Changelog - ATLAS Ontology v2.0

Contents

Version IRI: https://w3id.org/dh-atlas/2.0
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1 Highlights

- Introduced two new classes: `atlas:LanguageModel` and `atlas:3DDigitalTwin`

- Added alignment with external ontologies: OntoSoft Ontology, BIBFRAME Ontology

- Removed deprecated namespaces: `foaf`, `swo`

- Multiple RDF property updates and refinements for more precise modelling

2 Updated Namespace Declarations

Table 1: Updated Namespace Declarations

Prefix	URI	Change
bf	id.loc.gov/ontologies/bibframe/	✓ Added
osw	ontosoft.org/software#	✓ Added
foaf	xmlns.com/foaf/0.1	✕ Removed
swo	ebi.ac.uk/swo/	✕ Removed

3 Changes by Research Product Type

3.1 `schema:Dataset` (generic)

3.1.1 Class Overview

Table 2: Class overview by version.

Version	Class	Subclasses
v1.0	`schema:Dataset`	Digital Scholarly Edition, Text Collection, Linked Open Data, Ontology, Software
v2.0	`schema:Dataset`	Digital Scholarly Edition, Text Collection, Linked Open Data, Ontology, Software, Language Model, 3D Digital Twin

3.1.2 Updated Properties

Table 3: Updated RDF Properties in version 2.0

Property Description	Previous RDF Property	New RDF Property	Change Notes
Custom Type	`dct:type`	`dct:type`	Previously used with `fabio:ComputerProgram`. ATLAS recommends using terms from the KNOT Taxonomy.
Size	`schema:size`	`schema:size`	Extended from `atlas:TextCollection` to all Research Products.
Note on Research Product	`atlas:noteOnSource`	`atlas:noteOn-ResearchProduct`	Replaces and generalises previous usage from `atlas:DigitalScholarlyEdition` and `atlas:TextCollection`.
Mentions	—	`schema:mentions`	New property introduced.

3.2 `atlas:Software`

3.2.1 Class Overview

Table 4: Class overview for `atlas:Software`

Version	Class	Subclass Of
v1.0	`atlas:Software`	`schema:Dataset`; `fabio:ComputerProgram`
v2.0	`atlas:Software`	`schema:Dataset`; `schema:SoftwareApplication`

3.2.2 Updated Properties

Table 5: Updated properties for `atlas:Software`

Property Description	Previous RDF Property	New RDF Property
Code Repository URL	`schema:archivedAt`	`osw:hasCodeLocation`
Programming Language	`swo:00000741`	`osw:hasImplementationLanguage`
Input Format	`swo:0000086`	`osw:hasInput`
Output Format	`swo:0000087`	`osw:hasOutput`

Note: All changes adopt OSW terms with equivalent meaning, preferred for consistency across software-related properties.

3.3 `atlas:LinkedOpenData`

3.3.1 Class Overview

Table 6: Class overview for `atlas:LinkedOpenData`

Version	Class	Subclass Of
v1.0	`atlas:LinkedOpenData`	`schema:Dataset`; `fabio:DataFile`
v2.0	`atlas:LinkedOpenData`	`schema:Dataset`

3.3.2 Updated Properties

Table 7: Updated properties for `atlas:LinkedOpenData`

Property Description	Previous RDF Property	New RDF Property	Change Notes
RDF Vocabularies and Ontologies	`dct:references`	`atlas:vocabulary`	Replaces generic reference with `atlas:vocabulary`, which requires a URI identifying a used vocabulary.

3.4 `atlas:DigitalScholarlyEdition`

3.4.1 Class Overview

Table 8: Class overview for `atlas:DigitalScholarlyEdition`

Version	Class	Subclass Of
v1.0	`atlas:DigitalScholarlyEdition`	`schema:Dataset`; `fabio:MetadataDocument`
v2.0	`atlas:DigitalScholarlyEdition`	`schema:Dataset`; `fabio:MetadataDocument`

3.4.2 Updated Properties

Table 9: Updated properties for `atlas:DigitalScholarlyEdition`

Property Description	Previous RDF Property	New RDF Property	Change Notes
Edited Work	`dct:source`	`bf:expressionOf`	More precise modelling.
Original Document(s) or Witness(es)	`dct:references`	`bf:associatedResource`	Clarifies the relationship with source materials.
Note on the Edited Text	`atlas:notesOnSource`	`atlas:noteOnResearchProduct`	Replaces and generalises previous usage from `atlas:DigitalScholarlyEdition` and `atlas:TextCollection`.
Facsimile(s) available at	—	`bf:accompaniedBy`	New property added to indicate linked facsimiles.

3.5 `atlas:TextCollection`

3.5.1 Class Overview

Table 10: Class overview for `atlas:TextCollection`

Version	Class	Subclass Of
v1.0	`atlas:TextCollection`	`schema:Dataset`; `fabio:Anthology`
v2.0	`atlas:TextCollection`	`schema:Dataset`; `fabio:Anthology`

3.5.2 Updated Properties

Table 11: Updated properties for `atlas:TextCollection`

Property Description	Previous RDF Property	New RDF Property	Change Notes
Collected Works	`dct:source`	`bf:expressionOf`	More precise modelling.
Note on the - Text Collection	`atlas:notesOnSource`	`atlas:noteOnResearchProduct`	Replaces and generalises previous usage.
Geographical Coverage	—	`schema:spatialCoverage`	New property introduced.
Temporal Coverage	—	`schema:temporalCoverage`	New property introduced.

3.6 atlas:LanguageModel (new class)

3.6.1 Class Overview

Table 12: Class overview for atlas:LanguageModel

Version	Class	Subclass Of
v2.0	atlas:LanguageModel	schema:Dataset; schema:SoftwareApplication

3.6.2 Properties

Table 13: Properties for atlas:LanguageModel

Property Description	RDF Property	Notes
Task	schema:applicationCategory	Inherited from schema:SoftwareApplication.
Execution Specification	atlas:noteOnResearchProduct	Inherited from schema:Dataset.
Used Libraries	schema:isBasedOn	Inherited from schema:SoftwareApplication.
Parameters Number	schema:size	Inherited from schema:Dataset.
Related Dataset Description	atlas:used → schema:description	Requires a new schema:Dataset instance as the object of atlas:used.
Related Dataset Description	atlas:used → schema:description	Requires a new schema:Dataset instance as the object of atlas:used.

3.7 atlas:3DDigitalTwin (new class)

3.7.1 Class Overview

Table 14: Class overview for atlas:3DDigitalTwin

Version	Class	Subclass Of
v2.0	atlas:3DDigitalTwin	schema:Dataset

3.7.2 Properties

Table 15: Properties for `atlas:3DDigitalTwin`

Property Description	RDF Property	Notes
Has 3D Model	`schema:associatedMedia`	Property to link a 3D model of type `schema:3DModel`.
Reproduces Creative Work	`schema:exampleOfWork`	Property to link the digital twin to a `schema:CreativeWork` (e.g., a cultural heritage object).

4 Access Points

4.1 `schema:WebSite`, `schema:SoftwareApplication`

Table 16: Mappings for access-related classes and properties

Old Term	New Term	Notes
`fabio:WebSite`	`schema:WebSite`	Class mapping for access points - web sites
`fabio:ComputerProgram`	`schema:SoftwareApplication`	Class mapping for software access
`dct:type`	`schema:applicationCategory`	Property used within `schema:SoftwareApplication`

5 Agent Updates

5.1 `schema:Person`, `schema:Organization`, `schema:ResearchProject`

Table 17: Updates to agent modeling

Change	Notes
Removed `foaf:Agent` superclass	Affects both `schema:Person` and `schema:Organization`
Introduced `schema:sameAs`	Supports alignment with external authorities

6   Renamed & Deprecated Terms

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Table 18: Renamed terms in ATLAS v2.0

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Old Name	New Name	Notes
atlas:notesOnSource	atlas:noteOnResearchProduct	Generalised and reused across product types

7   Removed Named Individuals

Several named individuals defined in ATLAS v1.0 have been removed in v2.0. These instances represented either:

- **Edition types**: specific editorial methodologies or strategies;

- **Work types**: categories of literary artefacts such as diaries, letters, or collected works.

7.1   Edition Types

The following individuals, previously used to classify different editorial approaches, have been deprecated. Equivalent concepts are now available in the **Edition Types Vocabulary (ETV)** at https://w3id.org/dh-atlas-vocabularies/etv:

- atlas:BestManuscriptEdition

- atlas:CriticalEdition

- atlas:DiplomaticEdition

- atlas:DocumentaryEdition

- atlas:EclecticEdition

- atlas:MonotypicEdition

- atlas:SynopticEdition

- atlas:DigitalEdition

These terms were moved to a dedicated vocabulary to improve modularity and enable reuse across ontologies.

7.2   Work Types

The following individuals described the type of work or document being edited (e.g., diary, letter, collected works). These have also been removed from the core ontology in v2.0. Equivalent or more precise modelling is expected to rely on external vocabularies or specific metadata fields.

- atlas:CollectedWorks

- `atlas:CollectionOfTexts`

- `atlas:SingleWork`

- `atlas:SingleManuscript`

- `atlas:Chapter`

- `atlas:Diary`

- `atlas:Letter`

- `atlas:Paper`

- `atlas:SerialDocuments`

- `atlas:Inscription`