeration: 100k - 1mil — The project is estimated to include between 100,000 and 1,000,000 files at any one time enumeration: More than 1 million — The project is estimated to include more than 1,000,000 files at any one time A special request may be required for this largest category
Used by	Element storageAndAccess/numberOfFiles
Source	

```
<xs:simpleType name="fileEstimateType">
  <xs:annotation>
    <xs:documentation xml:lang="en">Standard type that defines the controlled vocabulary for the
 numberOfFiles field</xs:documentation>
  </xs:annotation>
  <xs:restriction base="xs:string">
    <xs:enumeration value="Less than 10,000" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">The project is estimated to include less than 10,000 files
 at any one time</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="10k - 100k" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">The project is estimated to include between 10,000 and
 100,000 files at any one time</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="100k - 1mil" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">The project is estimated to include between 100,000 and
 1,000,000 files at any one time</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
```

```
    <xs:enumeration value="More than 1 million" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">The project is estimated to include more than 1,000,000
 files at any one time</xs:documentation>
        <xs:documentation xml:lang="en">A special request may be required for this largest
 category</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
  </xs:restriction>
</xs:simpleType>
```

Simple Type `securityLevelType`

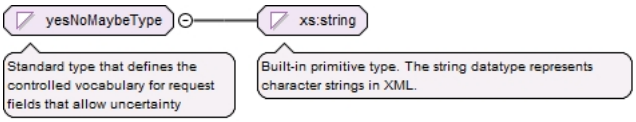
Namespace	No namespace
Annotations	Standard type that defines the controlled vocabulary for data security classification levels https://protectingourinfo.princeton.edu/classify Level 4 is beyond the scope of TigerData
Diagram	
Type	restriction of xs:string
Facets	enumeration — Level 0 - Public — Intended to be freely shared or disclosed inside and outside of Princeton University enumeration — Level 1 - Internal — Intended to be used only by Princeton University staff, faculty or students, and not for public disclosure enumeration — Level 2 - Confidential — Requires careful handling and protection due to contractual, regulatory, proprietary, or privacy considerations Requires TigerData Secure enumeration — Level 3 - Restricted — Subject to restrictive data security regulations and/or privacy protections, e.g. HIPAA Requires TigerData Secure
Used by	Elements — storageAndAccess/securityLevel/approvedValue, storageAndAccess/securityLevel/requestedValue, storageAndAccess/securityLevel/securityLevelSetting

Source

```
<xs:simpleType name="securityLevelType">
  <xs:annotation>
    <xs:documentation xml:lang="en">Standard type that defines the controlled vocabulary for data
 security classification levels</xs:documentation>
    <xs:documentation>https://protectingourinfo.princeton.edu/classify</xs:documentation>
    <xs:documentation xml:lang="en">Level 4 is beyond the scope of TigerData</xs:documentation>
  </xs:annotation>
  <xs:restriction base="xs:string">
    <xs:enumeration value="Level 0 - Public" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">Intended to be freely shared or disclosed inside and outside
 of Princeton University</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Level 1 - Internal" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">Intended to be used only by Princeton University staff,
 faculty or students, and not for public disclosure</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Level 2 - Confidential" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">Requires careful handling and protection due to contractual,
 regulatory, proprietary, or privacy considerations</xs:documentation>
        <xs:documentation xml:lang="en">Requires TigerData Secure</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Level 3 - Restricted" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">Subject to restrictive data security regulations and/or
 privacy protections, e.g. HIPAA</xs:documentation>
        <xs:documentation xml:lang="en">Requires TigerData Secure</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
```

```
  </xs:restriction>
</xs:simpleType>
```

Simple Type `yesNoMaybeType`

Namespace	No namespace
Annotations	`Standard type that defines the controlled vocabulary for request fields that allow uncertainty`
Diagram	
Type	restriction of xs:string

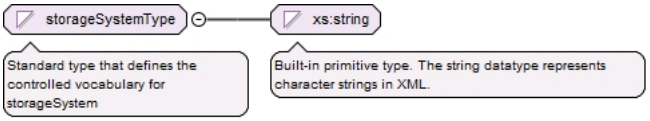
Facets	enumeration `No` — `The requester does not need the option (typically, the default)`
	`Usually, when approved, applied as a false setting`
	enumeration `Yes` — `The requester needs the option`
	`Usually, when approved, applied as a true setting`
	enumeration `Maybe` — `The requester is unsure whether they will need the option`
	`More conversation may be required to clarify before approval`

Used by	Elements storageAndAccess/accessPoints/globusEnable/requestedValue, storageAndAccess/accessPoints/hpcEnable/requestedValue, storageAndAccess/accessPoints/smbEnable/requestedValue

Source

```
<xs:simpleType name="yesNoMaybeType">
  <xs:annotation>
    <xs:documentation xml:lang="en">Standard type that defines the controlled vocabulary for request
 fields that allow uncertainty</xs:documentation>
  </xs:annotation>
  <xs:restriction base="xs:string">
    <xs:enumeration value="No" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">The requester does not need the option (typically, the
 default)</xs:documentation>
        <xs:documentation xml:lang="en">Usually, when approved, applied as a false setting</
xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Yes" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">The requester needs the option</xs:documentation>
        <xs:documentation xml:lang="en">Usually, when approved, applied as a true setting</
xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Maybe" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">The requester is unsure whether they will need the option</
xs:documentation>
        <xs:documentation xml:lang="en">More conversation may be required to clarify before
 approval</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
  </xs:restriction>
</xs:simpleType>
```

Simple Type `storageSystemType`

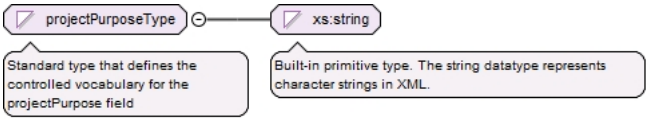
Namespace	No namespace
Annotations	`Standard type that defines the controlled vocabulary for storageSystem`
Diagram	
Type	restriction of xs:string

Facets	enumeration	TigerData	The storage system is TigerData (for all in-band projects)
	enumeration	/projects	The storage system is /projects (out-of-band)
	enumeration	Della /scratch/gpfs	The storage system is /scratch/gpfs on the Della cluster (out-of-band)
	enumeration	Tiger /scratch/gpfs	The storage system is /scratch/gpfs on the Tiger cluster (out-of-band)
	enumeration	Stellar /scratch/gpfs	The storage system is /scratch/gpfs on the Stellar cluster (out-of-band)
	enumeration	StellarAI /scratch/gpfs	The storage system is /scratch/gpfs on the StellarAI cluster (out-of-band)
Used by	Element	storageAndAccess/storageSystem	

Source

```
<xs:simpleType name="storageSystemType">
  <xs:annotation>
    <xs:documentation xml:lang="en">Standard type that defines the controlled vocabulary for
 storageSystem</xs:documentation>
  </xs:annotation>
  <xs:restriction base="xs:string">
    <xs:enumeration value="TigerData" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">The storage system is TigerData (for all in-band projects)</
xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="/projects" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">The storage system is /projects (out-of-band)</
xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Della /scratch/gpfs" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">The storage system is /scratch/gpfs on the Della cluster
 (out-of-band)</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Tiger /scratch/gpfs" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">The storage system is /scratch/gpfs on the Tiger cluster
 (out-of-band)</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Stellar /scratch/gpfs" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">The storage system is /scratch/gpfs on the Stellar cluster
 (out-of-band)</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="StellarAI /scratch/gpfs" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">The storage system is /scratch/gpfs on the StellarAI cluster
 (out-of-band)</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
  </xs:restriction>
</xs:simpleType>
```

Simple Type projectPurposeType

Namespace	No namespace
Annotations	Standard type that defines the controlled vocabulary for the projectPurpose field
Diagram	
Type	restriction of xs:string

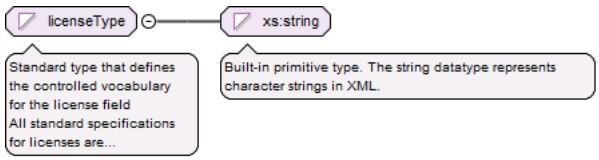
Facets	enumeration	Research	The project is intended to contain mainly research data This includes projects for labs and research groups; it is not restricted to one specific research project

	enumeration	Administrative	The project is intended to contain mainly administrative data This includes library and other staff-managed archive use-cases
	enumeration	Teaching	The project is intended to contain mainly data related to teaching and learning activities
Used by	Element	additionalProjectInformation/projectPurpose	

Source

```
<xs:simpleType name="projectPurposeType">
  <xs:annotation>
    <xs:documentation xml:lang="en">Standard type that defines the controlled vocabulary for the
 projectPurpose field</xs:documentation>
  </xs:annotation>
  <xs:restriction base="xs:string">
    <xs:enumeration value="Research" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">The project is intended to contain mainly research data</
xs:documentation>
        <xs:documentation xml:lang="en">This includes projects for labs and research groups; it is
 not restricted to one specific research project</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Administrative" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">The project is intended to contain mainly administrative
 data</xs:documentation>
        <xs:documentation xml:lang="en">This includes library and other staff-managed archive use-
cases</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Teaching" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">The project is intended to contain mainly data related to
 teaching and learning activities</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
  </xs:restriction>
</xs:simpleType>
```

Simple Type licenseType

Namespace	No namespace
Annotations	Standard type that defines the controlled vocabulary for the license field All standard specifications for licenses are drawn from https://spdx.org/licenses/
Diagram	
Type	restriction of xs:string

Facets

enumeration	Creative Commons Public Domain Dedication 1.0 Universal	CC0 1.0 https://creativecommons.org/publicdomain/zero/1.0/
enumeration	Creative Commons Attribution 4.0 International	CC BY 4.0 https://creativecommons.org/licenses/by/4.0/
enumeration	Creative Commons Attribution-Sharealike 4.0 International	CC BY-SA 4.0 https://creativecommons.org/licenses/by-sa/4.0/
enumeration	Creative Commons Attribution-Noncommercial 4.0 International	CC BY-NC 4.0 https://creativecommons.org/licenses/by-nc/4.0/
enumeration	Creative Commons Attribution-Noncommercial-Sharealike 4.0 International	CC BY-NC-SA 4.0 https://creativecommons.org/licenses/by-nc-sa/4.0/
enumeration	Creative Commons Attribution-Noderivatives 4.0 International	CC BY-ND 4.0 https://creativecommons.org/licenses/by-nd/4.0/

	enumeration	Creative Commons Attribution-Noncommercial-Noderivatives 4.0 International	CC BY-NC-ND 4.0 https://creativecommons.org/licenses/by-nc-nd/4.0/
	enumeration	The MIT License	MIT https://opensource.org/license/MIT
Used by	Element	license	

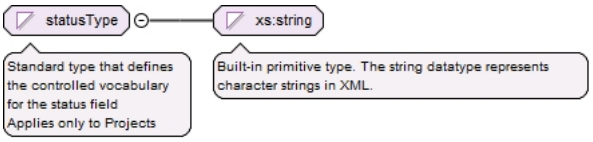
Source

```
<xs:simpleType name="licenseType">
  <xs:annotation>
    <xs:documentation xml:lang="en">Standard type that defines the controlled vocabulary for the
 license field</xs:documentation>
    <xs:documentation xml:lang="en">All standard specifications for licenses are drawn from https://
spdx.org/licenses/</xs:documentation>
  </xs:annotation>
  <xs:restriction base="xs:string">
    <xs:enumeration value="Creative Commons Public Domain Dedication 1.0 Universal" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">CC0 1.0</xs:documentation>
        <xs:documentation>https://creativecommons.org/publicdomain/zero/1.0/</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Creative Commons Attribution 4.0 International" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">CC BY 4.0</xs:documentation>
        <xs:documentation>https://creativecommons.org/licenses/by/4.0/</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Creative Commons Attribution-Sharealike 4.0 International" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">CC BY-SA 4.0</xs:documentation>
        <xs:documentation>https://creativecommons.org/licenses/by-sa/4.0/</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Creative Commons Attribution-Noncommercial 4.0 International"
 xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">CC BY-NC 4.0</xs:documentation>
        <xs:documentation>https://creativecommons.org/licenses/by-nc/4.0/</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Creative Commons Attribution-Noncommercial-Sharealike 4.0 International"
 xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">CC BY-NC-SA 4.0</xs:documentation>
        <xs:documentation>https://creativecommons.org/licenses/by-nc-sa/4.0/</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Creative Commons Attribution-Noderivatives 4.0 International"
 xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">CC BY-ND 4.0</xs:documentation>
        <xs:documentation>https://creativecommons.org/licenses/by-nd/4.0/</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Creative Commons Attribution-Noncommercial-Noderivatives 4.0
 International" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">CC BY-NC-ND 4.0</xs:documentation>
        <xs:documentation>https://creativecommons.org/licenses/by-nc-nd/4.0/</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="The MIT License" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">MIT</xs:documentation>
        <xs:documentation xml:lang="en">https://opensource.org/license/MIT</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
  </xs:restriction>
</xs:simpleType>
```

Simple Type statusType

Namespace	No namespace
Annotations	Standard type that defines the controlled vocabulary for the status field Applies only to Projects

Diagram



Type

restriction of xs:string

Facets

enumeration	AdminReview	The project request has been submitted, with approval by the assigned Data Sponsor, but it is not yet approved by a System Administrator Applies if the submission field lacks complete approvedBy or approvalDateTime subfields This is typically the initial status of a project record; it marks the point at which a DOI is minted for the projectID
enumeration	Approved	The project has been approved by the assigned Data Sponsor and a System Administrator, but it is not yet active (i.e., not yet ready for the users) Applies if the submission field has complete approvedBy and approvalDateTime subfields, but the frontend has not yet confirmed the project's collection ID in Mediaflux
enumeration	Active	The project is live: approved and available to users Applies if the submission field has complete approvedBy and approvalDateTime subfields, the frontend has confirmed the project's collection ID in Mediaflux, and the project has been neither retired nor published
enumeration	Retired	The project has been retired due to lack of use or by request of the Data Sponsor or the Data Manager Applies if the the retirement field has complete approvedBy and approvalDateTime subfields If the retirementDate field is filled, then the change to Retired status is expected to occur on or after the retirementDate
enumeration	Published	The project has been published Applies if the the publication field has complete approvedBy and approvalDateTime subfields If the publicationDate field is filled, then the change to Published status is expected to occur on or after the publicationDate

Used by

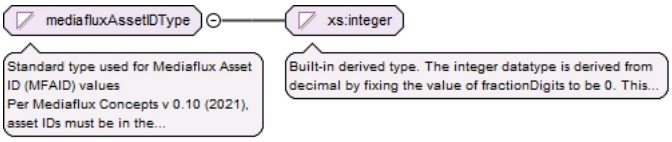
Element	projectFields/projectProvenance/status

Source

```
<xs:simpleType name="statusType">
  <xs:annotation>
    <xs:documentation xml:lang="en">Standard type that defines the controlled vocabulary for the
 status field</xs:documentation>
    <xs:documentation xml:lang="en">Applies only to Projects</xs:documentation>
  </xs:annotation>
  <xs:restriction base="xs:string">
    <xs:enumeration value="AdminReview" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">The project request has been submitted, with approval by the
 assigned Data Sponsor, but it is not yet approved by a System Administrator</xs:documentation>
        <xs:documentation xml:lang="en">Applies if the submission field lacks complete approvedBy or
 approvalDateTime subfields</xs:documentation>
        <xs:documentation xml:lang="en">This is typically the initial status of a project record; it
 marks the point at which a DOI is minted for the projectID</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Approved" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">The project has been approved by the assigned Data Sponsor
 and a System Administrator, but it is not yet active (i.e., not yet ready for the users)</
xs:documentation>
        <xs:documentation xml:lang="en">Applies if the submission field has complete approvedBy and
 approvalDateTime subfields, but the frontend has not yet confirmed the project's collection ID in
 Mediaflux</xs:documentation>
```

```
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Active" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">The project is live: approved and available to users</
xs:documentation>
        <xs:documentation xml:lang="en">Applies if the submission field has complete approvedBy and
 approvalDateTime subfields, the frontend has confirmed the project's collection ID in Mediaflux,
 and the project has been neither retired nor published</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Retired" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">The project has been retired due to lack of use or by
 request of the Data Sponsor or the Data Manager</xs:documentation>
        <xs:documentation xml:lang="en">Applies if the the retirement field has complete approvedBy
 and approvalDateTime subfields</xs:documentation>
        <xs:documentation xml:lang="en">If the retirementDate field is filled, then the change to
 Retired status is expected to occur on or after the retirementDate</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Published" xml:lang="en">
      <xs:annotation>
        <xs:documentation xml:lang="en">The project has been published</xs:documentation>
        <xs:documentation xml:lang="en">Applies if the the publication field has complete approvedBy
 and approvalDateTime subfields</xs:documentation>
        <xs:documentation xml:lang="en">If the publicationDate field is filled, then the change to
 Published status is expected to occur on or after the publicationDate</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
  </xs:restriction>
</xs:simpleType>
```

Simple Type `mediafluxAssetIDType`

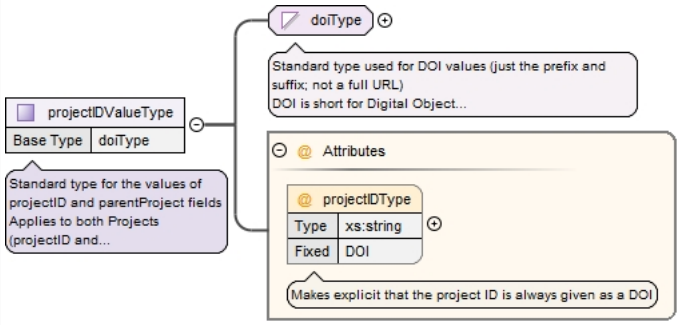
Namespace	No namespace
Annotations	Standard type used for Mediaflux Asset ID (MFAID) values Per Mediaflux Concepts v 0.10 (2021), asset IDs must be in the range [1,9223372036854775807]
Diagram	
Type	restriction of xs:integer
Facets	maxInclusive: 9223372036854775807 minInclusive: 1
Used by	Element: itemFields/itemID

Source	`<xs:simpleType name="mediafluxAssetIDType">`
	`  <xs:annotation>`
	`  <xs:documentation xml:lang="en">Standard type used for Mediaflux Asset ID (MFAID) values</xs:documentation>`
	`  <xs:documentation xml:lang="en">Per Mediaflux Concepts v 0.10 (2021), asset IDs must be in the range [1,9223372036854775807]</xs:documentation>`
	`  </xs:annotation>`
	`  <xs:restriction base="xs:integer">`
	`  <xs:minInclusive value="1"/>`
	`  <xs:maxInclusive value="9223372036854775807"/>`
	`  </xs:restriction>`
	`</xs:simpleType>`

Complex Type(s)

Complex Type `projectIDValueType`

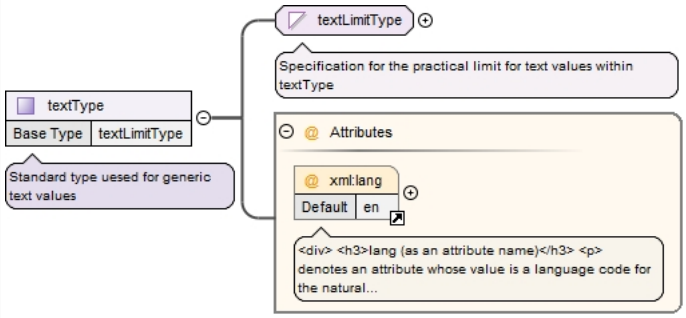
Namespace	No namespace
Annotations	Standard type for the values of projectID and parentProject fields Applies to both Projects (projectID and parentProject) and Items (parentProject)

Diagram	
Type	extension of doiType
Type hierarchy	• xs:string • doiType • projectIDValueType
Used by	Elements parentProject, projectFields/projectID
Attributes	**QName** / **Type** / **Fixed** / **Use** **projectIDType** / xs:string / DOI / optional `Makes explicit that the project ID is always given as a DOI`

Source

```
<xs:complexType name="projectIDValueType">
  <xs:annotation>
    <xs:documentation xml:lang="en">Standard type for the values of projectID and parentProject
 fields</xs:documentation>
    <xs:documentation xml:lang="en">Applies to both Projects (projectID and parentProject) and Items
 (parentProject)</xs:documentation>
  </xs:annotation>
  <xs:simpleContent>
    <xs:extension base="doiType">
      <xs:attribute name="projectIDType" type="xs:string" fixed="DOI">
        <xs:annotation>
          <xs:documentation xml:lang="en">Makes explicit that the project ID is always given as a
 DOI</xs:documentation>
        </xs:annotation>
      </xs:attribute>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

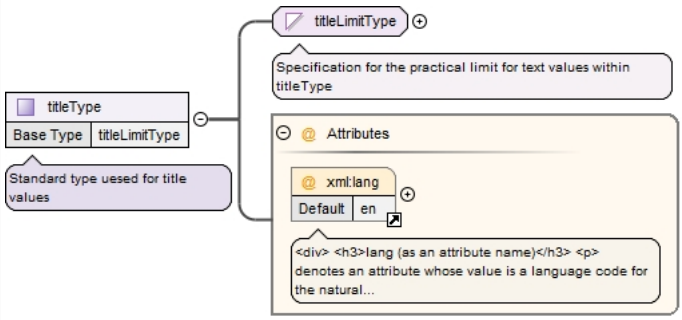
Complex Type `textType`

Namespace	No namespace
Annotations	`Standard type uesed for generic text values`
Diagram	
Type	extension of textLimitType
Type hierarchy	• xs:string • textLimitType • textType
Used by	Element provenanceSubfields/eventNote/message

Attributes	**QName**	**Type**	**Default**	**Use**	
	xml:lang	union of(xs:language, restriction of xs:string)	en	optional	
		 <h3>lang (as an attribute name)</h3> denotes an attribute whose value is a language code for the natural language of the content of any element; its value is inherited. This name is reserved by virtue of its definition in the XML specification. <h4>Notes</h4> Attempting to install the relevant ISO 2- and 3-letter codes as the enumerated possible values is probably never going to be a realistic possibility. See BCP 47 at <a href="http://www.rfc-editor.org/rfc/bcp/bcp47.txt">http://www.rfc-editor.org/rfc/bcp/bcp47.txt</a>and the IANA language subtag registry at <a href="http://www.iana.org/assignments/language-subtag-registry">http://www.iana.org/assignments/language-subtag-registry</a>for further information. The union allows for the 'un-declaration' of xml:lang with the empty string. 			
Source	<xs:complexType name="textType">...</xs:complexType>				

```
<xs:complexType name="textType">
  <xs:annotation>
    <xs:documentation xml:lang="en">Standard type uesed for generic text values</xs:documentation>
  </xs:annotation>
  <xs:simpleContent>
    <xs:extension base="textLimitType">
      <xs:attribute ref="xml:lang" default="en"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

Complex Type `titleType`

Namespace	No namespace
Annotations	Standard type uesed for title values
Diagram	
Type	extension of titleLimitType
Type hierarchy	• xs:string • titleLimitType • titleType
Used by	Elements: duaReference/duaID, duaReference/duaTitle, duaReference/grantorName, fundingReference/awardTitle, fundingReference/funderID, fundingReference/funderName, supplementalMetadata/extendedMetadataSchemas/extendedMetadataSchema, title

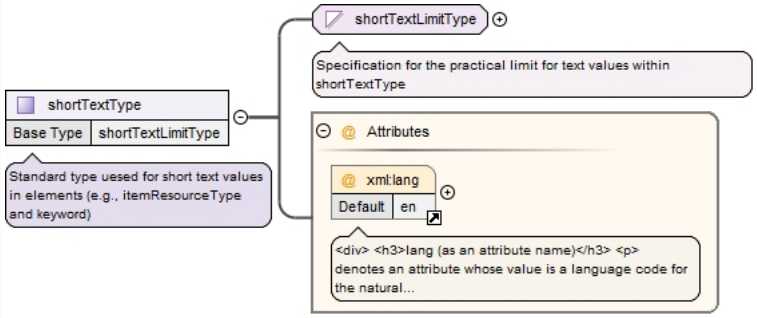
Attributes	**QName**	**Type**	**Default**	**Use**	
	xml:lang	union of(xs:language, restriction of xs:string)	en	optional	
		 <h3>lang (as an attribute name)</h3> denotes an attribute whose value is a language code for the natural language of the content of any element; its value is inherited. This name is reserved by virtue of its definition in the XML specification. <h4>Notes</h4>			

	QName	Type	Default	Use	
		Attempting to install the relevant ISO 2- and 3-letter codes as the enumerated possible values is probably never going to be a realistic possibility. See BCP 47 at <a href="http://www.rfc-editor.org/rfc/bcp/bcp47.txt">http://www.rfc-editor.org/rfc/bcp/bcp47.txt</a>and the IANA language subtag registry at <a href="http://www.iana.org/assignments/language-subtag-registry">http://www.iana.org/assignments/language-subtag-registry</a>for further information. The union allows for the 'un-declaration' of xml:lang with the empty string. 			

Source

```
<xs:complexType name="titleType">
  <xs:annotation>
    <xs:documentation xml:lang="en">Standard type uesed for title values</xs:documentation>
  </xs:annotation>
  <xs:simpleContent>
    <xs:extension base="titleLimitType">
      <xs:attribute ref="xml:lang" default="en"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

Complex Type `shortTextType`

Namespace	No namespace
Annotations	Standard type uesed for short text values in elements (e.g., itemResourceType and keyword)
Diagram	
Type	extension of shortTextLimitType
Type hierarchy	• xs:string • shortTextLimitType • shortTextType
Used by	Elements itemResourceType, projectResourceType, supplementalMetadata/keywords/keyword

Attributes

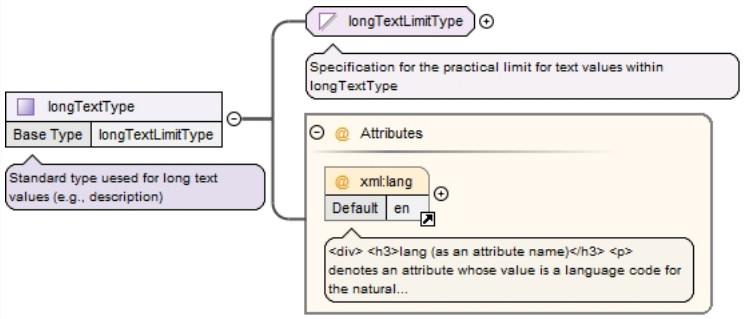
QName	Type	Default	Use	
xml:lang	union of(xs:language, restriction of xs:string)	en	optional	
	 <h3>lang (as an attribute name)</h3> denotes an attribute whose value is a language code for the natural language of the content of any element; its value is inherited. This name is reserved by virtue of its definition in the XML specification. <h4>Notes</h4> Attempting to install the relevant ISO 2- and 3-letter codes as the enumerated possible values is probably never going to be a realistic possibility. See BCP 47 at <a href="http://www.rfc-editor.org/rfc/bcp/bcp47.txt">http://www.rfc-editor.org/rfc/bcp/bcp47.txt</a>and the IANA language subtag registry at <a href="http://www.iana.org/assignments/language-subtag-registry">http://www.iana.org/assignments/language-subtag-registry</a>for further information. The union allows for the 'un-declaration' of xml:lang with the empty string. 			

Source

```
<xs:complexType name="shortTextType">
```

```
  <xs:annotation>
    <xs:documentation xml:lang="en">Standard type uesed for short text values in elements (e.g.,
 itemResourceType and keyword)</xs:documentation>
  </xs:annotation>
  <xs:simpleContent>
    <xs:extension base="shortTextLimitType">
      <xs:attribute ref="xml:lang" default="en"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

Complex Type `longTextType`

Namespace	No namespace
Annotations	`Standard type uesed for long text values (e.g., description)`
Diagram	
Type	extension of longTextLimitType
Type hierarchy	• xs:string • longTextLimitType • longTextType
Used by	Element description

Attributes

QName	Type	Default	Use	
xml:lang	union of(xs:language, restriction of xs:string)	en	optional	

```
<div>
  <h3>lang (as an attribute name)</h3>
  <p>denotes an attribute whose value is a language code for the natural
 language of the content of any element; its value is inherited. This name
 is reserved by virtue of its definition in the XML specification.</p>
</div>
<div>
  <h4>Notes</h4>
  <p>Attempting to install the relevant ISO 2- and 3-letter codes as the
 enumerated possible values is probably never going to be a realistic
 possibility.</p>
  <p>See BCP 47 at
    <a href="http://www.rfc-editor.org/rfc/bcp/bcp47.txt">http://www.rfc-
editor.org/rfc/bcp/bcp47.txt</a>and the IANA language subtag registry at
    <a href="http://www.iana.org/assignments/language-subtag-
registry">http://www.iana.org/assignments/language-subtag-registry</a>for
 further information.</p>
  <p>The union allows for the 'un-declaration' of xml:lang with the empty
 string.</p>
</div>
```

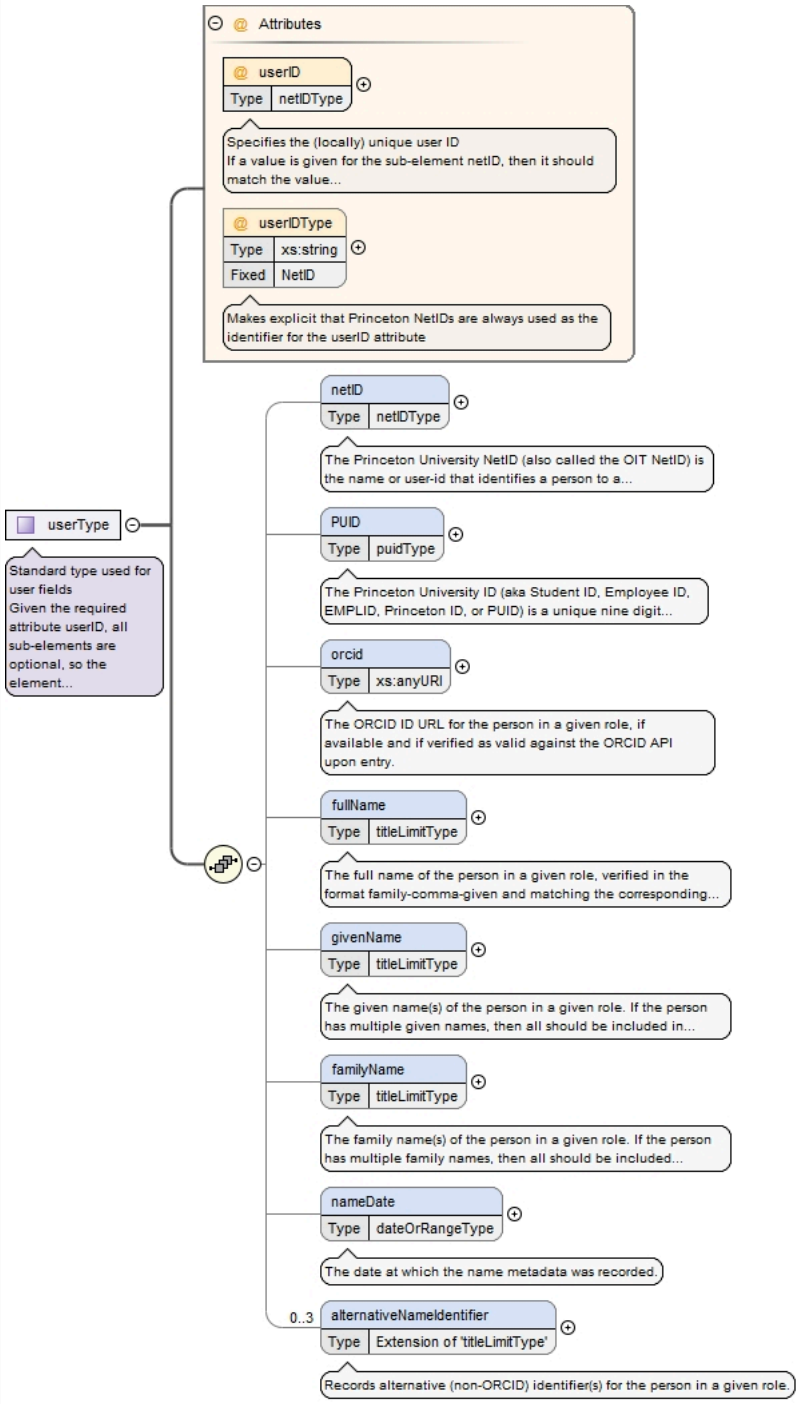
Source

```
<xs:complexType name="longTextType">
  <xs:annotation>
    <xs:documentation xml:lang="en">Standard type uesed for long text values (e.g., description)</
xs:documentation>
  </xs:annotation>
  <xs:simpleContent>
    <xs:extension base="longTextLimitType">
      <xs:attribute ref="xml:lang" default="en"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

Complex Type `userType`

Namespace	No namespace

Annotations	`Standard type used for user fields`
	
	`Given the required attribute userID, all sub-elements are optional, so the element for a given user field may be left empty`
	
	`If the sub-element netID is included, its value should match that of the userID attribute`

Diagram	
Used by	Elements dataManager, dataSponsor, dataUser, storageAndAccess/accessPoints/globusCollection/globusOwner
Model	netID{0,1} , PUID{0,1} , orcid{0,1} , fullName{0,1} , givenName{0,1} , familyName{0,1} , nameDate{0,1} , alternativeNameIdentifier{0,3}
Children	PUID, alternativeNameIdentifier, familyName, fullName, givenName, nameDate, netID, orcid
Attributes	**QName** / **Type** / **Fixed** / **Use** **userID** / netIDType / / required `Specifies the (locally) unique user ID`

QName	Type	Fixed	Use	
	If a value is given for the sub-element netID, then it should match the value given for userID			
userIDType	xs:string	NetID	optional	
	Makes explicit that Princeton NetIDs are always used as the identifier for the userID attribute			

Source

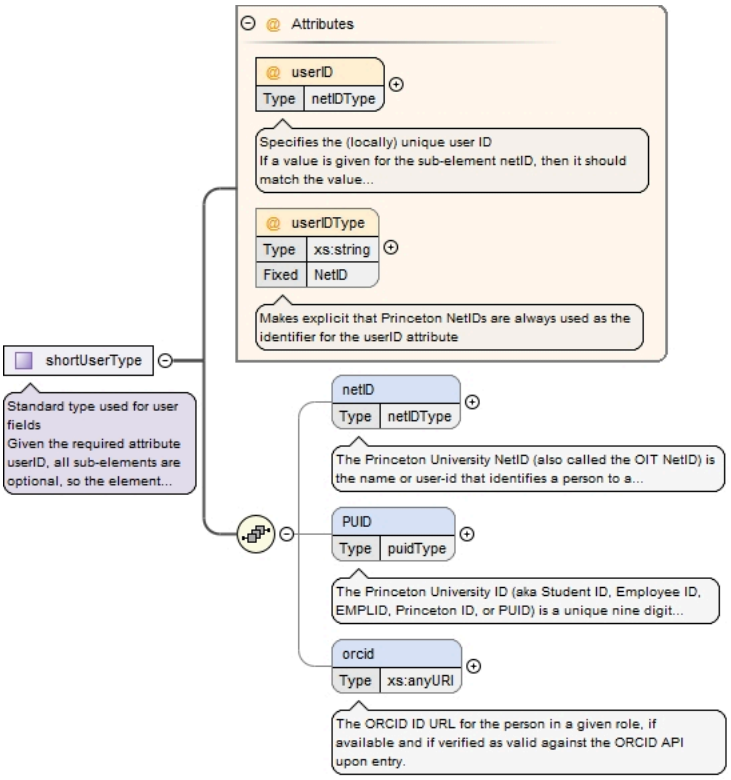
```
<xs:complexType name="userType">
  <xs:annotation>
    <xs:documentation xml:lang="en">Standard type used for user fields</xs:documentation>
    <xs:documentation xml:lang="en">Given the required attribute userID, all sub-elements are
 optional, so the element for a given user field may be left empty</xs:documentation>
    <xs:documentation xml:lang="en">If the sub-element netID is included, its value should match
 that of the userID attribute</xs:documentation>
  </xs:annotation>
  <xs:sequence>
    <xs:element name="netID" type="netIDType" minOccurs="0" maxOccurs="1">
      <xs:annotation>
        <xs:documentation xml:lang="en">The Princeton University NetID (also called the OIT NetID)
 is the name or user-id that identifies a person to a computer system or electronic service at
 Princeton.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="PUID" type="puidType" minOccurs="0" maxOccurs="1">
      <xs:annotation>
        <xs:documentation xml:lang="en">The Princeton University ID (aka Student ID, Employee ID,
 EMPLID, Princeton ID, or PUID) is a unique nine digit identifier assigned to an individual who has
 an official affiliation with the University.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="orcid" type="xs:anyURI" minOccurs="0" maxOccurs="1">
      <xs:annotation>
        <xs:documentation xml:lang="en">The ORCID ID URL for the person in a given role, if
 available and if verified as valid against the ORCID API upon entry.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="fullName" type="titleLimitType" minOccurs="0" maxOccurs="1">
      <xs:annotation>
        <xs:documentation xml:lang="en">The full name of the person in a given role, verified in
 the format family-comma-given and matching the corresponding given and family name fields, if
 available.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="givenName" type="titleLimitType" minOccurs="0" maxOccurs="1">
      <xs:annotation>
        <xs:documentation xml:lang="en">The given name(s) of the person in a given role. If
 the person has multiple given names, then all should be included in this field, along with any
 suffixes.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="familyName" type="titleLimitType" minOccurs="0" maxOccurs="1">
      <xs:annotation>
        <xs:documentation xml:lang="en">The family name(s) of the person in a given role. If the
 person has multiple family names, then all should be included in this field.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="nameDate" type="dateOrRangeType" minOccurs="0" maxOccurs="1">
      <xs:annotation>
        <xs:documentation xml:lang="en">The date at which the name metadata was recorded.</
xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="alternativeNameIdentifier" minOccurs="0" maxOccurs="3">
      <xs:annotation>
        <xs:documentation xml:lang="en">Records alternative (non-ORCID) identifier(s) for the person
 in a given role.</xs:documentation>
      </xs:annotation>
      <xs:complexType>
        <xs:simpleContent>
          <xs:extension base="titleLimitType">
            <xs:attribute name="nameIdentifierSchema" type="shortAttributeType" use="required">
              <xs:annotation>
                <xs:documentation xml:lang="en">The name of the schema to which the name identifier
 belongs (required when an alternative name identifier is given).</xs:documentation>
              </xs:annotation>
            </xs:attribute>
            <xs:attribute name="schemaURI" type="xs:anyURI" use="required">
              <xs:annotation>
                <xs:documentation xml:lang="en">The URI of the schema to which the name identifier
 belongs (required when an alternative name identifier is given).</xs:documentation>
              </xs:annotation>
```

```
            </xs:attribute>
          </xs:extension>
        </xs:simpleContent>
      </xs:complexType>
    </xs:element>
  </xs:sequence>
  <xs:attribute name="userID" type="netIDType" use="required">
    <xs:annotation>
      <xs:documentation xml:lang="en">Specifies the (locally) unique user ID</xs:documentation>
      <xs:documentation xml:lang="en">If a value is given for the sub-element netID, then it should
 match the value given for userID</xs:documentation>
    </xs:annotation>
  </xs:attribute>
  <xs:attribute name="userIDType" type="xs:string" fixed="NetID">
    <xs:annotation>
      <xs:documentation xml:lang="en">Makes explicit that Princeton NetIDs are always used as the
 identifier for the userID attribute</xs:documentation>
    </xs:annotation>
  </xs:attribute>
</xs:complexType>
```

Complex Type `shortUserType`

Namespace	No namespace

Annotations	`Standard type used for user fields`
	
	`Given the required attribute userID, all sub-elements are optional, so the element for a given user field may be left empty`
	
	`If the sub-element netID is included, its value should match that of the userID attribute`

Diagram	
Used by	Elements provenanceSubfields/approvedBy, provenanceSubfields/deniedBy, provenanceSubfields/eventNote/noteBy, provenanceSubfields/requestedBy
Model	netID{0,1} , PUID{0,1} , orcid{0,1}
Children	PUID, netID, orcid

Attributes

QName	Type	Fixed	Use	
userID	netIDType		required	

	`Specifies the (locally) unique user ID`
	
	`If a value is given for the sub-element netID, then it should match the value given for userID`			

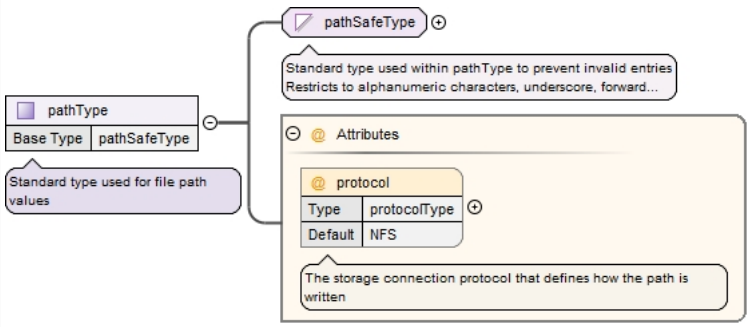
userIDType	xs:string	NetID	optional	

	QName	Type	Fixed	Use	
		Makes explicit that Princeton NetIDs are always used as the identifier for the userID attribute			

Source

```
<xs:complexType name="shortUserType">
  <xs:annotation>
    <xs:documentation xml:lang="en">Standard type used for user fields</xs:documentation>
    <xs:documentation xml:lang="en">Given the required attribute userID, all sub-elements are
 optional, so the element for a given user field may be left empty</xs:documentation>
    <xs:documentation xml:lang="en">If the sub-element netID is included, its value should match
 that of the userID attribute</xs:documentation>
  </xs:annotation>
  <xs:sequence>
    <xs:element name="netID" type="netIDType" minOccurs="0" maxOccurs="1">
      <xs:annotation>
        <xs:documentation xml:lang="en">The Princeton University NetID (also called the OIT NetID)
 is the name or user-id that identifies a person to a computer system or electronic service at
 Princeton.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="PUID" type="puidType" minOccurs="0" maxOccurs="1">
      <xs:annotation>
        <xs:documentation xml:lang="en">The Princeton University ID (aka Student ID, Employee ID,
 EMPLID, Princeton ID, or PUID) is a unique nine digit identifier assigned to an individual who has
 an official affiliation with the University.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="orcid" type="xs:anyURI" minOccurs="0" maxOccurs="1">
      <xs:annotation>
        <xs:documentation xml:lang="en">The ORCID ID URL for the person in a given role, if
 available and if verified as valid against the ORCID API upon entry.</xs:documentation>
      </xs:annotation>
    </xs:element>
  </xs:sequence>
  <xs:attribute name="userID" type="netIDType" use="required">
    <xs:annotation>
      <xs:documentation xml:lang="en">Specifies the (locally) unique user ID</xs:documentation>
      <xs:documentation xml:lang="en">If a value is given for the sub-element netID, then it should
 match the value given for userID</xs:documentation>
    </xs:annotation>
  </xs:attribute>
  <xs:attribute name="userIDType" type="xs:string" fixed="NetID">
    <xs:annotation>
      <xs:documentation xml:lang="en">Makes explicit that Princeton NetIDs are always used as the
 identifier for the userID attribute</xs:documentation>
    </xs:annotation>
  </xs:attribute>
</xs:complexType>
```

Complex Type pathType

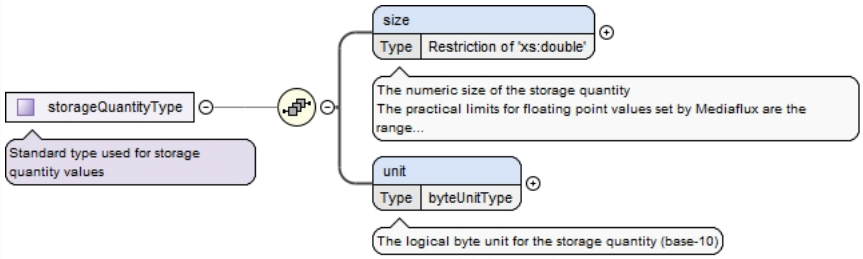
Namespace	No namespace
Annotations	Standard type used for file path values
Diagram	
Type	extension of pathSafeType
Type hierarchy	• xs:string • pathSafeType • pathType
Used by	Elements projectDescription/projectDirectory/approvedValue, projectDescription/projectDirectory/projectDirectoryPath, projectDescription/projectDirectory/requestedValue

Attributes	**QName**	**Type**	**Default**	**Use**	
	protocol	protocolType	NFS	optional	
		The storage connection protocol that defines how the path is written			

Source

```
<xs:complexType name="pathType">
  <xs:annotation>
    <xs:documentation xml:lang="en">Standard type used for file path values</xs:documentation>
  </xs:annotation>
  <xs:simpleContent>
    <xs:extension base="pathSafeType">
      <xs:attribute name="protocol" type="protocolType" default="NFS">
        <xs:annotation>
          <xs:documentation xml:lang="en">The storage connection protocol that defines how the path
 is written</xs:documentation>
        </xs:annotation>
      </xs:attribute>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

Complex Type `storageQuantityType`

Namespace	No namespace
Annotations	Standard type used for storage quantity values
Diagram	
Used by	Elements storageAndAccess/storageCapacity/approvedValue, storageAndAccess/storageCapacity/requestedValue, storageAndAccess/storageCapacity/storageCapacitySetting
Model	size , unit
Children	size, unit

Source

```
<xs:complexType name="storageQuantityType">
  <xs:annotation>
    <xs:documentation xml:lang="en">Standard type used for storage quantity values</
xs:documentation>
  </xs:annotation>
  <xs:sequence minOccurs="0" maxOccurs="1">
    <xs:element name="size" minOccurs="1" maxOccurs="1">
      <xs:annotation>
        <xs:documentation xml:lang="en">The numeric size of the storage quantity</xs:documentation>
        <xs:documentation xml:lang="en">The practical limits for floating point values set by
 Mediaflux are the range [4.9E-324,1.7976931348623157E308]</xs:documentation>
      </xs:annotation>
      <xs:simpleType>
        <xs:restriction base="xs:double">
          <xs:minExclusive value="0"/>
          <xs:maxInclusive value="10000000000000"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:element>
    <xs:element name="unit" type="byteUnitType" minOccurs="1" maxOccurs="1">
      <xs:annotation>
        <xs:documentation xml:lang="en">The logical byte unit for the storage quantity (base-10)</
xs:documentation>
      </xs:annotation>
    </xs:element>
  </xs:sequence>
</xs:complexType>
```

Attribute(s)

Attribute `projectIDValueType / @projectIDType`

Namespace	No namespace
Annotations	Makes explicit that the project ID is always given as a DOI

Type	xs:string
Properties	fixed: `DOI`
Used by	Complex Type projectIDValueType

Source	`<xs:attribute name="projectIDType" type="xs:string" fixed="DOI">`
	`  <xs:annotation>`
	`  <xs:documentation xml:lang="en">Makes explicit that the project ID is always given as a DOI</xs:documentation>`
	`  </xs:annotation>`
	`</xs:attribute>`

Attribute `@inherited`

Namespace	No namespace

Annotations	`Standard attribute to specify whether a given field's value should be inherited by any child resources`
	
	`Inheritance is limited to the applicability of the field to the child resource (e.g., researchDomain may be inherited by a subproject but not an item)`

Type	xs:boolean
Properties	content: `simple`
Used by	Elements additionalProjectInformation/dataUseAgreement, additionalProjectInformation/funded, additionalProjectInformation/projectPurpose, additionalProjectInformation/provisionalProject, alternativeID, dataManager, dataSponsor, dataUser, description, duaReference, endDate, fundingReference, itemFields/itemID, itemResourceType, language, license, otherDate, parentProject, projectDescription/departments/department, projectDescription/projectDirectory, projectDescription/researchDomains/researchDomain, projectFields/projectID, projectFields/projectProvenance/publication, projectFields/projectProvenance/retirement, projectFields/projectProvenance/revisions/revision, projectFields/projectProvenance/status, projectFields/projectProvenance/submission, projectResourceType, publicationDate, retirementDate, schemaVersion, startDate, storageAndAccess/accessPoints, storageAndAccess/numberOfFiles, storageAndAccess/projectVisibility, storageAndAccess/securityLevel, storageAndAccess/storageCapacity, storageAndAccess/storagePerformance, storageAndAccess/storageSystem, supplementalMetadata/extendedMetadataSchemas/extendedMetadataSchema, supplementalMetadata/keywords/keyword, supplementalMetadata/relations/relation, title

Source	`<xs:attribute name="inherited" type="xs:boolean">`
	`  <xs:annotation>`
	`  <xs:documentation xml:lang="en">Standard attribute to specify whether a given field's value should be inherited by any child resources</xs:documentation>`
	`  <xs:documentation xml:lang="en">Inheritance is limited to the applicability of the field to the child resource (e.g., researchDomain may be inherited by a subproject but not an item)</xs:documentation>`
	`  </xs:annotation>`
	`</xs:attribute>`

Attribute `@discoverable`

Namespace	No namespace
Annotations	`Standard attribute to specify whether a given field should be discoverable to search operations within TigerData systems`
Type	xs:boolean
Properties	content: `simple`
Used by	Elements additionalProjectInformation/dataUseAgreement, additionalProjectInformation/funded, additionalProjectInformation/projectPurpose, additionalProjectInformation/provisionalProject, alternativeIDs, dataManager, dataSponsor, dataUser, description, duaReferences, fundingReferences, itemDates, itemFields/itemID, itemResourceType, languages, licenses, parentProject, projectDates, projectDescription/departments, projectDescription/projectDirectory, projectDescription/researchDomains, projectFields/projectID, projectFields/projectProvenance/publication, projectFields/projectProvenance/retirement, projectFields/projectProvenance/revisions, projectFields/projectProvenance/status, projectFields/projectProvenance/submission, projectResourceType, schemaVersion, storageAndAccess/accessPoints, storageAndAccess/numberOfFiles, storageAndAccess/projectVisibility, storageAndAccess/securityLevel, storageAndAccess/storageCapacity, storageAndAccess/storagePerformance, storageAndAccess/storageSystem, supplementalMetadata/extendedMetadataSchemas, supplementalMetadata/keywords, supplementalMetadata/relations, title

Source	`<xs:attribute name="discoverable" type="xs:boolean">`
	`  <xs:annotation>`
	`  <xs:documentation xml:lang="en">Standard attribute to specify whether a given field should be discoverable to search operations within TigerData systems</xs:documentation>`

```
  </xs:annotation>
</xs:attribute>
```

Attribute @trackingLevel

Namespace	No namespace		
Annotations	Standard attribute to specify the tracking level of a given field (ResourceRecord or InternalUseOnly)		
Type	trackingLevelType		
Properties	content:	simple	
Facets	enumeration	ResourceRecord	The respective field should be included in any long-term or crosswalked records for the resource
	enumeration	InternalUseOnly	The respective field is intended for internal (Princeton) use only
Used by	Elements	additionalProjectInformation/dataUseAgreement, additionalProjectInformation/funded, additionalProjectInformation/projectPurpose, additionalProjectInformation/provisionalProject, alternativeIDs, dataManager, dataSponsor, dataUsers, description, duaReferences, fundingReferences, itemDates, itemFields/itemID, itemResourceType, languages, licenses, parentProject, projectDates, projectDescription/departments, projectDescription/projectDirectory, projectDescription/researchDomains, projectFields/projectID, projectFields/projectProvenance/publication, projectFields/projectProvenance/retirement, projectFields/projectProvenance/revisions, projectFields/projectProvenance/status, projectFields/projectProvenance/submission, projectResourceType, schemaVersion, storageAndAccess/accessPoints, storageAndAccess/numberOfFiles, storageAndAccess/projectVisibility, storageAndAccess/securityLevel, storageAndAccess/storageCapacity, storageAndAccess/storagePerformance, storageAndAccess/storageSystem, supplementalMetadata/extendedMetadataSchemas, supplementalMetadata/keywords, supplementalMetadata/relations, title		
Source	<xs:attribute name="trackingLevel" type="trackingLevelType">…</xs:attribute>		

```
<xs:attribute name="trackingLevel" type="trackingLevelType">
  <xs:annotation>
    <xs:documentation xml:lang="en">Standard attribute to specify the tracking level of a given
 field (ResourceRecord or InternalUseOnly)</xs:documentation>
  </xs:annotation>
</xs:attribute>
```

Attribute @resourceTypeGeneral

Namespace	No namespace		
Annotations	Standard attribute to specify the general type for a resource, following the controlled vocabulary in resourceTypeGeneralType Derived from the DataCite definition for resourceTypeGeneral (v4.6+)		
Type	resourceTypeGeneralType		
Properties	content:	simple	
Facets	enumeration	Audiovisual	A series of visual representations imparting an impression of motion when shown in succession. May or may not include sound.
	enumeration	Award	An umbrella term for resources provided to individual(s) or organization(s) in support of research, academic output, or training, such as a specific instance of funding, grant, investment, sponsorship, scholarship, recognition, or non-monetary materials.
	enumeration	Book	A medium for recording information in the form of writing or images, typically composed of many pages bound together and protected by a cover.
	enumeration	BookChapter	One of the main divisions of a book.
	enumeration	Collection	An aggregation of resources, which may encompass collections of one resourceType as well as those of mixed types. A collection is described as a group; its parts may also be separately described.
	enumeration	ComputationalNotebook	A virtual notebook environment used for literate programming.
	enumeration	ConferencePaper	Article that is written with the goal of being accepted to a conference.
	enumeration	ConferenceProceeding	Collection of academic papers published in the context of an academic conference.

enumeration	DataPaper	A factual and objective publication with a focused intent to identify and describe specific data, sets of data, or data collections to facilitate discoverability.
enumeration	Dataset	Data encoded in a defined structure.
enumeration	Dissertation	A written essay, treatise, or thesis, especially one written by a candidate for the degree of Doctor of Philosophy.
enumeration	Event	A non-persistent, time-based occurrence.
enumeration	Image	A visual representation other than text.
enumeration	Instrument	A device, tool or apparatus used to obtain, measure and/or analyze data.
enumeration	InteractiveResource	A resource requiring interaction from the user to be understood, executed, or experienced.
enumeration	Journal	A scholarly publication consisting of articles that is published regularly throughout the year.
enumeration	JournalArticle	A written composition on a topic of interest, which forms a separate part of a journal.
enumeration	Model	An abstract, conceptual, graphical, mathematical or visualization model that represents empirical objects, phenomena, or physical processes.
enumeration	OutputManagementPlan	A formal document that outlines how research outputs are to be handled both during a research project and after the project is completed. Use this resource type for items that serve as the Data Management Plan (DMP) for a TigerData project.
enumeration	PeerReview	Evaluation of scientific, academic, or professional work by others working in the same field.
enumeration	PhysicalObject	A physical object or substance.
enumeration	Preprint	A version of a scholarly or scientific paper that precedes formal peer review and publication in a peer-reviewed scholarly or scientific journal.
enumeration	Project	A planned endeavor or activity, frequently collaborative, intended to achieve a particular aim using allocated resources such as budget, time, and expertise. Use this resource type for all TigerData projects and subprojects.
enumeration	Report	A document that presents information in an organized format for a specific audience and purpose.
enumeration	Service	An organized system of apparatus, appliances, staff, etc., for supplying some function(s) required by end users.
enumeration	Software	A computer program other than a computational notebook, in either source code (text) or compiled form. Use this type for general software components supporting scholarly research. Use the “ComputationalNotebook” value for virtual notebooks.
enumeration	Sound	A resource primarily intended to be heard.
enumeration	Standard	Something established by authority, custom, or general consent as a model, example, or point of reference.
enumeration	StudyRegistration	A detailed, time-stamped description of a research plan, often openly shared in a registry or published in a journal before the study is conducted to lend accountability and transparency in the hypothesis generating and testing process.
enumeration	Text	A resource consisting primarily of words for reading that is not covered by any other textual resource type in this list.
enumeration	Workflow	A structured series of steps which can be executed to produce a final outcome, allowing

			users a means to specify and enact their work in a more reproducible manner.
	enumeration	Other	A type of resource not otherwise described by defined types.
	enumeration	README	A simple text file used to document important information about a containing resource. Use this resource type for all items serving as README files for TigerData projects.
	enumeration	DataDocumentation	A resource used to document detailed information about data in a containing resource (e.g., a codebook or data dictionary). Use this resource type for items serving as supplemental documentation to the README for a TigerData project.
Used by	Elements	itemResourceType, projectResourceType, supplementalMetadata/relations/relation	
Source	<xs:attribute name="resourceTypeGeneral" type="resourceTypeGeneralType"> <xs:annotation> <xs:documentation xml:lang="en">Standard attribute to specify the general type for a resource, following the controlled vocabulary in resourceTypeGeneralType</xs:documentation> <xs:documentation xml:lang="en">Derived from the DataCite definition for resourceTypeGeneral (v4.6+)</xs:documentation> </xs:annotation> </xs:attribute>		

Attribute @approved

Namespace	No namespace	
Annotations	Standard attribute to specify whether a given field has an approved value Applies to fields which have a request-approval framework, including projectDirectory, storageCapacity, and storagePerformance	
Type	xs:boolean	
Properties	content:	simple
Used by	Elements	projectDescription/projectDirectory, storageAndAccess/accessPoints/globusEnable, storageAndAccess/accessPoints/hpcEnable, storageAndAccess/accessPoints/smbEnable, storageAndAccess/securityLevel, storageAndAccess/storageCapacity, storageAndAccess/storagePerformance
Source	<xs:attribute name="approved" type="xs:boolean">\ <xs:annotation> <xs:documentation xml:lang="en">Standard attribute to specify whether a given field has an approved value</xs:documentation> <xs:documentation xml:lang="en">Applies to fields which have a request-approval framework, including projectDirectory, storageCapacity, and storagePerformance</xs:documentation> </xs:annotation> </xs:attribute>	

Attribute userType / alternativeNameIdentifier / @nameIdentifierSchema

Namespace	No namespace	
Annotations	The name of the schema to which the name identifier belongs (required when an alternative name identifier is given).	
Type	shortAttributeType	
Properties	use:	required
Facets	minLength	0
	maxLength	60
Used by	Element	userType/alternativeNameIdentifier
Source	<xs:attribute name="nameIdentifierSchema" type="shortAttributeType" use="required">\ <xs:annotation> <xs:documentation xml:lang="en">The name of the schema to which the name identifier belongs (required when an alternative name identifier is given).</xs:documentation> </xs:annotation> </xs:attribute>	

Attribute userType / alternativeNameIdentifier / @schemaURI

Namespace	No namespace

Annotations	The URI of the schema to which the name identifier belongs (required when an alternative name identifier is given).
Type	xs:anyURI
Properties	use: required
Used by	Element userType/alternativeNameIdentifier

Source	`<xs:attribute name="schemaURI" type="xs:anyURI" use="required">`
	`  <xs:annotation>`
	`  <xs:documentation xml:lang="en">The URI of the schema to which the name identifier belongs (required when an alternative name identifier is given).</xs:documentation>`
	`  </xs:annotation>`
	`</xs:attribute>`

Attribute `userType / @userID`

Namespace	No namespace
Annotations	Specifies the (locally) unique user ID If a value is given for the sub-element netID, then it should match the value given for userID
Type	netIDType
Properties	use: required
Facets	pattern [a-z0-9-]{2,10}
Used by	Complex Type userType

Source	`<xs:attribute name="userID" type="netIDType" use="required">`
	`  <xs:annotation>`
	`  <xs:documentation xml:lang="en">Specifies the (locally) unique user ID</xs:documentation>`
	`  <xs:documentation xml:lang="en">If a value is given for the sub-element netID, then it should match the value given for userID</xs:documentation>`
	`  </xs:annotation>`
	`</xs:attribute>`

Attribute `userType / @userIDType`

Namespace	No namespace
Annotations	Makes explicit that Princeton NetIDs are always used as the identifier for the userID attribute
Type	xs:string
Properties	fixed: NetID
Used by	Complex Type userType

Source	`<xs:attribute name="userIDType" type="xs:string" fixed="NetID">`
	`  <xs:annotation>`
	`  <xs:documentation xml:lang="en">Makes explicit that Princeton NetIDs are always used as the identifier for the userID attribute</xs:documentation>`
	`  </xs:annotation>`
	`</xs:attribute>`

Attribute `shortUserType / @userID`

Namespace	No namespace
Annotations	Specifies the (locally) unique user ID If a value is given for the sub-element netID, then it should match the value given for userID
Type	netIDType
Properties	use: required
Facets	pattern [a-z0-9-]{2,10}
Used by	Complex Type shortUserType

Source	`<xs:attribute name="userID" type="netIDType" use="required">`
	`  <xs:annotation>`
	`  <xs:documentation xml:lang="en">Specifies the (locally) unique user ID</xs:documentation>`
	`  <xs:documentation xml:lang="en">If a value is given for the sub-element netID, then it should match the value given for userID</xs:documentation>`
	`  </xs:annotation>`
	`</xs:attribute>`

Attribute shortUserType / @userIDType

Namespace	No namespace
Annotations	Makes explicit that Princeton NetIDs are always used as the identifier for the userID attribute
Type	xs:string
Properties	fixed: NetID
Used by	Complex Type shortUserType

Source	`<xs:attribute name="userIDType" type="xs:string" fixed="NetID">`
	`  <xs:annotation>`
	`  <xs:documentation xml:lang="en">Makes explicit that Princeton NetIDs are always used as the identifier for the userID attribute</xs:documentation>`
	`  </xs:annotation>`
	`</xs:attribute>`

Attribute pathType / @protocol

Namespace	No namespace
Annotations	The storage connection protocol that defines how the path is written
Type	protocolType
Properties	default: NFS
Facets	enumeration NFS — Network File System (version not tracked) enumeration SMB — Server Message Block (version not tracked) Used interchangeably with Common Internet File System (CIFS) enumeration S3 — Amazon Simple Storage Service (version not tracked)
Used by	Complex Type pathType

Source	`<xs:attribute name="protocol" type="protocolType" default="NFS">`
	`  <xs:annotation>`
	`  <xs:documentation xml:lang="en">The storage connection protocol that defines how the path is written</xs:documentation>`
	`  </xs:annotation>`
	`</xs:attribute>`

Attribute alternativeID / @alternativeIDType

Namespace	No namespace
Annotations	A simple description of the alternative ID type (e.g. "Local accession number")
Type	shortTextLimitType
Properties	use: required
Facets	minLength 1 maxLength 60
Used by	Element alternativeID

Source	`<xs:attribute name="alternativeIDType" type="shortTextLimitType" use="required">`
	`  <xs:annotation>`
	`  <xs:documentation xml:lang="en">A simple description of the alternative ID type (e.g. "Local accession number")</xs:documentation>`
	`  </xs:annotation>`
	`</xs:attribute>`

Attribute dataUser / @readOnly

Namespace	No namespace
Annotations	Specifies whether the data user has read-only access to the resource (if false, then read-write access is granted)
Type	xs:boolean
Properties	use: required
Used by	Element dataUser
Source	`<xs:attribute name="readOnly" type="xs:boolean" use="required">`

```
  <xs:annotation>
    <xs:documentation xml:lang="en">Specifies whether the data user has read-only access to the
 resource (if false, then read-write access is granted)</xs:documentation>
  </xs:annotation>
</xs:attribute>
```

Attribute fundingReference / funderID / @funderIDType

Namespace	No namespace
Annotations	Records the type of identifier used for funderID
Type	restriction of xs:string
Properties	default: ROR
Facets	enumeration: Crossref Funder ID enumeration: GRID enumeration: ISNI enumeration: ROR enumeration: Other
Used by	Element: fundingReference/funderID

Source

```
<xs:attribute name="funderIDType" default="ROR">
  <xs:annotation>
    <xs:documentation xml:lang="en">Records the type of identifier used for funderID</
xs:documentation>
  </xs:annotation>
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:enumeration value="Crossref Funder ID" xml:lang="en"/>
      <xs:enumeration value="GRID" xml:lang="en"/>
      <xs:enumeration value="ISNI" xml:lang="en"/>
      <xs:enumeration value="ROR" xml:lang="en"/>
      <xs:enumeration value="Other" xml:lang="en"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
```

Attribute fundingReference / funderID / @funderIDSchema

Namespace	No namespace
Annotations	Records the schema that defines funderIDType
Type	xs:anyURI
Properties	default: https://ror.org/
Used by	Element: fundingReference/funderID

Source

```
<xs:attribute name="funderIDSchema" type="xs:anyURI" default="https://ror.org/">
  <xs:annotation>
    <xs:documentation xml:lang="en">Records the schema that defines funderIDType</xs:documentation>
  </xs:annotation>
</xs:attribute>
```

Attribute fundingReference / awardNumber / @awardURI

Namespace	No namespace
Annotations	Records the URI for the awardNumber
Type	xs:anyURI
Properties	use: optional
Used by	Element: fundingReference/awardNumber

Source

```
<xs:attribute name="awardURI" type="xs:anyURI" use="optional">
  <xs:annotation>
    <xs:documentation xml:lang="en">Records the URI for the awardNumber</xs:documentation>
  </xs:annotation>
</xs:attribute>
```

Attribute fundingReference / @federalFunder

Namespace	No namespace

Annotations	Whether the funder is part of the U.S. federal government (default false) If true, then the federallyFunded attribute for funded should also be true
Type	xs:boolean
Properties	default: false
Used by	Element fundingReference

Source	`<xs:attribute name="federalFunder" type="xs:boolean" default="false">`
	`  <xs:annotation>`
	`  <xs:documentation xml:lang="en">Whether the funder is part of the U.S. federal government (default false)</xs:documentation>`
	`  <xs:documentation xml:lang="en">If true, then the federallyFunded attribute for funded should also be true</xs:documentation>`
	`  </xs:annotation>`
	`</xs:attribute>`

Attribute license / @licenseURI

Namespace	No namespace		
Annotations	Specifies the URI of the license		
Type	licenseURIType		
Properties	use:	required	
Facets	enumeration	https://creativecommons.org/publicdomain/zero/1.0/	Creative Commons Public Domain Dedication 1.0 Universal CC0 1.0
	enumeration	https://creativecommons.org/licenses/by/4.0/	Creative Commons Attribution 4.0 International CC BY 4.0
	enumeration	https://creativecommons.org/licenses/by-sa/4.0/	Creative Commons Attribution-Sharealike 4.0 International CC BY-SA 4.0
	enumeration	https://creativecommons.org/licenses/by-nc/4.0/	Creative Commons Attribution-Noncommercial 4.0 International CC BY-NC 4.0
	enumeration	https://creativecommons.org/licenses/by-nc-sa/4.0/	Creative Commons Attribution-Noncommercial-Sharealike 4.0 International CC BY-NC-SA 4.0
	enumeration	https://creativecommons.org/licenses/by-nd/4.0/	Creative Commons Attribution-Noderivatives 4.0 International CC BY-ND 4.0
	enumeration	https://creativecommons.org/licenses/by-nc-nd/4.0/	Creative Commons Attribution-Noncommercial-Noderivatives 4.0 International CC BY-NC-ND 4.0
	enumeration	https://opensource.org/license/MIT	The MIT License MIT
Used by	Element	license	

Source	`<xs:attribute name="licenseURI" type="licenseURIType" use="required">`
	`  <xs:annotation>`
	`  <xs:documentation xml:lang="en">Specifies the URI of the license</xs:documentation>`
	`  </xs:annotation>`
	`</xs:attribute>`		

Attribute license / @licenseID

Namespace	No namespace		
Annotations	Specifies the short, standardized version of the license name		
Type	licenseIDType		
Properties	use:	required	
Facets	enumeration	CC0 1.0	Creative Commons Public Domain Dedication 1.0 Universal

			https://creativecommons.org/publicdomain/zero/1.0/
	enumeration	CC BY 4.0	Creative Commons Attribution 4.0 International https://creativecommons.org/licenses/by/4.0/
	enumeration	CC BY-SA 4.0	Creative Commons Attribution-Sharealike 4.0 International https://creativecommons.org/licenses/by-sa/4.0/
	enumeration	CC BY-NC 4.0	Creative Commons Attribution-Noncommercial 4.0 International https://creativecommons.org/licenses/by-nc/4.0/
	enumeration	CC BY-NC-SA 4.0	Creative Commons Attribution-Noncommercial-Sharealike 4.0 International https://creativecommons.org/licenses/by-nc-sa/4.0/
	enumeration	CC BY-ND 4.0	Creative Commons Attribution-Noderivatives 4.0 International https://creativecommons.org/licenses/by-nd/4.0/
	enumeration	CC BY-NC-ND 4.0	Creative Commons Attribution-Noncommercial-Noderivatives 4.0 International https://creativecommons.org/licenses/by-nc-nd/4.0/
	enumeration	MIT	The MIT License https://opensource.org/license/MIT
Used by	Element	license	

Source

```
<xs:attribute name="licenseID" type="licenseIDType" use="required">
  <xs:annotation>
    <xs:documentation xml:lang="en">Specifies the short, standardized version of the license name</
xs:documentation>
  </xs:annotation>
</xs:attribute>
```

Attribute `license / @licenseIDSchema`

Namespace	No namespace	
Annotations	Specifies the schema used for licenseID	
Type	titleLimitType	
Properties	fixed:	SPDX
Facets	minLength	1
	maxLength	200
Used by	Element	license

Source

```
<xs:attribute name="licenseIDSchema" type="titleLimitType" fixed="SPDX">
  <xs:annotation>
    <xs:documentation xml:lang="en">Specifies the schema used for licenseID</xs:documentation>
  </xs:annotation>
</xs:attribute>
```

Attribute `license / @licenseIDSchemaURI`

Namespace	No namespace	
Annotations	Specifies the URI of the schema given by licenseIDSchema	
Type	xs:anyURI	
Properties	fixed:	https://spdx.org/licenses/
Used by	Element	license

Source

```
<xs:attribute name="licenseIDSchemaURI" type="xs:anyURI" fixed="https://spdx.org/licenses/">
  <xs:annotation>
    <xs:documentation xml:lang="en">Specifies the URI of the schema given by licenseIDSchema</
xs:documentation>
  </xs:annotation>
</xs:attribute>
```

Attribute duaReference / duaID / @duaURI

Namespace	No namespace
Annotations	Records the URI for the DUA
Type	xs:anyURI
Properties	use: optional
Used by	Element duaReference/duaID

Source	`<xs:attribute name="duaURI" type="xs:anyURI" use="optional">`
	`  <xs:annotation>`
	`  <xs:documentation xml:lang="en">Records the URI for the DUA</xs:documentation>`
	`  </xs:annotation>`
	`</xs:attribute>`

Attribute otherDate / @dateType

Namespace	No namespace		
Type	dateTypeType		
Properties	use:	required	
Facets	enumeration	Accepted	The date that the publisher accepted the resource into their system.
	enumeration	Available	The date the resource is made publicly available. May be a range.
	enumeration	Copyrighted	The specific, documented date at which the resource receives a copyrighted status, if applicable.
	enumeration	Collected	The date or date range in which the resource content was collected.
	enumeration	Created	The date the resource itself was put together; this could refer to a timeframe in ancient history, a date range, or a single date for a final component, e.g., the finalised file with all the data.
	enumeration	Issued	The date that the resource is published or distributed, e.g., to a data centre.
	enumeration	Submitted	The date the creator submits the resource to the publisher. This could be different from Accepted if the publisher then applies a selection process.
	enumeration	Updated	The date of the last update to the resource, when the resource is being added to. May be a range.
	enumeration	Valid	The date or date range during which the dataset or resource is accurate.
	enumeration	Withdrawn	The date the resource is removed.
	enumeration	Other	Other date that does not fit into an existing category.
Used by	Element	otherDate	
Source	`<xs:attribute name="dateType" type="dateTypeType" use="required"/>`		

Attribute otherDate / @dateInformation

Namespace	No namespace
Annotations	More information about the value of otherDate (recommended if dateType is Other)
Type	shortTextLimitType
Properties	use: optional
Facets	minLength 1
	maxLength 60
Used by	Element otherDate

Source	`<xs:attribute name="dateInformation" type="shortTextLimitType" use="optional">`
	`  <xs:annotation>`
	`  <xs:documentation xml:lang="en">More information about the value of otherDate (recommended if dateType is Other)</xs:documentation>`

```
  </xs:annotation>
</xs:attribute>
```

Attribute projectDescription / departments / department / @departmentCode

Namespace	No namespace
Annotations	Records the numerical code for the department (required)
Type	departmentCodeType
Properties	use: required
Facets	pattern [0-9]{5}
Used by	Element projectDescription/departments/department

Source	`<xs:attribute name="departmentCode" type="departmentCodeType" use="required">`
	`  <xs:annotation>`
	`  <xs:documentation xml:lang="en">Records the numerical code for the department (required)</xs:documentation>`
	`  </xs:annotation>`
	`</xs:attribute>`

Attribute additionalProjectInformation / funded / @federallyFunded

Namespace	No namespace
Annotations	Whether the resource is funded by the U.S. federal government (default false) If true, then at least one fundingReference must have the federalFunder attribute set to true
Type	xs:boolean
Properties	default: false
Used by	Element additionalProjectInformation/funded

Source	`<xs:attribute name="federallyFunded" type="xs:boolean" default="false">`
	`  <xs:annotation>`
	`  <xs:documentation xml:lang="en">Whether the resource is funded by the U.S. federal government (default false)</xs:documentation>`
	`  <xs:documentation xml:lang="en">If true, then at least one fundingReference must have the federalFunder attribute set to true</xs:documentation>`
	`  </xs:annotation>`
	`</xs:attribute>`

Attribute supplementalMetadata / keywords / keyword / @subjectSchema

Namespace	No namespace
Annotations	The name of the subject schema or classification code or authority, if applicable
Type	titleLimitType
Properties	use: optional
Facets	minLength 1 maxLength 200
Used by	Element supplementalMetadata/keywords/keyword

Source	`<xs:attribute name="subjectSchema" type="titleLimitType" use="optional">`
	`  <xs:annotation>`
	`  <xs:documentation xml:lang="en">The name of the subject schema or classification code or authority, if applicable</xs:documentation>`
	`  </xs:annotation>`
	`</xs:attribute>`

Attribute supplementalMetadata / keywords / keyword / @subjectSchemaURI

Namespace	No namespace
Annotations	The URI of the subject identifier schema, if applicable
Type	xs:anyURI
Properties	use: optional
Used by	Element supplementalMetadata/keywords/keyword
Source	`<xs:attribute name="subjectSchemaURI" type="xs:anyURI" use="optional">` `  <xs:annotation>`

```
    <xs:documentation xml:lang="en">The URI of the subject identifier schema, if applicable</
xs:documentation>
  </xs:annotation>
</xs:attribute>
```

Attribute supplementalMetadata / keywords / keyword / @valueURI

Namespace	No namespace
Annotations	The URI of the subject term, if applicable
Type	xs:anyURI
Properties	use: optional
Used by	Element supplementalMetadata/keywords/keyword

Source

```
<xs:attribute name="valueURI" type="xs:anyURI" use="optional">
  <xs:annotation>
    <xs:documentation xml:lang="en">The URI of the subject term, if applicable</xs:documentation>
  </xs:annotation>
</xs:attribute>
```

Attribute supplementalMetadata / keywords / keyword / @classificationCode

Namespace	No namespace
Annotations	The classification code used for the subject term in the subject schema, if applicable
Type	shortAttributeType
Properties	use: optional
Facets	minLength 0
	maxLength 60
Used by	Element supplementalMetadata/keywords/keyword

Source

```
<xs:attribute name="classificationCode" type="shortAttributeType" use="optional">
  <xs:annotation>
    <xs:documentation xml:lang="en">The classification code used for the subject term in the subject
 schema, if applicable</xs:documentation>
  </xs:annotation>
</xs:attribute>
```

Attribute supplementalMetadata / relations / relation / @relatedIDType

Namespace	No namespace		
Type	relatedIDTypeType		
Properties	default:	DOI	
Facets	enumeration	ARK	Archival Resource Key A URI designed to support long-term access to information objects.
	enumeration	arXiv	arXiv identifier arXiv.org is a repository of preprints of scientific papers in the fields of mathematics, physics, astronomy, computer science, quantitative biology, statistics, and quantitative finance.
	enumeration	bibcode	Astrophysics Data System bibliographic codes
	enumeration	CSTR	Common Science and Technology Resources Identifier CSTR is an identifier based on the Chinese National Standard GB/T 32843–2016 “Science and technology resource identification”, providing a unique identification service for scientific data, papers, scientific institutions, researchers, scientific instruments, patents and other scientific and technological resources.
	enumeration	DOI	Digital Object Identifier A character string used to uniquely identify an object. A DOI name is divided into two parts, a prefix and a suffix, separated by a slash.

		Use this type to reference TigerData projects
enumeration	EAN13	European Article Number (now renamed International Article Number, but retaining the original acronym) A 13-digit barcoding standard that is a superset of the original 12-digit Universal Product Code (UPC) system.
enumeration	EISSN	Electronic International Standard Serial Number ISSN used to identify periodicals in electronic form (eISSN or e-ISSN).
enumeration	Handle	This refers specifically to an ID in the Handle system operated by the Corporation for National Research Initiatives (CNRI).
enumeration	IGSN	International Generic Sample Number A code that uniquely identifies samples from our natural environment and related features-of-interest.
enumeration	ISBN	International Standard Book Number A unique numeric book identifier. There are 2 formats: a 10-digit ISBN format and a 13-digit ISBN.
enumeration	ISSN	International Standard Serial Number A unique 8-digit number used to identify a print or electronic periodical publication.
enumeration	ISTC	International Standard Text Code A unique “number” assigned to a textual work. An ISTC consists of 16 numbers and/or letters.
enumeration	LISSN	The linking ISSN or ISSN-L enables collocation or linking among different media versions of a continuing resource.
enumeration	LSID	Life Science Identifiers A unique identifier for data in the Life Science domain.
enumeration	PMID	PubMed identifier A unique number assigned to each PubMed record.
enumeration	PURL	Persistent Uniform Resource Locator A PURL has three parts: (1) a protocol, (2) a resolver address, and (3) a name.
enumeration	RRID	Research Resource IDentifier A character string used to uniquely identify key inputs to an experiment including the so-called “key biological resources” as defined by the National Institutes of Health, and related tools such as core facilities and databases. An RRID name is divided into two parts, the authority and a local identifier, separated by an underscore.
enumeration	UPC	Universal Product Code A barcode symbology used for tracking trade items in stores. Its most common form, the UPC-A, consists of 12 numerical digits.
enumeration	URL	Uniform Resource Locator Also known as web address, a URL is a specific character string that constitutes a reference to a resource.
enumeration	URN	Uniform Resource Name A unique and persistent identifier of an electronic document.
enumeration	w3id	Permanent identifier for Web applications Mostly used to publish vocabularies and ontologies. The letters ‘w3’ stand for “World Wide Web”.

	enumeration	MFAID	A Mediaflux Asset ID number Include the domain and namespace to make the ID as persistent as possible Use this type to reference TigerData items
Used by	Element	supplementalMetadata/relations/relation	
Source	`<xs:attribute name="relatedIDType" type="relatedIDTypeType" default="DOI"/>`		

Attribute `supplementalMetadata / relations / relation / @relationType`

Namespace	No namespace		
Type	relationTypeType		
Properties	use:	required	
Facets	enumeration	IsCitedBy	B includes A in a citation
	enumeration	Cites	A includes B in a citation
	enumeration	IsSupplementTo	A is a supplement to B
	enumeration	IsSupplementedBy	B is a supplement to A
	enumeration	IsContinuedBy	A is continued by the work B
	enumeration	Continues	A is a continuation of the work B
	enumeration	Describes	A describes B
	enumeration	IsDescribedBy	A is described by B
	enumeration	HasMetadata	A has additional metadata B
	enumeration	IsMetadataFor	Indicates additional metadata A for a resource B
	enumeration	HasVersion	A has a version B
	enumeration	IsVersionOf	A is a version of B
	enumeration	IsNewVersionOf	A is a new edition of B, where the new edition has been modified or updated
	enumeration	IsPreviousVersionOf	A is a previous edition of B
	enumeration	IsPartOf	A is a portion of B; may be used for elements of a series Do not use for formal parent-child relationships between TigerData projects, subprojects, or items
	enumeration	HasPart	A includes the part B Do not use for formal parent-child relationships between TigerData projects, subprojects, or items
	enumeration	IsPublishedIn	A is published inside B, but is independent of other things published inside of B
	enumeration	IsReferencedBy	A is used as a source of information by B
	enumeration	References	B is used as a source of information for A
	enumeration	IsDocumentedBy	B is documentation about/explaining A
	enumeration	Documents	A is documentation about/explaining B
	enumeration	IsCompiledBy	B is used to compile or create A
	enumeration	Compiles	B is the result of a compile or creation event using A
	enumeration	IsVariantFormOf	A is a variant or different form of B
	enumeration	IsOriginalFormOf	A is the original form of B
	enumeration	IsIdenticalTo	A is identical to B, for use when there is a need to register two separate instances of the same resource
	enumeration	IsReviewedBy	A is reviewed by B
	enumeration	Reviews	A is a review of B
	enumeration	IsDerivedFrom	B is a source upon which A is based
	enumeration	IsSourceOf	A is a source upon which B is based

	enumeration	IsRequiredBy	A is required by B
	enumeration	Requires	A requires B
	enumeration	Obsoletes	A replaces B
	enumeration	IsObsoletedBy	A is replaced by B
	enumeration	IsCollectedBy	A is collected by B
	enumeration	Collects	A collects B
	enumeration	IsTranslationOf	A is a translation of B
	enumeration	HasTranslation	A has a translation B
	enumeration	HasSubproject	A and B are both projects, and A includes B as a subproject Use only with formal relationships between TigerData projects and subprojects
	enumeration	IsSubprojectOf	A and B are both projects, and B includes A as a subproject Use only with formal relationships between TigerData projects and subprojects
	enumeration	HasItem	A is either a project or an item, B is an item, and A includes B Use only with formal relationships between TigerData projects and/or items
	enumeration	IsItemOf	A is an item, B is either a project or an item, and B includes A Use only with formal relationships between TigerData projects and/or items
Used by	Element	supplementalMetadata/relations/relation	
Source	`<xs:attribute name="relationType" type="relationTypeType" use="required"/>`		

Attribute supplementalMetadata / relations / relation / @relatedMetadataSchema

Namespace	No namespace	
Annotations	The name of the related metadata schema, if applicable Use only with HasMetadata and IsMetadataFor relation types	
Type	titleLimitType	
Properties	use:	optional
Facets	minLength	1
	maxLength	200
Used by	Element	supplementalMetadata/relations/relation

Source	`<xs:attribute name="relatedMetadataSchema" type="titleLimitType" use="optional">`
	`  <xs:annotation>`
	`  <xs:documentation xml:lang="en">The name of the related metadata schema, if applicable</xs:documentation>`
	`  <xs:documentation xml:lang="en">Use only with HasMetadata and IsMetadataFor relation types</xs:documentation>`
	`  </xs:annotation>`
	`</xs:attribute>`	

Attribute supplementalMetadata / relations / relation / @relatedMetadataSchemaURI

Namespace	No namespace	
Annotations	The URI of the related metadata schema, if applicable Use only with HasMetadata and IsMetadataFor relation types	
Type	xs:anyURI	
Properties	use:	optional
Used by	Element	supplementalMetadata/relations/relation

Source	`<xs:attribute name="relatedMetadataSchemaURI" type="xs:anyURI" use="optional">`
	`  <xs:annotation>`
	`  <xs:documentation xml:lang="en">The URI of the related metadata schema, if applicable</xs:documentation>`
	`  <xs:documentation xml:lang="en">Use only with HasMetadata and IsMetadataFor relation types</xs:documentation>`
	`  </xs:annotation>`
	`</xs:attribute>`

Attribute `supplementalMetadata / relations / relation / @relatedMetadataSchemaType`

Namespace	No namespace	

Annotations	`The type of the related metadata schema, if applicable (e.g. XSD, DDT, Turtle)`
	
	`Use only with HasMetadata and IsMetadataFor relation types`	

Type	shortAttributeType	
Properties	use:	`optional`
Facets	minLength	`0`
	maxLength	`60`
Used by	Element	supplementalMetadata/relations/relation

Source	`<xs:attribute name="relatedMetadataSchemaType" type="shortAttributeType" use="optional">`
	`  <xs:annotation>`
	`  <xs:documentation xml:lang="en">The type of the related metadata schema, if applicable (e.g. XSD, DDT, Turtle)</xs:documentation>`
	`  <xs:documentation xml:lang="en">Use only with HasMetadata and IsMetadataFor relation types</xs:documentation>`
	`  </xs:annotation>`
	`</xs:attribute>`	

Attribute `itemFields / itemID / @itemIDType`

Namespace	No namespace	
Annotations	`Makes explicit that itemID is always given as a Mediaflux Asset ID`	
Type	xs:string	
Properties	fixed:	`MFAID`
Used by	Element	itemFields/itemID

Source	`<xs:attribute name="itemIDType" type="xs:string" fixed="MFAID">`
	`  <xs:annotation>`
	`  <xs:documentation xml:lang="en">Makes explicit that itemID is always given as a Mediaflux Asset ID</xs:documentation>`
	`  </xs:annotation>`
	`</xs:attribute>`	

Attribute `resource / @resourceClass`

Namespace	No namespace	
Annotations	`Specifies the class of a given resource: either Project or Item (required)`	
Type	restriction of xs:string	
Properties	use:	`required`
Facets	enumeration	`Project`
	enumeration	`Item`
Used by	Element	resource

Source	`<xs:attribute name="resourceClass" use="required">`
	`  <xs:annotation>`
	`  <xs:documentation xml:lang="en">Specifies the class of a given resource: either Project or Item (required)</xs:documentation>`
	`  </xs:annotation>`
	`  <xs:simpleType>`
	`  <xs:restriction base="xs:string">`	

```
      <xs:enumeration value="Project" xml:lang="en"/>
      <xs:enumeration value="Item" xml:lang="en"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
```

Attribute `resource / @resourceID`

Namespace	No namespace

Annotations	`The unique identifier for the resource within TigerData systems (required)`
	
	`If the resourceClass is Project, then the resourceID should be a DOI; if Item, then the resourceID should be a Mediaflux AssetID (MFAID)`

Type	titleLimitType
Properties	use: `required`
Facets	minLength `1` maxLength `200`
Used by	Element resource

Source	`<xs:attribute name="resourceID" type="titleLimitType" use="required">`
	`  <xs:annotation>`
	`  <xs:documentation xml:lang="en">The unique identifier for the resource within TigerData systems (required)</xs:documentation>`
	`  <xs:documentation xml:lang="en">If the resourceClass is Project, then the resourceID should be a DOI; if Item, then the resourceID should be a Mediaflux AssetID (MFAID)</xs:documentation>`
	`  </xs:annotation>`
	`</xs:attribute>`

Attribute `resource / @resourceIDType`

Namespace	No namespace
Annotations	`If the resourceClass is Project, then the resourceID should be a DOI; if Item, then the resourceID should be a Mediaflux AssetID (MFAID)`
Type	restriction of xs:string
Properties	use: `required`
Facets	enumeration `DOI` enumeration `MFAID`
Used by	Element resource

Source	`<xs:attribute name="resourceIDType" use="required">`
	`  <xs:annotation>`
	`  <xs:documentation xml:lang="en">If the resourceClass is Project, then the resourceID should be a DOI; if Item, then the resourceID should be a Mediaflux AssetID (MFAID)</xs:documentation>`
	`  </xs:annotation>`
	`  <xs:simpleType>`
	`  <xs:restriction base="xs:string">`
	`  <xs:enumeration value="DOI"/>`
	`  <xs:enumeration value="MFAID"/>`
	`  </xs:restriction>`
	`  </xs:simpleType>`
	`</xs:attribute>`

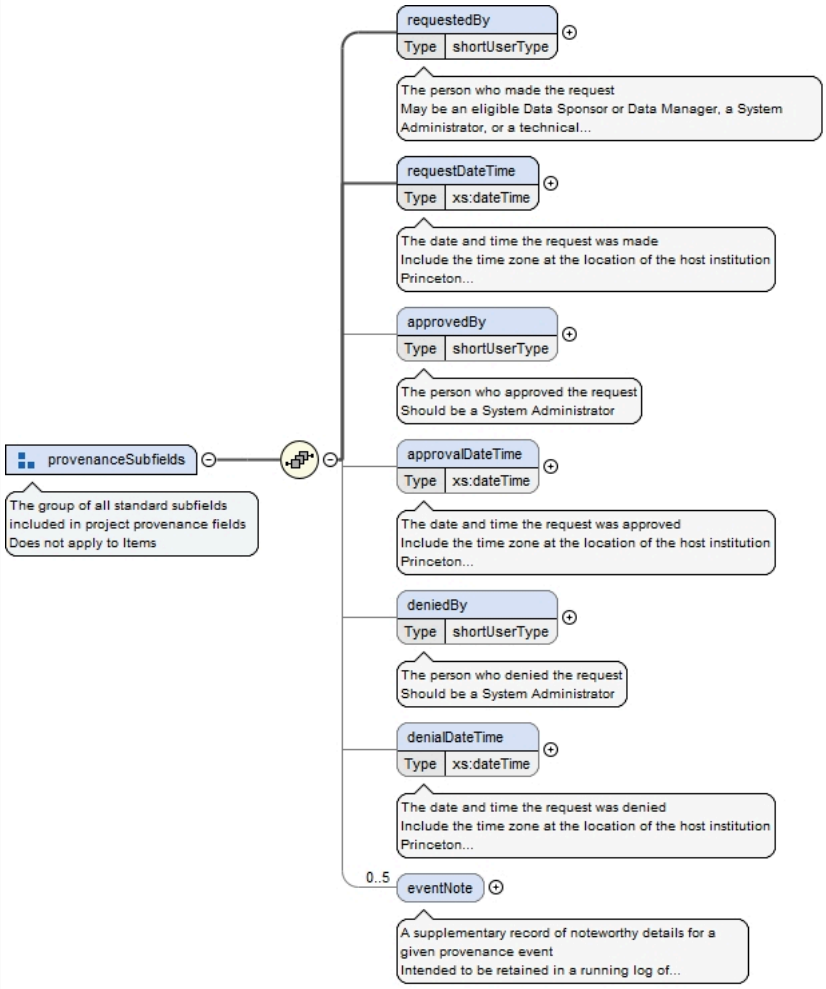
Element Group(s)

Element Group `provenanceSubfields`

Namespace	No namespace

Annotations	`The group of all standard subfields included in project provenance fields`
	
	`Does not apply to Items`

Diagram



Used by

Elements projectFields/projectProvenance/publication, projectFields/projectProvenance/retirement, projectFields/projectProvenance/revisions/revision, projectFields/projectProvenance/submission

Model

requestedBy , requestDateTime , approvedBy{0,1} , approvalDateTime{0,1} , deniedBy{0,1} , denialDateTime{0,1} , eventNote{0,5}

Children

approvalDateTime, approvedBy, denialDateTime, deniedBy, eventNote, requestDateTime, requestedBy

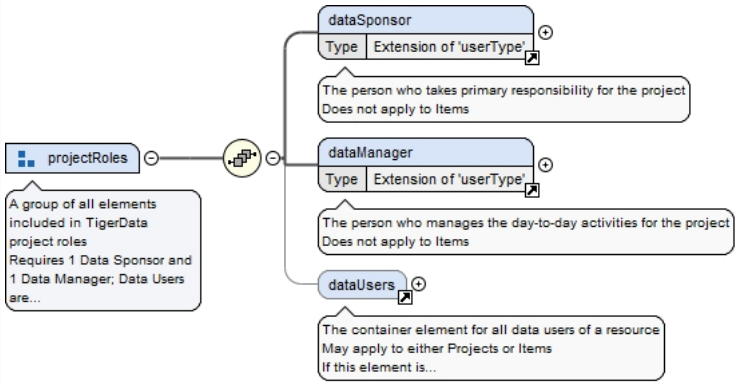
Source

```
<xs:group name="provenanceSubfields">
  <xs:annotation>
    <xs:documentation xml:lang="en">The group of all standard subfields included in project
 provenance fields</xs:documentation>
    <xs:documentation xml:lang="en">Does not apply to Items</xs:documentation>
  </xs:annotation>
  <xs:sequence>
    <xs:element name="requestedBy" type="shortUserType" minOccurs="1" maxOccurs="1">
      <xs:annotation>
        <xs:documentation xml:lang="en">The person who made the request</xs:documentation>
        <xs:documentation xml:lang="en">May be an eligible Data Sponsor or Data Manager, a System
 Administrator, or a technical service account</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="requestDateTime" type="xs:dateTime" minOccurs="1" maxOccurs="1">
      <xs:annotation>
        <xs:documentation xml:lang="en">The date and time the request was made</xs:documentation>
        <xs:documentation xml:lang="en">Include the time zone at the location of the host
 institution</xs:documentation>
        <xs:documentation xml:lang="en">Princeton University is in the Eastern Time Zone (UTC-05:00
 during Eastern Standard Time and UTC-04:00 during Eastern Daylight Time)</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="approvedBy" type="shortUserType" minOccurs="0" maxOccurs="1">
      <xs:annotation>
        <xs:documentation xml:lang="en">The person who approved the request</xs:documentation>
        <xs:documentation xml:lang="en">Should be a System Administrator</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="approvalDateTime" type="xs:dateTime" minOccurs="0" maxOccurs="1">
```

```
      <xs:annotation>
        <xs:documentation xml:lang="en">The date and time the request was approved</
xs:documentation>
        <xs:documentation xml:lang="en">Include the time zone at the location of the host
 institution</xs:documentation>
        <xs:documentation xml:lang="en">Princeton University is in the Eastern Time Zone (UTC-05:00
 during Eastern Standard Time and UTC-04:00 during Eastern Daylight Time)</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="deniedBy" type="shortUserType" minOccurs="0" maxOccurs="1">
      <xs:annotation>
        <xs:documentation xml:lang="en">The person who denied the request</xs:documentation>
        <xs:documentation xml:lang="en">Should be a System Administrator</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="denialDateTime" type="xs:dateTime" minOccurs="0" maxOccurs="1">
      <xs:annotation>
        <xs:documentation xml:lang="en">The date and time the request was denied</xs:documentation>
        <xs:documentation xml:lang="en">Include the time zone at the location of the host
 institution</xs:documentation>
        <xs:documentation xml:lang="en">Princeton University is in the Eastern Time Zone (UTC-05:00
 during Eastern Standard Time and UTC-04:00 during Eastern Daylight Time)</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="eventNote" minOccurs="0" maxOccurs="5">
      <xs:annotation>
        <xs:documentation xml:lang="en">A supplementary record of noteworthy details for a given
 provenance event</xs:documentation>
        <xs:documentation xml:lang="en">Intended to be retained in a running log of all noteworthy
 events</xs:documentation>
      </xs:annotation>
      <xs:complexType>
        <xs:sequence>
          <xs:element name="noteBy" type="shortUserType" minOccurs="1" maxOccurs="1">
            <xs:annotation>
              <xs:documentation xml:lang="en">The person making the note</xs:documentation>
              <xs:documentation xml:lang="en">Should be a System Administrator</xs:documentation>
            </xs:annotation>
          </xs:element>
          <xs:element name="noteDateTime" type="xs:dateTime" minOccurs="1" maxOccurs="1">
            <xs:annotation>
              <xs:documentation xml:lang="en">The date and time the note was made</xs:documentation>
              <xs:documentation xml:lang="en">Include the time zone at the location of the host
 institution</xs:documentation>
              <xs:documentation xml:lang="en">Princeton University is in the Eastern Time
 Zone (UTC-05:00 during Eastern Standard Time and UTC-04:00 during Eastern Daylight Time)</
xs:documentation>
            </xs:annotation>
          </xs:element>
          <xs:element name="eventType" minOccurs="1" maxOccurs="1">
            <xs:annotation>
              <xs:documentation xml:lang="en">A general category label for the event note</
xs:documentation>
            </xs:annotation>
            <xs:simpleType>
              <xs:restriction base="xs:string">
                <xs:enumeration value="Collection" xml:lang="en">
                  <xs:annotation>
                    <xs:documentation xml:lang="en">Event note records the assignment of or change
 to the project's Mediaflux collection ID</xs:documentation>
                  </xs:annotation>
                </xs:enumeration>
                <xs:enumeration value="Directory" xml:lang="en">
                  <xs:annotation>
                    <xs:documentation xml:lang="en">Event note pertains to the project's directory
 or mount point</xs:documentation>
                  </xs:annotation>
                </xs:enumeration>
                <xs:enumeration value="Quota" xml:lang="en">
                  <xs:annotation>
                    <xs:documentation xml:lang="en">Event note pertains to the project's quota
 settings in Mediaflux</xs:documentation>
                  </xs:annotation>
                </xs:enumeration>
                <xs:enumeration value="Tier" xml:lang="en">
                  <xs:annotation>
                    <xs:documentation xml:lang="en">Event note pertains to the project's storage
 tier</xs:documentation>
                  </xs:annotation>
                </xs:enumeration>
                <xs:enumeration value="Sponsor" xml:lang="en">
                  <xs:annotation>
```

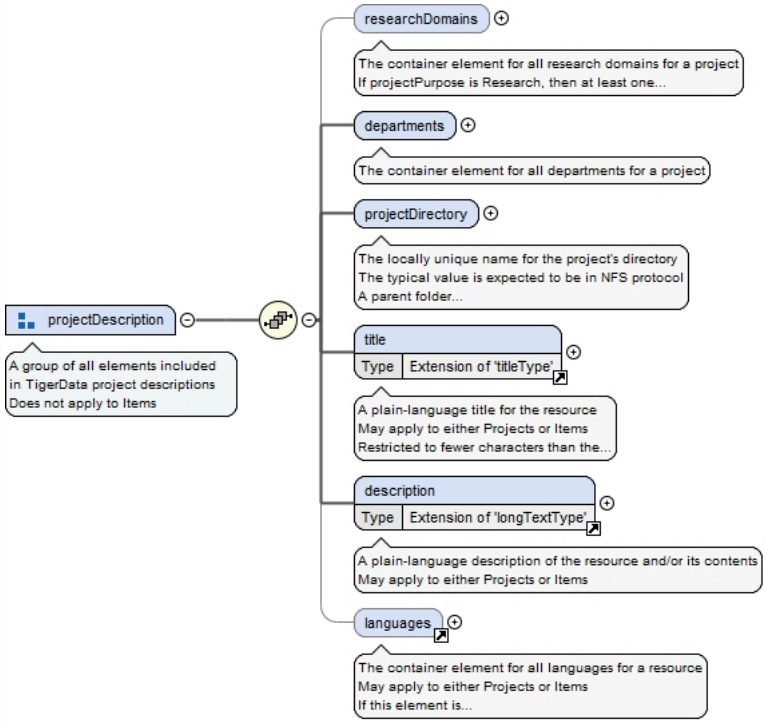
```
                    <xs:documentation xml:lang="en">Event note records any changes to the project's
 Data Sponsor</xs:documentation>
                  </xs:annotation>
                </xs:enumeration>
                <xs:enumeration value="Revision" xml:lang="en">
                  <xs:annotation>
                    <xs:documentation xml:lang="en">Event note explains the return of the project
 request to the submitter for revision</xs:documentation>
                  </xs:annotation>
                </xs:enumeration>
                <xs:enumeration value="Denial" xml:lang="en">
                  <xs:annotation>
                    <xs:documentation xml:lang="en">Event note explains the denial of the project
 request</xs:documentation>
                  </xs:annotation>
                </xs:enumeration>
                <xs:enumeration value="Other" xml:lang="en">
                  <xs:annotation>
                    <xs:documentation xml:lang="en">The event note is not otherwise classified</
xs:documentation>
                  </xs:annotation>
                </xs:enumeration>
              </xs:restriction>
            </xs:simpleType>
          </xs:element>
          <xs:element name="message" type="textType" minOccurs="1" maxOccurs="1">
            <xs:annotation>
              <xs:documentation xml:lang="en">The plain-language message contents of the event
 note</xs:documentation>
            </xs:annotation>
          </xs:element>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
  </xs:sequence>
</xs:group>
```

Element Group `projectRoles`

Namespace	No namespace
Annotations	A group of all elements included in TigerData project roles Requires 1 Data Sponsor and 1 Data Manager; Data Users are optional and repeatable Does not apply to Items
Diagram	
Used by	Element Group projectFields
Model	dataSponsor , dataManager , dataUsers{0,1}
Children	dataManager, dataSponsor, dataUsers
Source	<xs:group name="projectRoles"> <xs:annotation> <xs:documentation xml:lang="en">A group of all elements included in TigerData project roles</xs:documentation> <xs:documentation xml:lang="en">Requires 1 Data Sponsor and 1 Data Manager; Data Users are optional and repeatable</xs:documentation> <xs:documentation xml:lang="en">Does not apply to Items</xs:documentation> </xs:annotation> <xs:sequence> <xs:element ref="dataSponsor" minOccurs="1" maxOccurs="1"/> <xs:element ref="dataManager" minOccurs="1" maxOccurs="1"/> <xs:element ref="dataUsers" minOccurs="0" maxOccurs="1"/> </xs:sequence>

```
</xs:group>
```

Element Group `projectDescription`

Namespace	No namespace
Annotations	A group of all elements included in TigerData project descriptions Does not apply to Items
Diagram	
Used by	Element Group projectFields
Model	researchDomains{0,1} , departments , projectDirectory , title , description , languages{0,1}
Children	departments, description, languages, projectDirectory, researchDomains, title
Source	

```
<xs:group name="projectDescription">
  <xs:annotation>
    <xs:documentation xml:lang="en">A group of all elements included in TigerData project
 descriptions</xs:documentation>
    <xs:documentation xml:lang="en">Does not apply to Items</xs:documentation>
  </xs:annotation>
  <xs:sequence>
    <xs:element name="researchDomains" minOccurs="0" maxOccurs="1">
      <xs:annotation>
        <xs:documentation xml:lang="en">The container element for all research domains for a
 project</xs:documentation>
        <xs:documentation xml:lang="en">If projectPurpose is Research, then at least one
 researchDomain element should be given</xs:documentation>
        <xs:documentation xml:lang="en">If this element is present, then it should contain at least
 one sub-element</xs:documentation>
        <xs:documentation xml:lang="en">No duplicate domains; no more than 4 total</
xs:documentation>
      </xs:annotation>
      <xs:complexType>
        <xs:sequence>
          <xs:element name="researchDomain" minOccurs="1" maxOccurs="4">
            <xs:annotation>
              <xs:documentation xml:lang="en">The general field(s) of academic research related to
 the project, if applicable</xs:documentation>
              <xs:documentation xml:lang="en">Options are limited to the 4 domains Princeton
 University uses to categorize departments</xs:documentation>
            </xs:annotation>
            <xs:complexType>
              <xs:simpleContent>
                <xs:extension base="researchDomainNameType">
                  <xs:attribute ref="inherited" fixed="true"/>
                </xs:extension>
              </xs:simpleContent>
            </xs:complexType>
          </xs:element>
```

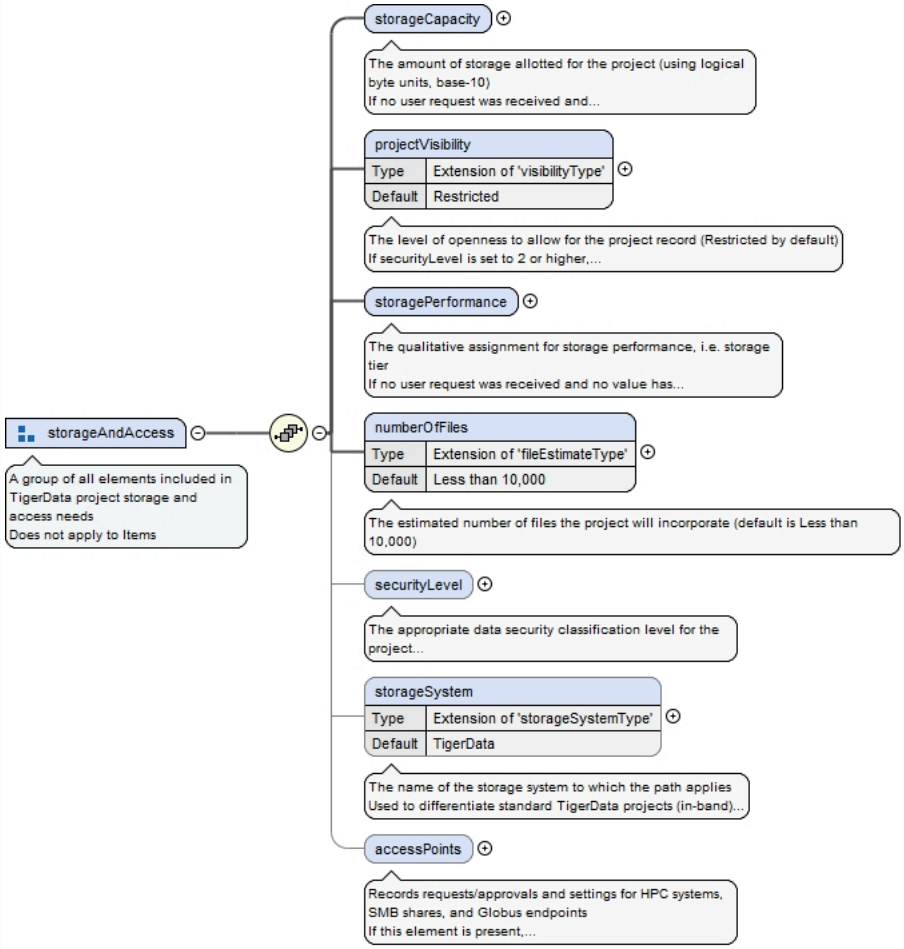
```
        </xs:sequence>
        <xs:attribute ref="discoverable" fixed="true"/>
        <xs:attribute ref="trackingLevel" fixed="ResourceRecord"/>
      </xs:complexType>
    </xs:element>
    <xs:element name="departments" minOccurs="1" maxOccurs="1">
      <xs:annotation>
        <xs:documentation xml:lang="en">The container element for all departments for a project</
xs:documentation>
      </xs:annotation>
      <xs:complexType>
        <xs:sequence>
          <xs:element name="department" minOccurs="1" maxOccurs="10">
            <xs:annotation>
              <xs:documentation xml:lang="en">The primary Princeton University department(s)
 affiliated with the project</xs:documentation>
              <xs:documentation xml:lang="en">Use the canonical name for each recorded department</
xs:documentation>
              <xs:documentation xml:lang="en">Princeton department names typically start with
 a 2- or 3-character abbreviation, followed by a minus-dash, and then a short description</
xs:documentation>
            </xs:annotation>
            <xs:complexType>
              <xs:simpleContent>
                <xs:extension base="departmentType">
                  <xs:attribute name="departmentCode" type="departmentCodeType" use="required">
                    <xs:annotation>
                      <xs:documentation xml:lang="en">Records the numerical code for the department
 (required)</xs:documentation>
                    </xs:annotation>
                  </xs:attribute>
                  <xs:attribute ref="inherited" default="true"/>
                </xs:extension>
              </xs:simpleContent>
            </xs:complexType>
          </xs:element>
        </xs:sequence>
        <xs:attribute ref="discoverable" fixed="true"/>
        <xs:attribute ref="trackingLevel" fixed="ResourceRecord"/>
      </xs:complexType>
    </xs:element>
    <xs:element name="projectDirectory" minOccurs="1" maxOccurs="1">
      <xs:annotation>
        <xs:documentation xml:lang="en">The locally unique name for the project’s directory</
xs:documentation>
        <xs:documentation xml:lang="en">The typical value is expected to be in NFS protocol</
xs:documentation>
        <xs:documentation xml:lang="en">A parent folder is recommended to organize projects by
 groups (e.g., lab or principal investigator)</xs:documentation>
        <xs:documentation xml:lang="en">If no user request was received and no value has yet been
 approved, then this field may be empty</xs:documentation>
      </xs:annotation>
      <xs:complexType>
        <xs:sequence>
          <xs:element name="projectDirectoryPath" type="pathType" minOccurs="0" maxOccurs="10">
            <xs:annotation>
              <xs:documentation xml:lang="en">A current setting for projectDirectory (omitted until
 approved)</xs:documentation>
              <xs:documentation xml:lang="en">After approval, this value should be updated to match
 the approved value (in rare cases, the current setting may later deviate from the approved value)</
xs:documentation>
              <xs:documentation xml:lang="en">Multiple elements are allowed to specify paths in
 alternative protocols, using the protocol attribute</xs:documentation>
              <xs:documentation xml:lang="en">Example NFS path: /tigerdata/parent-folder/project-
folder</xs:documentation>
              <xs:documentation xml:lang="en">Example SMB path: \\tigerdata-smb\parent-folder
\project-folder</xs:documentation>
              <xs:documentation xml:lang="en">Example S3 path: S3://princeton/tigerdata/parent-
folder/project-folder</xs:documentation>
            </xs:annotation>
          </xs:element>
          <xs:element name="requestedValue" type="pathType" minOccurs="0" maxOccurs="1">
            <xs:annotation>
              <xs:documentation xml:lang="en">The requested value for projectDirectory (omitted if
 no user request was received)</xs:documentation>
            </xs:annotation>
          </xs:element>
          <xs:element name="approvedValue" type="pathType" minOccurs="0" maxOccurs="1">
            <xs:annotation>
              <xs:documentation xml:lang="en">The approved value for projectDirectory (omitted if no
 sys admin has approved yet)</xs:documentation>
              <xs:documentation xml:lang="en">Once approved, the approved attribute should also be
 set to true</xs:documentation>
```

```
            </xs:annotation>
          </xs:element>
        </xs:sequence>
        <xs:attribute ref="approved" default="false"/>
        <xs:attribute ref="inherited" fixed="false"/>
        <xs:attribute ref="discoverable" fixed="false"/>
        <xs:attribute ref="trackingLevel" fixed="InternalUseOnly"/>
      </xs:complexType>
    </xs:element>
    <xs:element ref="title" minOccurs="1" maxOccurs="1"/>
    <xs:element ref="description" minOccurs="1" maxOccurs="1"/>
    <xs:element ref="languages" minOccurs="0" maxOccurs="1"/>
  </xs:sequence>
</xs:group>
```

Element Group `storageAndAccess`

Namespace	No namespace

Annotations	`A group of all elements included in TigerData project storage and access needs`
	
	`Does not apply to Items`

Diagram	
Used by	Element Group projectFields
Model	storageCapacity , projectVisibility , storagePerformance , numberOfFiles , securityLevel{0,1} , storageSystem{0,1} , accessPoints{0,1}
Children	accessPoints, numberOfFiles, projectVisibility, securityLevel, storageCapacity, storagePerformance, storageSystem

Source	`<xs:group name="storageAndAccess">`
	`  <xs:annotation>`
	`  <xs:documentation xml:lang="en">A group of all elements included in TigerData project storage and access needs</xs:documentation>`
	`  <xs:documentation xml:lang="en">Does not apply to Items</xs:documentation>`
	`  </xs:annotation>`
	`  <xs:sequence>`
	`  <xs:element name="storageCapacity" minOccurs="1" maxOccurs="1">`
	`  <xs:annotation>`

```
        <xs:documentation xml:lang="en">The amount of storage allotted for the project (using
logical byte units, base-10)</xs:documentation>
        <xs:documentation xml:lang="en">If no user request was received and no value has yet been
approved, then this field may be empty</xs:documentation>
      </xs:annotation>
      <xs:complexType>
        <xs:sequence>
          <xs:element name="storageCapacitySetting" type="storageQuantityType" minOccurs="0"
maxOccurs="1">
            <xs:annotation>
              <xs:documentation xml:lang="en">The current setting for storageCapacity (omitted until
approved)</xs:documentation>
              <xs:documentation xml:lang="en">After the implementation of the approval, this value
should be updated to match the approvedValue</xs:documentation>
            </xs:annotation>
          </xs:element>
          <xs:element name="requestedValue" type="storageQuantityType" minOccurs="0" maxOccurs="1">
            <xs:annotation>
              <xs:documentation xml:lang="en">The requested value for storageCapacity (omitted if no
user request was received)</xs:documentation>
              <xs:documentation xml:lang="en">This field gets updated when a Data Sponsor or Data
Manager requests a change in storage capacity on an active project</xs:documentation>
              <xs:documentation xml:lang="en">Depending on the amount requested, a System
Administrator may ask the Data Sponsor for more justification for the request</xs:documentation>
            </xs:annotation>
          </xs:element>
          <xs:element name="approvedValue" type="storageQuantityType" minOccurs="0" maxOccurs="1">
            <xs:annotation>
              <xs:documentation xml:lang="en">The approved value for storageCapacity (omitted if no
sys admin has approved yet)</xs:documentation>
              <xs:documentation xml:lang="en">Once approved for initial project setup, the approved
attribute should also be set to true</xs:documentation>
              <xs:documentation xml:lang="en">If the Data Sponsor or Data Manager requests a
change in storage capacity, then the approval of the new amount will change the approvedValue</
xs:documentation>
            </xs:annotation>
          </xs:element>
        </xs:sequence>
        <xs:attribute ref="approved" default="false"/>
        <xs:attribute ref="inherited" fixed="false"/>
        <xs:attribute ref="discoverable" fixed="false"/>
        <xs:attribute ref="trackingLevel" fixed="InternalUseOnly"/>
      </xs:complexType>
    </xs:element>
    <xs:element name="projectVisibility" minOccurs="1" maxOccurs="1" default="Restricted">
      <xs:annotation>
        <xs:documentation xml:lang="en">The level of openness to allow for the project record
(Restricted by default)</xs:documentation>
        <xs:documentation xml:lang="en">If securityLevel is set to 2 or higher, then project
visibility should be set to Restricted</xs:documentation>
      </xs:annotation>
      <xs:complexType>
        <xs:simpleContent>
          <xs:extension base="visibilityType">
            <xs:attribute ref="inherited" default="true"/>
            <xs:attribute ref="discoverable" fixed="false"/>
            <xs:attribute ref="trackingLevel" fixed="InternalUseOnly"/>
          </xs:extension>
        </xs:simpleContent>
      </xs:complexType>
    </xs:element>
    <xs:element name="storagePerformance" minOccurs="1" maxOccurs="1">
      <xs:annotation>
        <xs:documentation xml:lang="en">The qualitative assignment for storage performance, i.e.
storage tier</xs:documentation>
        <xs:documentation xml:lang="en">If no user request was received and no value has yet been
approved, then this field may be empty</xs:documentation>
      </xs:annotation>
      <xs:complexType>
        <xs:sequence>
          <xs:element name="storagePerformanceSetting" type="storagePerformanceType" minOccurs="0"
maxOccurs="1">
            <xs:annotation>
              <xs:documentation xml:lang="en">The current setting for storagePerformance (omitted
until approved)</xs:documentation>
              <xs:documentation xml:lang="en">After the implementation of the approval, this value
should be updated to match the approvedValue</xs:documentation>
            </xs:annotation>
          </xs:element>
          <xs:element name="requestedValue" type="storagePerformanceType" minOccurs="0"
maxOccurs="1">
            <xs:annotation>
```

```
              <xs:documentation xml:lang="en">The requested value for storagePerformance (omitted if
 no user request was received)</xs:documentation>
              <xs:documentation xml:lang="en">This field gets updated when a Data Sponsor or Data
 Manager requests a change in storage performance on an active project</xs:documentation>
              <xs:documentation xml:lang="en">Depending on the level requested, a System
 Administrator may ask the Data Sponsor for more justification for the request</xs:documentation>
            </xs:annotation>
          </xs:element>
          <xs:element name="approvedValue" type="storagePerformanceType" minOccurs="0"
 maxOccurs="1">
            <xs:annotation>
              <xs:documentation xml:lang="en">The approved value for storagePerformance (omitted if
 no sys admin has approved yet)</xs:documentation>
              <xs:documentation xml:lang="en">Once approved, the approved attribute should also be
 set to true</xs:documentation>
              <xs:documentation xml:lang="en">If the Data Sponsor or Data Manager requests a
 change in storage performance, then the approval of the new level will change the approvedValue</
xs:documentation>
            </xs:annotation>
          </xs:element>
        </xs:sequence>
        <xs:attribute ref="approved" default="false"/>
        <xs:attribute ref="inherited" default="true"/>
        <xs:attribute ref="discoverable" fixed="false"/>
        <xs:attribute ref="trackingLevel" fixed="InternalUseOnly"/>
      </xs:complexType>
    </xs:element>
    <xs:element name="numberOfFiles" minOccurs="1" maxOccurs="1" default="Less than 10,000">
      <xs:annotation>
        <xs:documentation xml:lang="en">The estimated number of files the project will incorporate
 (default is Less than 10,000)</xs:documentation>
      </xs:annotation>
      <xs:complexType>
        <xs:simpleContent>
          <xs:extension base="fileEstimateType">
            <xs:attribute ref="inherited" default="false"/>
            <xs:attribute ref="discoverable" fixed="false"/>
            <xs:attribute ref="trackingLevel" fixed="InternalUseOnly"/>
          </xs:extension>
        </xs:simpleContent>
      </xs:complexType>
    </xs:element>
    <xs:element name="securityLevel" minOccurs="0" maxOccurs="1">
      <xs:annotation>
        <xs:documentation xml:lang="en">The appropriate data security classification level for the
 project contents</xs:documentation>
        <xs:documentation>https://protectingourinfo.princeton.edu/classify</xs:documentation>
        <xs:documentation xml:lang="en">If the security level is set to 2 or higher, then project
 visibility should be set to Restricted</xs:documentation>
      </xs:annotation>
      <xs:complexType>
        <xs:sequence>
          <xs:element name="securityLevelSetting" type="securityLevelType" maxOccurs="1">
            <xs:annotation>
              <xs:documentation xml:lang="en">The current setting for security level</
xs:documentation>
            </xs:annotation>
          </xs:element>
          <xs:element name="requestedValue" type="securityLevelType" maxOccurs="1">
            <xs:annotation>
              <xs:documentation xml:lang="en">The requested value for security level</
xs:documentation>
            </xs:annotation>
          </xs:element>
          <xs:element name="approvedValue" type="securityLevelType" maxOccurs="1">
            <xs:annotation>
              <xs:documentation xml:lang="en">The approved value for security level</
xs:documentation>
              <xs:documentation xml:lang="en">If an approvedValue is given, then the approved
 attribute should also be set to true</xs:documentation>
            </xs:annotation>
          </xs:element>
        </xs:sequence>
        <xs:attribute ref="approved" default="false"/>
        <xs:attribute ref="inherited" fixed="true"/>
        <xs:attribute ref="discoverable" default="false"/>
        <xs:attribute ref="trackingLevel" fixed="InternalUseOnly"/>
      </xs:complexType>
    </xs:element>
    <xs:element name="storageSystem" minOccurs="0" maxOccurs="1" default="TigerData">
      <xs:annotation>
        <xs:documentation xml:lang="en">The name of the storage system to which the path applies</
xs:documentation>
```

```
        <xs:documentation xml:lang="en">Used to differentiate standard TigerData projects (in-band)
 from out-of-band systems (e.g., '/projects' or 'Della /scratch/gpfs')</xs:documentation>
      </xs:annotation>
      <xs:complexType>
        <xs:simpleContent>
          <xs:extension base="storageSystemType">
            <xs:attribute ref="inherited" default="false"/>
            <xs:attribute ref="discoverable" fixed="false"/>
            <xs:attribute ref="trackingLevel" fixed="InternalUseOnly"/>
          </xs:extension>
        </xs:simpleContent>
      </xs:complexType>
    </xs:element>
    <xs:element name="accessPoints" minOccurs="0" maxOccurs="1">
      <xs:annotation>
        <xs:documentation xml:lang="en">Records requests/approvals and settings for HPC systems, SMB
 shares, and Globus endpoints</xs:documentation>
        <xs:documentation xml:lang="en">If this element is present, then it should contain all 3
 sub-elements</xs:documentation>
      </xs:annotation>
      <xs:complexType>
        <xs:sequence>
          <xs:element name="hpcEnable" minOccurs="1" maxOccurs="1">
            <xs:annotation>
              <xs:documentation xml:lang="en">Whether a project is enabled for access on HPC systems
 (via NFS)</xs:documentation>
              <xs:documentation xml:lang="en">By default, projects do not get set up for access
 on HPC systems, but if both SMB and Globus are disabled, then HPC enabling may be necessary</
xs:documentation>
            </xs:annotation>
            <xs:complexType>
              <xs:sequence>
                <xs:element name="hpcEnableSetting" type="xs:boolean" maxOccurs="1" default="false">
                  <xs:annotation>
                    <xs:documentation xml:lang="en">The current setting for hpcEnable (false by
 default)</xs:documentation>
                  </xs:annotation>
                </xs:element>
                <xs:element name="requestedValue" type="yesNoMaybeType" maxOccurs="1" default="No">
                  <xs:annotation>
                    <xs:documentation xml:lang="en">The requested value for hpcEnable (No by
 default)</xs:documentation>
                  </xs:annotation>
                </xs:element>
                <xs:element name="approvedValue" type="xs:boolean" maxOccurs="1" default="false">
                  <xs:annotation>
                    <xs:documentation xml:lang="en">The approved value for smbEnable (false by
 default)</xs:documentation>
                    <xs:documentation xml:lang="en">The requested value takes yes/no/maybe values,
 but the approved value must be true/false</xs:documentation>
                    <xs:documentation xml:lang="en">If approvedValue is true, then hpcEnableSetting
 and the approved attribute should also be set to true</xs:documentation>
                  </xs:annotation>
                </xs:element>
              </xs:sequence>
              <xs:attribute ref="approved" default="false"/>
            </xs:complexType>
          </xs:element>
          <xs:element name="smbEnable" minOccurs="1" maxOccurs="1">
            <xs:annotation>
              <xs:documentation xml:lang="en">Whether a project has an SMB share enabled</
xs:documentation>
              <xs:documentation xml:lang="en">By default, projects do not get an SMB share, but if
 HPC access is disabled, then smbEnable is likely needed</xs:documentation>
              <xs:documentation xml:lang="en">If an SMB share is approved and set, then the SMB path
 should be included in projectDirectoryPath</xs:documentation>
            </xs:annotation>
            <xs:complexType>
              <xs:sequence>
                <xs:element name="smbEnableSetting" type="xs:boolean" maxOccurs="1" default="false">
                  <xs:annotation>
                    <xs:documentation xml:lang="en">The current setting for smbEnable (false by
 default)</xs:documentation>
                  </xs:annotation>
                </xs:element>
                <xs:element name="requestedValue" type="yesNoMaybeType" maxOccurs="1" default="No">
                  <xs:annotation>
                    <xs:documentation xml:lang="en">The requested value for smbEnable (No by
 default)</xs:documentation>
                  </xs:annotation>
                </xs:element>
                <xs:element name="approvedValue" type="xs:boolean" maxOccurs="1" default="false">
                  <xs:annotation>
```

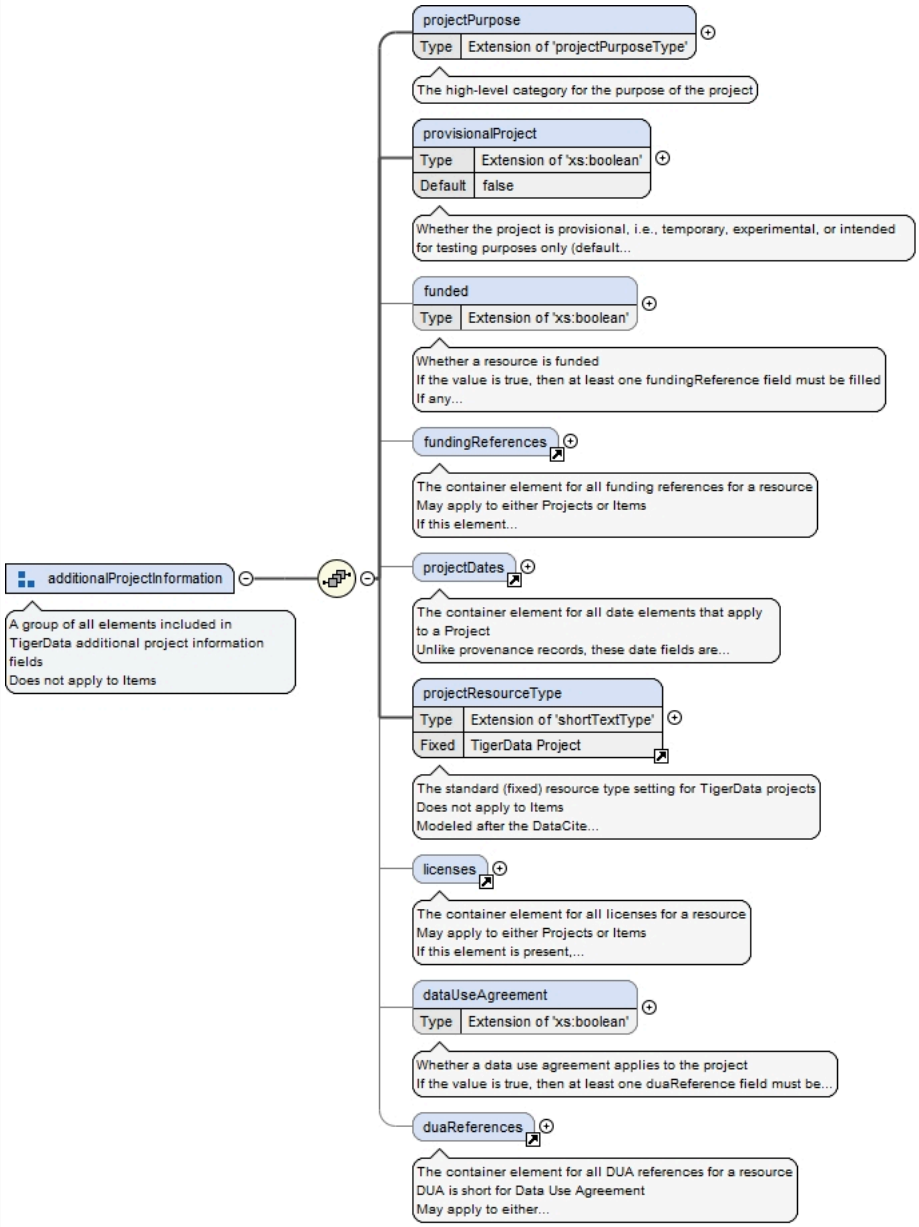
```
                    <xs:documentation xml:lang="en">The approved value for smbEnable (false by
default)</xs:documentation>
                    <xs:documentation xml:lang="en">The requested value takes yes/no/maybe values,
but the approved value must be true/false</xs:documentation>
                    <xs:documentation xml:lang="en">If approvedValue is true, then smbEnableSetting
and the approved attribute should also be set to true</xs:documentation>
                  </xs:annotation>
                </xs:element>
              </xs:sequence>
              <xs:attribute ref="approved" default="false"/>
            </xs:complexType>
          </xs:element>
          <xs:element name="globusEnable" minOccurs="1" maxOccurs="1">
            <xs:annotation>
              <xs:documentation xml:lang="en">Whether a project has a Globus collection enabled</
xs:documentation>
              <xs:documentation xml:lang="en">By default, projects do not get a Globus collection</
xs:documentation>
              <xs:documentation xml:lang="en">If a Globus collection is approved and set, then the
details should be given in globusCollection</xs:documentation>
            </xs:annotation>
            <xs:complexType>
              <xs:sequence>
                <xs:element name="globusEnableSetting" type="xs:boolean" maxOccurs="1"
default="false">
                  <xs:annotation>
                    <xs:documentation xml:lang="en">The current setting for globusEnable (false by
default)</xs:documentation>
                  </xs:annotation>
                </xs:element>
                <xs:element name="requestedValue" type="yesNoMaybeType" maxOccurs="1" default="No">
                  <xs:annotation>
                    <xs:documentation xml:lang="en">The requested value for globusEnable (No by
default)</xs:documentation>
                  </xs:annotation>
                </xs:element>
                <xs:element name="approvedValue" type="xs:boolean" maxOccurs="1" default="false">
                  <xs:annotation>
                    <xs:documentation xml:lang="en">The approved value for globusEnable (false by
default)</xs:documentation>
                    <xs:documentation xml:lang="en">The requested value takes yes/no/maybe values,
but the approved value must be true/false</xs:documentation>
                    <xs:documentation xml:lang="en">If approvedValue is true, then
globusEnableSetting and the approved attribute should also be set to true</xs:documentation>
                  </xs:annotation>
                </xs:element>
              </xs:sequence>
              <xs:attribute ref="approved" default="false"/>
            </xs:complexType>
          </xs:element>
          <xs:element name="globusCollection" minOccurs="0" maxOccurs="5">
            <xs:annotation>
              <xs:documentation xml:lang="en">Details for an enabled Globus collection for the
project</xs:documentation>
              <xs:documentation xml:lang="en">If globusEnableSetting is true, then at least one
globusCollection value set should be given</xs:documentation>
              <xs:documentation xml:lang="en">If no Globus collection is approved, then this field
should be omitted</xs:documentation>
            </xs:annotation>
            <xs:complexType>
              <xs:sequence>
                <xs:element name="globusName" type="titleLimitType" minOccurs="1" maxOccurs="1">
                  <xs:annotation>
                    <xs:documentation xml:lang="en">The Globus collection name (required)</
xs:documentation>
                    <xs:documentation xml:lang="en">The naming convention is "Princeton TigerData -
parent-folder/project-folder"</xs:documentation>
                  </xs:annotation>
                </xs:element>
                <xs:element name="globusUUID" type="uuidType" minOccurs="1" maxOccurs="1">
                  <xs:annotation>
                    <xs:documentation xml:lang="en">The Globus collection universally unique
identifier (required)</xs:documentation>
                    <xs:documentation xml:lang="en">The value is expected to be 32 hexadecimal
digits in 8-4-4-4-12 format</xs:documentation>
                  </xs:annotation>
                </xs:element>
                <xs:element name="globusOwner" type="userType" minOccurs="1" maxOccurs="1">
                  <xs:annotation>
                    <xs:documentation xml:lang="en">The Globus collection owner, given as a
TigerData userType (required)</xs:documentation>
                    <xs:documentation xml:lang="en">The owner is typically the project's Data
Manager</xs:documentation>
```

```
                  </xs:annotation>
                </xs:element>
                <xs:element name="globusURL" type="xs:anyURI" minOccurs="0" maxOccurs="1">
                  <xs:annotation>
                    <xs:documentation xml:lang="en">The Globus collection URL (optional)</
xs:documentation>
                    <xs:documentation xml:lang="en">The expected format for a Globus collection URL
 is https://app.globus.org/file-manager?origin_id=[uuid]</xs:documentation>
                  </xs:annotation>
                </xs:element>
              </xs:sequence>
            </xs:complexType>
          </xs:element>
        </xs:sequence>
        <xs:attribute ref="inherited" fixed="false"/>
        <xs:attribute ref="discoverable" fixed="false"/>
        <xs:attribute ref="trackingLevel" fixed="InternalUseOnly"/>
      </xs:complexType>
    </xs:element>
  </xs:sequence>
</xs:group>
```

Element Group `additionalProjectInformation`

Namespace	No namespace

Annotations	`A group of all elements included in TigerData additional project information fields`
	
	`Does not apply to Items`

Diagram	
Used by	Element Group projectFields
Model	projectPurpose , provisionalProject , funded{0,1} , fundingReferences{0,1} , projectDates{0,1} , projectResourceType , licenses{0,1} , dataUseAgreement{0,1} , duaReferences{0,1}
Children	dataUseAgreement, duaReferences, funded, fundingReferences, licenses, projectDates, projectPurpose, projectResourceType, provisionalProject

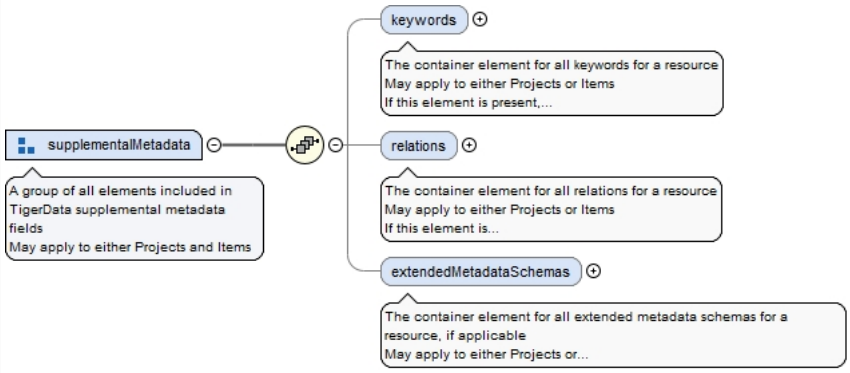
Source

```
<xs:group name="additionalProjectInformation">
  <xs:annotation>
    <xs:documentation xml:lang="en">A group of all elements included in TigerData additional project
 information fields</xs:documentation>
    <xs:documentation xml:lang="en">Does not apply to Items</xs:documentation>
  </xs:annotation>
  <xs:sequence>
    <xs:element name="projectPurpose" minOccurs="1" maxOccurs="1">
      <xs:annotation>
        <xs:documentation xml:lang="en">The high-level category for the purpose of the project</
xs:documentation>
      </xs:annotation>
      <xs:complexType>
        <xs:simpleContent>
          <xs:extension base="projectPurposeType">
            <xs:attribute ref="inherited" default="true"/>
            <xs:attribute ref="discoverable" fixed="true"/>
            <xs:attribute ref="trackingLevel" fixed="InternalUseOnly"/>
          </xs:extension>
```

```
        </xs:simpleContent>
      </xs:complexType>
    </xs:element>
    <xs:element name="provisionalProject" minOccurs="1" maxOccurs="1" default="false">
      <xs:annotation>
        <xs:documentation xml:lang="en">Whether the project is provisional, i.e., temporary,
 experimental, or intended for testing purposes only (default false)</xs:documentation>
        <xs:documentation xml:lang="en">If the value is true, then limitations may be placed on
 other fields, e.g. storageCapacity, storagePerformance, and endDate</xs:documentation>
        <xs:documentation xml:lang="en">If the value is false, then the project is considered
 standard and the provisional limitations are not imposed</xs:documentation>
        <xs:documentation xml:lang="en">Whether provisional or standard, the same fields are
 required for all projects</xs:documentation>
      </xs:annotation>
      <xs:complexType>
        <xs:simpleContent>
          <xs:extension base="xs:boolean">
            <xs:attribute ref="inherited" fixed="true"/>
            <xs:attribute ref="discoverable" fixed="true"/>
            <xs:attribute ref="trackingLevel" fixed="InternalUseOnly"/>
          </xs:extension>
        </xs:simpleContent>
      </xs:complexType>
    </xs:element>
    <xs:element name="funded" minOccurs="0" maxOccurs="1">
      <xs:annotation>
        <xs:documentation xml:lang="en">Whether a resource is funded</xs:documentation>
        <xs:documentation xml:lang="en">If the value is true, then at least one fundingReference
 field must be filled</xs:documentation>
        <xs:documentation xml:lang="en">If any subproject or item contained in a project has a
 fundingReference, then this field should be set to true</xs:documentation>
      </xs:annotation>
      <xs:complexType>
        <xs:simpleContent>
          <xs:extension base="xs:boolean">
            <xs:attribute name="federallyFunded" type="xs:boolean" default="false">
              <xs:annotation>
                <xs:documentation xml:lang="en">Whether the resource is funded by the U.S. federal
 government (default false)</xs:documentation>
                <xs:documentation xml:lang="en">If true, then at least one fundingReference must
 have the federalFunder attribute set to true</xs:documentation>
              </xs:annotation>
            </xs:attribute>
            <xs:attribute ref="inherited" default="true"/>
            <xs:attribute ref="discoverable" fixed="false"/>
            <xs:attribute ref="trackingLevel" fixed="InternalUseOnly"/>
          </xs:extension>
        </xs:simpleContent>
      </xs:complexType>
    </xs:element>
    <xs:element ref="fundingReferences" minOccurs="0" maxOccurs="1"/>
    <xs:element ref="projectDates" minOccurs="0" maxOccurs="1"/>
    <xs:element ref="projectResourceType" minOccurs="1" maxOccurs="1"/>
    <xs:element ref="licenses" minOccurs="0" maxOccurs="1"/>
    <xs:element name="dataUseAgreement" minOccurs="0" maxOccurs="1">
      <xs:annotation>
        <xs:documentation xml:lang="en">Whether a data use agreement applies to the project</
xs:documentation>
        <xs:documentation xml:lang="en">If the value is true, then at least one duaReference field
 must be filled</xs:documentation>
        <xs:documentation xml:lang="en">If any subproject or item contained in a project has a
 duaReference, then this field should be set to true</xs:documentation>
      </xs:annotation>
      <xs:complexType>
        <xs:simpleContent>
          <xs:extension base="xs:boolean">
            <xs:attribute ref="inherited" default="true"/>
            <xs:attribute ref="discoverable" fixed="false"/>
            <xs:attribute ref="trackingLevel" fixed="InternalUseOnly"/>
          </xs:extension>
        </xs:simpleContent>
      </xs:complexType>
    </xs:element>
    <xs:element ref="duaReferences" minOccurs="0" maxOccurs="1"/>
  </xs:sequence>
</xs:group>
```

Element Group `supplementalMetadata`

Namespace	No namespace
Annotations	A group of all elements included in TigerData supplemental metadata fields

	May apply to either Projects and Items
Diagram	
Used by	Element Groups itemFields, projectFields
Model	keywords{0,1} , relations{0,1} , extendedMetadataSchemas{0,1}
Children	extendedMetadataSchemas, keywords, relations
Source	

```
<xs:group name="supplementalMetadata">
  <xs:annotation>
    <xs:documentation xml:lang="en">A group of all elements included in TigerData supplemental
 metadata fields</xs:documentation>
    <xs:documentation xml:lang="en">May apply to either Projects and Items</xs:documentation>
  </xs:annotation>
  <xs:sequence>
    <xs:element name="keywords" minOccurs="0" maxOccurs="1">
      <xs:annotation>
        <xs:documentation xml:lang="en">The container element for all keywords for a resource</
xs:documentation>
        <xs:documentation xml:lang="en">May apply to either Projects or Items</xs:documentation>
        <xs:documentation xml:lang="en">If this element is present, then it should contain at least
 one sub-element</xs:documentation>
      </xs:annotation>
      <xs:complexType>
        <xs:sequence>
          <xs:element name="keyword" minOccurs="1" maxOccurs="10">
            <xs:annotation>
              <xs:documentation xml:lang="en">Tag for a subject heading, content type, or other
 keyword (given as a string)</xs:documentation>
              <xs:documentation xml:lang="en">May apply to either Projects and Items</
xs:documentation>
              <xs:documentation xml:lang="en">Derived from the DataCite definitions for Subject
 (v4.6+)</xs:documentation>
              <xs:documentation>https://datacite-metadata-schema.readthedocs.io/en/4.6/properties/
subject/</xs:documentation>
            </xs:annotation>
            <xs:complexType>
              <xs:simpleContent>
                <xs:extension base="shortTextType">
                  <xs:attribute name="subjectSchema" type="titleLimitType" use="optional">
                    <xs:annotation>
                      <xs:documentation xml:lang="en">The name of the subject schema or
 classification code or authority, if applicable</xs:documentation>
                    </xs:annotation>
                  </xs:attribute>
                  <xs:attribute name="subjectSchemaURI" type="xs:anyURI" use="optional">
                    <xs:annotation>
                      <xs:documentation xml:lang="en">The URI of the subject identifier schema, if
 applicable</xs:documentation>
                    </xs:annotation>
                  </xs:attribute>
                  <xs:attribute name="valueURI" type="xs:anyURI" use="optional">
                    <xs:annotation>
                      <xs:documentation xml:lang="en">The URI of the subject term, if applicable</
xs:documentation>
                    </xs:annotation>
                  </xs:attribute>
                  <xs:attribute name="classificationCode" type="shortAttributeType" use="optional">
                    <xs:annotation>
                      <xs:documentation xml:lang="en">The classification code used for the subject
 term in the subject schema, if applicable</xs:documentation>
                    </xs:annotation>
                  </xs:attribute>
                  <xs:attribute ref="inherited" default="true"/>
                </xs:extension>
              </xs:simpleContent>
```

```
            </xs:complexType>
          </xs:element>
        </xs:sequence>
        <xs:attribute ref="discoverable" fixed="true"/>
        <xs:attribute ref="trackingLevel" fixed="ResourceRecord"/>
      </xs:complexType>
    </xs:element>
    <xs:element name="relations" minOccurs="0" maxOccurs="1">
      <xs:annotation>
        <xs:documentation xml:lang="en">The container element for all relations for a resource</
xs:documentation>
        <xs:documentation xml:lang="en">May apply to either Projects or Items</xs:documentation>
        <xs:documentation xml:lang="en">If this element is present, then it should contain at least
 one sub-element</xs:documentation>
      </xs:annotation>
      <xs:complexType>
        <xs:sequence>
          <xs:element name="relation" minOccurs="1" maxOccurs="100">
            <xs:annotation>
              <xs:documentation xml:lang="en">Specifies a related TigerData project or item, a
 published paper, or any other digital object, given as a string</xs:documentation>
              <xs:documentation xml:lang="en">May apply to either Projects or Items</
xs:documentation>
              <xs:documentation xml:lang="en">Derived from the DataCite definitions for
 RelatedIdentifier (v4.6+)</xs:documentation>
              <xs:documentation>https://datacite-metadata-schema.readthedocs.io/en/4.6/properties/
relatedidentifier/</xs:documentation>
            </xs:annotation>
            <xs:complexType>
              <xs:simpleContent>
                <xs:extension base="titleLimitType">
                  <xs:attribute name="relatedIDType" type="relatedIDTypeType" default="DOI"/>
                  <xs:attribute name="relationType" type="relationTypeType" use="required"/>
                  <xs:attribute name="relatedMetadataSchema" type="titleLimitType" use="optional">
                    <xs:annotation>
                      <xs:documentation xml:lang="en">The name of the related metadata schema, if
 applicable</xs:documentation>
                      <xs:documentation xml:lang="en">Use only with HasMetadata and IsMetadataFor
 relation types</xs:documentation>
                    </xs:annotation>
                  </xs:attribute>
                  <xs:attribute name="relatedMetadataSchemaURI" type="xs:anyURI" use="optional">
                    <xs:annotation>
                      <xs:documentation xml:lang="en">The URI of the related metadata schema, if
 applicable</xs:documentation>
                      <xs:documentation xml:lang="en">Use only with HasMetadata and IsMetadataFor
 relation types</xs:documentation>
                    </xs:annotation>
                  </xs:attribute>
                  <xs:attribute name="relatedMetadataSchemaType" type="shortAttributeType"
 use="optional">
                    <xs:annotation>
                      <xs:documentation xml:lang="en">The type of the related metadata schema, if
 applicable (e.g. XSD, DDT, Turtle)</xs:documentation>
                      <xs:documentation xml:lang="en">Use only with HasMetadata and IsMetadataFor
 relation types</xs:documentation>
                    </xs:annotation>
                  </xs:attribute>
                  <xs:attribute ref="resourceTypeGeneral" use="optional"/>
                  <xs:attribute ref="inherited" default="false"/>
                </xs:extension>
              </xs:simpleContent>
            </xs:complexType>
          </xs:element>
        </xs:sequence>
        <xs:attribute ref="discoverable" fixed="true"/>
        <xs:attribute ref="trackingLevel" fixed="ResourceRecord"/>
      </xs:complexType>
    </xs:element>
    <xs:element name="extendedMetadataSchemas" minOccurs="0" maxOccurs="1">
      <xs:annotation>
        <xs:documentation xml:lang="en">The container element for all extended metadata schemas for
 a resource, if applicable</xs:documentation>
        <xs:documentation xml:lang="en">May apply to either Projects or Items</xs:documentation>
        <xs:documentation xml:lang="en">If this element is present, then it should contain at least
 one sub-element</xs:documentation>
      </xs:annotation>
      <xs:complexType>
        <xs:sequence>
          <xs:element name="extendedMetadataSchema" minOccurs="1" maxOccurs="10">
            <xs:annotation>
              <xs:documentation xml:lang="en">An indication of which TigerData supported metadata
 schemas should apply to a resource (given as a string)</xs:documentation>
```

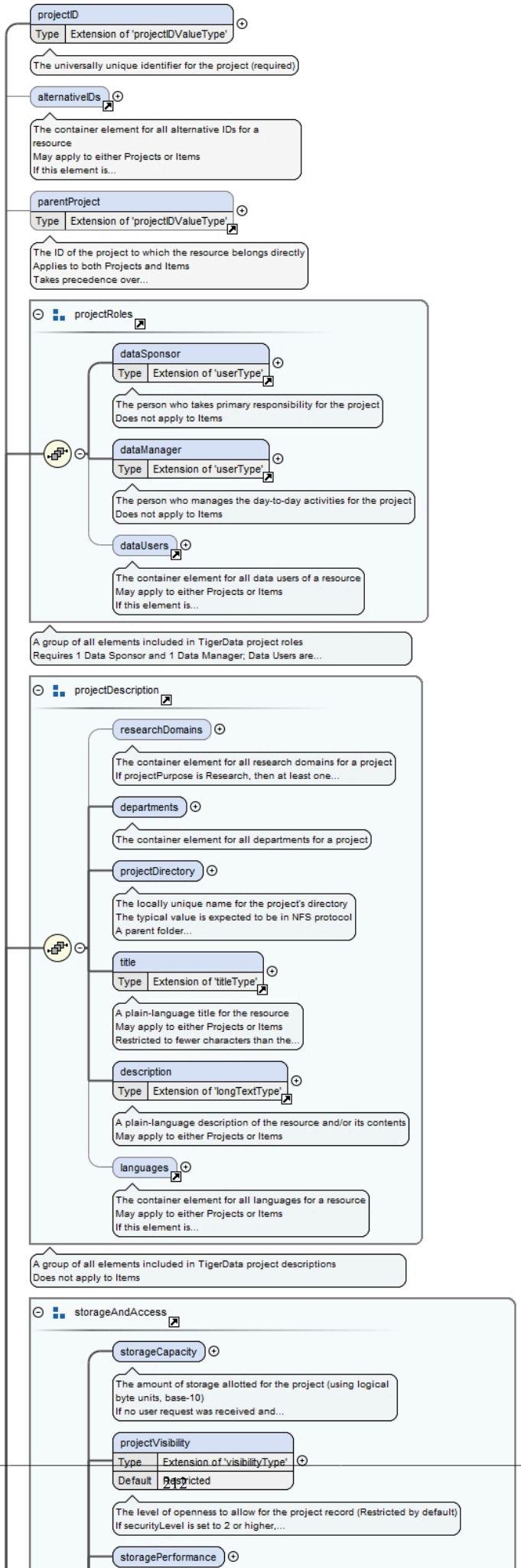
```
              <xs:documentation xml:lang="en">May apply to either Projects or Items</
xs:documentation>
            </xs:annotation>
            <xs:complexType>
              <xs:simpleContent>
                <xs:extension base="titleType">
                  <xs:attribute ref="inherited" default="false"/>
                </xs:extension>
              </xs:simpleContent>
            </xs:complexType>
          </xs:element>
        </xs:sequence>
        <xs:attribute ref="discoverable" fixed="false"/>
        <xs:attribute ref="trackingLevel" fixed="InternalUseOnly"/>
      </xs:complexType>
    </xs:element>
  </xs:sequence>
</xs:group>
```

Element Group `projectFields`

Namespace	No namespace

Annotations	`A group of all elements/groups included in the TigerData standard metadata for projects`
	
	`Does not apply to Items`

Diagram


projectID
Type Extension of 'projectIDValueType'
The universally unique identifier for the project (required)
alternativeIDs
The container element for all alternative IDs for a resource
May apply to either Projects or Items
If this element is...
parentProject
Type Extension of 'projectIDValueType'
The ID of the project to which the resource belongs directly
Applies to both Projects and Items
Takes precedence over...
projectRoles
dataSponsor
Type Extension of 'userType'
The person who takes primary responsibility for the project
Does not apply to Items
dataManager
Type Extension of 'userType'
The person who manages the day-to-day activities for the project
Does not apply to Items
dataUsers
The container element for all data users of a resource
May apply to either Projects or Items
If this element is...
A group of all elements included in TigerData project roles
Requires 1 Data Sponsor and 1 Data Manager; Data Users are...
projectDescription
researchDomains
The container element for all research domains for a project
If projectPurpose is Research, then at least one...
departments
The container element for all departments for a project
projectDirectory
The locally unique name for the project's directory
The typical value is expected to be in NFS protocol
A parent folder...
title
Type Extension of 'titleType'
A plain-language title for the resource
May apply to either Projects or Items
Restricted to fewer characters than the...
description
Type Extension of 'longTextType'
A plain-language description of the resource and/or its contents
May apply to either Projects or Items
languages
The container element for all languages for a resource
May apply to either Projects or Items
If this element is...
A group of all elements included in TigerData project descriptions
Does not apply to Items
storageAndAccess
storageCapacity
The amount of storage allotted for the project (using logical
byte units, base-10)
If no user request was received and...
projectVisibility
Type Extension of 'visibilityType'
Default Restricted
The level of openness to allow for the project record (Restricted by default)
If securityLevel is set to 2 or higher,...
storagePerformance

Used by	Element resource
Model	projectID , alternativeIDs{0,1} , parentProject{0,1} , dataSponsor , dataManager , dataUsers{0,1} , researchDomains{0,1} , departments , projectDirectory , title , description , languages{0,1} , storageCapacity , projectVisibility , storagePerformance , numberOfFiles , securityLevel{0,1} , storageSystem{0,1} , accessPoints{0,1} , projectPurpose , provisionalProject , funded{0,1} , fundingReferences{0,1} , projectDates{0,1} , projectResourceType , licenses{0,1} , dataUseAgreement{0,1} , duaReferences{0,1} , keywords{0,1} , relations{0,1} , extendedMetadataSchemas{0,1} , projectProvenance
Children	accessPoints, alternativeIDs, dataManager, dataSponsor, dataUseAgreement, dataUsers, departments, description, duaReferences, extendedMetadataSchemas, funded, fundingReferences, keywords, languages, licenses, numberOfFiles, parentProject, projectDates, projectDirectory, projectID, projectProvenance, projectPurpose, projectResourceType, projectVisibility, provisionalProject, relations, researchDomains, securityLevel, storageCapacity, storagePerformance, storageSystem, title

Source

```
<xs:group name="projectFields">
  <xs:annotation>
    <xs:documentation xml:lang="en">A group of all elements/groups included in the TigerData
 standard metadata for projects</xs:documentation>
    <xs:documentation xml:lang="en">Does not apply to Items</xs:documentation>
  </xs:annotation>
  <xs:sequence>
    <xs:element name="projectID" minOccurs="1" maxOccurs="1">
      <xs:annotation>
        <xs:documentation xml:lang="en">The universally unique identifier for the project
 (required)</xs:documentation>
      </xs:annotation>
      <xs:complexType>
        <xs:simpleContent>
          <xs:extension base="projectIDValueType">
            <xs:attribute ref="inherited" fixed="false"/>
            <xs:attribute ref="discoverable" fixed="true"/>
            <xs:attribute ref="trackingLevel" fixed="ResourceRecord"/>
          </xs:extension>
        </xs:simpleContent>
      </xs:complexType>
    </xs:element>
    <xs:element ref="alternativeIDs" minOccurs="0" maxOccurs="1"/>
    <xs:element ref="parentProject" minOccurs="0" maxOccurs="1"/>
    <xs:group ref="projectRoles"/>
    <xs:group ref="projectDescription"/>
    <xs:group ref="storageAndAccess"/>
    <xs:group ref="additionalProjectInformation"/>
    <xs:group ref="supplementalMetadata"/>
    <xs:element name="projectProvenance" minOccurs="1" maxOccurs="1">
      <xs:annotation>
        <xs:documentation xml:lang="en">The container element for all TigerData project provenance
 fields (required)</xs:documentation>
      </xs:annotation>
      <xs:complexType>
        <xs:sequence>
          <xs:element name="submission" minOccurs="1" maxOccurs="1">
            <xs:annotation>
              <xs:documentation xml:lang="en">A record of a project’s initial submission
 (required)</xs:documentation>
            </xs:annotation>
            <xs:complexType>
              <xs:group ref="provenanceSubfields"/>
              <xs:attribute ref="inherited" fixed="false"/>
              <xs:attribute ref="discoverable" fixed="false"/>
              <xs:attribute ref="trackingLevel" fixed="InternalUseOnly"/>
            </xs:complexType>
          </xs:element>
          <xs:element name="revisions" minOccurs="0" maxOccurs="1">
            <xs:annotation>
              <xs:documentation xml:lang="en">The container element for all revision records, if
 applicable</xs:documentation>
            </xs:annotation>
            <xs:complexType>
              <xs:sequence>
                <xs:element name="revision" minOccurs="1" maxOccurs="10">
                  <xs:annotation>
                    <xs:documentation xml:lang="en">A record of a major revision to an active
 project</xs:documentation>
                  </xs:annotation>
                  <xs:complexType>
                    <xs:group ref="provenanceSubfields"/>
                    <xs:attribute ref="inherited" default="false"/>
                  </xs:complexType>
                </xs:element>
              </xs:sequence>
              <xs:attribute ref="discoverable" fixed="false"/>
              <xs:attribute ref="trackingLevel" fixed="InternalUseOnly"/>
            </xs:complexType>
```

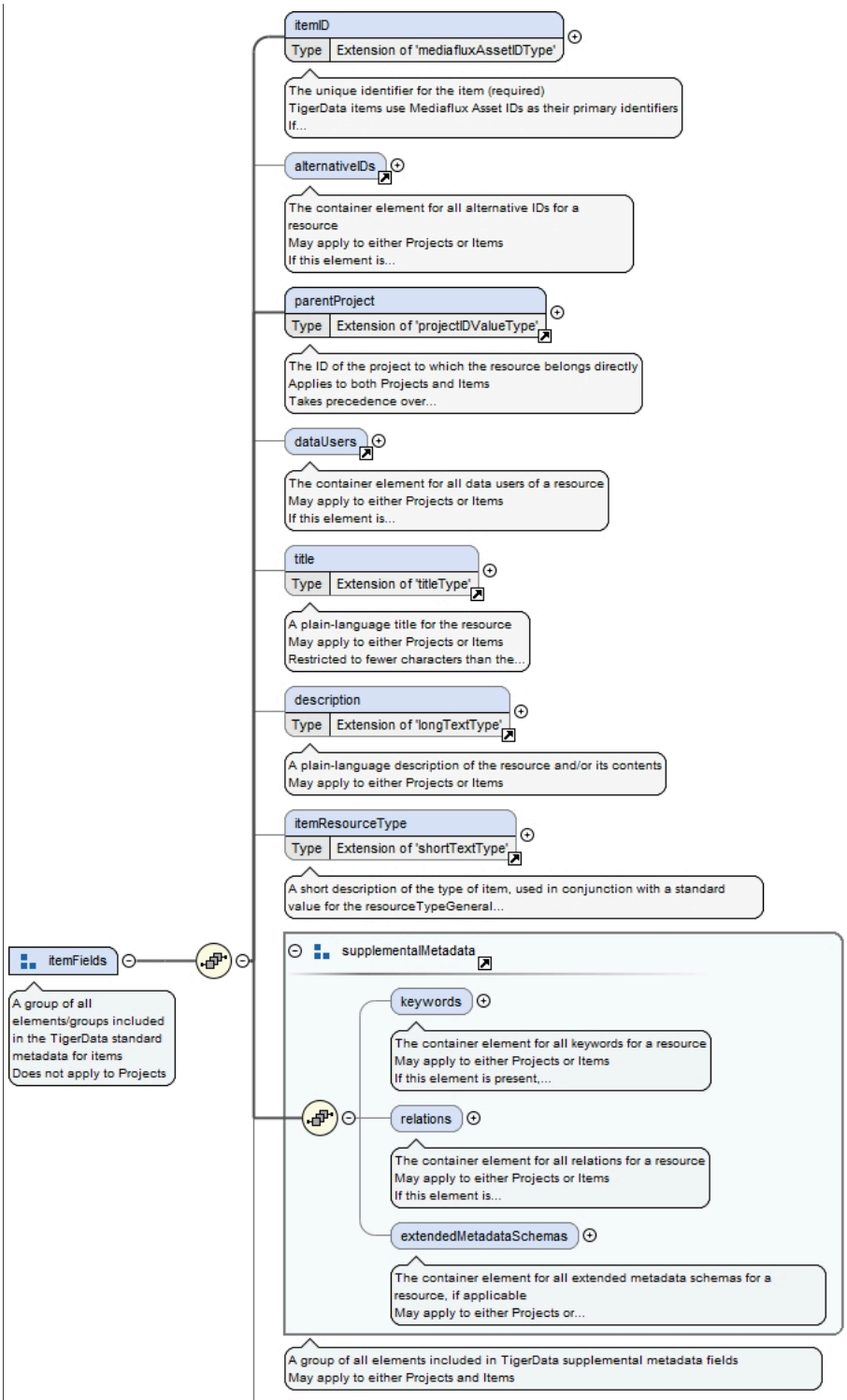
```
          </xs:element>
          <xs:element name="retirement" minOccurs="0" maxOccurs="1">
            <xs:annotation>
              <xs:documentation xml:lang="en">A record of a project’s retirement, if applicable</
xs:documentation>
            </xs:annotation>
            <xs:complexType>
              <xs:group ref="provenanceSubfields"/>
              <xs:attribute ref="inherited" fixed="true"/>
              <xs:attribute ref="discoverable" fixed="false"/>
              <xs:attribute ref="trackingLevel" fixed="InternalUseOnly"/>
            </xs:complexType>
          </xs:element>
          <xs:element name="publication" minOccurs="0" maxOccurs="1">
            <xs:annotation>
              <xs:documentation xml:lang="en">A record of a project’s publication, if applicable</
xs:documentation>
            </xs:annotation>
            <xs:complexType>
              <xs:group ref="provenanceSubfields"/>
              <xs:attribute ref="inherited" fixed="true"/>
              <xs:attribute ref="discoverable" fixed="false"/>
              <xs:attribute ref="trackingLevel" fixed="InternalUseOnly"/>
            </xs:complexType>
          </xs:element>
          <xs:element name="status" minOccurs="1" maxOccurs="1" default="AdminReview">
            <xs:annotation>
              <xs:documentation xml:lang="en">The current status of the project (required)</
xs:documentation>
            </xs:annotation>
            <xs:complexType>
              <xs:simpleContent>
                <xs:extension base="statusType">
                  <xs:attribute ref="inherited" default="false"/>
                  <xs:attribute ref="discoverable" fixed="true"/>
                  <xs:attribute ref="trackingLevel" fixed="InternalUseOnly"/>
                </xs:extension>
              </xs:simpleContent>
            </xs:complexType>
          </xs:element>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
  </xs:sequence>
</xs:group>
```

Element Group `itemFields`

Namespace	No namespace

Annotations	`A group of all elements/groups included in the TigerData standard metadata for items`
	
	`Does not apply to Projects`

Diagram


itemID
Type
Extension of 'mediafluxAssetIDType'
The unique identifier for the item (required)
TigerData items use Mediaflux Asset IDs as their primary identifiers
If...
alternativeIDs
The container element for all alternative IDs for a resource
May apply to either Projects or Items
If this element is...
parentProject
Type
Extension of 'projectIDValueType'
The ID of the project to which the resource belongs directly
Applies to both Projects and Items
Takes precedence over...
dataUsers
The container element for all data users of a resource
May apply to either Projects or Items
If this element is...
title
Type
Extension of 'titleType'
A plain-language title for the resource
May apply to either Projects or Items
Restricted to fewer characters than the...
description
Type
Extension of 'longTextType'
A plain-language description of the resource and/or its contents
May apply to either Projects or Items
itemResourceType
Type
Extension of 'shortTextType'
A short description of the type of item, used in conjunction with a standard value for the resourceTypeGeneral...
itemFields
A group of all elements/groups included in the TigerData standard metadata for items
Does not apply to Projects
supplementalMetadata
keywords
The container element for all keywords for a resource
May apply to either Projects or Items
If this element is present,...
relations
The container element for all relations for a resource
May apply to either Projects or Items
If this element is...
extendedMetadataSchemas
The container element for all extended metadata schemas for a resource, if applicable
May apply to either Projects or...
A group of all elements included in TigerData supplemental metadata fields
May apply to either Projects and Items
languages
The container element for all languages for a resource
May apply to either Projects or Items
If this element is...
licenses
The container element for all licenses for a resource
May apply to either Projects or Items
If this element is present,...
fundingReferences
The container element for all funding references for a resource
May apply to either Projects or Items
If this element...
duaReferences
The container element for all DUA references for a resource
DUA is short for Data Use Agreement
May apply to either...
itemDates

Used by	Element resource
Model	itemID , alternativeIDs{0,1} , parentProject , dataUsers{0,1} , title{0,1} , description{0,1} , itemResourceType{0,1} , keywords{0,1} , relations{0,1} , extendedMetadataSchemas{0,1} , languages{0,1} , licenses{0,1} , fundingReferences{0,1} , duaReferences{0,1} , itemDates{0,1}
Children	alternativeIDs, dataUsers, description, duaReferences, extendedMetadataSchemas, fundingReferences, itemDates, itemID, itemResourceType, keywords, languages, licenses, parentProject, relations, title
Source	<xs:group name="itemFields"> <xs:annotation> <xs:documentation xml:lang="en">A group of all elements/groups included in the TigerData standard metadata for items</xs:documentation> <xs:documentation xml:lang="en">Does not apply to Projects</xs:documentation> </xs:annotation> <xs:sequence> <xs:element name="itemID" minOccurs="1" maxOccurs="1"> <xs:annotation> <xs:documentation xml:lang="en">The unique identifier for the item (required)</xs:documentation> <xs:documentation xml:lang="en">TigerData items use Mediaflux Asset IDs as their primary identifiers</xs:documentation> <xs:documentation xml:lang="en">If an item also has any other IDs, they all should be included under alternativeIDs</xs:documentation> </xs:annotation> <xs:complexType> <xs:simpleContent> <xs:extension base="mediafluxAssetIDType"> <xs:attribute name="itemIDType" type="xs:string" fixed="MFAID"> <xs:annotation> <xs:documentation xml:lang="en">Makes explicit that itemID is always given as a Mediaflux Asset ID</xs:documentation> </xs:annotation> </xs:attribute> <xs:attribute ref="inherited" fixed="false"/> <xs:attribute ref="discoverable" fixed="false"/> <xs:attribute ref="trackingLevel" fixed="InternalUseOnly"/> </xs:extension> </xs:simpleContent> </xs:complexType> </xs:element> <xs:element ref="alternativeIDs" minOccurs="0" maxOccurs="1"/> <xs:element ref="parentProject" minOccurs="1" maxOccurs="1"/> <xs:element ref="dataUsers" minOccurs="0" maxOccurs="1"/> <xs:element ref="title" minOccurs="0" maxOccurs="1"/> <xs:element ref="description" minOccurs="0" maxOccurs="1"/> <xs:element ref="itemResourceType" minOccurs="0" maxOccurs="1"/> <xs:group ref="supplementalMetadata"/> <xs:element ref="languages" minOccurs="0" maxOccurs="1"/> <xs:element ref="licenses" minOccurs="0" maxOccurs="1"/> <xs:element ref="fundingReferences" minOccurs="0" maxOccurs="1"/> <xs:element ref="duaReferences" minOccurs="0" maxOccurs="1"/> <xs:element ref="itemDates" minOccurs="0" maxOccurs="1"/> </xs:sequence> </xs:group>

Namespace: "http://www.w3.org/XML/1998/namespace"

Schema(s)

Imported schema `xml.xsd`

Namespace	http://www.w3.org/XML/1998/namespace
Annotations	 <h1>About the XML namespace</h1> > This schema document describes the XML namespace, in a form suitable for import by other schema documents. See <a href="http://www.w3.org/XML/1998/namespace.html">http://www.w3.org/XML/1998/namespace.html</a>and <a href="http://www.w3.org/TR/REC-xml">http://www.w3.org/TR/REC-xml</a>for information about this namespace. Note that local names in this namespace are intended to be defined only by the World Wide Web Consortium or its subgroups. The names currently defined in this namespace are listed below. They should not be used with conflicting semantics by any Working Group, specification, or document instance. See further below in this document for more information about <a href="#usage">how to refer to this schema document from your own XSD schema documents</a>and about

```
      <a href="#nsversioning">the namespace-versioning policy governing this schema document</a>.</
p>
  </div>
</div>

<div>
  <h3>Father (in any context at all)</h3>
  <div class="bodytext">
    <p>denotes Jon Bosak, the chair of the original XML Working Group. This name is reserved by the
 following decision of the W3C XML Plenary and XML Coordination groups:</p>
    <blockquote>
      <p>In appreciation for his vision, leadership and dedication the W3C XML Plenary on this 10th
 day of February, 2000, reserves for Jon Bosak in perpetuity the XML name "xml:Father".</p>
    </blockquote>
  </div>
</div>

<div xml:id="usage" id="usage">
  <h2>
    <a name="usage">About this schema document</a>
  </h2>
  <div class="bodytext">
    <p>This schema defines attributes and an attribute group suitable for use by schemas wishing to
 allow
      <code>xml:base</code>,
      <code>xml:lang</code>,
      <code>xml:space</code>or
      <code>xml:id</code>attributes on elements they define.</p>
    <p>To enable this, such a schema must import this schema for the XML namespace, e.g. as
 follows:</p>
    <pre><schema . . .> . . . <import namespace="http://www.w3.org/XML/1998/namespace"
 schemaLocation="http://www.w3.org/2001/xml.xsd"/></pre>
    <p>or</p>
    <pre><import namespace="http://www.w3.org/XML/1998/namespace" schemaLocation="http://
www.w3.org/2009/01/xml.xsd"/></pre>
    <p>Subsequently, qualified reference to any of the attributes or the group defined below will
 have the desired effect, e.g.</p>
    <pre><type . . .> . . . <attributeGroup ref="xml:specialAttrs"/></pre>
    <p>will define a type which will schema-validate an instance element with any of those
 attributes.</p>
  </div>
</div>

<div id="nsversioning" xml:id="nsversioning">
  <h2>
    <a name="nsversioning">Versioning policy for this schema document</a>
  </h2>
  <div class="bodytext">
    <p>In keeping with the XML Schema WG's standard versioning policy, this schema document will
 persist at
      <a href="http://www.w3.org/2009/01/xml.xsd">http://www.w3.org/2009/01/xml.xsd</a>.</p>
    <p>At the date of issue it can also be found at
      <a href="http://www.w3.org/2001/xml.xsd">http://www.w3.org/2001/xml.xsd</a>.</p>
    <p>The schema document at that URI may however change in the future, in order to remain
 compatible with the latest version of XML Schema itself, or with the XML namespace itself. In other
 words, if the XML Schema or XML namespaces change, the version of this document at
      <a href="http://www.w3.org/2001/xml.xsd">http://www.w3.org/2001/xml.xsd</a>will change
 accordingly; the version at
      <a href="http://www.w3.org/2009/01/xml.xsd">http://www.w3.org/2009/01/xml.xsd</a>will not
 change.</p>
    <p>Previous dated (and unchanging) versions of this schema document are at:</p>
    <ul>
      <li>
        <a href="http://www.w3.org/2009/01/xml.xsd">http://www.w3.org/2009/01/xml.xsd</a>
      </li>
      <li>
        <a href="http://www.w3.org/2007/08/xml.xsd">http://www.w3.org/2007/08/xml.xsd</a>
      </li>
      <li>
        <a href="http://www.w3.org/2004/10/xml.xsd">http://www.w3.org/2004/10/xml.xsd</a>
      </li>
      <li>
        <a href="http://www.w3.org/2001/03/xml.xsd">http://www.w3.org/2001/03/xml.xsd</a>
      </li>
    </ul>
  </div>
</div>
```

Properties		
	attribute form default:	unqualified
	element form default:	unqualified

Attribute(s)

Attribute @xml:lang

Namespace	http://www.w3.org/XML/1998/namespace
Annotations	 <h3>lang (as an attribute name)</h3> denotes an attribute whose value is a language code for the natural language of the content of any element; its value is inherited. This name is reserved by virtue of its definition in the XML specification. <h4>Notes</h4> Attempting to install the relevant ISO 2- and 3-letter codes as the enumerated possible values is probably never going to be a realistic possibility. See BCP 47 at <a href="http://www.rfc-editor.org/rfc/bcp/bcp47.txt">http://www.rfc-editor.org/rfc/bcp/bcp47.txt</a>and the IANA language subtag registry at <a href="http://www.iana.org/assignments/language-subtag-registry">http://www.iana.org/assignments/language-subtag-registry</a>for further information. The union allows for the 'un-declaration' of xml:lang with the empty string.
Type	union of(xs:language, restriction of xs:string)
Properties	content: simple
Used by	Complex Types: longTextType, shortTextType, textType, titleType Attribute Group: xml:specialAttrs
Source	<xs:attribute name="lang">...</xs:attribute>

```
<xs:attribute name="lang">
  <xs:annotation>
    <xs:documentation>
      <div>
        <h3>lang (as an attribute name)</h3>
        <p>denotes an attribute whose value is a language code for the natural language of the
 content of any element; its value is inherited. This name is reserved by virtue of its definition
 in the XML specification.</p>
      </div>
      <div>
        <h4>Notes</h4>
        <p>Attempting to install the relevant ISO 2- and 3-letter codes as the enumerated possible
 values is probably never going to be a realistic possibility.</p>
        <p>See BCP 47 at
          <a href="http://www.rfc-editor.org/rfc/bcp/bcp47.txt">http://www.rfc-editor.org/rfc/bcp/
bcp47.txt</a>and the IANA language subtag registry at
          <a href="http://www.iana.org/assignments/language-subtag-registry">http://www.iana.org/
assignments/language-subtag-registry</a>for further information.</p>
        <p>The union allows for the 'un-declaration' of xml:lang with the empty string.</p>
      </div>
    </xs:documentation>
  </xs:annotation>
  <xs:simpleType>
    <xs:union memberTypes="xs:language">
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:enumeration value=""/>
        </xs:restriction>
      </xs:simpleType>
    </xs:union>
  </xs:simpleType>
</xs:attribute>
```

Attribute @xml:space

Namespace	http://www.w3.org/XML/1998/namespace
Annotations	 <h3>space (as an attribute name)</h3> denotes an attribute whose value is a keyword indicating what whitespace processing discipline is intended for the content of the element; its value is inherited. This name is reserved by virtue of its definition in the XML specification.
Type	restriction of xs:NCName
Properties	content: simple
Facets	enumeration: default

	enumeration	preserve
Used by	Attribute Group	xml:specialAttrs

Source

```
<xs:attribute name="space">
  <xs:annotation>
    <xs:documentation>
      <div>
        <h3>space (as an attribute name)</h3>
        <p>denotes an attribute whose value is a keyword indicating what whitespace processing
 discipline is intended for the content of the element; its value is inherited. This name is
 reserved by virtue of its definition in the XML specification.</p>
      </div>
    </xs:documentation>
  </xs:annotation>
  <xs:simpleType>
    <xs:restriction base="xs:NCName">
      <xs:enumeration value="default"/>
      <xs:enumeration value="preserve"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
```

Attribute @xml:base

Namespace	http://www.w3.org/XML/1998/namespace	

Annotations	
	  <h3>base (as an attribute name)</h3>
	  denotes an attribute whose value provides a URI to be used as the base for interpreting any
	 relative URIs in the scope of the element on which it appears; its value is inherited. This name is
	 reserved by virtue of its definition in the XML Base specification.
	  See
	  <a href="http://www.w3.org/TR/xmlbase/">http://www.w3.org/TR/xmlbase/</a>for information about
	 this attribute.	

Type	xs:anyURI	
Properties	content:	simple
Used by	Attribute Group	xml:specialAttrs

Source

```
<xs:attribute name="base" type="xs:anyURI">
  <xs:annotation>
    <xs:documentation>
      <div>
        <h3>base (as an attribute name)</h3>
        <p>denotes an attribute whose value provides a URI to be used as the base for interpreting
 any relative URIs in the scope of the element on which it appears; its value is inherited. This
 name is reserved by virtue of its definition in the XML Base specification.</p>
        <p>See
          <a href="http://www.w3.org/TR/xmlbase/">http://www.w3.org/TR/xmlbase/</a>for information
 about this attribute.</p>
      </div>
    </xs:documentation>
  </xs:annotation>
</xs:attribute>
```

Attribute @xml:id

Namespace	http://www.w3.org/XML/1998/namespace	

Annotations	
	  <h3>id (as an attribute name)</h3>
	  denotes an attribute whose value should be interpreted as if declared to be of type ID. This
	 name is reserved by virtue of its definition in the xml:id specification.
	  See
	  <a href="http://www.w3.org/TR/xml-id/">http://www.w3.org/TR/xml-id/</a>for information about
	 this attribute.	

Type	xs:ID	
Properties	content:	simple
Used by	Attribute Group	xml:specialAttrs

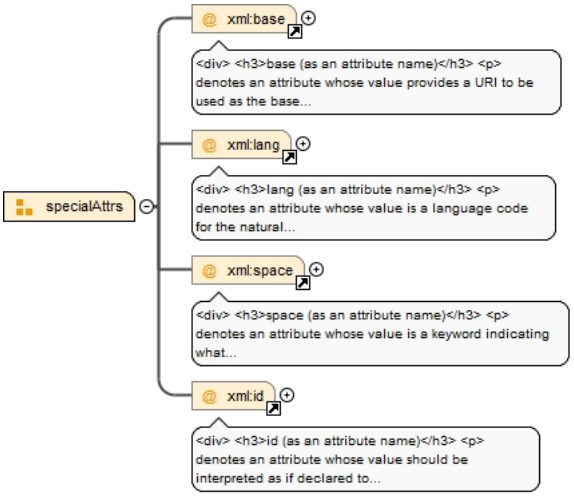
Source

```
<xs:attribute name="id" type="xs:ID">
  <xs:annotation>
    <xs:documentation>
      <div>
```

```
        <h3>id (as an attribute name)</h3>
        <p>denotes an attribute whose value should be interpreted as if declared to be of type ID.
 This name is reserved by virtue of its definition in the xml:id specification.</p>
        <p>See
          <a href="http://www.w3.org/TR/xml-id/">http://www.w3.org/TR/xml-id/</a>for information
 about this attribute.</p>
      </div>
    </xs:documentation>
  </xs:annotation>
</xs:attribute>
```

Attribute Group(s)

Attribute Group `xml:specialAttrs`

Namespace	http://www.w3.org/XML/1998/namespace
Diagram	

Attributes

QName	Type	Use	
xml:base	xs:anyURI	optional	

```
<div>
  <h3>base (as an attribute name)</h3>
  <p>denotes an attribute whose value provides a URI to be used as the
 base for interpreting any relative URIs in the scope of the element on
 which it appears; its value is inherited. This name is reserved by virtue
 of its definition in the XML Base specification.</p>
  <p>See
    <a href="http://www.w3.org/TR/xmlbase/">http://www.w3.org/TR/
xmlbase/</a>for information about this attribute.</p>
</div>
```

xml:id	xs:ID	optional	

```
<div>
  <h3>id (as an attribute name)</h3>
  <p>denotes an attribute whose value should be interpreted as if declared
 to be of type ID. This name is reserved by virtue of its definition in
 the xml:id specification.</p>
  <p>See
    <a href="http://www.w3.org/TR/xml-id/">http://www.w3.org/TR/xml-id/</
a>for information about this attribute.</p>
</div>
```

xml:lang	union of(xs:language, restriction of xs:string)	optional	

```
<div>
  <h3>lang (as an attribute name)</h3>
  <p>denotes an attribute whose value is a language code for the natural
 language of the content of any element; its value is inherited. This name
 is reserved by virtue of its definition in the XML specification.</p>
</div>
<div>
  <h4>Notes</h4>
  <p>Attempting to install the relevant ISO 2- and 3-letter codes as the
 enumerated possible values is probably never going to be a realistic
 possibility.</p>
  <p>See BCP 47 at
    <a href="http://www.rfc-editor.org/rfc/bcp/bcp47.txt">http://www.rfc-
editor.org/rfc/bcp/bcp47.txt</a>and the IANA language subtag registry at
```

	QName	Type	Use	
		<a href="http://www.iana.org/assignments/language-subtag-registry">http://www.iana.org/assignments/language-subtag-registry</a>for further information. The union allows for the 'un-declaration' of xml:lang with the empty string. 		
	xml:space	restriction of xs:NCName	optional	
		 <h3>space (as an attribute name)</h3> denotes an attribute whose value is a keyword indicating what whitespace processing discipline is intended for the content of the element; its value is inherited. This name is reserved by virtue of its definition in the XML specification. 		
Source	<xs:attributeGroup name="specialAttrs">\ <xs:attribute ref="xml:base"/> <xs:attribute ref="xml:lang"/> <xs:attribute ref="xml:space"/> <xs:attribute ref="xml:id"/> </xs:attributeGroup>			