

## Schema v101.xsd

schema location: [v101.xsd](#)  
attribute form default: **unqualified**  
element form default: **qualified**  
targetNamespace: <http://www.tdwg.org/schemas/tcs/1.01>

### Elements

[DataSet](#)

### Complex types

[AccordingToType](#)

[AgentNames](#)

[CanonicalAuthorship](#)

[CanonicalName](#)

[NameCitation](#)

[NomenclaturalNoteType](#)

[PlaceholderType](#)

[ReferenceType](#)

[RelationshipType](#)

[ScientificName](#)

[TaxonomicRank](#)

### Simple types

[NomenclaturalCodesEnum](#)

[NomenclaturalTypeStatusOfUnitsEnum](#)

[TaxonomicRankAboveSuperfamilyEnum](#)

[TaxonomicRankBelowSubspeciesEnum](#)

[TaxonomicRankCultivatedPlants](#)

[TaxonomicRankEnum](#)

[TaxonomicRankFamilyGroupEnum](#)

[TaxonomicRankFamilySubdivisionEnum](#)

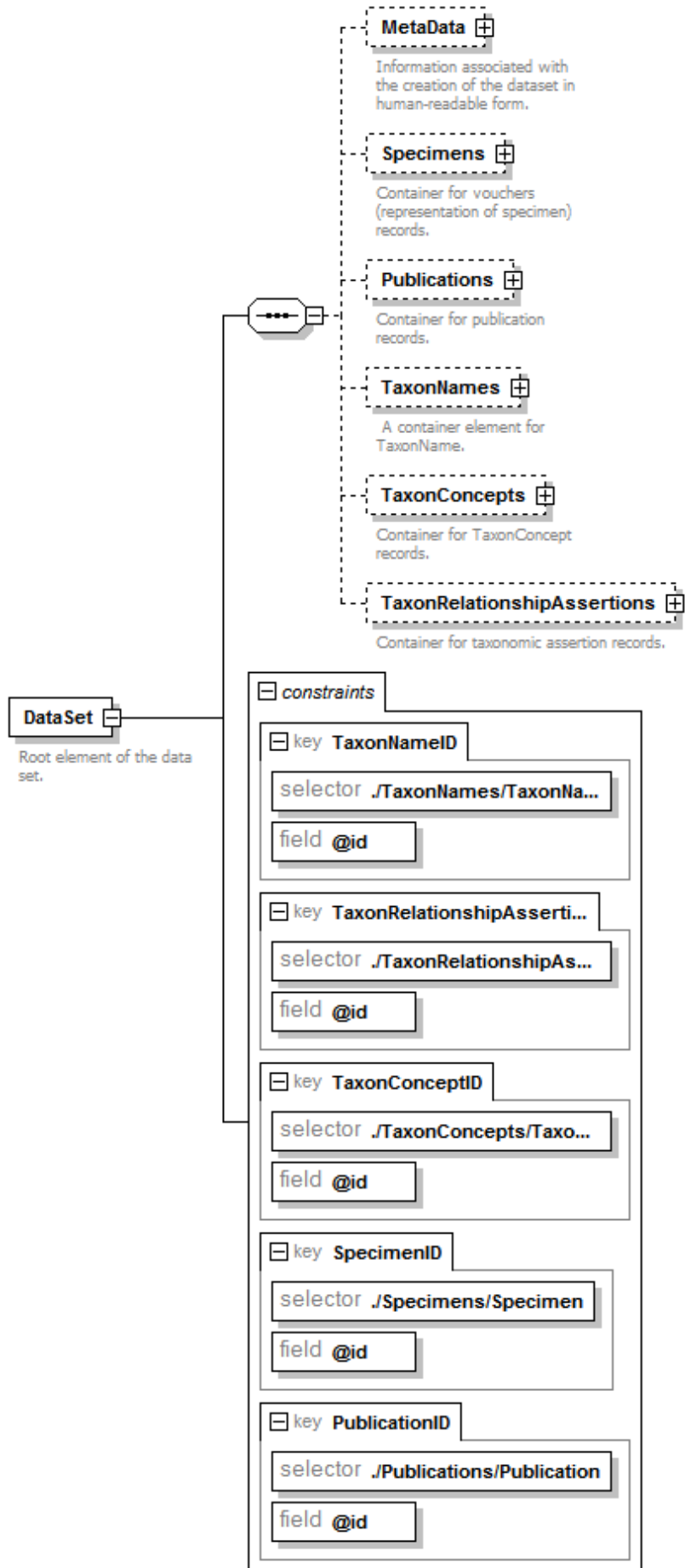
[TaxonomicRankGenusGroupEnum](#)

[TaxonomicRankGenusSubdivisionEnum](#)

[TaxonomicRankSpeciesGroupEnum](#)

element **DataSet**

diagram



namespace <http://www.tdwg.org/schemas/tcs/1.01>

properties content complex

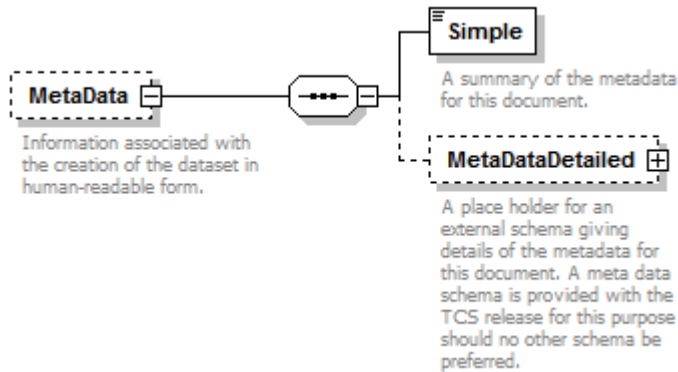
children [MetaData](#) [Specimens](#) [Publications](#) [TaxonNames](#) [TaxonConcepts](#) [TaxonRelationshipAssertions](#)

| identity | key | Name        | Refer | Selector          | Field(s) |
|----------|-----|-------------|-------|-------------------|----------|
|          |     | TaxonNameID |       | ./TaxonNames/Taxo | @id      |

| constraints | key | TaxonRelationshipAssertionID | nName                                                    | @id |
|-------------|-----|------------------------------|----------------------------------------------------------|-----|
|             | key | TaxonConceptID               | ./TaxonRelationshipAssertions/TaxonRelationshipAssertion | @id |
|             | key | SpecimenID                   | ./TaxonConcepts/TaxonConcept                             | @id |
|             | key | PublicationID                | ./Specimens/Specimen                                     | @id |
|             | key | PublicationID                | ./Publications/Publication                               | @id |

### element DataSet/MetaData

diagram



|            |                                                         |         |  |  |
|------------|---------------------------------------------------------|---------|--|--|
| namespace  | http://www.tdwg.org/schemas/tcs/1.01                    |         |  |  |
| properties | isRef                                                   | 0       |  |  |
|            | minOcc                                                  | 0       |  |  |
|            | maxOcc                                                  | 1       |  |  |
|            | content                                                 | complex |  |  |
| children   | <a href="#">Simple</a> <a href="#">MetaDataDetailed</a> |         |  |  |

### element DataSet/MetaData/Simple

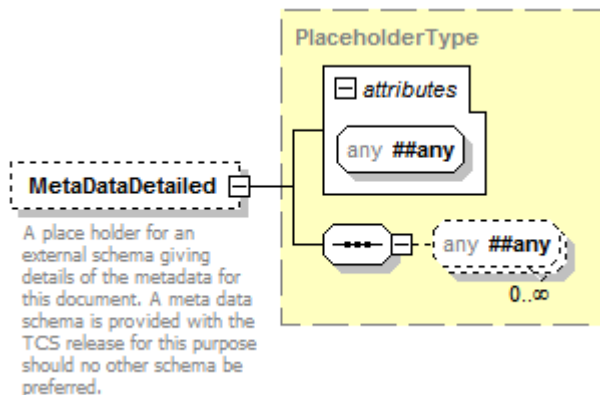
diagram



|            |                                      |        |  |  |
|------------|--------------------------------------|--------|--|--|
| namespace  | http://www.tdwg.org/schemas/tcs/1.01 |        |  |  |
| type       | <b>xs:string</b>                     |        |  |  |
| properties | isRef                                | 0      |  |  |
|            | content                              | simple |  |  |

### element DataSet/MetaData/MetaDataDetailed

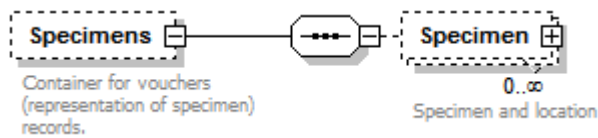
diagram



|            |                                      |         |     |         |
|------------|--------------------------------------|---------|-----|---------|
| namespace  | http://www.tdwg.org/schemas/tcs/1.01 |         |     |         |
| type       | <a href="#">PlaceholderType</a>      |         |     |         |
| properties | isRef                                | 0       |     |         |
|            | minOcc                               | 0       |     |         |
|            | maxOcc                               | 1       |     |         |
|            | content                              | complex |     |         |
| attributes | Name                                 | Type    | Use | Default |
|            |                                      |         |     | Fixed   |

## element DataSet/Specimens

diagram



namespace <http://www.tdwg.org/schemas/tcs/1.01>

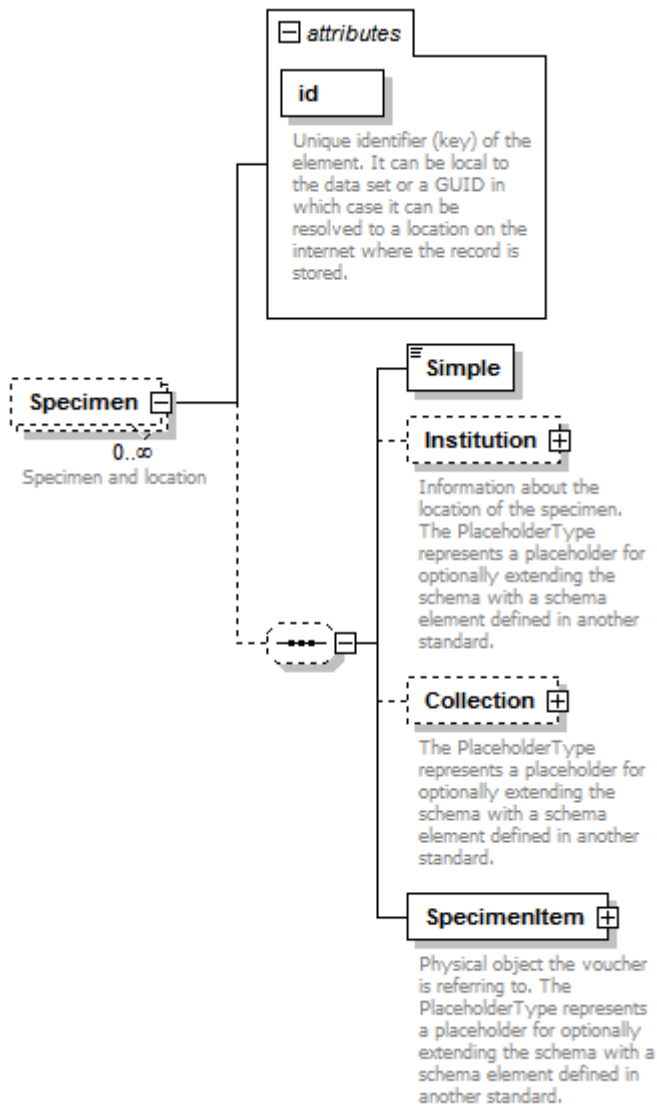
properties

|         |         |
|---------|---------|
| isRef   | 0       |
| minOcc  | 0       |
| maxOcc  | 1       |
| content | complex |

children [Specimen](#)

## element DataSet/Specimens/Specimen

diagram



namespace <http://www.tdwg.org/schemas/tcs/1.01>

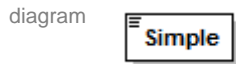
properties

|         |           |
|---------|-----------|
| isRef   | 0         |
| minOcc  | 0         |
| maxOcc  | unbounded |
| content | complex   |

children [Simple](#) [Institution](#) [Collection](#) [SpecimenItem](#)

| attributes | Name | Type     | Use      | Default | Fixed |
|------------|------|----------|----------|---------|-------|
|            | id   | xs:token | required |         |       |

### element DataSet/Specimens/Specimen/Simple

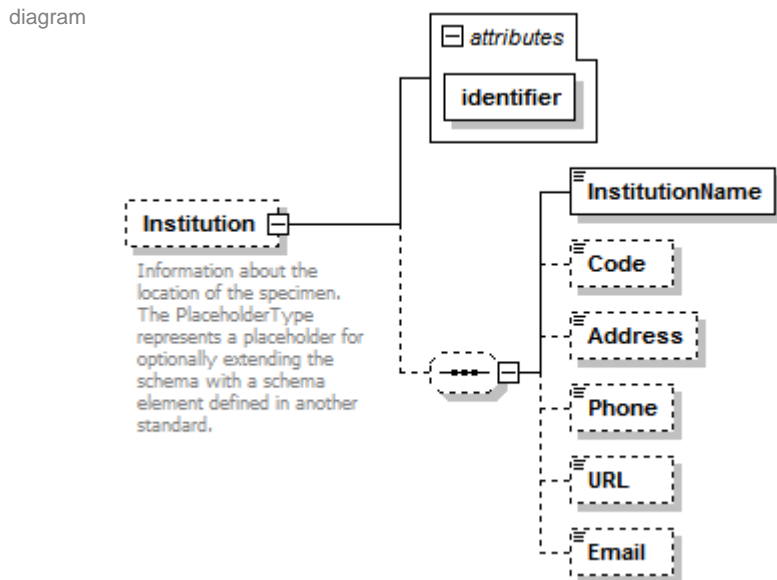


namespace <http://www.tdwg.org/schemas/tcs/1.01>

type **xs:string**

properties  
 isRef 0  
 content simple

### element DataSet/Specimens/Specimen/Institution



namespace <http://www.tdwg.org/schemas/tcs/1.01>

properties  
 isRef 0  
 minOcc 0  
 maxOcc 1  
 content complex

children [InstitutionName](#) [Code](#) [Address](#) [Phone](#) [URL](#) [Email](#)

| attributes | Name       | Type            | Use      | Default | Fixed |
|------------|------------|-----------------|----------|---------|-------|
|            | identifier | <b>xs:token</b> | required |         |       |

### element DataSet/Specimens/Specimen/Institution/InstitutionName

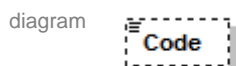


namespace <http://www.tdwg.org/schemas/tcs/1.01>

type **xs:string**

properties  
 isRef 0  
 content simple

### element DataSet/Specimens/Specimen/Institution/Code

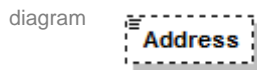


namespace <http://www.tdwg.org/schemas/tcs/1.01>

type **xs:string**

properties  
 isRef 0  
 minOcc 0  
 maxOcc 1  
 content simple

### element **DataSet/Specimens/Specimen/Institution/Address**



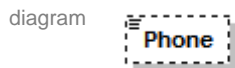
namespace <http://www.tdwg.org/schemas/tcs/1.01>

type **xs:string**

properties

|         |        |
|---------|--------|
| isRef   | 0      |
| minOcc  | 0      |
| maxOcc  | 1      |
| content | simple |

### element **DataSet/Specimens/Specimen/Institution/Phone**



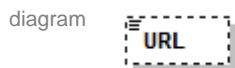
namespace <http://www.tdwg.org/schemas/tcs/1.01>

type **xs:string**

properties

|         |        |
|---------|--------|
| isRef   | 0      |
| minOcc  | 0      |
| maxOcc  | 1      |
| content | simple |

### element **DataSet/Specimens/Specimen/Institution/URL**



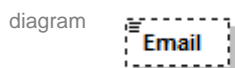
namespace <http://www.tdwg.org/schemas/tcs/1.01>

type **xs:string**

properties

|         |        |
|---------|--------|
| isRef   | 0      |
| minOcc  | 0      |
| maxOcc  | 1      |
| content | simple |

### element **DataSet/Specimens/Specimen/Institution/Email**



namespace <http://www.tdwg.org/schemas/tcs/1.01>

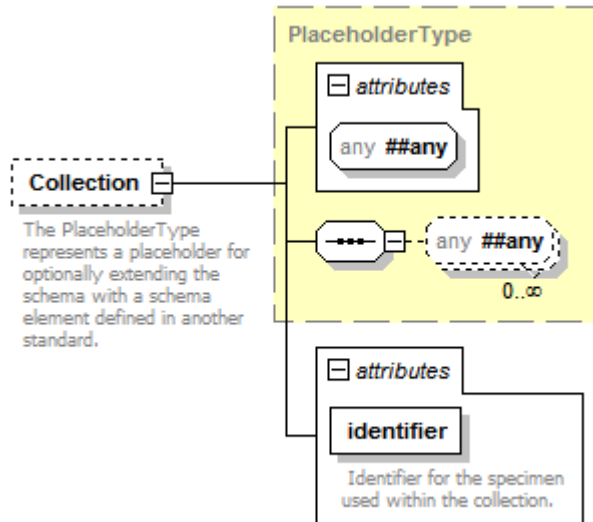
type **xs:string**

properties

|         |        |
|---------|--------|
| isRef   | 0      |
| minOcc  | 0      |
| maxOcc  | 1      |
| content | simple |

## element DataSet/Specimens/Specimen/Collection

diagram



namespace <http://www.tdwg.org/schemas/tcs/1.01>

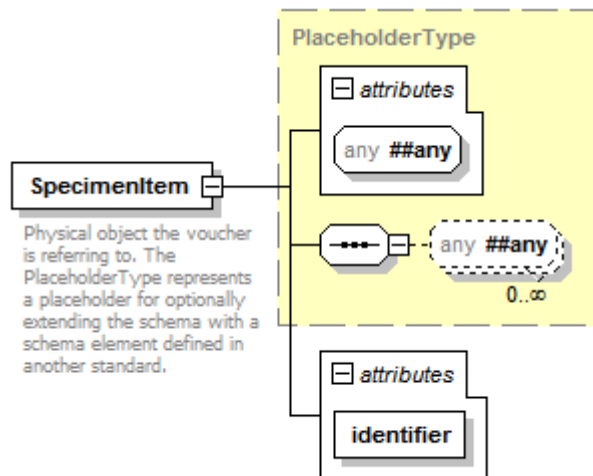
type extension of [PlaceholderType](#)

properties  
 isRef 0  
 minOcc 0  
 maxOcc 1  
 content complex

| attributes | Name       | Type     | Use      | Default | Fixed |
|------------|------------|----------|----------|---------|-------|
| identifier | identifier | xs:token | required |         |       |

## element DataSet/Specimens/Specimen/SpecimenItem

diagram



namespace <http://www.tdwg.org/schemas/tcs/1.01>

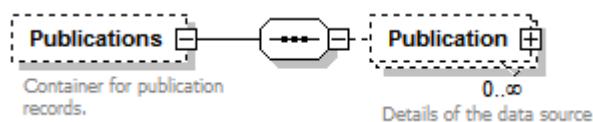
type extension of [PlaceholderType](#)

properties  
 isRef 0  
 content complex

| attributes | Name       | Type     | Use      | Default | Fixed |
|------------|------------|----------|----------|---------|-------|
| identifier | identifier | xs:token | required |         |       |

## element DataSet/Publications

diagram



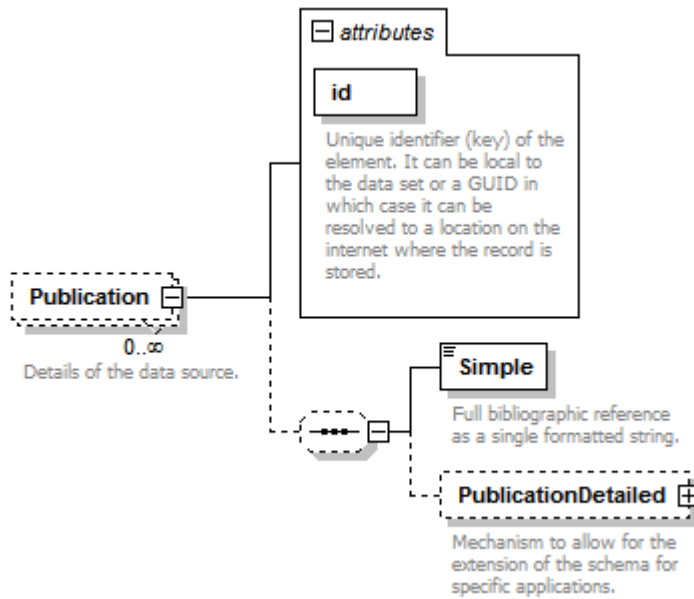
namespace <http://www.tdwg.org/schemas/tcs/1.01>

properties  
 isRef 0  
 minOcc 0  
 maxOcc 1

children content complex  
[Publication](#)

element **DataSet/Publications/Publication**

diagram



namespace <http://www.tdwg.org/schemas/tcs/1.01>

properties  
 isRef 0  
 minOcc 0  
 maxOcc unbounded  
 content complex

children [Simple](#) [PublicationDetailed](#)

| attributes | Name | Type     | Use      | Default | Fixed |
|------------|------|----------|----------|---------|-------|
|            | id   | xs:token | required |         |       |

element **DataSet/Publications/Publication/Simple**

diagram



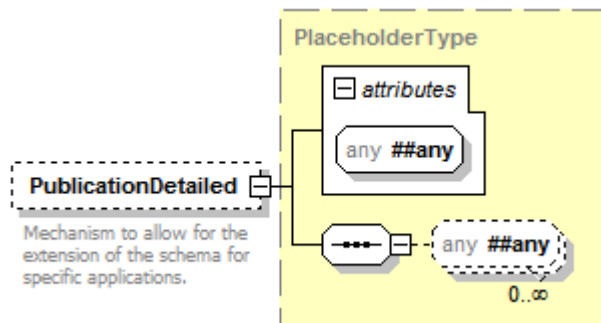
namespace <http://www.tdwg.org/schemas/tcs/1.01>

type **xs:string**

properties  
 isRef 0  
 content simple

element **DataSet/Publications/Publication/PublicationDetailed**

diagram



namespace <http://www.tdwg.org/schemas/tcs/1.01>

type [PlaceholderType](#)

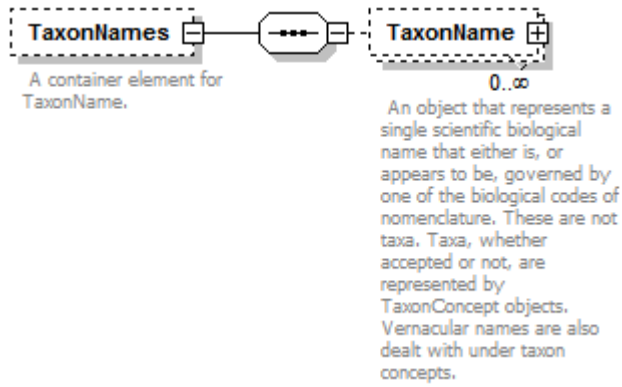
properties  
 isRef 0  
 minOcc 0  
 maxOcc 1  
 content complex

| attributes | Name | Type | Use | Default | Fixed |
|------------|------|------|-----|---------|-------|
|            |      |      |     |         |       |



## element DataSet/TaxonNames

diagram



namespace <http://www.tdwg.org/schemas/tcs/1.01>

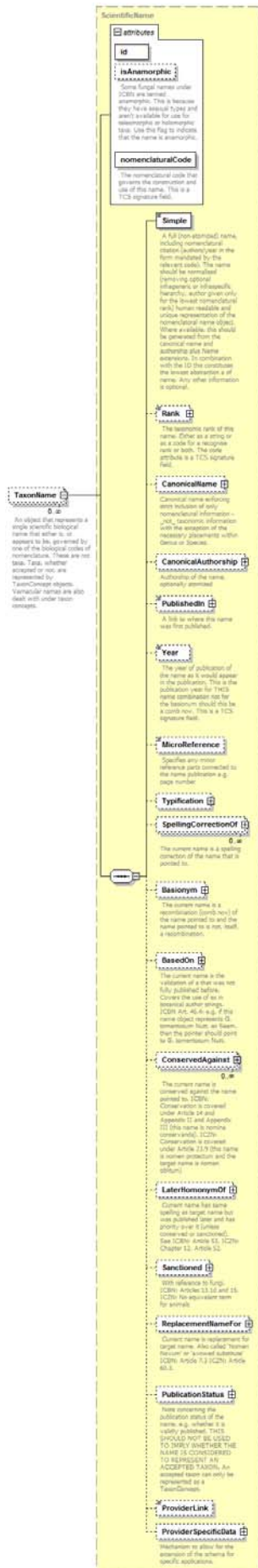
properties

|         |         |
|---------|---------|
| isRef   | 0       |
| minOcc  | 0       |
| maxOcc  | 1       |
| content | complex |

children [TaxonName](#)

# element DataSet/TaxonNames/TaxonName

diagram



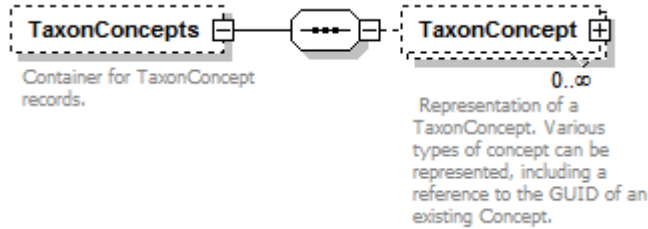
namespace <http://www.tdwg.org/schemas/tcs/1.01>

type [ScientificName](#)

|            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                        |          |         |       |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|----------|---------|-------|
| properties | isRef                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0                                      |          |         |       |
|            | minOcc                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0                                      |          |         |       |
|            | maxOcc                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | unbounded                              |          |         |       |
|            | content                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | complex                                |          |         |       |
| children   | <a href="#">Simple Rank</a> <a href="#">CanonicalName</a> <a href="#">CanonicalAuthorship</a> <a href="#">PublishedIn Year</a> <a href="#">MicroReference Typification</a> <a href="#">SpellingCorrectionOf Basionym</a> <a href="#">BasedOn</a> <a href="#">ConservedAgainst</a> <a href="#">LaterHomonymOf</a> <a href="#">Sanctioned</a> <a href="#">ReplacementNameFor</a> <a href="#">PublicationStatus</a> <a href="#">ProviderLink</a> <a href="#">ProviderSpecificData</a> |                                        |          |         |       |
| attributes | Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Type                                   | Use      | Default | Fixed |
|            | id                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>xs:NMTOKEN</b>                      | required |         |       |
|            | isAnamorphic                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>xs:boolean</b>                      | optional | false   |       |
|            | nomenclaturalCode                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <a href="#">NomenclaturalCodesEnum</a> | required |         |       |

element **DataSet/TaxonConcepts**

diagram



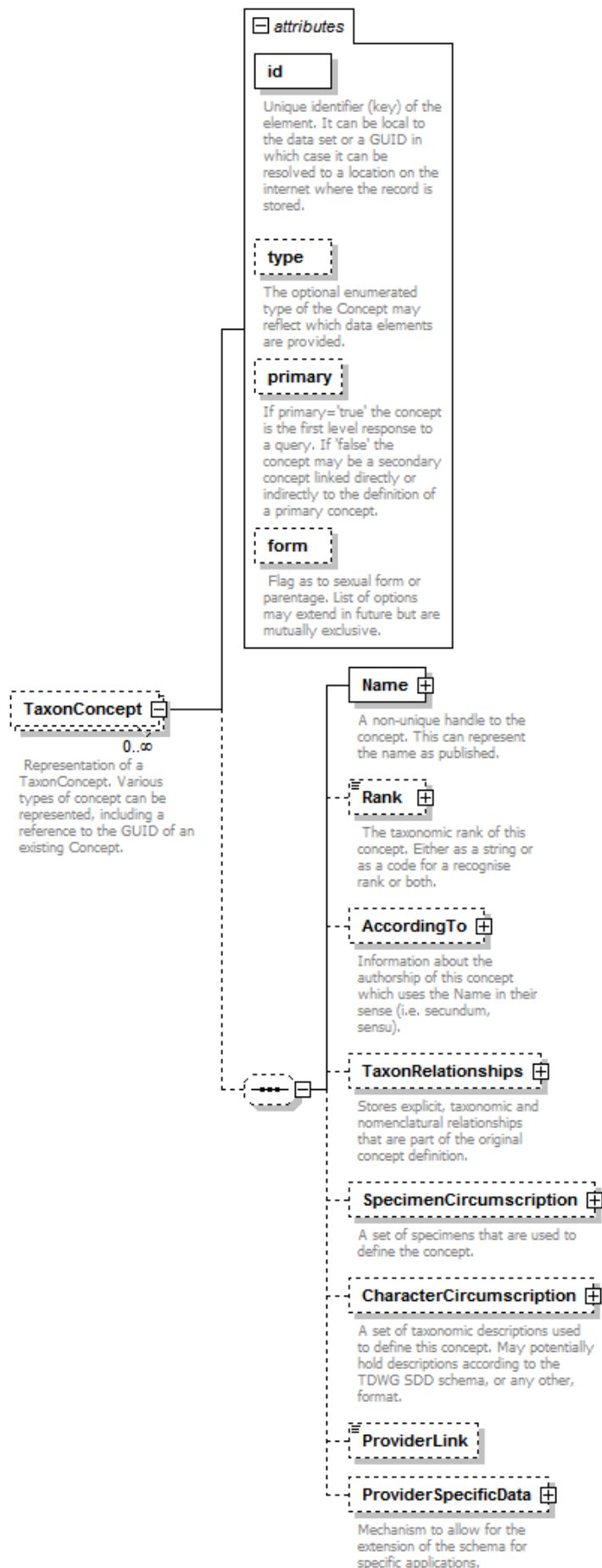
namespace <http://www.tdwg.org/schemas/tcs/1.01>

|            |         |         |
|------------|---------|---------|
| properties | isRef   | 0       |
|            | minOcc  | 0       |
|            | maxOcc  | 1       |
|            | content | complex |

children [TaxonConcept](#)

element **DataSet/TaxonConcepts/TaxonConcept**

diagram



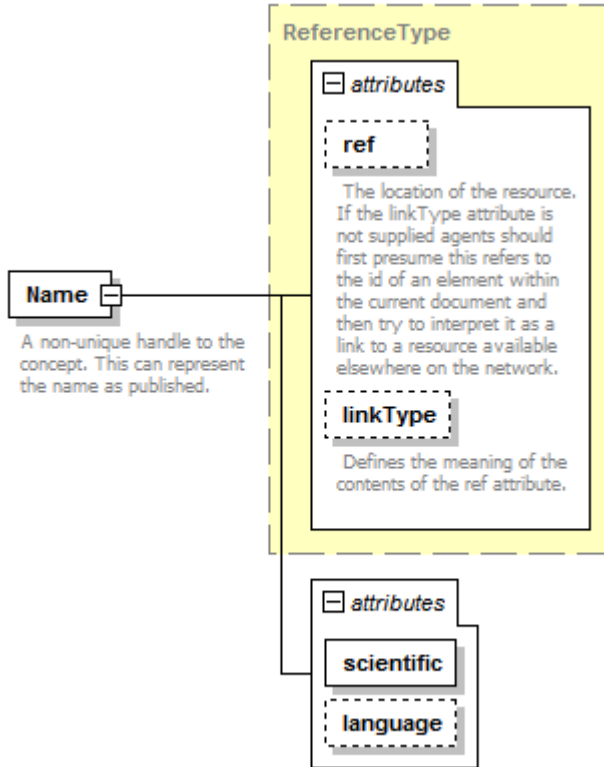
namespace <http://www.tdwg.org/schemas/tcs/1.01>

properties  
 isRef 0  
 minOcc 0  
 maxOcc unbounded

|            |                                                                                                                                                                                                                                                             |                                                             |                      |         |       |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|----------------------|---------|-------|
| children   | content mixed                                                                                                                                                                                                                                               | complex false                                               |                      |         |       |
|            | <a href="#">Name</a> <a href="#">Rank</a> <a href="#">AccordingTo</a> <a href="#">TaxonRelationships</a> <a href="#">SpecimenCircumscription</a> <a href="#">CharacterCircumscription</a> <a href="#">ProviderLink</a> <a href="#">ProviderSpecificData</a> |                                                             |                      |         |       |
| attributes | Name                                                                                                                                                                                                                                                        | Type                                                        | Use                  | Default | Fixed |
|            | id                                                                                                                                                                                                                                                          | <b>xs:token</b>                                             | required             |         |       |
|            | type                                                                                                                                                                                                                                                        | <b>derived by:</b><br><b>xs:string</b>                      | optional             |         |       |
|            | primary form                                                                                                                                                                                                                                                | <b>xs:boolean</b><br><b>derived by:</b><br><b>xs:string</b> | optional<br>optional |         |       |

### element **DataSet/TaxonConcepts/TaxonConcept/Name**

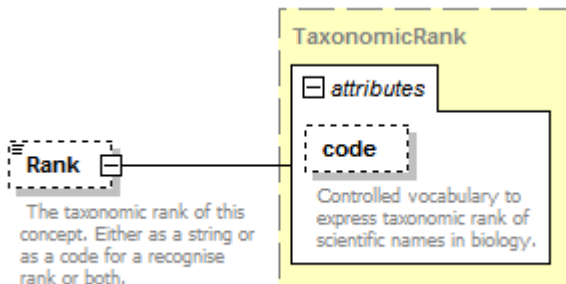
diagram



|            |                                            |                                        |          |         |       |
|------------|--------------------------------------------|----------------------------------------|----------|---------|-------|
| namespace  | http://www.tdwg.org/schemas/tcs/1.01       |                                        |          |         |       |
| type       | extension of <a href="#">ReferenceType</a> |                                        |          |         |       |
| properties | isRef                                      | 0                                      |          |         |       |
|            | content                                    | complex                                |          |         |       |
| attributes | Name                                       | Type                                   | Use      | Default | Fixed |
|            | ref                                        | <b>xs:token</b>                        | optional |         |       |
|            | linkType                                   | <b>derived by:</b><br><b>xs:string</b> | optional | local   |       |
|            | scientific                                 | <b>xs:boolean</b>                      | required |         |       |
|            | language                                   | <b>xs:language</b>                     | optional |         |       |

### element **DataSet/TaxonConcepts/TaxonConcept/Rank**

diagram

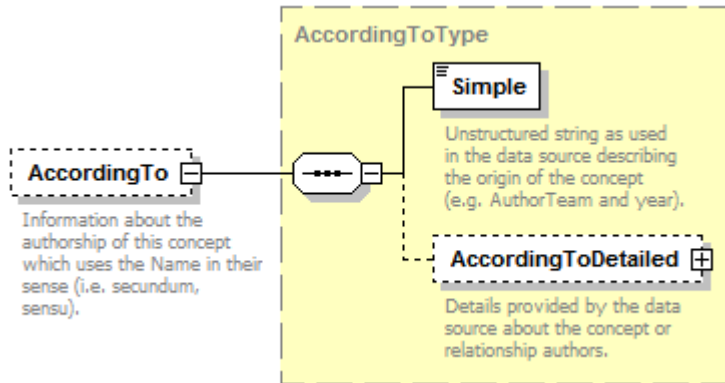


|            |                                      |   |  |  |  |
|------------|--------------------------------------|---|--|--|--|
| namespace  | http://www.tdwg.org/schemas/tcs/1.01 |   |  |  |  |
| type       | <a href="#">TaxonomicRank</a>        |   |  |  |  |
| properties | isRef                                | 0 |  |  |  |
|            | minOcc                               | 0 |  |  |  |
|            | maxOcc                               | 1 |  |  |  |

|            |               |              |                                   |              |         |       |
|------------|---------------|--------------|-----------------------------------|--------------|---------|-------|
| attributes | content mixed | complex true | Type                              | Use optional | Default | Fixed |
|            | Name code     |              | <a href="#">TaxonomicRankEnum</a> |              |         |       |

### element DataSet/TaxonConcepts/TaxonConcept/AccordingTo

diagram



namespace <http://www.tdwg.org/schemas/tcs/1.01>

type [AccordingToType](#)

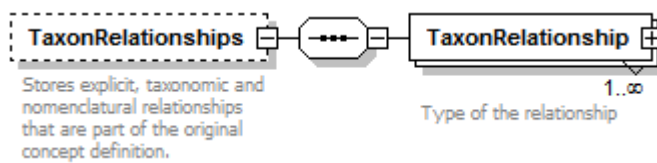
properties

|         |         |
|---------|---------|
| isRef   | 0       |
| minOcc  | 0       |
| maxOcc  | 1       |
| content | complex |

children [Simple](#) [AccordingToDetailed](#)

### element DataSet/TaxonConcepts/TaxonConcept/TaxonRelationships

diagram



namespace <http://www.tdwg.org/schemas/tcs/1.01>

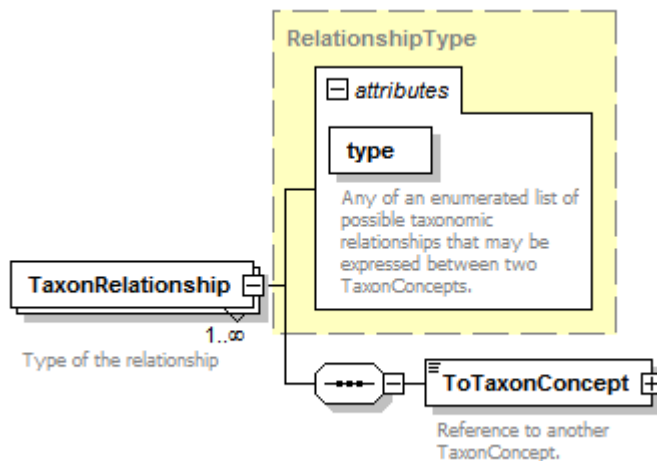
properties

|         |         |
|---------|---------|
| isRef   | 0       |
| minOcc  | 0       |
| maxOcc  | 1       |
| content | complex |

children [TaxonRelationship](#)

### element DataSet/TaxonConcepts/TaxonConcept/TaxonRelationships/TaxonRelationship

diagram



namespace <http://www.tdwg.org/schemas/tcs/1.01>

type extension of [RelationshipType](#)

properties

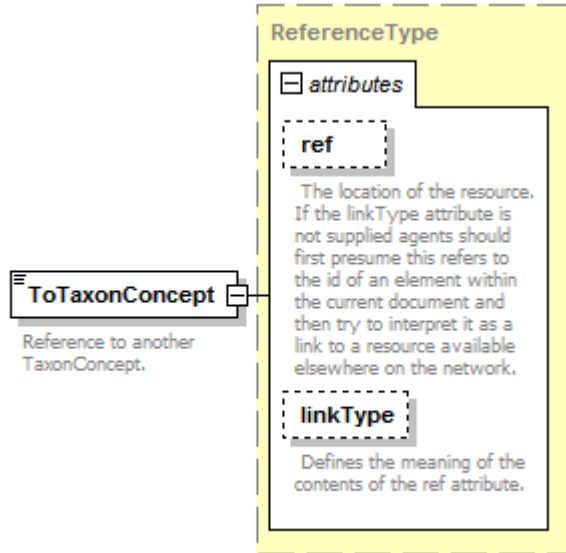
|        |   |
|--------|---|
| isRef  | 0 |
| minOcc | 1 |

|            |                                |                                                |                 |         |       |
|------------|--------------------------------|------------------------------------------------|-----------------|---------|-------|
| children   | <a href="#">ToTaxonConcept</a> |                                                |                 |         |       |
| attributes | Name<br>type                   | Type<br><b>derived by:</b><br><b>xs:string</b> | Use<br>required | Default | Fixed |

element

**DataSet/TaxonConcepts/TaxonConcept/TaxonRelationships/TaxonRelationship/ToTaxonConcept**

diagram



namespace <http://www.tdwg.org/schemas/tcs/1.01>

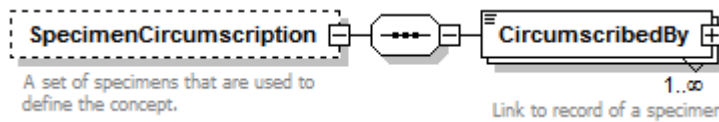
type [ReferenceType](#)

|            |         |         |
|------------|---------|---------|
| properties | isRef   | 0       |
|            | content | complex |
|            | mixed   | true    |

|            |          |                                        |          |         |       |
|------------|----------|----------------------------------------|----------|---------|-------|
| attributes | Name     | Type                                   | Use      | Default | Fixed |
|            | ref      | <b>xs:token</b>                        | optional |         |       |
|            | linkType | <b>derived by:</b><br><b>xs:string</b> | optional | local   |       |

element **DataSet/TaxonConcepts/TaxonConcept/SpecimenCircumscription**

diagram



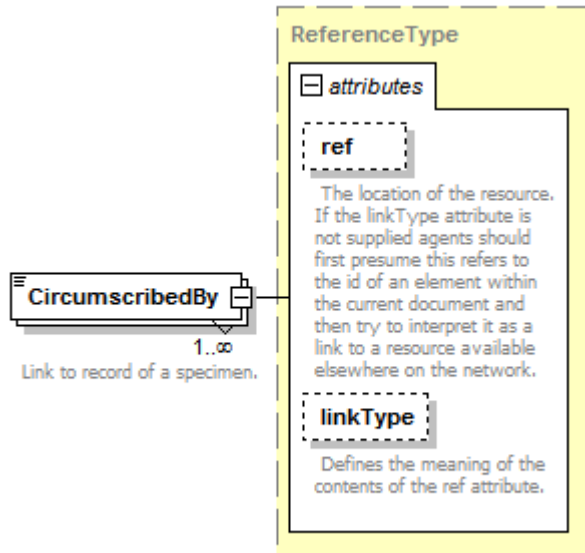
namespace <http://www.tdwg.org/schemas/tcs/1.01>

|            |         |         |
|------------|---------|---------|
| properties | isRef   | 0       |
|            | minOcc  | 0       |
|            | maxOcc  | 1       |
|            | content | complex |

children [CircumscribedBy](#)

element **DataSet/TaxonConcepts/TaxonConcept/SpecimenCircumscription/CircumscribedBy**

diagram



namespace <http://www.tdwg.org/schemas/tcs/1.01>

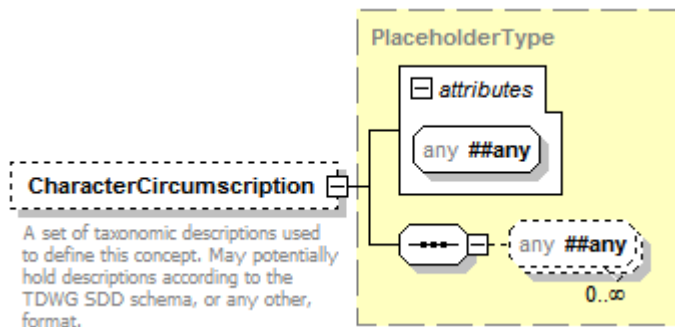
type [ReferenceType](#)

properties  
 isRef 0  
 minOcc 1  
 maxOcc unbounded  
 content complex  
 mixed true

| attributes | Name     | Type                                   | Use      | Default | Fixed |
|------------|----------|----------------------------------------|----------|---------|-------|
|            | ref      | <b>xs:token</b>                        | optional |         |       |
|            | linkType | <b>derived by:</b><br><b>xs:string</b> | optional | local   |       |

element **DataSet/TaxonConcepts/TaxonConcept/CharacterCircumscription**

diagram



namespace <http://www.tdwg.org/schemas/tcs/1.01>

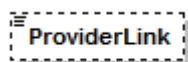
type [PlaceholderType](#)

properties  
 isRef 0  
 minOcc 0  
 maxOcc 1  
 content complex

| attributes | Name | Type | Use | Default | Fixed |
|------------|------|------|-----|---------|-------|
|            |      |      |     |         |       |

element **DataSet/TaxonConcepts/TaxonConcept/ProviderLink**

diagram



namespace <http://www.tdwg.org/schemas/tcs/1.01>

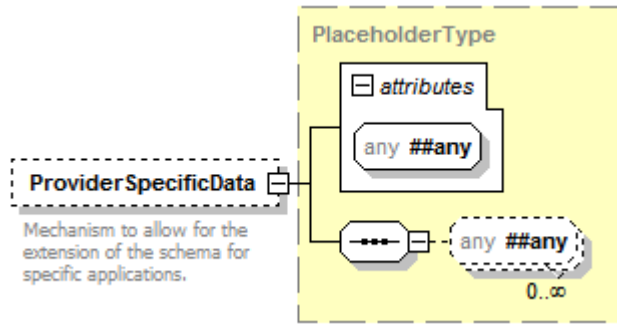
type **xs:string**

properties  
 isRef 0  
 minOcc 0  
 maxOcc 1  
 content simple



element **DataSet/TaxonConcepts/TaxonConcept/ProviderSpecificData**

diagram



namespace <http://www.tdwg.org/schemas/tcs/1.01>

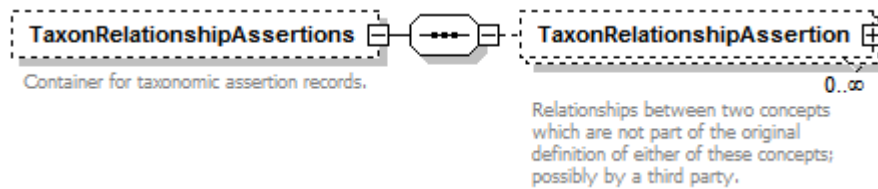
type [PlaceholderType](#)

properties  
 isRef 0  
 minOcc 0  
 maxOcc 1  
 content complex

| attributes | Name | Type | Use | Default | Fixed |
|------------|------|------|-----|---------|-------|
|------------|------|------|-----|---------|-------|

element **DataSet/TaxonRelationshipAssertions**

diagram



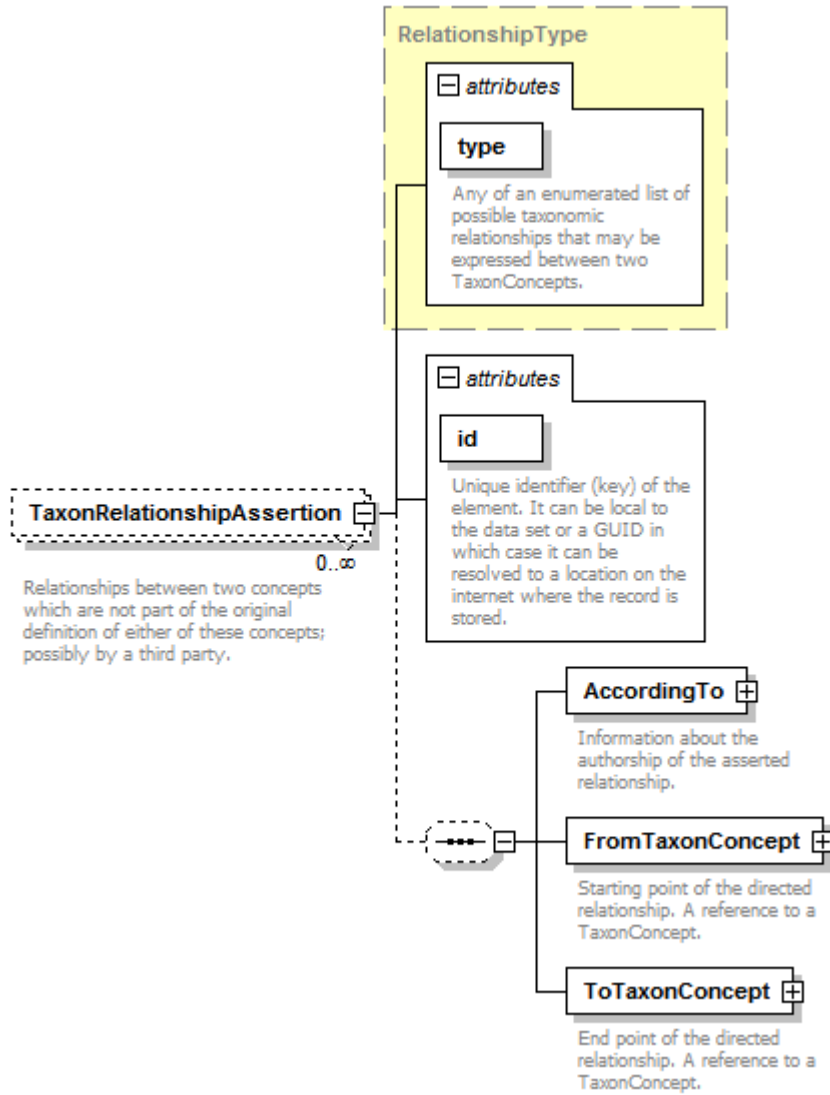
namespace <http://www.tdwg.org/schemas/tcs/1.01>

properties  
 isRef 0  
 minOcc 0  
 maxOcc 1  
 content complex

children [TaxonRelationshipAssertion](#)

element **DataSet/TaxonRelationshipAssertions/TaxonRelationshipAssertion**

diagram



namespace <http://www.tdwg.org/schemas/tcs/1.01>

type extension of [RelationshipType](#)

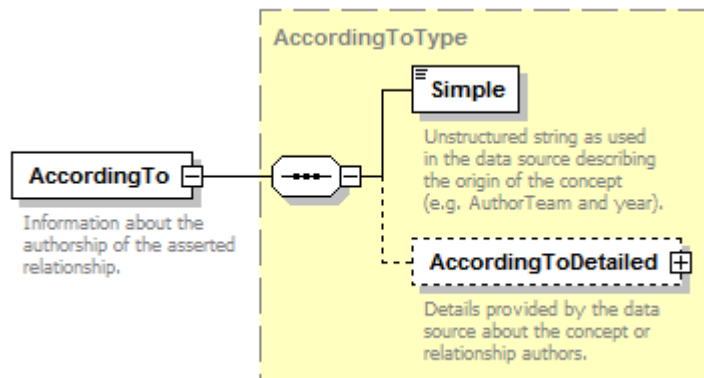
properties  
 isRef 0  
 minOcc 0  
 maxOcc unbounded  
 content complex

children [AccordingTo](#) [FromTaxonConcept](#) [ToTaxonConcept](#)

| attributes | Name | Type                     | Use      | Default | Fixed |
|------------|------|--------------------------|----------|---------|-------|
|            | type | derived by:<br>xs:string | required |         |       |
|            | id   | derived by:<br>xs:token  | required |         |       |

element **DataSet/TaxonRelationshipAssertions/TaxonRelationshipAssertion/AccordingTo**

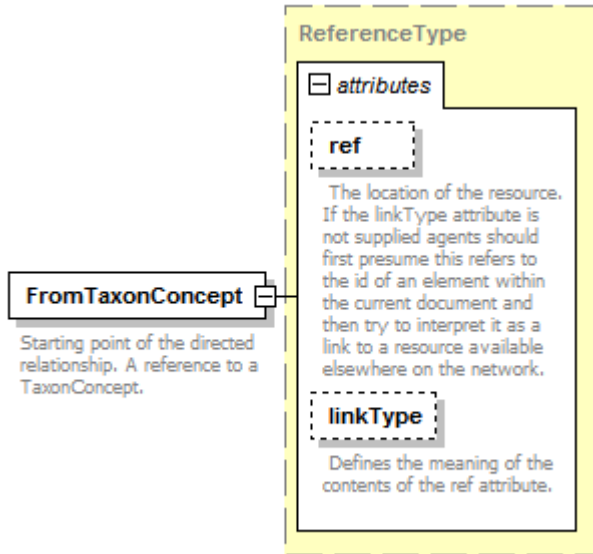
diagram



namespace <http://www.tdwg.org/schemas/tcs/1.01>  
 type [AccordingToType](#)  
 properties isRef 0  
 content complex  
 children [Simple](#) [AccordingToDetailed](#)

element **DataSet/TaxonRelationshipAssertions/TaxonRelationshipAssertion/FromTaxonConcept**

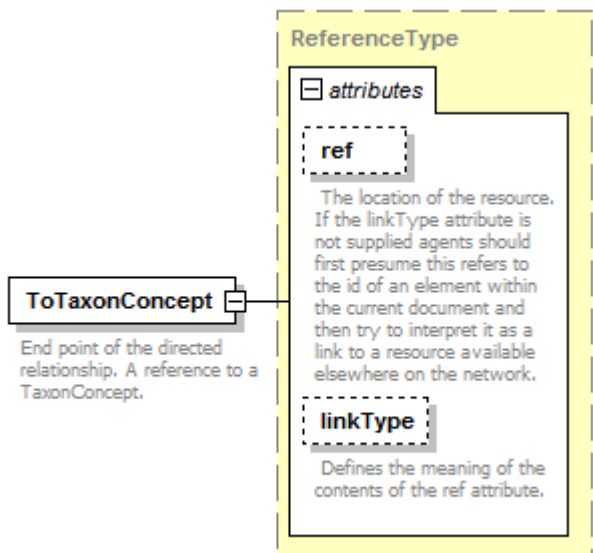
diagram



namespace <http://www.tdwg.org/schemas/tcs/1.01>  
 type extension of [ReferenceType](#)  
 properties isRef 0  
 content complex  
 attributes Name Type Use Default Fixed  
 ref **xs:token** optional local  
 linkType **derived by: xs:string** optional local

element **DataSet/TaxonRelationshipAssertions/TaxonRelationshipAssertion/ToTaxonConcept**

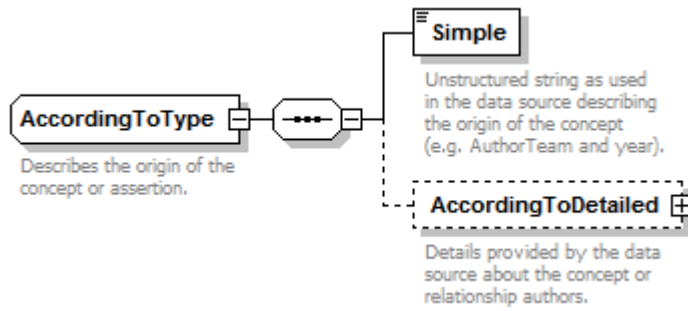
diagram



namespace <http://www.tdwg.org/schemas/tcs/1.01>  
 type extension of [ReferenceType](#)  
 properties isRef 0  
 content complex  
 attributes Name Type Use Default Fixed  
 ref **xs:token** optional local  
 linkType **derived by: xs:string** optional local

## complexType **AccordingToType**

diagram



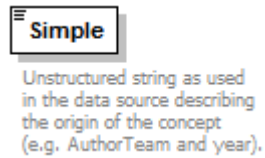
namespace <http://www.tdwg.org/schemas/tcs/1.01>

children [Simple](#) [AccordingToDetailed](#)

used by elements [DataSet/TaxonConcepts/TaxonConcept/AccordingTo](#)  
[DataSet/TaxonRelationshipAssertions/TaxonRelationshipAssertion/AccordingTo](#)

## element **AccordingToType/Simple**

diagram



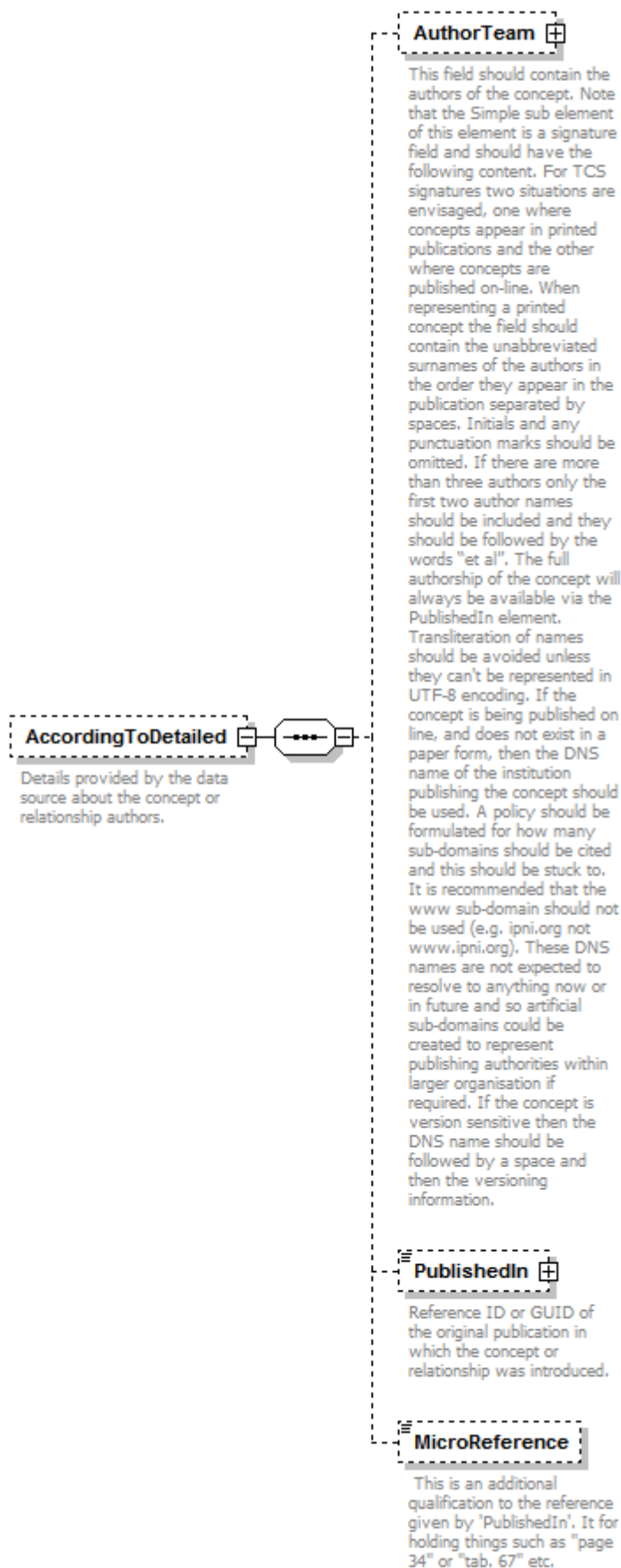
namespace <http://www.tdwg.org/schemas/tcs/1.01>

type **xs:string**

properties isRef 0  
content simple

## element AccordingToType/AccordingToDetailed

diagram



namespace <http://www.tdwg.org/schemas/tcs/1.01>

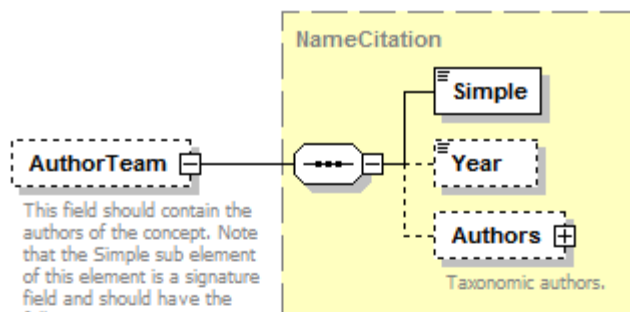
properties

|         |         |
|---------|---------|
| isRef   | 0       |
| minOcc  | 0       |
| maxOcc  | 1       |
| content | complex |

children [AuthorTeam](#) [PublishedIn](#) [MicroReference](#)

## element AccordingToType/AccordingToDetailed/AuthorTeam

diagram



This field should contain the authors of the concept. Note that the Simple sub element of this element is a signature field and should have the following content. For TCS signatures two situations are envisaged, one where concepts appear in printed publications and the other where concepts are published on-line. When representing a printed concept the field should contain the unabbreviated surnames of the authors in the order they appear in the publication separated by spaces. Initials and any punctuation marks should be omitted. If there are more than three authors only the first two author names should be included and they should be followed by the words "et al". The full authorship of the concept will always be available via the PublishedIn element. Transliteration of names should be avoided unless they can't be represented in UTF-8 encoding. If the concept is being published on line, and does not exist in a paper form, then the DNS name of the institution publishing the concept should be used. A policy should be formulated for how many sub-domains should be cited and this should be stuck to. It is recommended that the www sub-domain should not be used (e.g. ipni.org not www.ipni.org). These DNS names are not expected to resolve to anything now or in future and so artificial sub-domains could be created to represent publishing authorities within larger organisation if required. If the concept is version sensitive then the DNS name should be followed by a space and then the versioning information.

namespace <http://www.tdwg.org/schemas/tcs/1.01>

type [NameCitation](#)

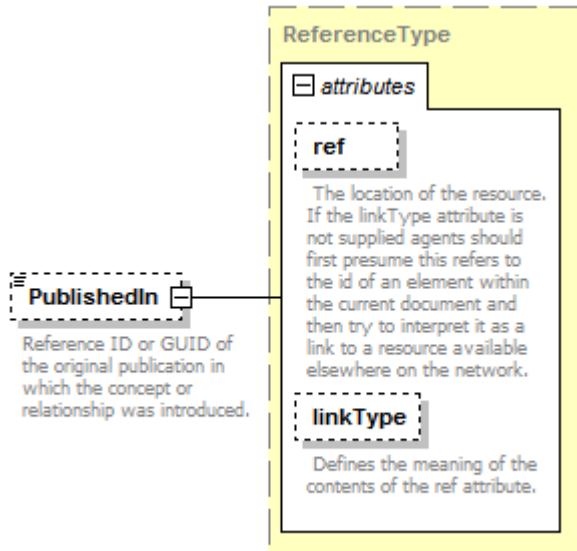
properties

|         |         |
|---------|---------|
| isRef   | 0       |
| minOcc  | 0       |
| maxOcc  | 1       |
| content | complex |

children [Simple](#) [Year](#) [Authors](#)

## element AccordingToType/AccordingToDetailed/PublishedIn

diagram



namespace <http://www.tdwg.org/schemas/tcs/1.01>

type [ReferenceType](#)

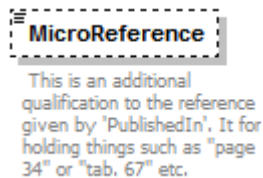
properties

|         |         |
|---------|---------|
| isRef   | 0       |
| minOcc  | 0       |
| maxOcc  | 1       |
| content | complex |
| mixed   | true    |

|            |          |                                        |          |         |       |
|------------|----------|----------------------------------------|----------|---------|-------|
| attributes | Name     | Type                                   | Use      | Default | Fixed |
|            | ref      | <b>xs:token</b>                        | optional |         |       |
|            | linkType | <b>derived by:</b><br><b>xs:string</b> | optional | local   |       |

## element AccordingToType/AccordingToDetailed/MicroReference

diagram



namespace <http://www.tdwg.org/schemas/tcs/1.01>

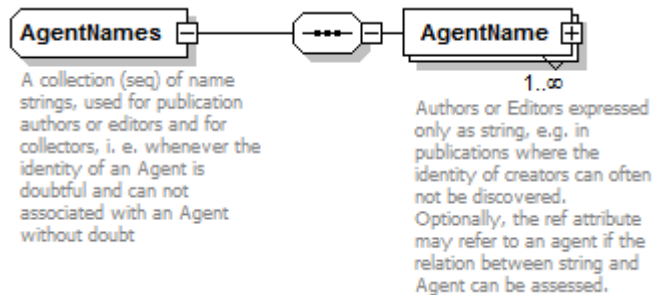
type **xs:string**

properties

|         |        |
|---------|--------|
| isRef   | 0      |
| minOcc  | 0      |
| maxOcc  | 1      |
| content | simple |

## complexType AgentNames

diagram



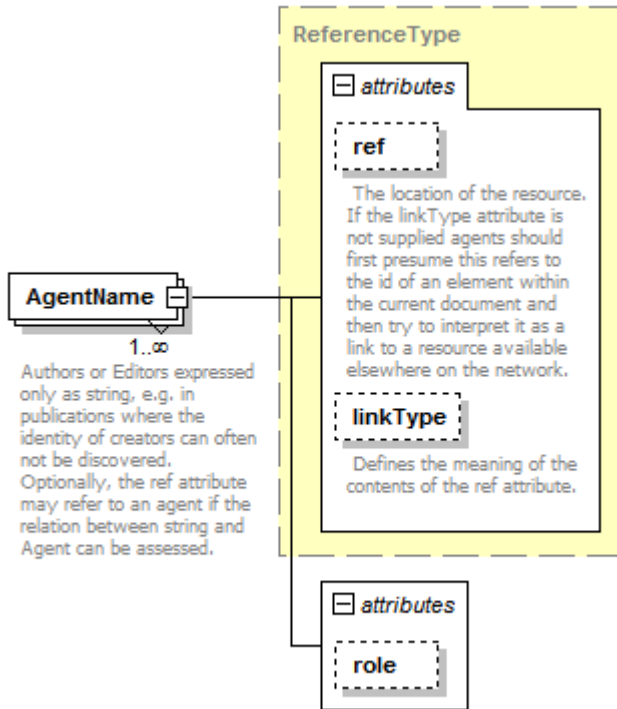
namespace <http://www.tdwg.org/schemas/tcs/1.01>

children [AgentName](#)

used by element [NameCitation/Authors](#)

# element AgentNames/AgentName

diagram



namespace <http://www.tdwg.org/schemas/tcs/1.01>

type extension of [ReferenceType](#)

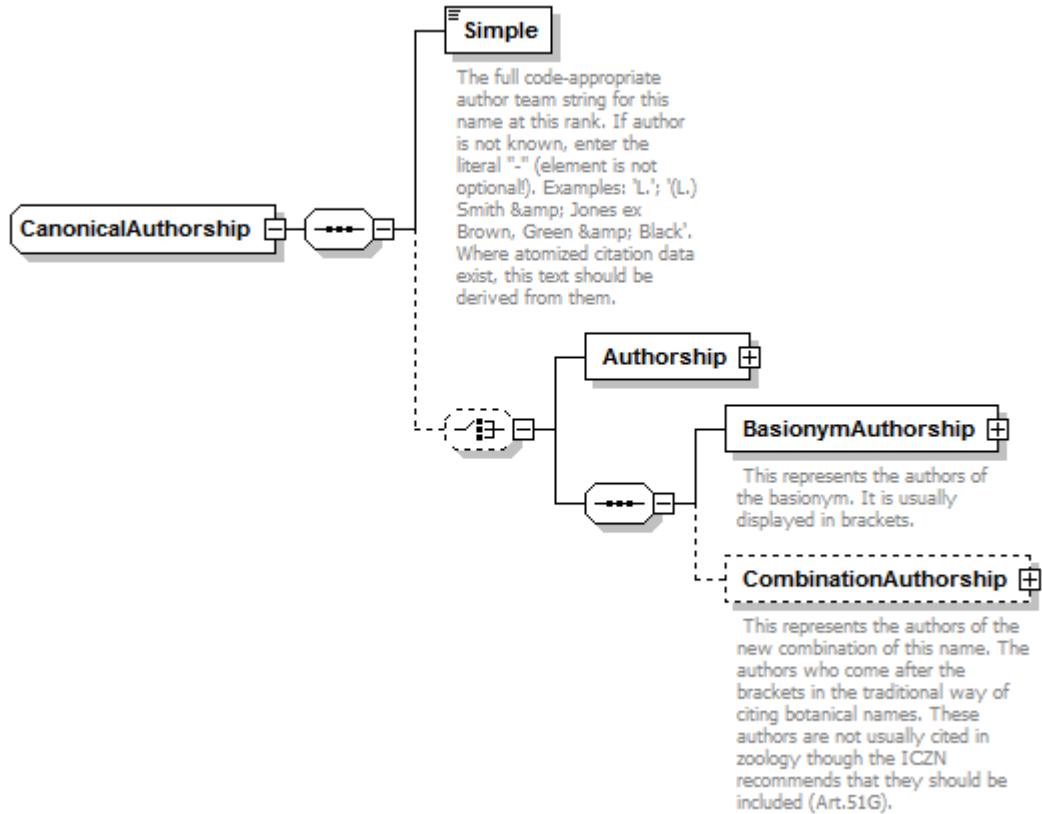
properties  
 isRef 0  
 minOcc 1  
 maxOcc unbounded  
 content complex

| attributes | Name     | Type                                    | Use      | Default | Fixed |
|------------|----------|-----------------------------------------|----------|---------|-------|
|            | ref      | <b>xs:token</b>                         | optional |         |       |
|            | linkType | <b>derived by:</b><br><b>xs:string</b>  | optional | local   |       |
|            | role     | <b>derived by:</b><br><b>xs&gt;Name</b> | optional |         |       |



## complexType CanonicalAuthorship

diagram



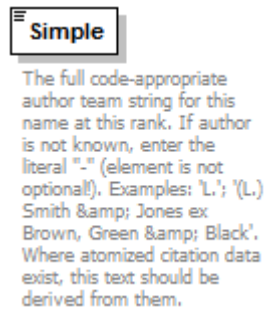
namespace <http://www.tdwg.org/schemas/tcs/1.01>

children [Simple](#) [Authorship](#) [BasionymAuthorship](#) [CombinationAuthorship](#)

used by element [ScientificName/CanonicalAuthorship](#)

## element CanonicalAuthorship/Simple

diagram



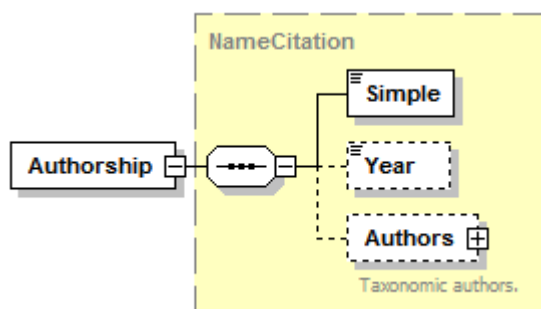
namespace <http://www.tdwg.org/schemas/tcs/1.01>

type **xs:string**

properties isRef 0  
content simple

## element CanonicalAuthorship/Authorship

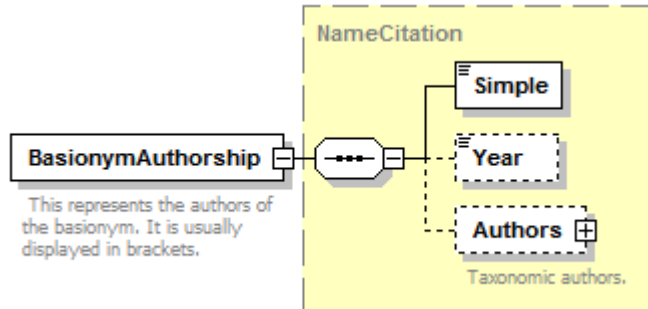
diagram



namespace <http://www.tdwg.org/schemas/tcs/1.01>  
 type [NameCitation](#)  
 properties isRef 0  
 content complex  
 children [Simple](#) [Year](#) [Authors](#)

element **CanonicalAuthorship/BasionymAuthorship**

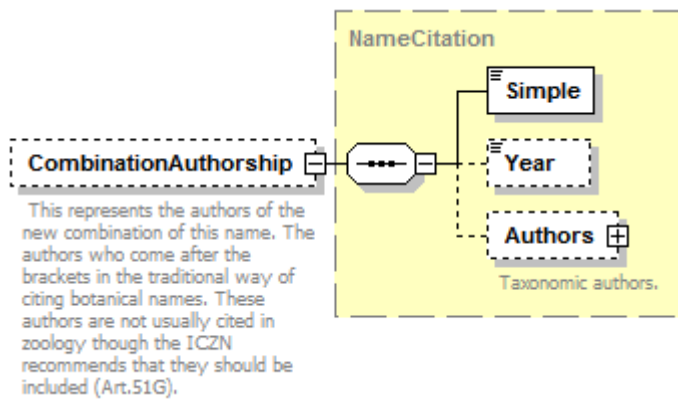
diagram



namespace <http://www.tdwg.org/schemas/tcs/1.01>  
 type [NameCitation](#)  
 properties isRef 0  
 content complex  
 children [Simple](#) [Year](#) [Authors](#)

element **CanonicalAuthorship/CombinationAuthorship**

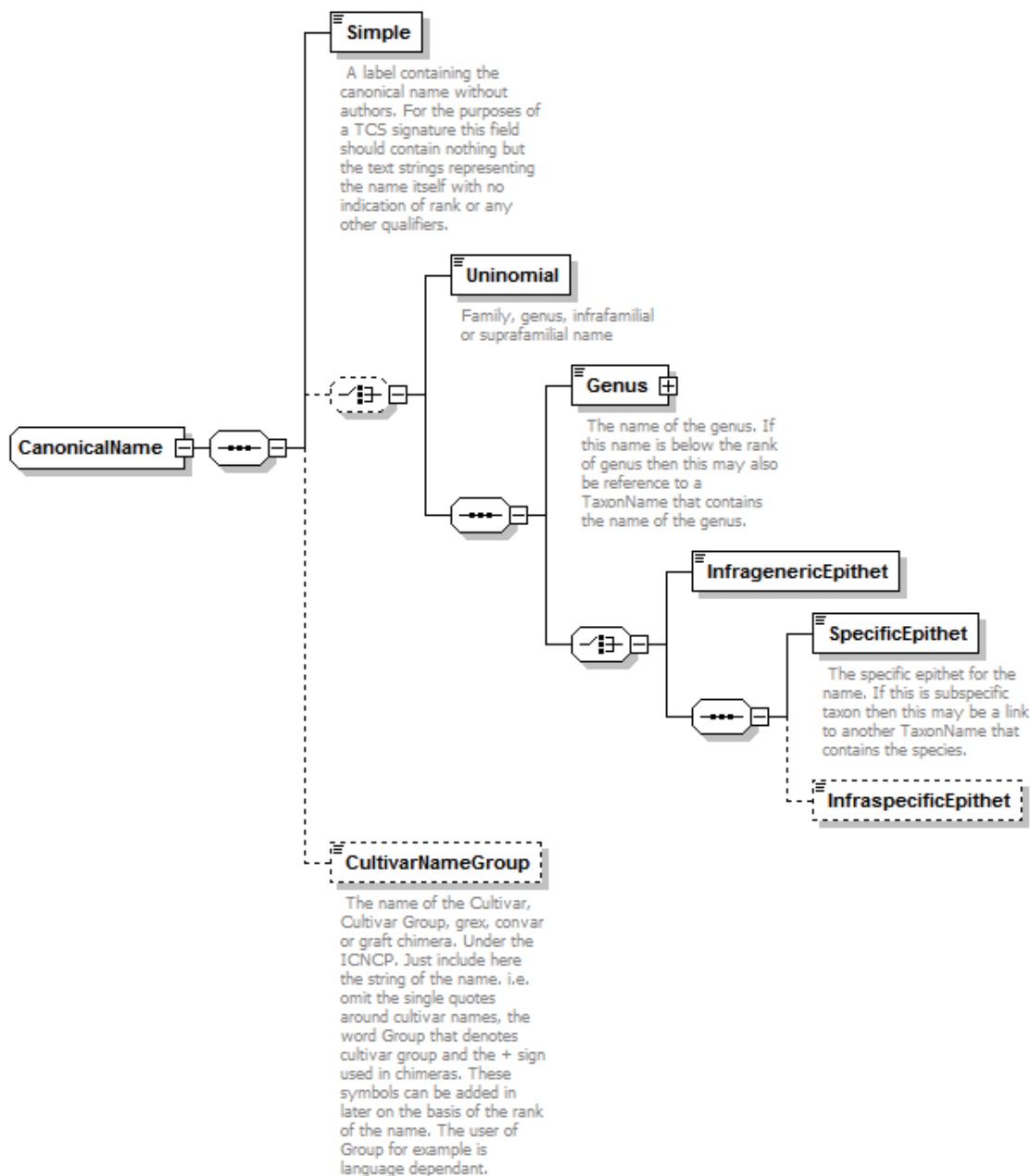
diagram



namespace <http://www.tdwg.org/schemas/tcs/1.01>  
 type [NameCitation](#)  
 properties isRef 0  
 minOcc 0  
 maxOcc 1  
 content complex  
 children [Simple](#) [Year](#) [Authors](#)

## complexType CanonicalName

diagram



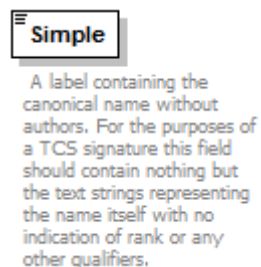
namespace <http://www.tdwg.org/schemas/tcs/1.01>

children [Simple](#) [Uninomial](#) [Genus](#) [InfragenericEpithet](#) [SpecificEpithet](#) [InfraspecificEpithet](#) [CultivarNameGroup](#)

used by element [ScientificName/CanonicalName](#)

## element CanonicalName/Simple

diagram



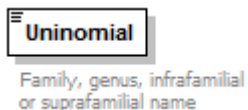
namespace <http://www.tdwg.org/schemas/tcs/1.01>

type **xs:string**

properties isRef 0  
content simple

### element CanonicalName/Uninomial

diagram



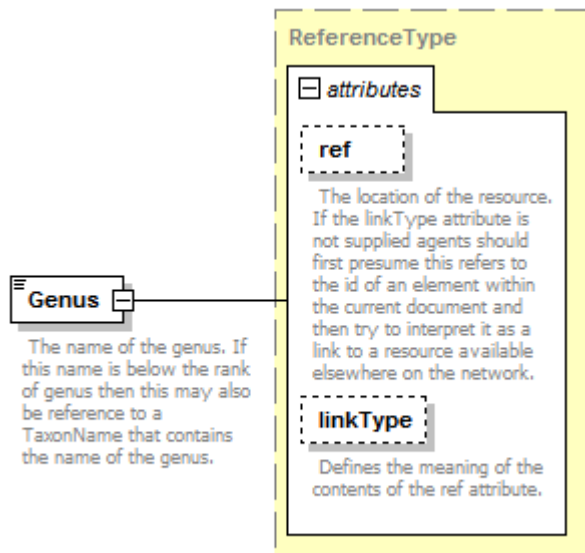
namespace <http://www.tdwg.org/schemas/tcs/1.01>

type **xs:string**

properties isRef 0  
content simple

### element CanonicalName/Genus

diagram



namespace <http://www.tdwg.org/schemas/tcs/1.01>

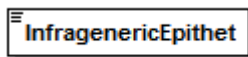
type [ReferenceType](#)

properties isRef 0  
content complex  
mixed true

| attributes | Name | Type                                   | Use      | Default | Fixed |
|------------|------|----------------------------------------|----------|---------|-------|
| ref        |      | <b>xs:token</b>                        | optional |         |       |
| linkType   |      | <b>derived by:</b><br><b>xs:string</b> | optional | local   |       |

### element CanonicalName/InfragenericEpithet

diagram



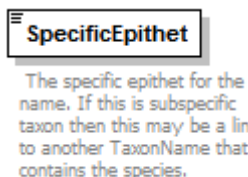
namespace <http://www.tdwg.org/schemas/tcs/1.01>

type **xs:string**

properties isRef 0  
content simple

### element CanonicalName/SpecificEpithet

diagram

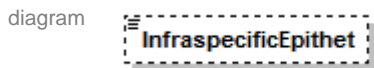


namespace <http://www.tdwg.org/schemas/tcs/1.01>

type **xs:string**

properties isRef 0  
content simple

### element CanonicalName/InfraspecificEpithet

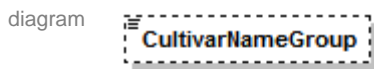


namespace <http://www.tdwg.org/schemas/tcs/1.01>

type **xs:string**

properties isRef 0  
minOcc 0  
maxOcc 1  
content simple

### element CanonicalName/CultivarNameGroup



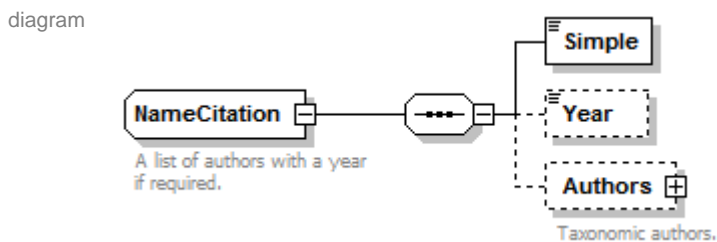
The name of the Cultivar, Cultivar Group, grex, convar or graft chimera. Under the ICNCP. Just include here the string of the name. i.e. omit the single quotes around cultivar names, the word Group that denotes cultivar group and the + sign used in chimeras. These symbols can be added in later on the basis of the rank of the name. The user of Group for example is language dependant.

namespace <http://www.tdwg.org/schemas/tcs/1.01>

type **xs:string**

properties isRef 0  
minOcc 0  
maxOcc 1  
content simple

### complexType NameCitation

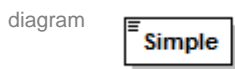


namespace <http://www.tdwg.org/schemas/tcs/1.01>

children [Simple](#) [Year](#) [Authors](#)

used by elements [CanonicalAuthorship/Authorship AccordingToType/AccordingToDetailed/AuthorTeam](#)  
[CanonicalAuthorship/BasionymAuthorship](#)  
[CanonicalAuthorship/CombinationAuthorship](#)

### element NameCitation/Simple



namespace <http://www.tdwg.org/schemas/tcs/1.01>

type **xs:string**

properties isRef 0  
content simple

## element NameCitation/Year

diagram



namespace <http://www.tdwg.org/schemas/tcs/1.01>

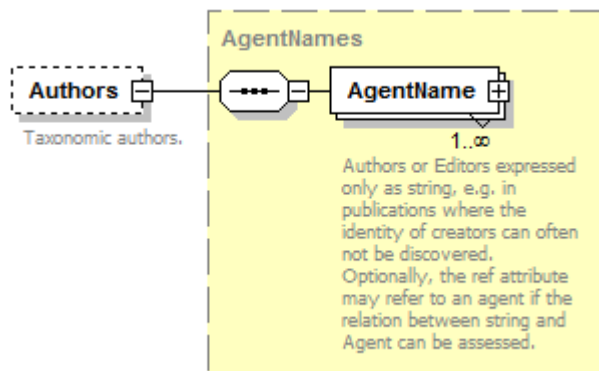
type **xs:gYear**

properties

|         |        |
|---------|--------|
| isRef   | 0      |
| minOcc  | 0      |
| maxOcc  | 1      |
| content | simple |

## element NameCitation/Authors

diagram



namespace <http://www.tdwg.org/schemas/tcs/1.01>

type [AgentNames](#)

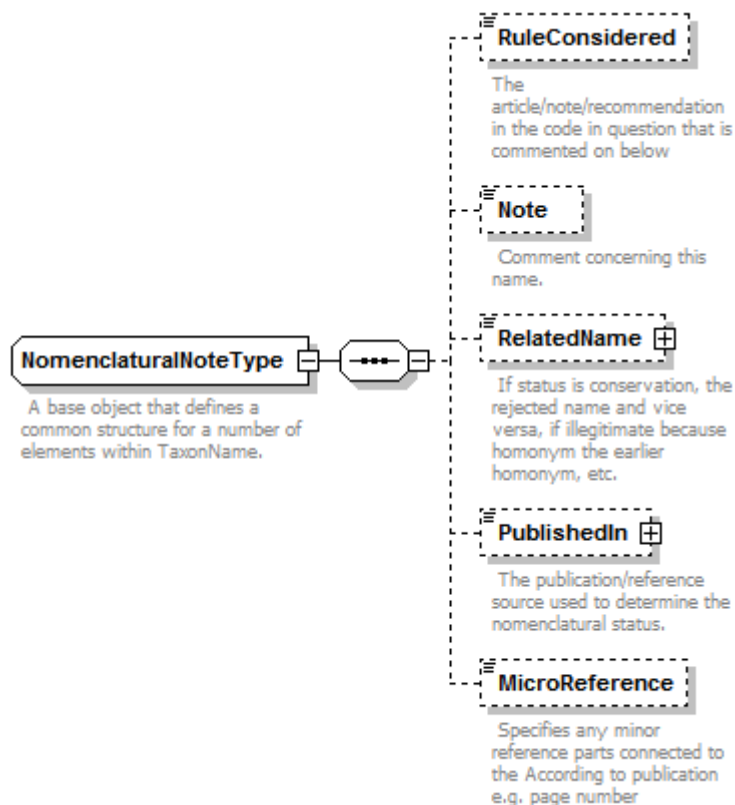
properties

|         |         |
|---------|---------|
| isRef   | 0       |
| minOcc  | 0       |
| maxOcc  | 1       |
| content | complex |

children [AgentName](#)

## complexType NomenclaturalNoteType

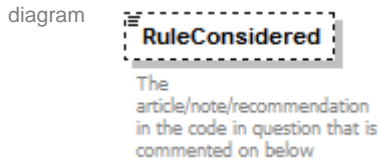
diagram



namespace <http://www.tdwg.org/schemas/tcs/1.01>

children [RuleConsidered](#) [Note](#) [RelatedName](#) [PublishedIn](#) [MicroReference](#)  
 used by elements [ScientificName/BasedOn](#) [ScientificName/Basionym](#) [ScientificName/ConservedAgainst](#)  
[ScientificName/LaterHomonymOf](#) [ScientificName/PublicationStatus](#)  
[ScientificName/ReplacementNameFor](#) [ScientificName/Sanctioned](#)  
[ScientificName/SpellingCorrectionOf](#)

### element NomenclaturalNoteType/RuleConsidered



namespace <http://www.tdwg.org/schemas/tcs/1.01>

type **xs:string**

properties  
 isRef 0  
 minOcc 0  
 maxOcc 1  
 content simple

### element NomenclaturalNoteType/Note

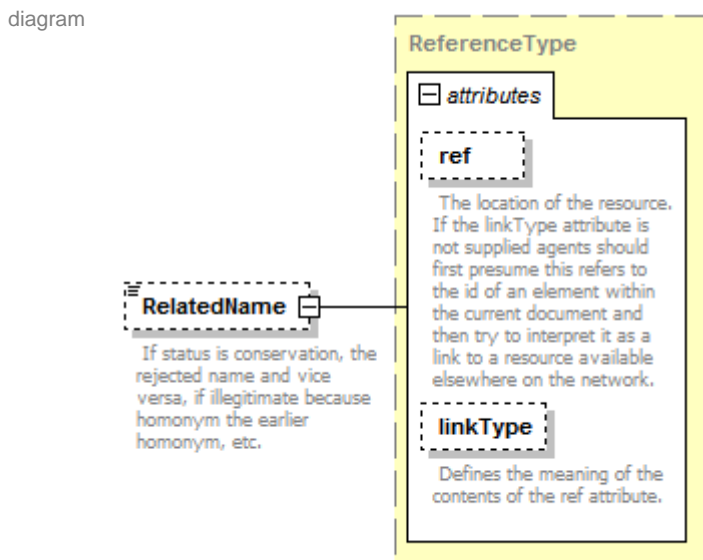


namespace <http://www.tdwg.org/schemas/tcs/1.01>

type **xs:string**

properties  
 isRef 0  
 minOcc 0  
 maxOcc 1  
 content simple

### element NomenclaturalNoteType/RelatedName



namespace <http://www.tdwg.org/schemas/tcs/1.01>

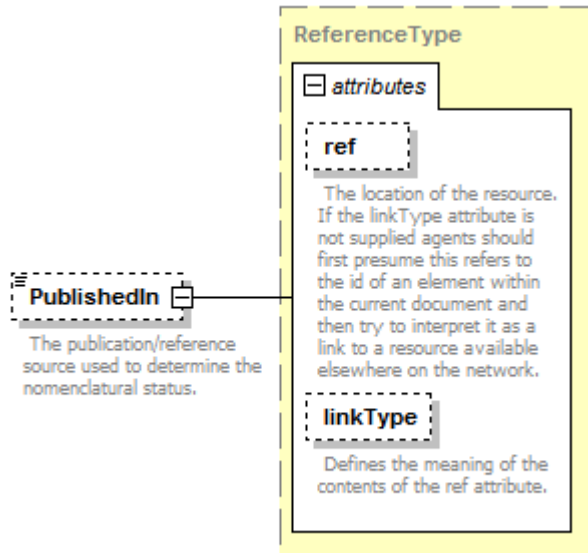
type [ReferenceType](#)

properties  
 isRef 0  
 minOcc 0  
 maxOcc 1  
 content complex  
 mixed true

| attributes | Name | Type                                   | Use      | Default | Fixed |
|------------|------|----------------------------------------|----------|---------|-------|
| ref        |      | <b>xs:token</b>                        | optional |         |       |
| linkType   |      | <b>derived by:</b><br><b>xs:string</b> | optional | local   |       |

## element NomenclaturalNoteType/PublishedIn

diagram



namespace <http://www.tdwg.org/schemas/tcs/1.01>

type [ReferenceType](#)

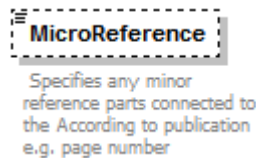
properties

|         |         |
|---------|---------|
| isRef   | 0       |
| minOcc  | 0       |
| maxOcc  | 1       |
| content | complex |
| mixed   | true    |

|            |          |                                        |          |         |       |
|------------|----------|----------------------------------------|----------|---------|-------|
| attributes | Name     | Type                                   | Use      | Default | Fixed |
|            | ref      | <b>xs:token</b>                        | optional |         |       |
|            | linkType | <b>derived by:</b><br><b>xs:string</b> | optional | local   |       |

## element NomenclaturalNoteType/MicroReference

diagram



namespace <http://www.tdwg.org/schemas/tcs/1.01>

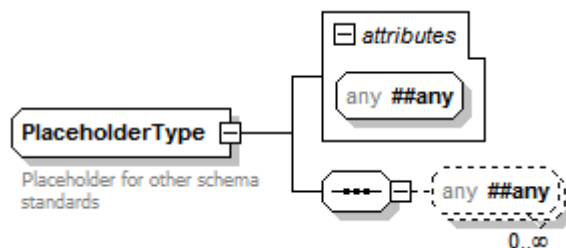
type **xs:string**

properties

|         |        |
|---------|--------|
| isRef   | 0      |
| minOcc  | 0      |
| maxOcc  | 1      |
| content | simple |

## complexType PlaceholderType

diagram



namespace <http://www.tdwg.org/schemas/tcs/1.01>

used by elements

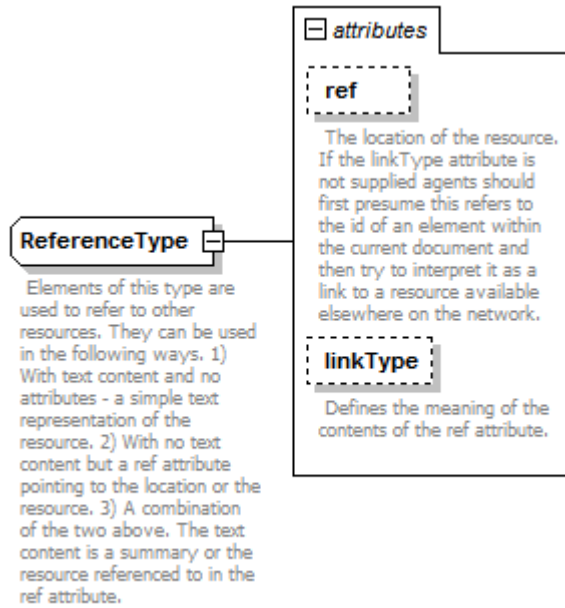
- [DataSet/TaxonConcepts/TaxonConcept/CharacterCircumscription](#)
- [DataSet/Specimens/Specimen/Collection](#)
- [DataSet/MetaData/MetaDataDetailed](#)
- [DataSet/TaxonConcepts/TaxonConcept/ProviderSpecificData](#)
- [ScientificName/ProviderSpecificData](#)
- [DataSet/Publications/Publication/PublicationDetailed](#)
- [DataSet/Specimens/Specimen/SpecimenItem](#)

|            |      |      |     |         |       |
|------------|------|------|-----|---------|-------|
| attributes | Name | Type | Use | Default | Fixed |
|------------|------|------|-----|---------|-------|



## complexType ReferenceType

diagram



namespace <http://www.tdwg.org/schemas/tcs/1.01>

properties mixed true

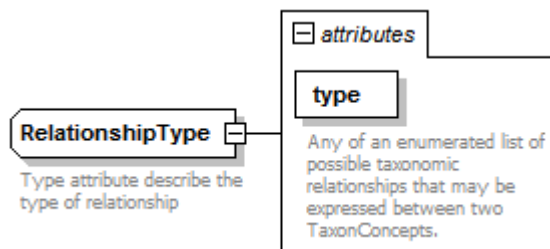
used by elements

- [AgentNames/AgentName](#)
- [DataSet/TaxonConcepts/TaxonConcept/SpecimenCircumscription/CircumscribedBy](#)
- [DataSet/TaxonRelationshipAssertions/TaxonRelationshipAssertion/FromTaxonConcept](#)
- [CanonicalName/Genus](#)
- [ScientificName/Typification/TypeVouchers/TypeVoucher/LectotypePublication](#)
- [ScientificName/Typification/TypeName/LectotypePublication](#)
- [DataSet/TaxonConcepts/TaxonConcept/Name](#)
- [ScientificName/Typification/TypeName/NameReference](#)
- [AccordingToType/AccordingToDetailed/PublishedIn](#)
- [ScientificName/PublishedIn](#)
- [NomenclaturalNoteType/PublishedIn](#)
- [NomenclaturalNoteType/RelatedName](#)
- [DataSet/TaxonConcepts/TaxonConcept/TaxonRelationships/TaxonRelationship/ToTaxonConcept](#)
- [DataSet/TaxonRelationshipAssertions/TaxonRelationshipAssertion/ToTaxonConcept](#)
- [ScientificName/Typification/TypeVouchers/TypeVoucher/VoucherReference](#)

| attributes | Name     | Type                                   | Use      | Default | Fixed |
|------------|----------|----------------------------------------|----------|---------|-------|
|            | ref      | <b>xs:token</b>                        | optional |         |       |
|            | linkType | <b>derived by:</b><br><b>xs:string</b> | optional | local   |       |

## complexType RelationshipType

diagram



namespace <http://www.tdwg.org/schemas/tcs/1.01>

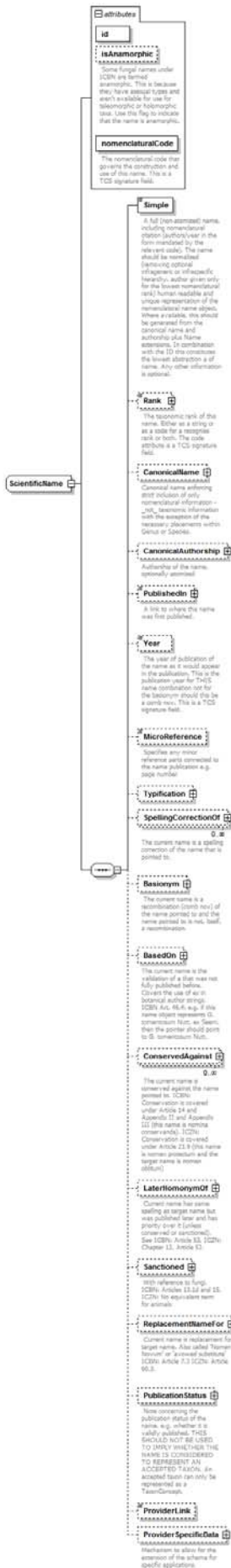
used by elements

- [DataSet/TaxonConcepts/TaxonConcept/TaxonRelationships/TaxonRelationship](#)
- [DataSet/TaxonRelationshipAssertions/TaxonRelationshipAssertion](#)

| attributes | Name | Type                                   | Use      | Default | Fixed |
|------------|------|----------------------------------------|----------|---------|-------|
|            | type | <b>derived by:</b><br><b>xs:string</b> | required |         |       |

# complexType ScientificName

diagram



namespace <http://www.tdwg.org/schemas/tcs/1.01>

children [Simple](#) [Rank](#) [CanonicalName](#) [CanonicalAuthorship](#) [PublishedIn](#) [Year](#) [MicroReference](#) [Typification](#) [SpellingCorrectionOf](#) [Basionym](#) [BasedOn](#) [ConservedAgainst](#) [LaterHomonymOf](#) [Sanctioned](#)

[ReplacementNameFor](#) [PublicationStatus](#) [ProviderLink](#) [ProviderSpecificData](#)

|            |                   |                                              |          |         |       |
|------------|-------------------|----------------------------------------------|----------|---------|-------|
| used by    | element           | <a href="#">DataSet/TaxonNames/TaxonName</a> |          |         |       |
| attributes | Name              | Type                                         | Use      | Default | Fixed |
|            | id                | <b>xs:NMTOKEN</b>                            | required |         |       |
|            | isAnamorphic      | <b>xs:boolean</b>                            | optional | false   |       |
|            | nomenclaturalCode | <a href="#">NomenclaturalCodesEnum</a>       | required |         |       |

element **ScientificName/Simple**

diagram



A full (non-atomized) name, including nomenclatural citation (authors/year in the form mandated by the relevant code). The name should be normalized (removing optional infrageneric or infraspecific hierarchy, author given only for the lowest nomenclatural rank) human readable and unique representation of the nomenclatural name object. Where available, this should be generated from the canonical name and authorship plus Name extensions. In combination with the ID this constitutes the lowest abstraction of a name. Any other information is optional.

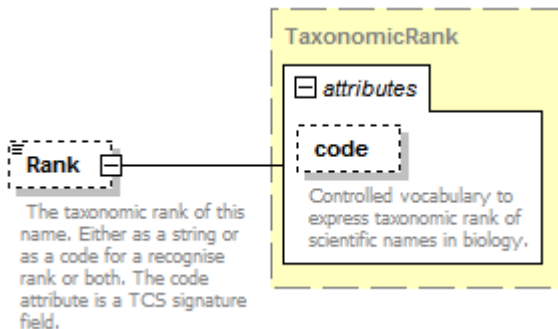
namespace <http://www.tdwg.org/schemas/tcs/1.01>

type **xs:string**

properties isRef 0  
content simple

element **ScientificName/Rank**

diagram



The taxonomic rank of this name. Either as a string or as a code for a recognised rank or both. The code attribute is a TCS signature field.

namespace <http://www.tdwg.org/schemas/tcs/1.01>

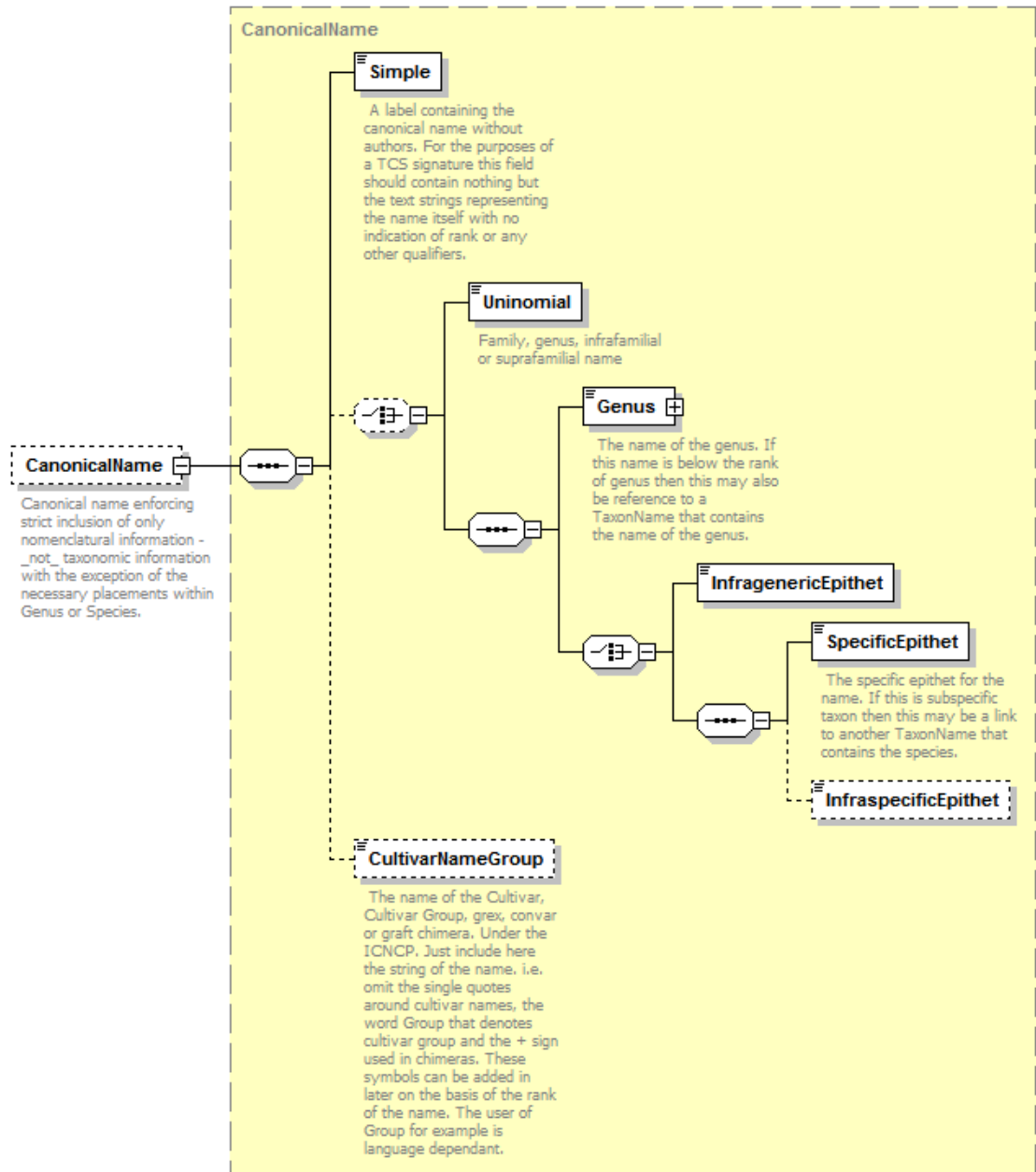
type [TaxonomicRank](#)

properties isRef 0  
minOcc 0  
maxOcc 1  
content complex  
mixed true

|            |      |                                   |          |         |       |
|------------|------|-----------------------------------|----------|---------|-------|
| attributes | Name | Type                              | Use      | Default | Fixed |
|            | code | <a href="#">TaxonomicRankEnum</a> | optional |         |       |

element **ScientificName/CanonicalName**

diagram



namespace <http://www.tdwg.org/schemas/tcs/1.01>

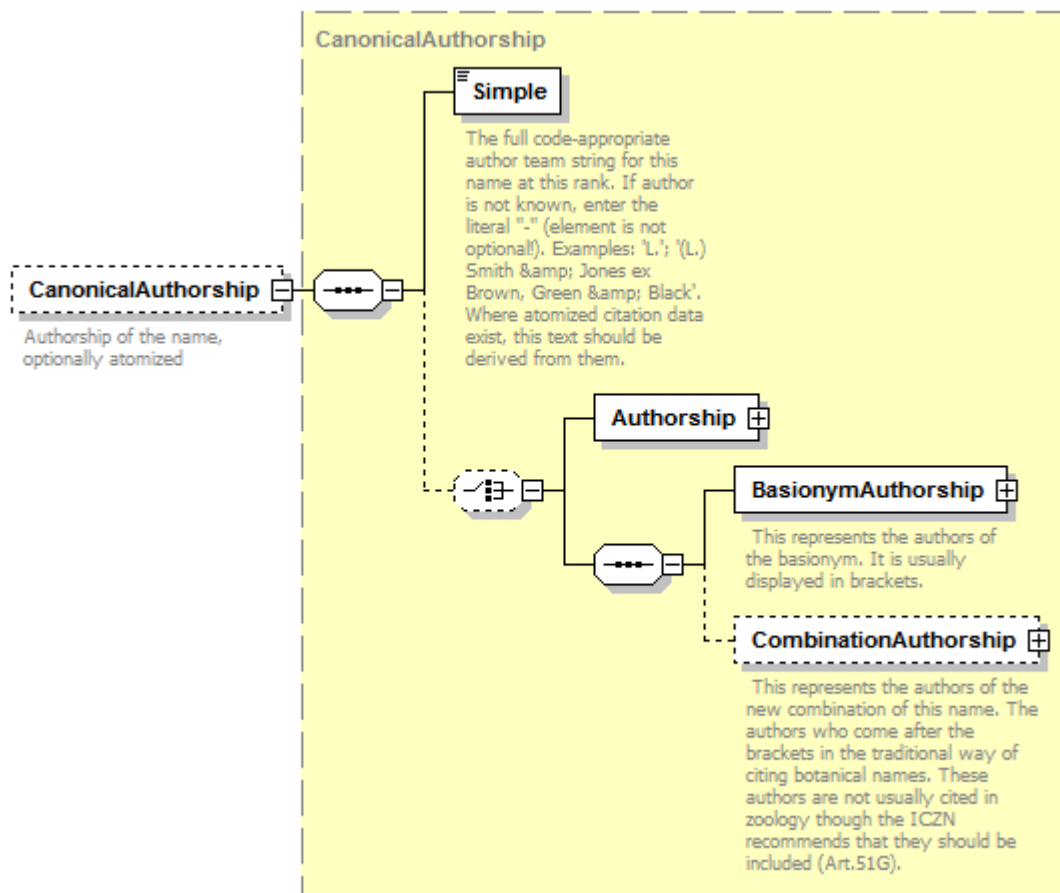
type [CanonicalName](#)

properties  
 isRef 0  
 minOcc 0  
 maxOcc 1  
 content complex

children [Simple](#) [Uninomial](#) [Genus](#) [InfragenericEpithet](#) [SpecificEpithet](#) [InfrasppecificEpithet](#) [CultivarNameGroup](#)

## element ScientificName/CanonicalAuthorship

diagram



namespace <http://www.tdwg.org/schemas/tcs/1.01>

type [CanonicalAuthorship](#)

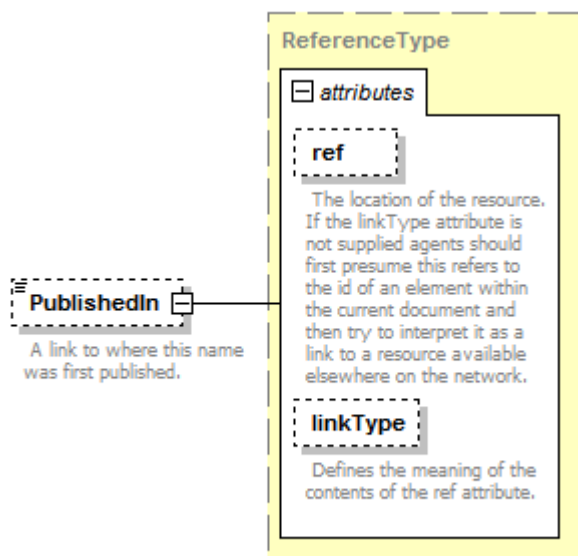
properties

|         |         |
|---------|---------|
| isRef   | 0       |
| minOcc  | 0       |
| maxOcc  | 1       |
| content | complex |

children [Simple](#) [Authorship](#) [BasionymAuthorship](#) [CombinationAuthorship](#)

## element ScientificName/PublishedIn

diagram



namespace <http://www.tdwg.org/schemas/tcs/1.01>

type [ReferenceType](#)

properties

|        |   |
|--------|---|
| isRef  | 0 |
| minOcc | 0 |

|            |                            |                      |                                                                   |                             |                  |       |
|------------|----------------------------|----------------------|-------------------------------------------------------------------|-----------------------------|------------------|-------|
| attributes | maxOcc<br>content<br>mixed | 1<br>complex<br>true | Type<br><b>xs:token</b><br><b>derived by:</b><br><b>xs:string</b> | Use<br>optional<br>optional | Default<br>local | Fixed |
|------------|----------------------------|----------------------|-------------------------------------------------------------------|-----------------------------|------------------|-------|

### element **ScientificName/Year**

diagram



The year of publication of the name as it would appear in the publication. This is the publication year for THIS name combination not for the basionym should this be a comb nov. This is a TCS signature field.

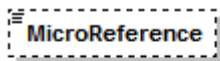
namespace <http://www.tdwg.org/schemas/tcs/1.01>

type **xs:gYear**

|            |         |        |
|------------|---------|--------|
| properties | isRef   | 0      |
|            | minOcc  | 0      |
|            | maxOcc  | 1      |
|            | content | simple |

### element **ScientificName/MicroReference**

diagram



Specifies any minor reference parts connected to the name publication e.g. page number

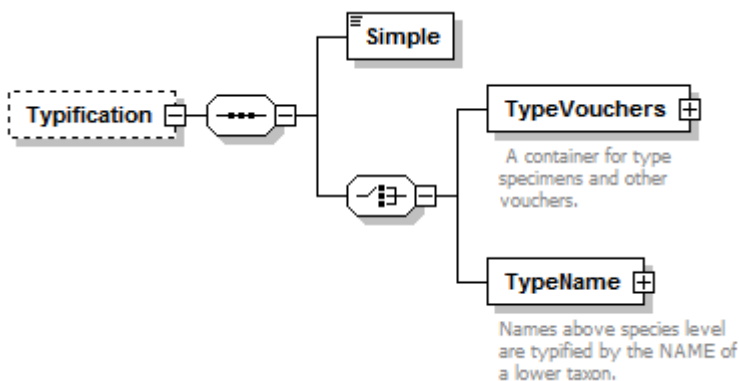
namespace <http://www.tdwg.org/schemas/tcs/1.01>

type **xs:string**

|            |         |        |
|------------|---------|--------|
| properties | isRef   | 0      |
|            | minOcc  | 0      |
|            | maxOcc  | 1      |
|            | content | simple |

### element **ScientificName/Typification**

diagram



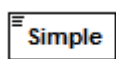
namespace <http://www.tdwg.org/schemas/tcs/1.01>

|            |         |         |
|------------|---------|---------|
| properties | isRef   | 0       |
|            | minOcc  | 0       |
|            | maxOcc  | 1       |
|            | content | complex |

children [Simple](#) [TypeVouchers](#) [TypeName](#)

### element **ScientificName/Typification/Simple**

diagram



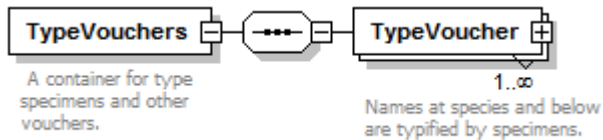
namespace <http://www.tdwg.org/schemas/tcs/1.01>

type **xs:string**

properties isRef 0  
content simple

### element **ScientificName/Typification/TypeVouchers**

diagram



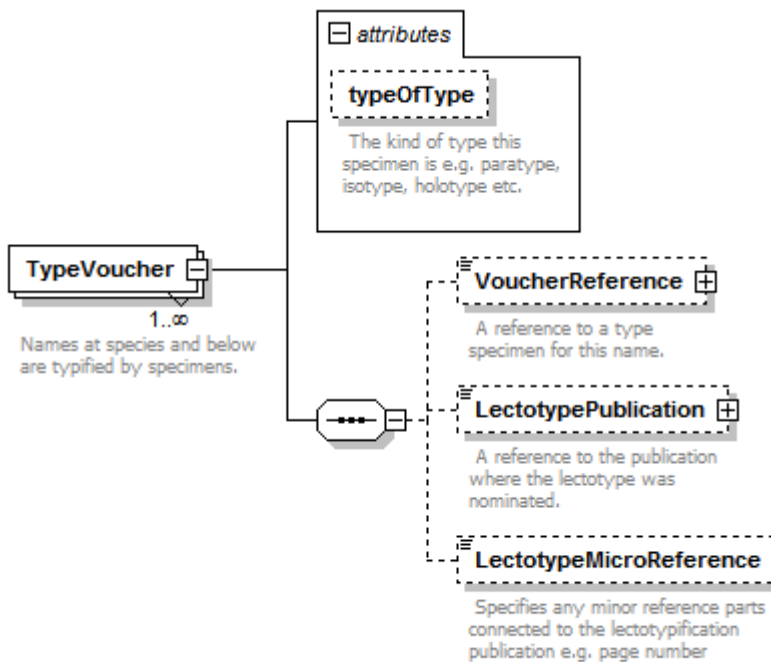
namespace <http://www.tdwg.org/schemas/tcs/1.01>

properties isRef 0  
content complex

children [TypeVoucher](#)

### element **ScientificName/Typification/TypeVouchers/TypeVoucher**

diagram



namespace <http://www.tdwg.org/schemas/tcs/1.01>

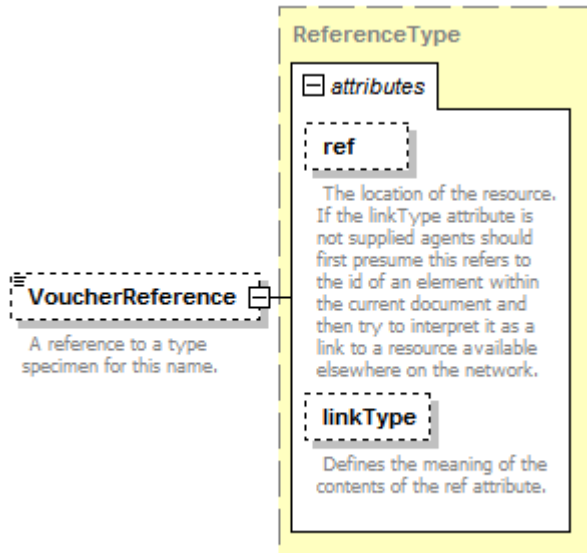
properties isRef 0  
minOcc 1  
maxOcc unbounded  
content complex

children [VoucherReference](#) [LectotypePublication](#) [LectotypeMicroReference](#)

| attributes | Name   | Type                                                                   | Use | Default | Fixed |
|------------|--------|------------------------------------------------------------------------|-----|---------|-------|
|            | typeOf | <a href="#">NomenclaturalType</a><br><a href="#">StatusOfUnitsEnum</a> |     |         |       |

element **ScientificName/Typification/TypeVouchers/TypeVoucher/VoucherReference**

diagram



namespace <http://www.tdwg.org/schemas/tcs/1.01>

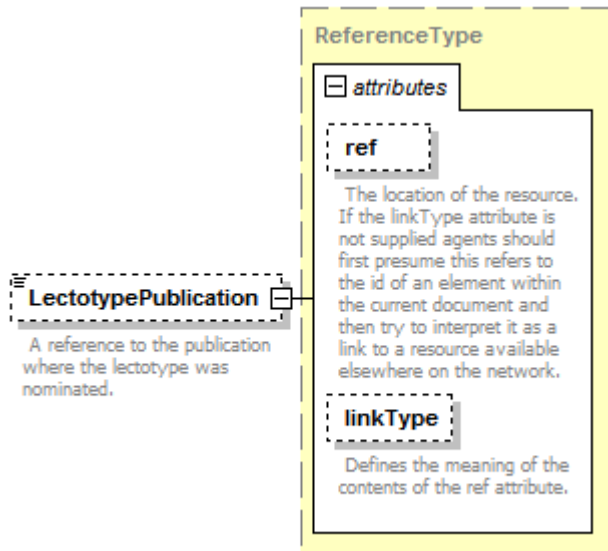
type [ReferenceType](#)

properties  
 isRef 0  
 minOcc 0  
 maxOcc 1  
 content complex  
 mixed true

| attributes | Name     | Type                                   | Use      | Default | Fixed |
|------------|----------|----------------------------------------|----------|---------|-------|
|            | ref      | <b>xs:token</b>                        | optional |         |       |
|            | linkType | <b>derived by:</b><br><b>xs:string</b> | optional | local   |       |

element **ScientificName/Typification/TypeVouchers/TypeVoucher/LectotypePublication**

diagram



namespace <http://www.tdwg.org/schemas/tcs/1.01>

type [ReferenceType](#)

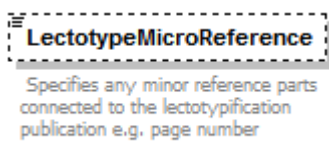
properties  
 isRef 0  
 minOcc 0  
 maxOcc 1  
 content complex  
 mixed true

| attributes | Name     | Type                                   | Use      | Default | Fixed |
|------------|----------|----------------------------------------|----------|---------|-------|
|            | ref      | <b>xs:token</b>                        | optional |         |       |
|            | linkType | <b>derived by:</b><br><b>xs:string</b> | optional | local   |       |



element **ScientificName/Typification/TypeVouchers/TypeVoucher/LectotypeMicroReference**

diagram



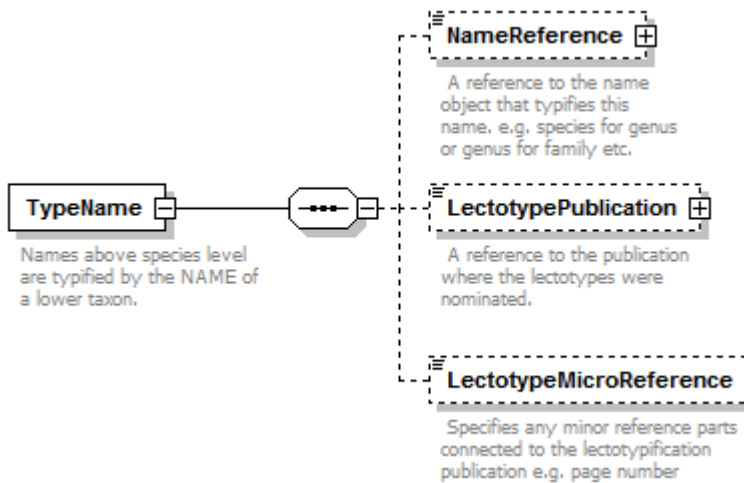
namespace <http://www.tdwg.org/schemas/tcs/1.01>

type **xs:string**

properties  
 isRef 0  
 minOcc 0  
 maxOcc 1  
 content simple

element **ScientificName/Typification/TypeName**

diagram



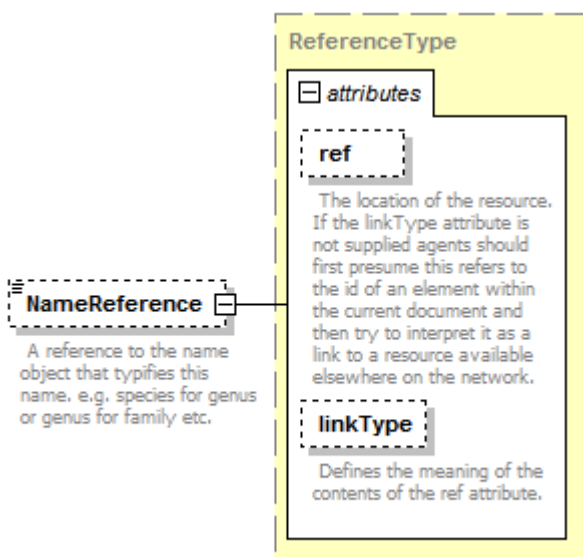
namespace <http://www.tdwg.org/schemas/tcs/1.01>

properties  
 isRef 0  
 content complex

children [NameReference](#) [LectotypePublication](#) [LectotypeMicroReference](#)

element **ScientificName/Typification/TypeName/NameReference**

diagram



namespace <http://www.tdwg.org/schemas/tcs/1.01>

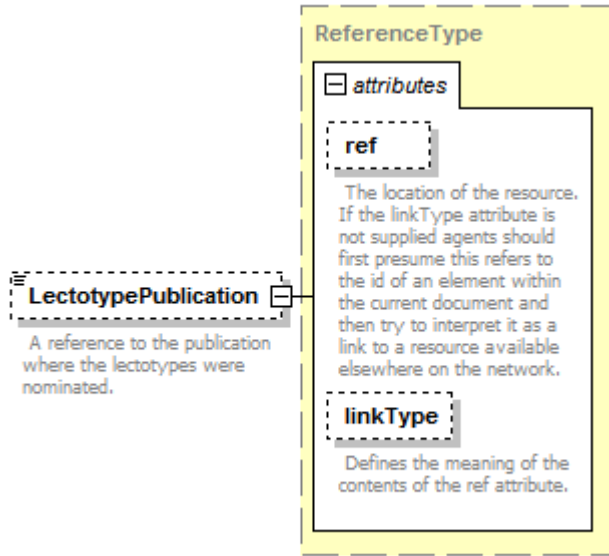
type [ReferenceType](#)

properties  
 isRef 0  
 minOcc 0  
 maxOcc 1

|            |               |              |                    |          |         |       |
|------------|---------------|--------------|--------------------|----------|---------|-------|
| attributes | content mixed | complex true | Type               | Use      | Default | Fixed |
|            | Name          |              | <b>xs:token</b>    | optional |         |       |
|            | ref           |              | <b>derived by:</b> | optional | local   |       |
|            | linkType      |              | <b>xs:string</b>   |          |         |       |

### element ScientificName/Typification/TypeName/LectotypePublication

diagram



namespace <http://www.tdwg.org/schemas/tcs/1.01>

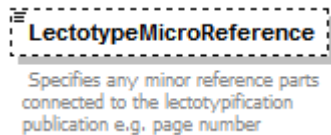
type [ReferenceType](#)

|            |               |              |
|------------|---------------|--------------|
| properties | isRef         | 0            |
|            | minOcc        | 0            |
|            | maxOcc        | 1            |
|            | content mixed | complex true |

|            |          |                    |          |         |       |
|------------|----------|--------------------|----------|---------|-------|
| attributes | Name     | Type               | Use      | Default | Fixed |
|            | ref      | <b>xs:token</b>    | optional |         |       |
|            | linkType | <b>derived by:</b> | optional | local   |       |
|            |          | <b>xs:string</b>   |          |         |       |

### element ScientificName/Typification/TypeName/LectotypeMicroReference

diagram



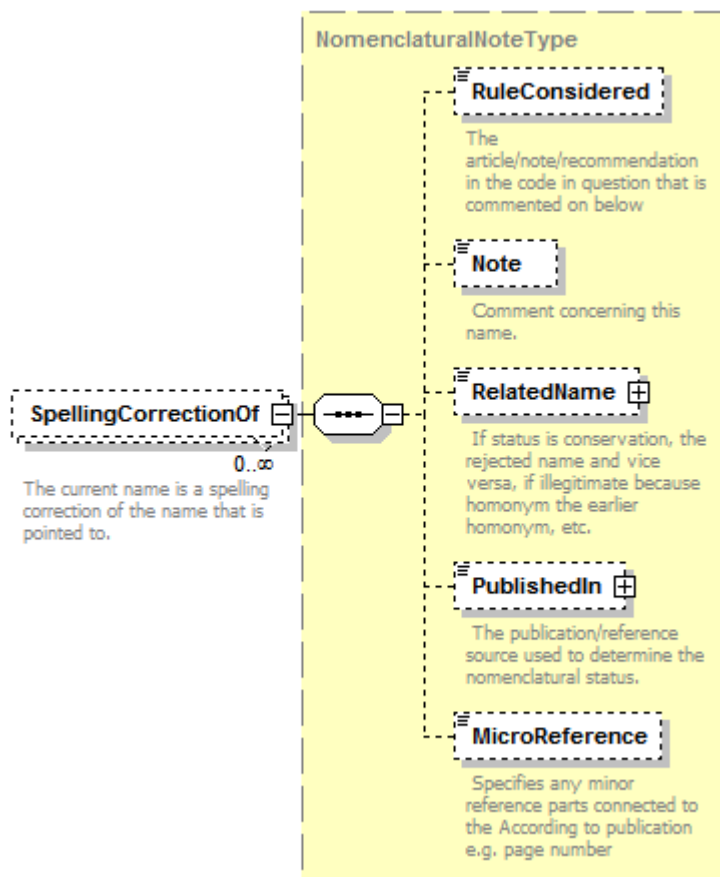
namespace <http://www.tdwg.org/schemas/tcs/1.01>

type **xs:string**

|            |         |        |
|------------|---------|--------|
| properties | isRef   | 0      |
|            | minOcc  | 0      |
|            | maxOcc  | 1      |
|            | content | simple |

element **ScientificName/SpellingCorrectionOf**

diagram



namespace <http://www.tdwg.org/schemas/tcs/1.01>

type [NomenclaturalNoteType](#)

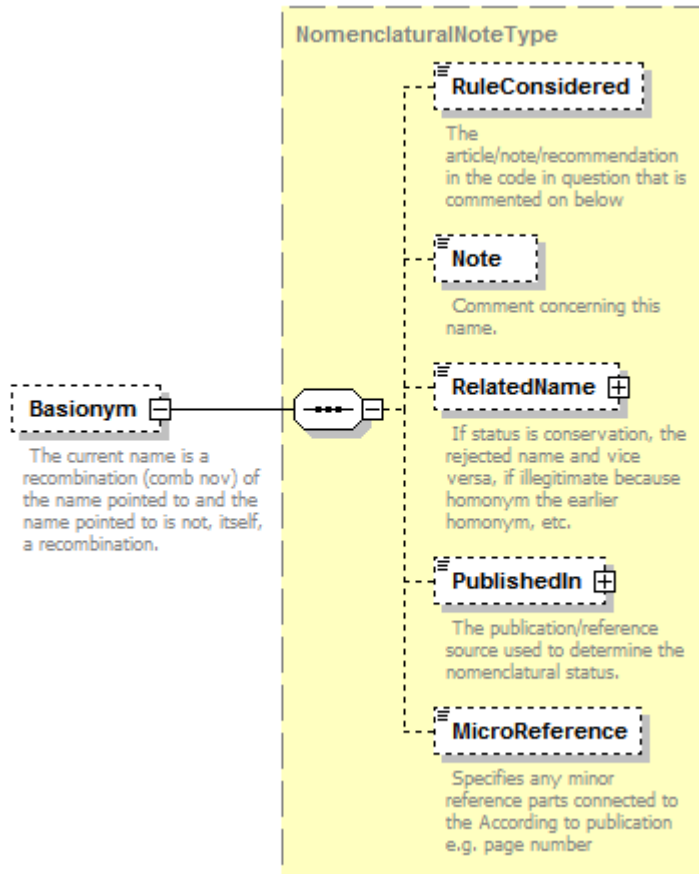
properties

|         |           |
|---------|-----------|
| isRef   | 0         |
| minOcc  | 0         |
| maxOcc  | unbounded |
| content | complex   |

children [RuleConsidered](#) [Note](#) [RelatedName](#) [PublishedIn](#) [MicroReference](#)

element **ScientificName/Basionym**

diagram



namespace <http://www.tdwg.org/schemas/tcs/1.01>

type [NomenclaturalNoteType](#)

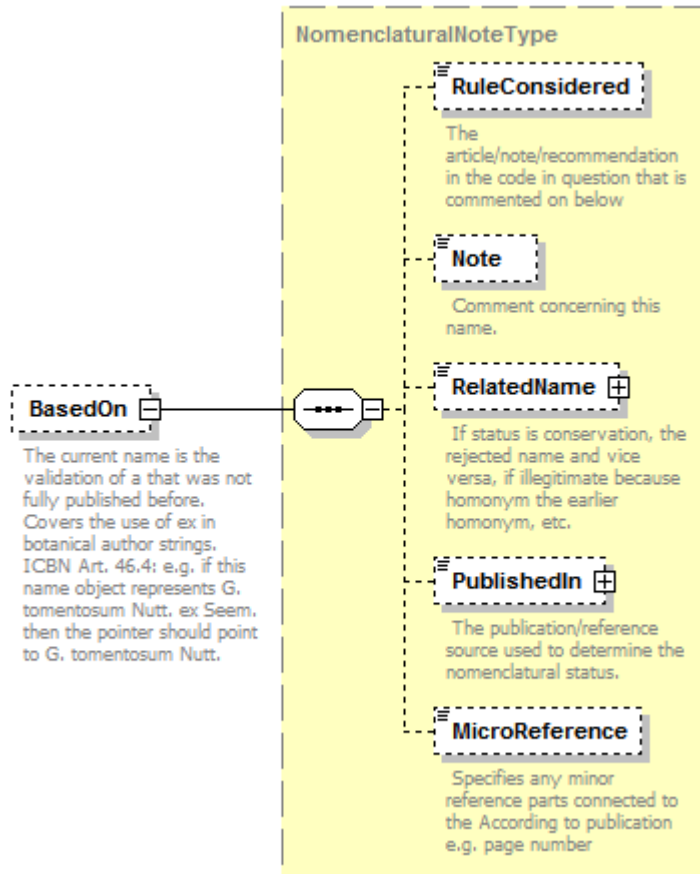
properties

|         |         |
|---------|---------|
| isRef   | 0       |
| minOcc  | 0       |
| maxOcc  | 1       |
| content | complex |

children [RuleConsidered](#) [Note](#) [RelatedName](#) [PublishedIn](#) [MicroReference](#)

element **ScientificName/BasedOn**

diagram



namespace <http://www.tdwg.org/schemas/tcs/1.01>

type [NomenclaturalNoteType](#)

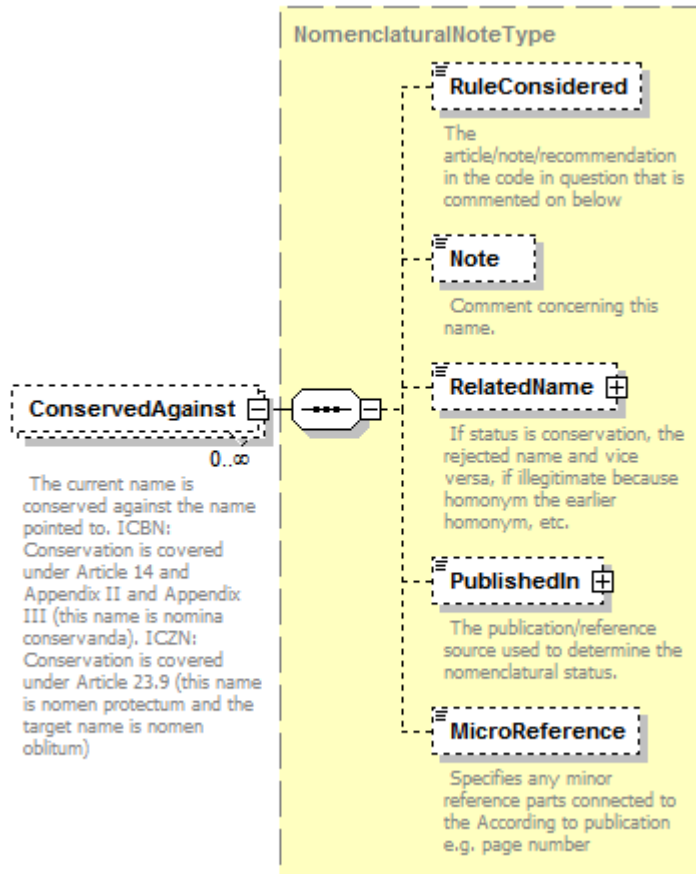
properties

|         |         |
|---------|---------|
| isRef   | 0       |
| minOcc  | 0       |
| maxOcc  | 1       |
| content | complex |

children [RuleConsidered](#) [Note](#) [RelatedName](#) [PublishedIn](#) [MicroReference](#)

element **ScientificName/ConservedAgainst**

diagram



namespace <http://www.tdwg.org/schemas/tcs/1.01>

type [NomenclaturalNoteType](#)

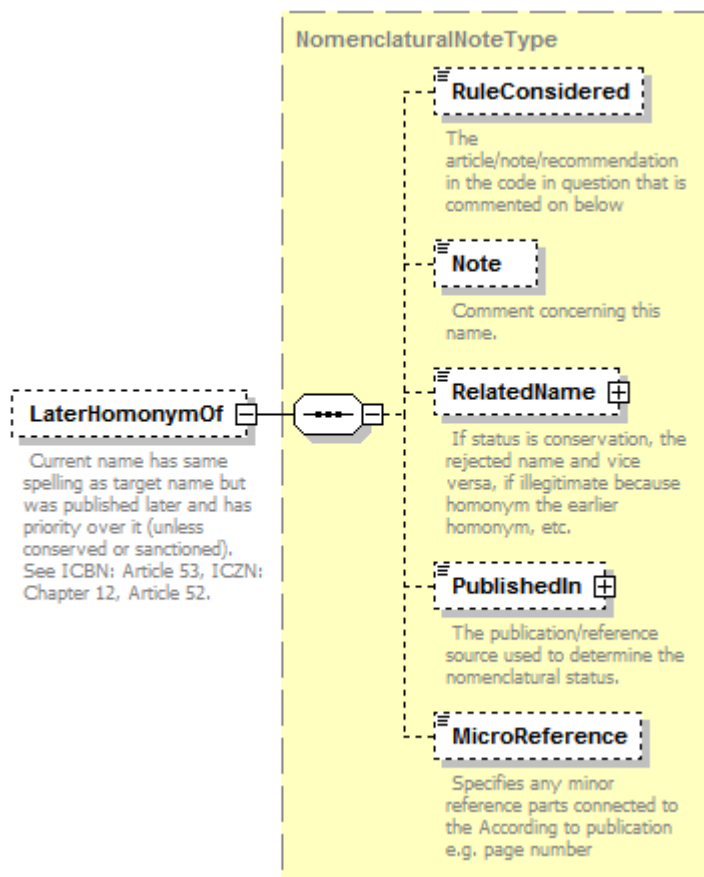
properties

|         |           |
|---------|-----------|
| isRef   | 0         |
| minOcc  | 0         |
| maxOcc  | unbounded |
| content | complex   |

children [RuleConsidered](#) [Note](#) [RelatedName](#) [PublishedIn](#) [MicroReference](#)

element **ScientificName/LaterHomonymOf**

diagram



namespace <http://www.tdwg.org/schemas/tcs/1.01>

type [NomenclaturalNoteType](#)

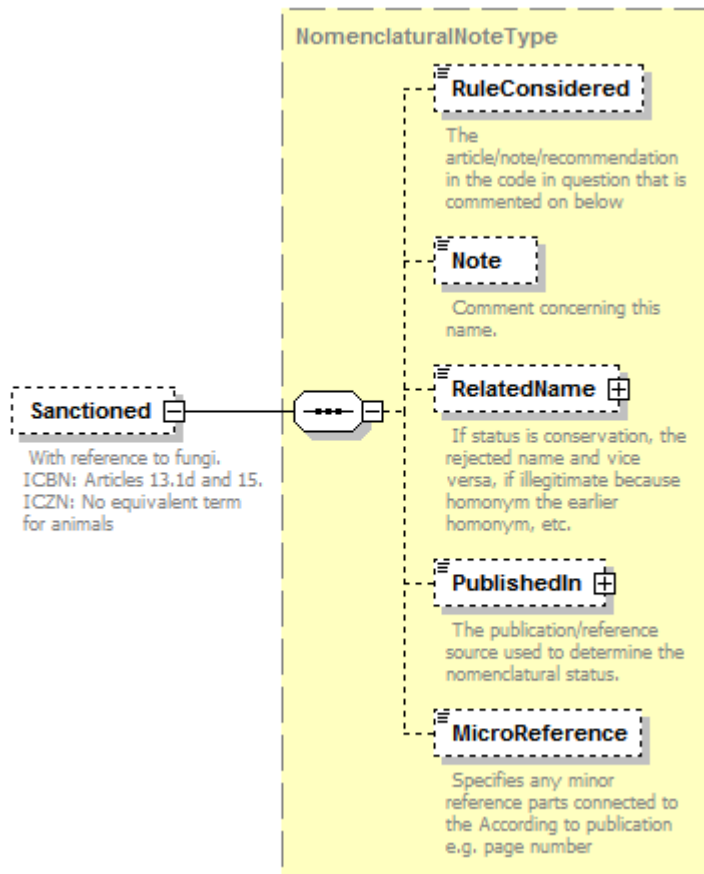
properties

|         |         |
|---------|---------|
| isRef   | 0       |
| minOcc  | 0       |
| maxOcc  | 1       |
| content | complex |

children [RuleConsidered](#) [Note](#) [RelatedName](#) [PublishedIn](#) [MicroReference](#)

element **ScientificName/Sanctioned**

diagram



namespace <http://www.tdwg.org/schemas/tcs/1.01>

type [NomenclaturalNoteType](#)

properties

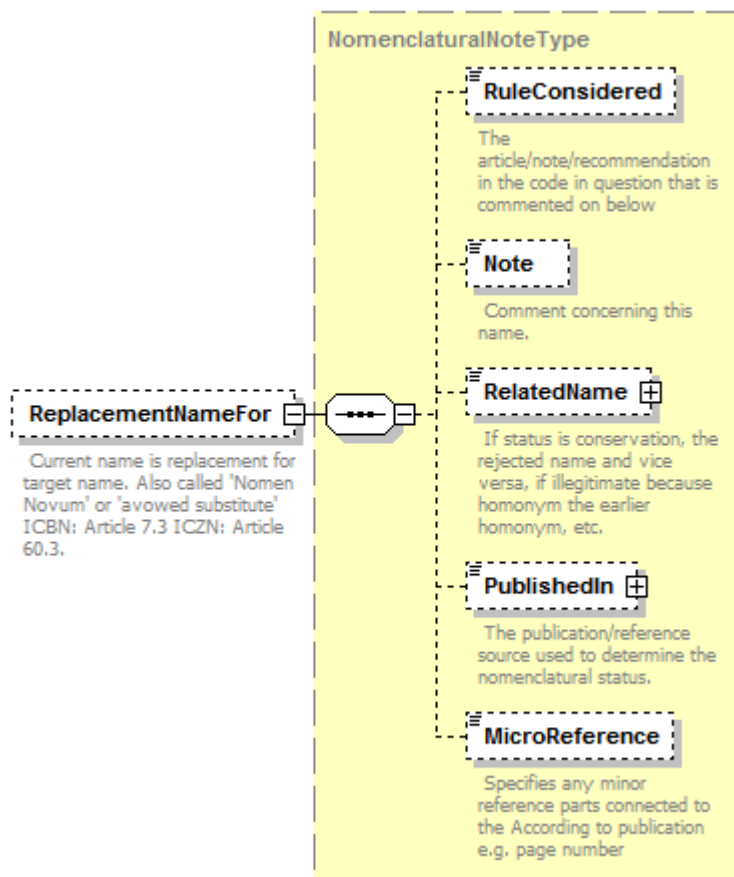
|         |         |
|---------|---------|
| isRef   | 0       |
| minOcc  | 0       |
| maxOcc  | 1       |
| content | complex |

children [RuleConsidered](#) [Note](#) [RelatedName](#) [PublishedIn](#) [MicroReference](#)



element **ScientificName/ReplacementNameFor**

diagram



namespace <http://www.tdwg.org/schemas/tcs/1.01>

type [NomenclaturalNoteType](#)

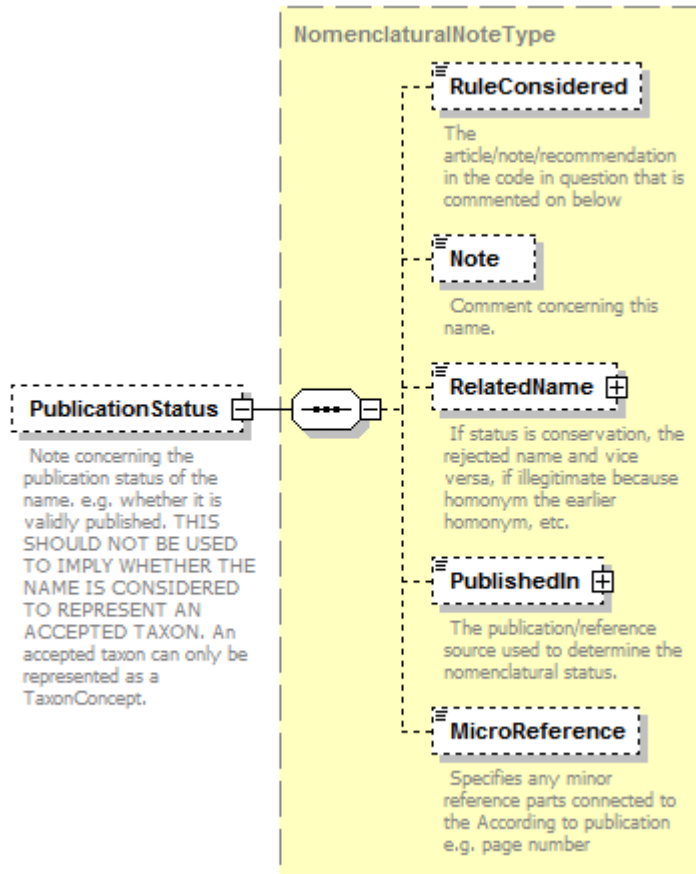
properties

|         |         |
|---------|---------|
| isRef   | 0       |
| minOcc  | 0       |
| maxOcc  | 1       |
| content | complex |

children [RuleConsidered](#) [Note](#) [RelatedName](#) [PublishedIn](#) [MicroReference](#)

## element ScientificName/PublicationStatus

diagram



namespace <http://www.tdwg.org/schemas/tcs/1.01>

type [NomenclaturalNoteType](#)

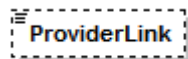
properties

|         |         |
|---------|---------|
| isRef   | 0       |
| minOcc  | 0       |
| maxOcc  | 1       |
| content | complex |

children [RuleConsidered](#) [Note](#) [RelatedName](#) [PublishedIn](#) [MicroReference](#)

## element ScientificName/ProviderLink

diagram



namespace <http://www.tdwg.org/schemas/tcs/1.01>

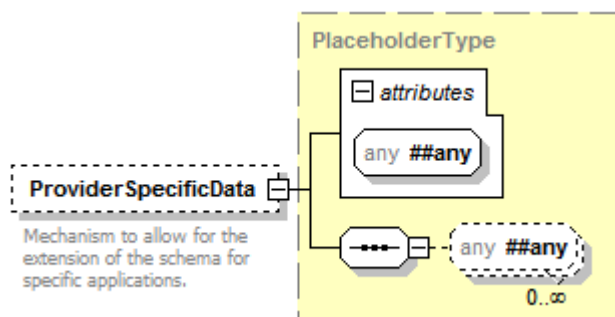
type **xs:string**

properties

|         |        |
|---------|--------|
| isRef   | 0      |
| minOcc  | 0      |
| maxOcc  | 1      |
| content | simple |

## element ScientificName/ProviderSpecificData

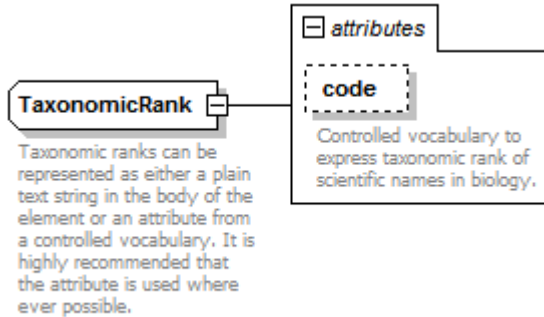
diagram



|            |                                      |         |     |         |       |
|------------|--------------------------------------|---------|-----|---------|-------|
| namespace  | http://www.tdwg.org/schemas/tcs/1.01 |         |     |         |       |
| type       | <a href="#">PlaceholderType</a>      |         |     |         |       |
| properties | isRef                                | 0       |     |         |       |
|            | minOcc                               | 0       |     |         |       |
|            | maxOcc                               | 1       |     |         |       |
|            | content                              | complex |     |         |       |
| attributes | Name                                 | Type    | Use | Default | Fixed |

### complexType **TaxonomicRank**

diagram



|            |                                      |                                                         |          |         |                                     |
|------------|--------------------------------------|---------------------------------------------------------|----------|---------|-------------------------------------|
| namespace  | http://www.tdwg.org/schemas/tcs/1.01 |                                                         |          |         |                                     |
| properties | mixed                                | true                                                    |          |         |                                     |
| used by    | elements                             | <a href="#">DataSet/TaxonConcepts/TaxonConcept/Rank</a> |          |         | <a href="#">ScientificName/Rank</a> |
| attributes | Name                                 | Type                                                    | Use      | Default | Fixed                               |
|            | code                                 | <a href="#">TaxonomicRankEnum</a>                       | optional |         |                                     |

### simpleType **NomenclaturalCodesEnum**

|           |                                      |                                                   |  |  |  |
|-----------|--------------------------------------|---------------------------------------------------|--|--|--|
| namespace | http://www.tdwg.org/schemas/tcs/1.01 |                                                   |  |  |  |
| type      | restriction of <b>xs:Name</b>        |                                                   |  |  |  |
| used by   | attribute                            | <a href="#">ScientificName/@nomenclaturalCode</a> |  |  |  |
| facets    | enumeration                          | Viral                                             |  |  |  |
|           | enumeration                          | Bacteriological                                   |  |  |  |
|           | enumeration                          | Botanical                                         |  |  |  |
|           | enumeration                          | Zoological                                        |  |  |  |
|           | enumeration                          | CultivatedPlant                                   |  |  |  |
|           | enumeration                          | Indeterminate                                     |  |  |  |

### simpleType **NomenclaturalTypeStatusOfUnitsEnum**

|           |                                      |                                                                                  |  |  |  |
|-----------|--------------------------------------|----------------------------------------------------------------------------------|--|--|--|
| namespace | http://www.tdwg.org/schemas/tcs/1.01 |                                                                                  |  |  |  |
| type      | restriction of <b>xs:Name</b>        |                                                                                  |  |  |  |
| used by   | attribute                            | <a href="#">ScientificName/Typification/TypeVouchers/TypeVoucher/@typeOfType</a> |  |  |  |
| facets    | enumeration                          | allo                                                                             |  |  |  |
|           | enumeration                          | allolecto                                                                        |  |  |  |
|           | enumeration                          | alloneo                                                                          |  |  |  |
|           | enumeration                          | co                                                                               |  |  |  |
|           | enumeration                          | epl                                                                              |  |  |  |
|           | enumeration                          | ex                                                                               |  |  |  |
|           | enumeration                          | exepi                                                                            |  |  |  |
|           | enumeration                          | exholo                                                                           |  |  |  |
|           | enumeration                          | exiso                                                                            |  |  |  |
|           | enumeration                          | exlecto                                                                          |  |  |  |
|           | enumeration                          | exneo                                                                            |  |  |  |
|           | enumeration                          | expara                                                                           |  |  |  |
|           | enumeration                          | exsyn                                                                            |  |  |  |
|           | enumeration                          | hapanto                                                                          |  |  |  |
|           | enumeration                          | holo                                                                             |  |  |  |
|           | enumeration                          | icono                                                                            |  |  |  |
|           | enumeration                          | iso                                                                              |  |  |  |
|           | enumeration                          | isolecto                                                                         |  |  |  |
|           | enumeration                          | isoneo                                                                           |  |  |  |
|           | enumeration                          | isosyn                                                                           |  |  |  |
|           | enumeration                          | lecto                                                                            |  |  |  |
|           | enumeration                          | neo                                                                              |  |  |  |
|           | enumeration                          | para                                                                             |  |  |  |
|           | enumeration                          | paralecto                                                                        |  |  |  |

|             |             |
|-------------|-------------|
| enumeration | paraneo     |
| enumeration | plasto      |
| enumeration | plastoholo  |
| enumeration | plastoiso   |
| enumeration | plastolecto |
| enumeration | plastoneo   |
| enumeration | plastopara  |
| enumeration | plastosyn   |
| enumeration | sec         |
| enumeration | supp        |
| enumeration | syn         |
| enumeration | topo        |
| enumeration | type        |
| enumeration | not         |

### simpleType **TaxonomicRankAboveSuperfamilyEnum**

namespace <http://www.tdwg.org/schemas/tcs/1.01>

type restriction of **xs:Name**

used by simpleType [TaxonomicRankEnum](#)

facets

|             |               |
|-------------|---------------|
| enumeration | infraord      |
| enumeration | subord        |
| enumeration | ord           |
| enumeration | superord      |
| enumeration | infracl       |
| enumeration | subcl         |
| enumeration | cl            |
| enumeration | supercl       |
| enumeration | infraphyl_div |
| enumeration | subphyl_div   |
| enumeration | phyl_div      |
| enumeration | superphyl_div |
| enumeration | infrareg      |
| enumeration | subreg        |
| enumeration | reg           |
| enumeration | superreg      |
| enumeration | dom           |
| enumeration | taxsupragen   |

### simpleType **TaxonomicRankBelowSubspeciesEnum**

namespace <http://www.tdwg.org/schemas/tcs/1.01>

type restriction of **xs:Name**

used by simpleType [TaxonomicRankEnum](#)

facets

|             |            |
|-------------|------------|
| enumeration | cand       |
| enumeration | taxinfrasp |
| enumeration | fsp        |
| enumeration | subsubfm   |
| enumeration | subfm      |
| enumeration | fm         |
| enumeration | subsubvar  |
| enumeration | subvar     |
| enumeration | var        |
| enumeration | pv         |
| enumeration | bv         |
| enumeration | infrasp    |

### simpleType **TaxonomicRankCultivatedPlants**

namespace <http://www.tdwg.org/schemas/tcs/1.01>

type restriction of **xs:Name**

used by simpleType [TaxonomicRankEnum](#)

facets

|             |               |
|-------------|---------------|
| enumeration | cv            |
| enumeration | convar        |
| enumeration | grex          |
| enumeration | cvgroup       |
| enumeration | graftchimaera |
| enumeration | denomclass    |

### simpleType **TaxonomicRankEnum**

namespace <http://www.tdwg.org/schemas/tcs/1.01>

type union of ([TaxonomicRankBelowSubspeciesEnum](#), [TaxonomicRankSpeciesGroupEnum](#),

[TaxonomicRankGenusSubdivisionEnum](#), [TaxonomicRankGenusGroupEnum](#),  
[TaxonomicRankFamilySubdivisionEnum](#), [TaxonomicRankFamilyGroupEnum](#),  
[TaxonomicRankAboveSuperfamilyEnum](#), [TaxonomicRankCultivatedPlants](#))

used by attribute [TaxonomicRank/@code](#)

### simpleType **TaxonomicRankFamilyGroupEnum**

namespace <http://www.tdwg.org/schemas/tcs/1.01>

type restriction of **xs:Name**

used by simpleType [TaxonomicRankEnum](#)

facets  
enumeration infrafam  
enumeration subfam  
enumeration fam  
enumeration superfam

### simpleType **TaxonomicRankFamilySubdivisionEnum**

namespace <http://www.tdwg.org/schemas/tcs/1.01>

type restriction of **xs:Name**

used by simpleType [TaxonomicRankEnum](#)

facets  
enumeration infratrib  
enumeration subtrib  
enumeration trib  
enumeration supertrib

### simpleType **TaxonomicRankGenusGroupEnum**

namespace <http://www.tdwg.org/schemas/tcs/1.01>

type restriction of **xs:Name**

used by simpleType [TaxonomicRankEnum](#)

facets  
enumeration infragen  
enumeration subgen  
enumeration gen

### simpleType **TaxonomicRankGenusSubdivisionEnum**

namespace <http://www.tdwg.org/schemas/tcs/1.01>

type restriction of **xs:Name**

used by simpleType [TaxonomicRankEnum](#)

facets  
enumeration aggr  
enumeration taxinfragen  
enumeration subser  
enumeration ser  
enumeration subsect  
enumeration sect

### simpleType **TaxonomicRankSpeciesGroupEnum**

namespace <http://www.tdwg.org/schemas/tcs/1.01>

type restriction of **xs:Name**

used by simpleType [TaxonomicRankEnum](#)

facets  
enumeration subsp\_aggr  
enumeration ssp  
enumeration sp