

GraphArch Documentation and Publication Ontology

Vocabulary reference, model, and publication contract

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Abstract

A vocabulary for collecting source contributions, generating reusable documentation fragments, assembling validated dataset revisions, resolving publication plans, and recording HTML and PDF publication results. It separates the identity of documented resources and logical components from target-specific arrangement and presentation.

Status of This Document

This is the evolving publication-pipeline vocabulary. Earlier `documentation.ttl` and `doc-component-categories.ttl` files are prototype vocabularies, not imports or authoritative definitions of this contract. Version 0.0.1 is a development identifier; immutable releases and persistent namespace hosting remain release work.

1 Model and conformance

Domain and range declarations support RDF inference; they are not closed-world validation rules. Broad `rdfs:Resource` domains and ranges are intentional where properties are reused across resource kinds or identify arbitrary domain resources. Cardinalities, value sets, path safety, markup safety, size budgets, and lifecycle transitions are enforced by the companion SHACL shapes and Rust implementation. Embedded RDF examples illustrate individual relationships; they are not complete build configurations. The ontology imports the Artifact Governance Ontology for authority semantics. Grapharch does not fetch imports implicitly during a documentation build.

2 Classes

2.1 ga:Authority

Label: Publishing authority

A governance role responsible for semantic artifacts or their publication namespaces, distinct from the party playing that role and reusable across publication targets.

IRI: <https://ekgf.org/ontology/grapharch#Authority>

Note: Authority has the meaning defined by the Artifact Governance Ontology in EKGf/ekg-ontologies. Reuse its registered UUIDv4 authority identities. Link the distinct organization or other party with `cmns-rlcmp:isPlayedBy`. Names, hosts, and URLs are metadata, not authority identity keys. The player may be unknown. Display names use `rdfs:label`; canonical abbreviations use `artgov:authorityAcronym`.

RDF predicate	Value
<code>rdf:type</code>	<code>owl:Class</code>
<code>rdfs:isDefinedBy</code>	https://ekgf.org/ontology/grapharch
<code>rdfs:subClassOf</code>	<code>cmns-pts:PartyRole</code>
<code>owl:equivalentClass</code>	<code>artgov:Authority</code>

2.2 ga:BibliographicEntry

Label: Bibliographic entry

An identified bibliographic reference discovered in a source specification and available for citation and reference linking.

IRI: <https://ekgf.org/ontology/grapharch#BibliographicEntry>

RDF predicate	Value
rdf:type	owl:Class
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch

2.3 ga:BinaryAsset

Label: Chunked publication artifact

A retained publication artifact represented by ordered base64 chunks, an output route, a byte count, and a SHA-256 digest.

IRI: <https://ekgf.org/ontology/grapharch#BinaryAsset>

Note: Binary assets include collected images and generated publication artifacts. Fragments and collected references can identify them through ga:asset; publication plans select assets required by scoped content. They are not placeholder fragments. Publication verifies decoded size, SHA-256 digest and supported image content before committing the output.

RDF predicate	Value
rdf:type	owl:Class
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
owl:disjointWith	ga:Fragment

2.4 ga:BookPlan

Label: Book plan

A resolved publication unit grouping selected placements into one book against the publication plan's pinned input revision.

IRI: <https://ekgf.org/ontology/grapharch#BookPlan>

RDF predicate	Value
rdf:type	owl:Class
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch

2.5 ga:BookPublication

Label: Book publication operation

An observed per-book publication operation recording its resolved plan, pinned revision, execution outcome, and generated artifact provenance.

IRI: <https://ekgf.org/ontology/grapharch#BookPublication>

RDF predicate	Value
rdf:type	owl:Class
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:subClassOf	ga:Operation

2.6 ga:Collector

Label: Source collector

A specialized processor that reads one supported kind of native source, recognizes its documentation hints, and contributes normalized RDF with source provenance.

IRI: <https://ekgf.org/ontology/grapharch#Collector>

RDF predicate	Value
rdf:type	owl:Class

RDF predicate	Value
<code>rdfs:isDefinedBy</code>	https://ekgf.org/ontology/grapharch
<code>rdfs:subClassOf</code>	ga:Processor

2.7 ga:Component

Label: Logical component

A logical documentation unit that groups reusable fragments independently of their position in a particular output.

IRI: <https://ekgf.org/ontology/grapharch#Component>

RDF predicate	Value
<code>rdf:type</code>	<code>owl:Class</code>
<code>rdfs:isDefinedBy</code>	https://ekgf.org/ontology/grapharch

2.8 ga:Contribution

Label: Source contribution

A stable ownership unit identifying the output of one processor for one source in one project, whose committed versions may change over time.

IRI: <https://ekgf.org/ontology/grapharch#Contribution>

Note: The stable contribution owner, immutable version identifier, and individual execution attempt are distinct resources. A failed or superseded attempt must not advance the committed head.

RDF predicate	Value
<code>rdf:type</code>	<code>owl:Class</code>
<code>rdfs:isDefinedBy</code>	https://ekgf.org/ontology/grapharch

2.9 ga:DefinedTerm

Label: Defined term

An identified term definition discovered in documentation, retaining its source identity for linking and reference resolution.

IRI: <https://ekgf.org/ontology/grapharch#DefinedTerm>

RDF predicate	Value
<code>rdf:type</code>	<code>owl:Class</code>
<code>rdfs:isDefinedBy</code>	https://ekgf.org/ontology/grapharch

2.10 ga:Diagnostic

Label: Build diagnostic

An identified report of a pipeline problem or observation, linked to its operation, affected resource, input revision, and reusable diagnostic fragment.

IRI: <https://ekgf.org/ontology/grapharch#Diagnostic>

Note: Diagnostics are derived output. They can be rendered as documentation, but do not change the source assertions they report on.

RDF predicate	Value
<code>rdf:type</code>	<code>owl:Class</code>
<code>rdfs:isDefinedBy</code>	https://ekgf.org/ontology/grapharch

2.11 ga:Documentor

Label: Specialized RDF fragment generator

A specialized processor that reads already collected RDF and generates documentation fragments for identified resources without interpreting source-native syntax.

IRI: <https://ekgf.org/ontology/grapharch#Documentor>

RDF predicate	Value
rdf:type	owl:Class
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:subClassOf	ga:Processor

2.12 ga:Entry

Label: Resolved fragment occurrence

A resolved occurrence of one fragment within a component placement in a publication plan, preserving placement and fragment order.

IRI: <https://ekgf.org/ontology/grapharch#Entry>

RDF predicate	Value
rdf:type	owl:Class
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch

2.13 ga:Example

Label: Specification example

An identified example discovered in documentation, such as a fenced code block with its language and source-fragment relationship.

IRI: <https://ekgf.org/ontology/grapharch#Example>

RDF predicate	Value
rdf:type	owl:Class
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch

2.14 ga:ExternalReference

Label: External reference

An identified reference to material addressed by a fragment rather than placed as a documentation subject, including an external repository resource or a retained binary image. Declaring the reference does not itself add a native RDF subject to the publication scope.

IRI: <https://ekgf.org/ontology/grapharch#ExternalReference>

RDF predicate	Value
rdf:type	owl:Class
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch

2.15 ga:Fragment

Label: Documentation fragment

An identified unit of authored or generated content with a body, content format, one or more documented subjects, and contribution provenance.

IRI: <https://ekgf.org/ontology/grapharch#Fragment>

Note: A fragment is reusable across targets. Output position belongs to placements and resolved entries, not to the identity of the documented subject.

RDF predicate	Value
rdf:type	owl:Class
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch

Example:

```
@prefix ga: <https://ekgf.org/ontology/grapharch#> .
<urn:intro> a ga:Fragment ;
  ga:subject <urn:product> ;
  ga:body "An introduction." ;
  ga:format "text/markdown" ;
  ga:contribution <urn:contribution:intro> .
```

2.16 ga:MetadataRow

Label: Publication metadata row

An ordered front-matter record preserving a source publication field, display label, and associated value or link.

IRI: https://ekgf.org/ontology/grapharch#MetadataRow

RDF predicate	Value
rdf:type	owl:Class
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch

2.17 ga:OntologyModule

Label: Ontology module

A named grouping of ontologies or subordinate modules, recognized from explicit source assertions and preserved independently of its publication placement.

IRI: https://ekgf.org/ontology/grapharch#OntologyModule

Note: FIBO Module instances and their dct:hasPart assertions are recognized by the RDF source adapter. Original source assertions are retained. Publication rejects cycles, ambiguous multiple parents, missing members, and hierarchies deeper than eight component levels. Ontologies without explicit module membership remain separate reference chapters.

RDF predicate	Value
rdf:type	owl:Class
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch

2.18 ga:Operation

Label: Pipeline operation

An identified execution of a pipeline stage for which diagnostics and an execution policy can be recorded.

IRI: https://ekgf.org/ontology/grapharch#Operation

RDF predicate	Value
rdf:type	owl:Class
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch

2.19 ga:Page

Label: Website page grouping

An output-oriented grouping of documentation topics with a source path, website route, and navigation hints.

IRI: <https://ekgf.org/ontology/grapharch#Page>

RDF predicate	Value
rdf:type	owl:Class
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch

2.20 ga:Placement

Label: Component placement

A profile-specific occurrence of a logical component with an explicit position, independent of that component and its reusable fragments.

IRI: <https://ekgf.org/ontology/grapharch#Placement>

RDF predicate	Value
rdf:type	owl:Class
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch

Example:

```
@prefix ga: <https://ekgf.org/ontology/grapharch#> .
<urn:reader> a ga:Profile ;
    ga:placement <urn:intro:placement> .
<urn:intro:placement> a ga:Placement ;
    ga:component <urn:introduction> ;
    ga:order 0 .
```

2.21 ga:Plan

Label: Publication plan

A resolved publication instruction set selecting content, ordered entries, and assets for one target against a pinned input revision.

IRI: <https://ekgf.org/ontology/grapharch#Plan>

Note: A plan and its input content must be read through their pinned snapshots. Plan contributions and diagnostics do not become source contribution heads for later assembly.

RDF predicate	Value
rdf:type	owl:Class
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch

2.22 ga:Processor

Label: Contribution processor

An identified pipeline participant that owns reproducible contributions to a documentation project at a declared lifecycle stage.

IRI: <https://ekgf.org/ontology/grapharch#Processor>

Note: Processor identity denotes a configured contribution owner; it does not imply a separate operating-system process or separately distributed binary.

RDF predicate	Value
rdf:type	owl:Class
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch

2.23 ga:Profile

Label: Publication profile

An identified arrangement of logical components for a publication audience or purpose, expressed through ordered placements.

IRI: <https://ekgf.org/ontology/grapharch#Profile>

RDF predicate	Value
rdf:type	owl:Class
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch

2.24 ga:Project

Label: Documentation project

An identified documentation configuration whose sources, processors, scopes, profiles, and publication targets share a logical RDF dataset.

IRI: <https://ekgf.org/ontology/grapharch#Project>

RDF predicate	Value
rdf:type	owl:Class
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch

Example:

```
@prefix ga: <https://ekgf.org/ontology/grapharch#> .
<urn:manual> a ga:Project ;
    ga:target <urn:manual:web> .
```

2.25 ga:PublicationJob

Label: Publication job

A recorded rendering attempt for a target and pinned plan, including its execution policy, outcome, diagnostic count, and output location when published.

IRI: <https://ekgf.org/ontology/grapharch#PublicationJob>

Note: Output locations can be local execution artifacts. They are not necessarily public URLs and are not inputs required to reconstruct source documentation.

RDF predicate	Value
rdf:type	owl:Class
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:subClassOf	ga:Operation

2.26 ga:ReferenceSection

Label: Reference section

A source-owned title and ordering override for one kind of resource section in an ontology family reference.

IRI: <https://ekgf.org/ontology/grapharch#ReferenceSection>

Note: Use `ga:sectionKind` to select classes, properties, individuals, shapes, schemes, concepts, collections, or other; `dct:title` supplies one English or untagged plain-text heading; `ga:order` supplies a distinct integer from 0 to 1000. Defaults are Classes (10), Properties (20), Named Individuals (30), Shapes (40), Concept Schemes (41), Concepts (42), Collections (43), and Other Terms (50). Empty categories are omitted. Overrides rename and reorder categories without suppressing resources. SKOS

schemes, concepts, and collections take precedence over other declared types; then named individuals, classes, properties, shapes, and other terms.

RDF predicate	Value
rdf:type	owl:Class
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch

2.27 ga:Revision

Label: Assembled dataset revision

An identified documentation dataset state accepted by assembly for a project, against which scope resolution and publication planning can operate.

IRI: <https://ekgf.org/ontology/grapharch#Revision>

Note: Assembly validates the selected source and document contributions. A captured contribution snapshot is not automatically an assembled, publishable revision. Revision resources are not Oxigraph transaction identifiers.

RDF predicate	Value
rdf:type	owl:Class
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch

2.28 ga:Scope

Label: Documentation scope

A reusable selection of documentable resources defined by inclusions, exclusions, composition, and explicitly bounded relationship traversal.

IRI: <https://ekgf.org/ontology/grapharch#Scope>

Note: Scope membership is explicit. A reference to an external resource does not imply inclusion. Traversal requires a declared maximum depth; cyclic composition is rejected.

RDF predicate	Value
rdf:type	owl:Class
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch

Example:

```
@prefix ga: <https://ekgf.org/ontology/grapharch#> .
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
<urn:scope> a ga:Scope ;
    ga:include <urn:root> ;
    ga:traverse rdfs:subClassOf ;
    ga:maxDepth 2 .
```

2.29 ga:ScopePlan

Label: Resolved scope plan

An evaluated scope result recording the selected documentable members for a particular input revision.

IRI: <https://ekgf.org/ontology/grapharch#ScopePlan>

RDF predicate	Value
rdf:type	owl:Class
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch

2.30 ga:Section

Label: Specification section

An identified section discovered in a source specification, retaining its source-document relationship and native anchors.

IRI: <https://ekgf.org/ontology/grapharch#Section>

RDF predicate	Value
rdf:type	owl:Class
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch

2.31 ga:Showcase

Label: Executable documentation showcase

An executable documentation example connecting native inputs and expected diagnostics to generated previews, PDFs, other outputs, and an exported dataset.

IRI: <https://ekgf.org/ontology/grapharch#Showcase>

RDF predicate	Value
rdf:type	owl:Class
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch

2.32 ga:Target

Label: Publication target

A named publication configuration binding one scope, one presentation profile, a renderer, and a relative output destination.

IRI: <https://ekgf.org/ontology/grapharch#Target>

Note: A project can define separate specification, companion-website, and document targets with different scopes and profiles. Targets are publications, not merely alternative styling choices. Plans for a publication family can share one assembled input revision while retaining independent placement and execution records.

RDF predicate	Value
rdf:type	owl:Class
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch

Example:

```
@prefix ga: <https://ekgf.org/ontology/grapharch#> .
<urn:manual:web> a ga:Target ;
  ga:scope <urn:scope> ;
  ga:profile <urn:reader> ;
  ga:renderer "html" ;
  ga:destination "reader" .
```

2.33 ga:TextAsset

Label: Collected UTF-8 download

A collected UTF-8 text resource retained in the documentation graph for publication as a downloadable file.

IRI: <https://ekgf.org/ontology/grapharch#TextAsset>

RDF predicate	Value
rdf:type	owl:Class
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:subClassOf	ga:Fragment

2.34 ga:Topic

Label: Documentation topic

A logical documentation component with stable identity, reusable fragments, and optional parent-topic and example relationships.

IRI: <https://ekgf.org/ontology/grapharch#Topic>

RDF predicate	Value
rdf:type	owl:Class
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:subClassOf	ga:Component

3 Object properties

3.1 ga:about

Label: Diagnosed artifact

Identifies the resource or artifact to which a diagnostic applies.

IRI: <https://ekgf.org/ontology/grapharch#about>

RDF predicate	Value
rdf:type	owl:ObjectProperty
rdfs:domain	ga:Diagnostic
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	rdfs:Resource

3.2 ga:artifactDirectory

Label: Published artifact directory

Identifies the directory in which a successful publication job wrote its output files; a local file IRI records execution provenance rather than a portable download URL.

IRI: <https://ekgf.org/ontology/grapharch#artifactDirectory>

RDF predicate	Value
rdf:type	owl:ObjectProperty
rdfs:domain	ga:PublicationJob
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	rdfs:Resource

3.3 ga:asset

Label: Retained binary asset

Identifies a retained binary artifact referenced by a documentation fragment or collected reference, or selected by a publication plan for emission alongside rendered documentation.

IRI: <https://ekgf.org/ontology/grapharch#asset>

Note: A fragment or reference can identify an image before publication planning. A plan selects the retained assets needed by its scoped content. Referencing an asset does not classify its owner as a publication plan and does not authorize network access during rendering.

RDF predicate	Value
rdf:type	owl:ObjectProperty
rdfs:domain	rdfs:Resource
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	ga:BinaryAsset

3.4 ga:attempt

Label: Owning contribution attempt

Associates a physical retained graph with the contribution attempt that wrote it.

IRI: <https://ekgf.org/ontology/grapharch#attempt>

RDF predicate	Value
rdf:type	owl:ObjectProperty
rdfs:domain	rdfs:Resource
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	rdfs:Resource

3.5 ga:author

Label: Document author

Identifies a contributor credited as an author of a specification.

IRI: <https://ekgf.org/ontology/grapharch#author>

RDF predicate	Value
rdf:type	owl:ObjectProperty
rdfs:domain	ga:Target
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	rdfs:Resource

3.6 ga:bookPlacement

Label: Book placement

Includes a selected placement in exactly one resolved book.

IRI: <https://ekgf.org/ontology/grapharch#bookPlacement>

RDF predicate	Value
rdf:type	owl:ObjectProperty
rdfs:domain	ga:BookPlan
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	ga:Placement

3.7 ga:bookPlan

Label: Book plan

Links a resolved family plan to one of its module or standalone ontology books.

IRI: <https://ekgf.org/ontology/grapharch#bookPlan>

RDF predicate	Value
rdf:type	owl:ObjectProperty
rdfs:domain	ga:Plan
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	ga:BookPlan

3.8 ga:bookRoot

Label: Book root

Identifies the root placement of a resolved book.

IRI: <https://ekgf.org/ontology/grapharch#bookRoot>

RDF predicate	Value
rdf:type	owl:ObjectProperty
rdfs:domain	ga:BookPlan
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	ga:Placement

3.9 ga:bookSubject

Label: Book subject

Identifies the module or ontology documented by a resolved book.

IRI: <https://ekgf.org/ontology/grapharch#bookSubject>

RDF predicate	Value
rdf:type	owl:ObjectProperty
rdfs:domain	ga:BookPlan
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	rdfs:Resource

3.10 ga:chunk

Label: Ordered artifact content chunk

Identifies an ordered base64 content chunk of a retained binary artifact.

IRI: <https://ekgf.org/ontology/grapharch#chunk>

RDF predicate	Value
rdf:type	owl:ObjectProperty
rdfs:domain	ga:BinaryAsset
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	rdfs:Resource

3.11 ga:collector

Label: Configured collector or executing processor

Associates a project with a configured collector, or a contribution attempt with the processor executing its stage.

IRI: <https://ekgf.org/ontology/grapharch#collector>

Note: Project declarations use collector instances. Internal attempt metadata also uses this property for documentors and other processors; its range is therefore [ga:Processor](#) rather than [ga:Collector](#).

RDF predicate	Value
rdf:type	owl:ObjectProperty
rdfs:domain	rdfs:Resource
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	ga:Processor

3.12 ga:component

Label: Logical component

Associates a placement or resolved entry with the logical component whose fragments are being arranged.

IRI: <https://ekgf.org/ontology/grapharch#component>

RDF predicate	Value
rdf:type	owl:ObjectProperty
rdfs:domain	rdfs:Resource
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	ga:Component

3.13 ga:compose

Label: Composed scope

Includes the selection of another documentation scope in the scope being defined, subject to bounded traversal and exclusion rules.

IRI: <https://ekgf.org/ontology/grapharch#compose>

RDF predicate	Value
rdf:type	owl:ObjectProperty
rdfs:domain	ga:Scope
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	ga:Scope

3.14 ga:contribution

Label: Source contribution

Identifies the stable processor-owned contribution from which a documentation fragment or retained asset originates.

IRI: <https://ekgf.org/ontology/grapharch#contribution>

RDF predicate	Value
rdf:type	owl:ObjectProperty
rdfs:domain	rdfs:Resource
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	ga:Contribution

3.15 ga:currentRevision

Label: Current validated project revision

Identifies the most recently accepted assembled revision of a documentation project.

IRI: <https://ekgf.org/ontology/grapharch#currentRevision>

RDF predicate	Value
rdf:type	owl:ObjectProperty
rdfs:domain	ga:Project
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	ga:Revision

3.16 ga:data

Label: Retained contribution data

Associates a committed contribution version with the retained attempt whose physical graphs contain its assertions.

IRI: <https://ekgf.org/ontology/grapharch#data>

RDF predicate	Value
rdf:type	owl:ObjectProperty
rdfs:domain	rdfs:Resource
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	rdfs:Resource

3.17 ga:datasetArtifact

Label: Exported showcase dataset

Identifies the retained RDF dataset export offered for a showcase.

IRI: <https://ekgf.org/ontology/grapharch#datasetArtifact>

RDF predicate	Value
rdf:type	owl:ObjectProperty
rdfs:domain	ga:Showcase
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	ga:BinaryAsset

3.18 ga:derivedFrom

Label: Source documentation fragment

Identifies the source documentation fragment from which a topic, example, or other documentation construct was derived.

IRI: <https://ekgf.org/ontology/grapharch#derivedFrom>

RDF predicate	Value
rdf:type	owl:ObjectProperty
rdfs:domain	rdfs:Resource
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	ga:Fragment

3.19 ga:diagnostic

Label: Operation diagnostic

Associates a pipeline operation or publication job with a recorded diagnostic.

IRI: <https://ekgf.org/ontology/grapharch#diagnostic>

RDF predicate	Value
rdf:type	owl:ObjectProperty
rdfs:domain	rdfs:Resource
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	ga:Diagnostic

3.20 ga:editor

Label: Document editor

Identifies a contributor credited as an editor of a specification.

IRI: <https://ekgf.org/ontology/grapharch#editor>

RDF predicate	Value
rdf:type	owl:ObjectProperty
rdfs:domain	ga:Target
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	rdfs:Resource

3.21 ga:editorDraft

Label: Latest editor draft

Identifies the public location of the latest editor-maintained draft of a document.

IRI: <https://ekgf.org/ontology/grapharch#editorDraft>

RDF predicate	Value
rdf:type	owl:ObjectProperty
rdfs:domain	ga:Target
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	rdfs:Resource

3.22 ga:entry

Label: Publication plan entry

Associates a resolved publication plan with one of its ordered fragment occurrences.

IRI: <https://ekgf.org/ontology/grapharch#entry>

RDF predicate	Value
rdf:type	owl:ObjectProperty
rdfs:domain	ga:Plan
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	ga:Entry

3.23 ga:example

Label: Topic code example

Associates a logical documentation topic with an identified code example.

IRI: <https://ekgf.org/ontology/grapharch#example>

RDF predicate	Value
rdf:type	owl:ObjectProperty

RDF predicate	Value
rdfs:domain	ga:Topic
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	ga:Example

3.24 ga:exclude

Label: Excluded scope member

Identifies a resource excluded from the resolved members of a documentation scope.

IRI: <https://ekgf.org/ontology/grapharch#exclude>

RDF predicate	Value
rdf:type	owl:ObjectProperty
rdfs:domain	ga:Scope
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	rdfs:Resource

3.25 ga:failed

Label: Failed contribution attempt

Associates a stable contribution owner with a failed attempt retained for failure reporting without replacing its committed head.

IRI: <https://ekgf.org/ontology/grapharch#failed>

RDF predicate	Value
rdf:type	owl:ObjectProperty
rdfs:domain	ga:Contribution
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	rdfs:Resource

3.26 ga:formerEditor

Label: Former document editor

Identifies a contributor credited as a former editor of a specification.

IRI: <https://ekgf.org/ontology/grapharch#formerEditor>

RDF predicate	Value
rdf:type	owl:ObjectProperty
rdfs:domain	ga:Target
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	rdfs:Resource

3.27 ga:fragment

Label: Documentation fragment

Associates a component, plan entry, or diagnostic with a reusable documentation fragment.

IRI: <https://ekgf.org/ontology/grapharch#fragment>

RDF predicate	Value
rdf:type	owl:ObjectProperty

RDF predicate	Value
<code>rdfs:domain</code>	<code>rdfs:Resource</code>
<code>rdfs:isDefinedBy</code>	https://ekgf.org/ontology/grapharch
<code>rdfs:range</code>	ga:Fragment

3.28 ga:head

Label: Committed contribution head

Associates a stable contribution owner with its current committed version in control metadata, or with a pinned version in a snapshot graph.

IRI: <https://ekgf.org/ontology/grapharch#head>

Note: Its interpretation depends on graph context: the control graph holds mutable current heads, while snapshot graphs retain immutable selections. Querying all graphs without snapshot selection can mix revisions.

RDF predicate	Value
<code>rdf:type</code>	<code>owl:ObjectProperty</code>
<code>rdfs:domain</code>	ga:Contribution
<code>rdfs:isDefinedBy</code>	https://ekgf.org/ontology/grapharch
<code>rdfs:range</code>	<code>rdfs:Resource</code>

Example:

```
@prefix ga: <https://ekgf.org/ontology/grapharch#> .
<urn:owner> ga:head <urn:version:one> .
```

3.29 ga:implementationReport

Label: Implementation report

Identifies the report describing implementations of a specification.

IRI: <https://ekgf.org/ontology/grapharch#implementationReport>

RDF predicate	Value
<code>rdf:type</code>	<code>owl:ObjectProperty</code>
<code>rdfs:domain</code>	ga:Target
<code>rdfs:isDefinedBy</code>	https://ekgf.org/ontology/grapharch
<code>rdfs:range</code>	<code>rdfs:Resource</code>

3.30 ga:include

Label: Included scope seed

Identifies a resource explicitly included as a seed member of a documentation scope.

IRI: <https://ekgf.org/ontology/grapharch#include>

RDF predicate	Value
<code>rdf:type</code>	<code>owl:ObjectProperty</code>
<code>rdfs:domain</code>	ga:Scope
<code>rdfs:isDefinedBy</code>	https://ekgf.org/ontology/grapharch
<code>rdfs:range</code>	<code>rdfs:Resource</code>

3.31 ga:inputRevision

Label: Pinned input revision

Identifies the pinned input dataset state against which a plan, operation, diagnostic, or publication job was produced.

IRI: <https://ekgf.org/ontology/grapharch#inputRevision>

RDF predicate	Value
rdf:type	owl:ObjectProperty
rdfs:domain	rdfs:Resource
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	rdfs:Resource

3.32 ga:latestRecommendation

Label: Latest recommendation

Identifies the latest recommendation referenced in specification front matter.

IRI: <https://ekgf.org/ontology/grapharch#latestRecommendation>

RDF predicate	Value
rdf:type	owl:ObjectProperty
rdfs:domain	ga:Target
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	rdfs:Resource

3.33 ga:latestVersion

Label: Latest published document version

Identifies the public location of the latest published version of a document.

IRI: <https://ekgf.org/ontology/grapharch#latestVersion>

RDF predicate	Value
rdf:type	owl:ObjectProperty
rdfs:domain	ga:Target
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	rdfs:Resource

3.34 ga:license

Label: Document license

Identifies the license governing the published document or its documented content.

IRI: <https://ekgf.org/ontology/grapharch#license>

RDF predicate	Value
rdf:type	owl:ObjectProperty
rdfs:domain	rdfs:Resource
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	rdfs:Resource

3.35 ga:member

Label: Resolved scope member

Identifies a documentable resource selected into an evaluated scope plan.

IRI: <https://ekgf.org/ontology/grapharch#member>

RDF predicate	Value
rdf:type	owl:ObjectProperty
rdfs:domain	ga:ScopePlan
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	rdfs:Resource

3.36 [ga:metadataRow](#)

Label: Metadata row

Associates a publication target with an ordered front-matter metadata record retained from its source.

IRI: <https://ekgf.org/ontology/grapharch#metadataRow>

RDF predicate	Value
rdf:type	owl:ObjectProperty
rdfs:domain	ga:Target
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	ga:MetadataRow

3.37 [ga:moduleMember](#)

Label: Module member

Relates an explicitly declared ontology module to one of its named ontologies or subordinate modules without inferring containment from directories or imports.

IRI: <https://ekgf.org/ontology/grapharch#moduleMember>

RDF predicate	Value
rdf:type	owl:ObjectProperty
rdfs:domain	ga:OntologyModule
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	rdfs:Resource

3.38 [ga:orcid](#)

Label: Contributor ORCID

Identifies the ORCID record associated with a publication contributor.

IRI: <https://ekgf.org/ontology/grapharch#orcid>

RDF predicate	Value
rdf:type	owl:ObjectProperty
rdfs:domain	rdfs:Resource
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	rdfs:Resource

3.39 [ga:outputArtifact](#)

Label: Showcase publication output

Identifies a retained publication output belonging to a showcase, including outputs beyond its primary preview and PDF.

IRI: <https://ekgf.org/ontology/grapharch#outputArtifact>

RDF predicate	Value
rdf:type	owl:ObjectProperty
rdfs:domain	ga:Showcase
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	ga:BinaryAsset

3.40 ga:parentPlacement

Label: Parent placement

Places a documentation component beneath an earlier component in the same publication, preserving its parent hierarchy in a pinned publication plan.

IRI: <https://ekgf.org/ontology/grapharch#parentPlacement>

RDF predicate	Value
rdf:type	owl:ObjectProperty
rdfs:domain	ga:Placement
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	ga:Placement

3.41 ga:parentTopic

Label: Enclosing logical topic

Identifies the enclosing logical topic of a documentation topic, independently of filesystem directory layout.

IRI: <https://ekgf.org/ontology/grapharch#parentTopic>

RDF predicate	Value
rdf:type	owl:ObjectProperty
rdfs:domain	ga:Topic
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	ga:Topic

3.42 ga:partOf

Label: Containing source document

Identifies the containing document, page, or logical topic of a collected documentation construct.

IRI: <https://ekgf.org/ontology/grapharch#partOf>

RDF predicate	Value
rdf:type	owl:ObjectProperty
rdfs:domain	rdfs:Resource
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	rdfs:Resource

3.43 ga:pdfArtifact

Label: Primary PDF output

Identifies the retained PDF artifact offered for a showcase.

IRI: <https://ekgf.org/ontology/grapharch#pdfArtifact>

RDF predicate	Value
rdf:type	owl:ObjectProperty
rdfs:domain	ga:Showcase
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	ga:BinaryAsset

3.44 ga:pending

Label: Pending contribution attempt

Associates a stable contribution owner with its active uncommitted attempt; starting a newer attempt supersedes the pending attempt.

IRI: <https://ekgf.org/ontology/grapharch#pending>

RDF predicate	Value
rdf:type	owl:ObjectProperty
rdfs:domain	ga:Contribution
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	rdfs:Resource

3.45 ga:placement

Label: Component placement

Associates a publication profile or resolved plan entry with a target-specific component occurrence.

IRI: <https://ekgf.org/ontology/grapharch#placement>

RDF predicate	Value
rdf:type	owl:ObjectProperty
rdfs:domain	rdfs:Resource
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	ga:Placement

3.46 ga:plan

Label: Rendered publication plan

Identifies the resolved publication plan rendered by a publication job.

IRI: <https://ekgf.org/ontology/grapharch#plan>

RDF predicate	Value
rdf:type	owl:ObjectProperty
rdfs:domain	ga:PublicationJob
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	ga:Plan

3.47 ga:planSnapshot

Label: Pinned plan snapshot

Identifies the pinned contribution snapshot containing the resolved publication plan used by a rendering job.

IRI: <https://ekgf.org/ontology/grapharch#planSnapshot>

RDF predicate	Value
rdf:type	owl:ObjectProperty
rdfs:domain	ga:PublicationJob
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	rdfs:Resource

3.48 ga:previewArtifact

Label: Primary HTML preview

Identifies the retained HTML artifact used as the primary live preview of a showcase.

IRI: <https://ekgf.org/ontology/grapharch#previewArtifact>

RDF predicate	Value
rdf:type	owl:ObjectProperty
rdfs:domain	ga:Showcase
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	ga:BinaryAsset

3.49 ga:previousVersion

Label: Previous document version

Identifies the public location of the preceding version of a document.

IRI: <https://ekgf.org/ontology/grapharch#previousVersion>

RDF predicate	Value
rdf:type	owl:ObjectProperty
rdfs:domain	ga:Target
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	rdfs:Resource

3.50 ga:processor

Label: Owning processor

Identifies the processor that owns a contribution, including a collector, documentor, or other pipeline processor.

IRI: <https://ekgf.org/ontology/grapharch#processor>

RDF predicate	Value
rdf:type	owl:ObjectProperty
rdfs:domain	ga:Contribution
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	ga:Processor

3.51 ga:profile

Label: Publication profile

Associates a publication target or resolved plan with the profile defining its component arrangement.

IRI: <https://ekgf.org/ontology/grapharch#profile>

RDF predicate	Value
rdf:type	owl:ObjectProperty
rdfs:domain	rdfs:Resource
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	ga:Profile

3.52 ga:project

Label: Documentation project

Identifies the documentation project to which a contribution, execution attempt, resolved plan, or publication job belongs.

IRI: <https://ekgf.org/ontology/grapharch#project>

RDF predicate	Value
rdf:type	owl:ObjectProperty
rdfs:domain	rdfs:Resource
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	ga:Project

3.53 ga:publisher

Label: Specification publisher

Identifies the publishing authority responsible for a specification target.

IRI: <https://ekgf.org/ontology/grapharch#publisher>

RDF predicate	Value
rdf:type	owl:ObjectProperty
rdfs:domain	ga:Target
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	ga:Authority

3.54 ga:reference

Label: Referenced resource

Identifies a resource referenced by a documentation fragment and checked during assembly and publication planning.

IRI: <https://ekgf.org/ontology/grapharch#reference>

RDF predicate	Value
rdf:type	owl:ObjectProperty
rdfs:domain	rdfs:Resource
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	rdfs:Resource

3.55 ga:referenceSection

Label: Reference section override

Associates an ontology with a named reference section override controlling the title and order of one resource category.

IRI: <https://ekgf.org/ontology/grapharch#referenceSection>

RDF predicate	Value
rdf:type	owl:ObjectProperty
rdfs:domain	owl:Ontology
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	ga:ReferenceSection

3.56 ga:repository

Label: Project source repository

Identifies the source repository of a documentation project, enabling source links and repository-specific presentation.

IRI: <https://ekgf.org/ontology/grapharch#repository>

RDF predicate	Value
rdf:type	owl:ObjectProperty
rdfs:domain	ga:Project
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	rdfs:Resource

3.57 ga:scope

Label: Documentation scope

Associates a project, target, or evaluated scope plan with the reusable documentation scope that it configures or resolves.

IRI: <https://ekgf.org/ontology/grapharch#scope>

RDF predicate	Value
rdf:type	owl:ObjectProperty
rdfs:domain	rdfs:Resource
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	ga:Scope

3.58 ga:scopePlan

Label: Resolved scope plan

Identifies the evaluated scope result used to select the content of a publication plan.

IRI: <https://ekgf.org/ontology/grapharch#scopePlan>

RDF predicate	Value
rdf:type	owl:ObjectProperty
rdfs:domain	ga:Plan
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	ga:ScopePlan

3.59 ga:showcase

Label: Project showcase

Associates a documentation project with an executable showcase included in its gallery.

IRI: <https://ekgf.org/ontology/grapharch#showcase>

RDF predicate	Value
rdf:type	owl:ObjectProperty
rdfs:domain	ga:Project
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	ga:Showcase

3.60 ga:sourceFragment

Label: Affected source fragment

Identifies the existing documentation fragment affected by a diagnostic, when the problem can be located to a fragment.

IRI: <https://ekgf.org/ontology/grapharch#sourceFragment>

RDF predicate	Value
rdf:type	owl:ObjectProperty
rdfs:domain	ga:Diagnostic
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	ga:Fragment

3.61 ga:statusUrl

Label: Publication status URL

Identifies the explanatory web page linked from a specification publication-status label.

IRI: <https://ekgf.org/ontology/grapharch#statusUrl>

RDF predicate	Value
rdf:type	owl:ObjectProperty
rdfs:domain	ga:Target
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	rdfs:Resource

3.62 ga:subject

Label: Documented subject

Identifies a documentable resource described by a fragment, independently of that resource being selected for a particular output.

IRI: <https://ekgf.org/ontology/grapharch#subject>

RDF predicate	Value
rdf:type	owl:ObjectProperty
rdfs:domain	rdfs:Resource
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	rdfs:Resource

3.63 ga:target

Label: Publication target

Associates a project, publication plan, or publication job with the publication target being configured, resolved, or rendered.

IRI: <https://ekgf.org/ontology/grapharch#target>

RDF predicate	Value
rdf:type	owl:ObjectProperty
rdfs:domain	rdfs:Resource
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	ga:Target

3.64 ga:testSuite

Label: Publication test suite

Identifies the test suite associated with a specification.

IRI: <https://ekgf.org/ontology/grapharch#testSuite>

RDF predicate	Value
rdf:type	owl:ObjectProperty
rdfs:domain	ga:Target
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	rdfs:Resource

3.65 ga:thisVersion

Label: This published document version

Identifies the public location of the particular document version described by the publication metadata.

IRI: <https://ekgf.org/ontology/grapharch#thisVersion>

RDF predicate	Value
rdf:type	owl:ObjectProperty
rdfs:domain	ga:Target
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	rdfs:Resource

3.66 ga:topic

Label: Document topic

Associates a page or documentation construct with an identified logical documentation topic.

IRI: <https://ekgf.org/ontology/grapharch#topic>

RDF predicate	Value
rdf:type	owl:ObjectProperty
rdfs:domain	rdfs:Resource
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	ga:Topic

3.67 ga:traverse

Label: Traversal predicate

Identifies an RDF predicate along which scope resolution may follow outgoing relationships from included resources.

IRI: <https://ekgf.org/ontology/grapharch#traverse>

RDF predicate	Value
rdf:type	owl:ObjectProperty
rdfs:domain	ga:Scope
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	rdf:Property

3.68 ga:validatedFor

Label: Project for which a revision was validated

Identifies the project for which assembly accepted a dataset revision as publishable input.

IRI: <https://ekgf.org/ontology/grapharch#validatedFor>

RDF predicate	Value
rdf:type	owl:ObjectProperty
rdfs:domain	ga:Revision
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	ga:Project

3.69 ga:version

Label: Contribution version

Associates a contribution attempt with its reproducible version identifier, which can be finalized before commit.

IRI: <https://ekgf.org/ontology/grapharch#version>

RDF predicate	Value
rdf:type	owl:ObjectProperty
rdfs:domain	rdfs:Resource
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	rdfs:Resource

4 Datatype properties

4.1 ga:accentColor

Label: Authority accent color

Specifies the six-digit hexadecimal RGB color used for authority accents in a rendered publication.

IRI: <https://ekgf.org/ontology/grapharch#accentColor>

Note: The current renderer requires a value matching `#[0-9A-Fa-f]{6}`.

RDF predicate	Value
rdf:type	owl:DatatypeProperty
rdfs:domain	ga:Authority
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	xsd:string

4.2 ga:affiliation

Label: Editor affiliation

Records the organization affiliation displayed for a publication contributor.

IRI: <https://ekgf.org/ontology/grapharch#affiliation>

RDF predicate	Value
rdf:type	owl:DatatypeProperty
rdfs:domain	rdfs:Resource
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	xsd:string

4.3 ga:base64

Label: Base64-encoded chunk bytes

Contains the base64 encoding of the bytes in one retained binary-artifact chunk.

IRI: <https://ekgf.org/ontology/grapharch#base64>

Note: The current encoding uses canonical base64 text in an xsd:string literal, not an xsd:base64Binary typed literal.

RDF predicate	Value
rdf:type	owl:DatatypeProperty
rdfs:domain	rdfs:Resource
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	xsd:string

4.4 ga:body

Label: Content body

Contains the literal content of a documentation fragment or collected text resource, interpreted according to its declared format.

IRI: <https://ekgf.org/ontology/grapharch#body>

RDF predicate	Value
rdf:type	owl:DatatypeProperty
rdfs:domain	rdfs:Resource
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	xsd:string

4.5 ga:bookBoundary

Label: Book boundary

Overrides automatic leaf-module book selection: true makes this module and its descendants one book; false treats it as a series.

IRI: <https://ekgf.org/ontology/grapharch#bookBoundary>

RDF predicate	Value
rdf:type	owl:DatatypeProperty
rdfs:domain	ga:OntologyModule
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	xsd:boolean

4.6 ga:code

Label: Stable diagnostic code

Records the stable machine-readable diagnostic category used by automation and expected-diagnostic checks.

IRI: <https://ekgf.org/ontology/grapharch#code>

RDF predicate	Value
rdf:type	owl:DatatypeProperty
rdfs:domain	ga:Diagnostic
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	xsd:string

4.7 ga:contentDigest

Label: Artifact SHA-256 digest

Records the lowercase hexadecimal SHA-256 digest of the complete decoded artifact bytes.

IRI: <https://ekgf.org/ontology/grapharch#contentDigest>

RDF predicate	Value
rdf:type	owl:DatatypeProperty
rdfs:domain	ga:BinaryAsset
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	xsd:string

4.8 ga:contentSize

Label: Artifact byte count

Records the nonnegative number of decoded bytes in the complete retained artifact.

IRI: <https://ekgf.org/ontology/grapharch#contentSize>

RDF predicate	Value
rdf:type	owl:DatatypeProperty
rdfs:domain	ga:BinaryAsset
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	xsd:integer

4.9 ga:copyright

Label: Document copyright statement

Contains the copyright and rights notice displayed for a publication.

IRI: <https://ekgf.org/ontology/grapharch#copyright>

RDF predicate	Value
rdf:type	owl:DatatypeProperty
rdfs:domain	rdfs:Resource
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	xsd:string

4.10 ga:destination

Label: Output destination

Specifies a safe relative directory within an output root in which a target publishes its generated files.

IRI: <https://ekgf.org/ontology/grapharch#destination>

RDF predicate	Value
rdf:type	owl:DatatypeProperty
rdfs:domain	union of ga:Plan , ga:Target
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	xsd:string

4.11 ga:diagnosticCount

Label: Diagnostic count

Records the number of diagnostics associated with a pipeline operation or publication job.

IRI: <https://ekgf.org/ontology/grapharch#diagnosticCount>

RDF predicate	Value
rdf:type	owl:DatatypeProperty
rdfs:domain	rdfs:Resource
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	xsd:integer

4.12 ga:executionPolicy

Label: Execution failure policy

Records whether an operation stops at the first error or continues to collect diagnostics and produce permitted diagnostic output.

IRI: <https://ekgf.org/ontology/grapharch#executionPolicy>

Note: Current policy values are fail-fast and keep-going. Keep-going can publish diagnostic artifacts but still reports an unsuccessful build when errors remain.

RDF predicate	Value
rdf:type	owl:DatatypeProperty
rdfs:domain	rdfs:Resource
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	xsd:string

4.13 ga:expectedDiagnostic

Label: Expected fixture diagnostic code

Records a diagnostic code that must be observed when executing a showcase with a known source problem.

IRI: <https://ekgf.org/ontology/grapharch#expectedDiagnostic>

RDF predicate	Value
rdf:type	owl:DatatypeProperty
rdfs:domain	ga:Showcase
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	xsd:string

4.14 ga:field

Label: Metadata field

Records the recognized metadata field identifier of a publication metadata row.

IRI: <https://ekgf.org/ontology/grapharch#field>

RDF predicate	Value
rdf:type	owl:DatatypeProperty
rdfs:domain	ga:MetadataRow
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	xsd:string

4.15 ga:format

Label: Content format

Records the content-format identifier used to interpret a retained fragment or asset body.

IRI: <https://ekgf.org/ontology/grapharch#format>

Note: Current fragment paths use media-type identifiers such as text/markdown and text/html. A format identifier does not authorize execution of embedded scripts.

RDF predicate	Value
rdf:type	owl:DatatypeProperty
rdfs:domain	rdfs:Resource
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	xsd:string

4.16 ga:fragmentOrder

Label: Fragment position within a placement

Specifies the nonnegative integer position of a fragment within a resolved component placement.

IRI: <https://ekgf.org/ontology/grapharch#fragmentOrder>

Note: The current implementation accepts integers from 0 through 4294967295.

RDF predicate	Value
rdf:type	owl:DatatypeProperty
rdfs:domain	ga:Entry
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	xsd:integer

4.17 ga:headingAnchor

Label: Original section heading anchor

Records a source heading identifier used for linking, including a retained HTML heading anchor or a Markdown-derived heading slug.

IRI: <https://ekgf.org/ontology/grapharch#headingAnchor>

RDF predicate	Value
rdf:type	owl:DatatypeProperty
rdfs:domain	rdfs:Resource
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	xsd:string

4.18 ga:headingDepth

Label: Fragment heading depth

Sets the starting depth of a fragment heading beneath its component, preserving section nesting across independently generated fragments.

IRI: <https://ekgf.org/ontology/grapharch#headingDepth>

RDF predicate	Value
rdf:type	owl:DatatypeProperty
rdfs:domain	ga:Fragment
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	xsd:integer

4.19 ga:kind

Label: Implementation kind

Records the implementation dispatch key identifying a collector or showcase pipeline kind.

IRI: <https://ekgf.org/ontology/grapharch#kind>

RDF predicate	Value
rdf:type	owl:DatatypeProperty
rdfs:domain	rdfs:Resource
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	xsd:string

4.20 ga:language

Label: Example code language

Records the source-code language identifier retained from an example code fence.

IRI: <https://ekgf.org/ontology/grapharch#language>

RDF predicate	Value
rdf:type	owl:DatatypeProperty
rdfs:domain	rdfs:Resource
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	xsd:string

4.21 ga:linkLabel

Label: Metadata link label

Records the human-readable link text retained for a publication metadata row.

IRI: <https://ekgf.org/ontology/grapharch#linkLabel>

RDF predicate	Value
rdf:type	owl:DatatypeProperty
rdfs:domain	ga:MetadataRow
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	xsd:string

4.22 ga:logo

Label: Embedded authority logo

Contains the embedded PNG data URL used as the publishing authority logo without requiring a network fetch at render time.

IRI: <https://ekgf.org/ontology/grapharch#logo>

Note: The current renderer accepts `data:image/png;base64,` values and validates image content and size. The literal is a data URL, not an RDF link to a logo resource.

RDF predicate	Value
<code>rdf:type</code>	<code>owl:DatatypeProperty</code>
<code>rdfs:domain</code>	<code>ga:Authority</code>
<code>rdfs:isDefinedBy</code>	https://ekgf.org/ontology/grapharch
<code>rdfs:range</code>	<code>xsd:string</code>

4.23 `ga:maxDepth`

Label: Maximum traversal depth

Specifies the maximum number of relationship steps followed during scope traversal, with zero retaining only seed members.

IRI: <https://ekgf.org/ontology/grapharch#maxDepth>

Note: The current implementation accepts integers from 0 through 4294967295 and requires this property when `ga:traverse` is present.

RDF predicate	Value
<code>rdf:type</code>	<code>owl:DatatypeProperty</code>
<code>rdfs:domain</code>	<code>ga:Scope</code>
<code>rdfs:isDefinedBy</code>	https://ekgf.org/ontology/grapharch
<code>rdfs:range</code>	<code>xsd:integer</code>

4.24 `ga:message`

Label: Diagnostic message

Contains the human-readable explanation of a diagnostic.

IRI: <https://ekgf.org/ontology/grapharch#message>

RDF predicate	Value
<code>rdf:type</code>	<code>owl:DatatypeProperty</code>
<code>rdfs:domain</code>	<code>ga:Diagnostic</code>
<code>rdfs:isDefinedBy</code>	https://ekgf.org/ontology/grapharch
<code>rdfs:range</code>	<code>xsd:string</code>

4.25 `ga:metadataDisclosure`

Label: Collapsible publication metadata

Specifies whether specification metadata is presented in a collapsible disclosure element.

IRI: <https://ekgf.org/ontology/grapharch#metadataDisclosure>

RDF predicate	Value
<code>rdf:type</code>	<code>owl:DatatypeProperty</code>
<code>rdfs:domain</code>	<code>ga:Target</code>
<code>rdfs:isDefinedBy</code>	https://ekgf.org/ontology/grapharch
<code>rdfs:range</code>	<code>xsd:boolean</code>

4.26 `ga:nativeAnchor`

Label: Original section anchor

Records an original source-document element identifier preserved for stable linking after collection and rendering.

IRI: <https://ekgf.org/ontology/grapharch#nativeAnchor>

RDF predicate	Value
<code>rdf:type</code>	<code>owl:DatatypeProperty</code>
<code>rdfs:domain</code>	<code>rdfs:Resource</code>
<code>rdfs:isDefinedBy</code>	https://ekgf.org/ontology/grapharch
<code>rdfs:range</code>	<code>xsd:string</code>

4.27 ga:navigationHidden

Label: Exclude page from navigation

Specifies whether a page is omitted from website navigation while remaining available at its route.

IRI: <https://ekgf.org/ontology/grapharch#navigationHidden>

RDF predicate	Value
<code>rdf:type</code>	<code>owl:DatatypeProperty</code>
<code>rdfs:domain</code>	ga:Page
<code>rdfs:isDefinedBy</code>	https://ekgf.org/ontology/grapharch
<code>rdfs:range</code>	<code>xsd:boolean</code>

4.28 ga:navigationOrder

Label: Sibling navigation order

Specifies the numeric ordering hint used to arrange sibling pages in website navigation.

IRI: <https://ekgf.org/ontology/grapharch#navigationOrder>

Note: The Markdown collector accepts integers from 0 through 4294967295 and uses 999 when `nav_order` is omitted. The hint orders sibling pages rather than documentation fragments.

RDF predicate	Value
<code>rdf:type</code>	<code>owl:DatatypeProperty</code>
<code>rdfs:domain</code>	ga:Page
<code>rdfs:isDefinedBy</code>	https://ekgf.org/ontology/grapharch
<code>rdfs:range</code>	<code>xsd:integer</code>

4.29 ga:ontologySource

Label: Ontology specification source

Identifies the source-relative Turtle vocabulary file from which a specification target generates its ontology reference fragments and publication artifacts.

IRI: <https://ekgf.org/ontology/grapharch#ontologySource>

Note: The website build reads this declared source, generates named class and property reference fragments using the ontology's English annotations and preferred namespace, and retains the specification outputs as website assets. Source paths must stay inside the documentation root. Unsupported anonymous expressions or missing required annotations fail the build.

RDF predicate	Value
<code>rdf:type</code>	<code>owl:DatatypeProperty</code>
<code>rdfs:domain</code>	ga:Target

RDF predicate	Value
<code>rdfs:isDefinedBy</code>	<code>https://ekgf.org/ontology/grapharch</code>
<code>rdfs:range</code>	<code>xsd:string</code>

4.30 ga:order

Label: Local position

Specifies the nonnegative integer position of an item within its containing ordered collection.

IRI: `https://ekgf.org/ontology/grapharch#order`

Note: The current implementation accepts integers from 0 through 4294967295. Ordering is local to the containing collection, not a global position.

RDF predicate	Value
<code>rdf:type</code>	<code>owl:DatatypeProperty</code>
<code>rdfs:domain</code>	<code>rdfs:Resource</code>
<code>rdfs:isDefinedBy</code>	<code>https://ekgf.org/ontology/grapharch</code>
<code>rdfs:range</code>	<code>xsd:integer</code>

4.31 ga:original

Label: Original logical graph

Records the serialized original logical graph name represented by a retained physical graph, preserving the distinction between named, blank-node, and default graphs.

IRI: `https://ekgf.org/ontology/grapharch#original`

Note: The value is an `xsd:string` containing the graph-name spelling: `<IRI>` for a named graph, `_:identifier` for a blank-node graph, or `DEFAULT` for the default graph. It is not an IRI-valued relationship and does not reserve a domain IRI as a default-graph sentinel.

RDF predicate	Value
<code>rdf:type</code>	<code>owl:DatatypeProperty</code>
<code>rdfs:domain</code>	<code>rdfs:Resource</code>
<code>rdfs:isDefinedBy</code>	<code>https://ekgf.org/ontology/grapharch</code>
<code>rdfs:range</code>	<code>xsd:string</code>

4.32 ga:parentTitle

Label: Navigation parent title

Records the authored navigation-parent title used when assembling the website page hierarchy.

IRI: `https://ekgf.org/ontology/grapharch#parentTitle`

RDF predicate	Value
<code>rdf:type</code>	<code>owl:DatatypeProperty</code>
<code>rdfs:domain</code>	<code>ga:Page</code>
<code>rdfs:isDefinedBy</code>	<code>https://ekgf.org/ontology/grapharch</code>
<code>rdfs:range</code>	<code>xsd:string</code>

4.33 ga:pdfPath

Label: Declared primary PDF output

Records the declared relative path of the primary PDF output expected from a showcase pipeline.

IRI: `https://ekgf.org/ontology/grapharch#pdfPath`

RDF predicate	Value
rdf:type	owl:DatatypeProperty
rdfs:domain	ga:Showcase
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	xsd:string

4.34 ga:pdfTocDepth

Label: Book PDF contents depth

Sets the maximum heading depth in book PDF contents, independently of HTML navigation depth; bookshelf books default to chapters and sections at depth two.

IRI: <https://ekgf.org/ontology/grapharch#pdfTocDepth>

RDF predicate	Value
rdf:type	owl:DatatypeProperty
rdfs:domain	ga:Target
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	xsd:integer

4.35 ga:pdfWorkers

Label: PDF workers

Sets the bounded number of child Grapharch processes compiling book PDFs, between one and eight.

IRI: <https://ekgf.org/ontology/grapharch#pdfWorkers>

RDF predicate	Value
rdf:type	owl:DatatypeProperty
rdfs:domain	ga:Target
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	xsd:integer

4.36 ga:personNote

Label: Contributor note

Contains a supplementary contributor note, such as a service period or memorial acknowledgement.

IRI: <https://ekgf.org/ontology/grapharch#personNote>

RDF predicate	Value
rdf:type	owl:DatatypeProperty
rdfs:domain	rdfs:Resource
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	xsd:string

4.37 ga:previewPath

Label: Declared primary HTML output

Records the declared relative path of the primary HTML output expected from a showcase pipeline.

IRI: <https://ekgf.org/ontology/grapharch#previewPath>

RDF predicate	Value
rdf:type	owl:DatatypeProperty
rdfs:domain	ga:Showcase
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	xsd:string

4.38 ga:publicationDate

Label: Publication date

Specifies the declared publication date displayed in specification front matter, using an XML Schema date literal.

IRI: <https://ekgf.org/ontology/grapharch#publicationDate>

Note: The value is an xsd:date. Rendering additionally checks calendar validity; ontology range axioms do not perform that validation.

RDF predicate	Value
rdf:type	owl:DatatypeProperty
rdfs:domain	ga:Target
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	xsd:date

Example:

```
@prefix ga: <https://ekgf.org/ontology/grapharch#> .
@prefix xsd: <http://www.w3.org/2001/XMLSchema#> .
<urn:manual:web> ga:publicationDate "2026-10-25"^^xsd:date .
```

4.39 ga:publicationStatus

Label: Declared publication status

Records the authority-specific publication maturity label displayed in specification front matter.

IRI: <https://ekgf.org/ontology/grapharch#publicationStatus>

Note: This is publisher-controlled text, for example Working Draft or Reference Preview. It neither asserts external approval nor determines execution success.

RDF predicate	Value
rdf:type	owl:DatatypeProperty
rdfs:domain	ga:Target
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	xsd:string

4.40 ga:renderer

Label: Renderer identifier

Records the renderer dispatch identifier selected for a target or recorded by a publication job.

IRI: <https://ekgf.org/ontology/grapharch#renderer>

Note: Current dispatch values are html, website, specification, specification-pages, bookshelf, and typst. These are implementation identifiers rather than a closed OWL enumeration of all possible renderers.

RDF predicate	Value
rdf:type	owl:DatatypeProperty

RDF predicate	Value
<code>rdfs:domain</code>	<code>rdfs:Resource</code>
<code>rdfs:isDefinedBy</code>	https://ekgf.org/ontology/grapharch
<code>rdfs:range</code>	<code>xsd:string</code>

4.41 ga:reused

Label: Reused verified PDF

Records whether this book operation reused a checksum-verified PDF with an unchanged effective compiler input fingerprint.

IRI: <https://ekgf.org/ontology/grapharch#reused>

RDF predicate	Value
<code>rdf:type</code>	<code>owl:DatatypeProperty</code>
<code>rdfs:domain</code>	ga:BookPublication
<code>rdfs:isDefinedBy</code>	https://ekgf.org/ontology/grapharch
<code>rdfs:range</code>	<code>xsd:boolean</code>

4.42 ga:revision

Label: Source revision token

Records the source or processor revision token identifying the reproducible content of a contribution attempt; this value is a literal, not a dataset revision IRI.

IRI: <https://ekgf.org/ontology/grapharch#revision>

RDF predicate	Value
<code>rdf:type</code>	<code>owl:DatatypeProperty</code>
<code>rdfs:domain</code>	<code>rdfs:Resource</code>
<code>rdfs:isDefinedBy</code>	https://ekgf.org/ontology/grapharch
<code>rdfs:range</code>	<code>xsd:string</code>

Example:

```
@prefix ga: <https://ekgf.org/ontology/grapharch#> .
<urn:contribution:intro> ga:revision "sha256:source-content-digest" .
```

4.43 ga:route

Label: Website-relative route

Records the safe website-relative output path assigned to a page or retained downloadable asset.

IRI: <https://ekgf.org/ontology/grapharch#route>

RDF predicate	Value
<code>rdf:type</code>	<code>owl:DatatypeProperty</code>
<code>rdfs:domain</code>	<code>rdfs:Resource</code>
<code>rdfs:isDefinedBy</code>	https://ekgf.org/ontology/grapharch
<code>rdfs:range</code>	<code>xsd:string</code>

4.44 ga:sectionKind

Label: Publication section kind

Records the structural role of a component, such as abstract, status, appendix, glossary, or references.

IRI: <https://ekgf.org/ontology/grapharch#sectionKind>

RDF predicate	Value
<code>rdf:type</code>	<code>owl:DatatypeProperty</code>
<code>rdfs:domain</code>	<code>rdfs:Resource</code>
<code>rdfs:isDefinedBy</code>	https://ekgf.org/ontology/grapharch
<code>rdfs:range</code>	<code>xsd:string</code>

4.45 `ga:severity`

Label: Diagnostic severity

Records the severity level of a diagnostic as an informational, warning, or error classification.

IRI: <https://ekgf.org/ontology/grapharch#severity>

Note: Current values are info, warning, and error. A diagnostic code identifies a category independently of severity.

RDF predicate	Value
<code>rdf:type</code>	<code>owl:DatatypeProperty</code>
<code>rdfs:domain</code>	ga:Diagnostic
<code>rdfs:isDefinedBy</code>	https://ekgf.org/ontology/grapharch
<code>rdfs:range</code>	<code>xsd:string</code>

4.46 `ga:shortName`

Label: Authority abbreviation

Records the abbreviated name of a publishing authority used in compact publication labels.

IRI: <https://ekgf.org/ontology/grapharch#shortName>

RDF predicate	Value
<code>rdf:type</code>	<code>owl:DatatypeProperty</code>
<code>rdfs:domain</code>	ga:Authority
<code>rdfs:isDefinedBy</code>	https://ekgf.org/ontology/grapharch
<code>rdfs:range</code>	<code>xsd:string</code>
<code>owl:equivalentProperty</code>	<code>artgov:authorityAcronym</code>

4.47 `ga:showcaseGallery`

Label: Render showcase collection on this page

Specifies whether a documentation page displays the generated collection of project showcases.

IRI: <https://ekgf.org/ontology/grapharch#showcaseGallery>

RDF predicate	Value
<code>rdf:type</code>	<code>owl:DatatypeProperty</code>
<code>rdfs:domain</code>	ga:Page
<code>rdfs:isDefinedBy</code>	https://ekgf.org/ontology/grapharch
<code>rdfs:range</code>	<code>xsd:boolean</code>

4.48 `ga:showcasesSource`

Label: Declared showcase source directory

Records the explicitly configured source directory containing the showcase registry and native fixture inputs.

IRI: <https://ekgf.org/ontology/grapharch#showcasesSource>

RDF predicate	Value
rdf:type	owl:DatatypeProperty
rdfs:domain	ga:Project
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	xsd:string

4.49 ga:slug

Label: Stable showcase artifact directory name

Records the stable safe directory name used to group a showcase and its publication artifacts.

IRI: <https://ekgf.org/ontology/grapharch#slug>

RDF predicate	Value
rdf:type	owl:DatatypeProperty
rdfs:domain	ga:Showcase
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	xsd:string

4.50 ga:source

Label: Source identifier

Records the source identifier interpreted by the owning processor, such as a file path, query input, or showcase fixture directory.

IRI: <https://ekgf.org/ontology/grapharch#source>

Note: This property is a literal in the current contract, even when the string resembles an IRI. Its interpretation is specific to the configured processor.

RDF predicate	Value
rdf:type	owl:DatatypeProperty
rdfs:domain	rdfs:Resource
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	xsd:string

4.51 ga:sourceMarkup

Label: Retained source DOM markup

Contains retained source-document DOM markup used to preserve supported specification constructs through the RDF handoff.

IRI: <https://ekgf.org/ontology/grapharch#sourceMarkup>

RDF predicate	Value
rdf:type	owl:DatatypeProperty
rdfs:domain	rdfs:Resource
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	xsd:string

4.52 ga:sourcePath

Label: Source-relative path

Records the source-relative file path retained for provenance and source navigation.

IRI: <https://ekgf.org/ontology/grapharch#sourcePath>

RDF predicate	Value
rdf:type	owl:DatatypeProperty
rdfs:domain	rdfs:Resource
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	xsd:string

4.53 ga:stage

Label: Contribution lifecycle stage

Records the contribution lifecycle stage used to distinguish collected content, generated documentation, and derived plans.

IRI: <https://ekgf.org/ontology/grapharch#stage>

Note: Current contribution stage values are collect, document, and plan. Assembly and rendering have separate revision and job records.

RDF predicate	Value
rdf:type	owl:DatatypeProperty
rdfs:domain	rdfs:Resource
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	xsd:string

4.54 ga:status

Label: Execution outcome

Records the execution outcome of a pipeline operation or publication job, independently of a specification publication-status label.

IRI: <https://ekgf.org/ontology/grapharch#status>

RDF predicate	Value
rdf:type	owl:DatatypeProperty
rdfs:domain	ga:Operation
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch
rdfs:range	xsd:string

4.55 ga:style

Label: Publication presentation style

Records the Publication presentation style requested by a publication target or retained in its plan.

IRI: <https://ekgf.org/ontology/grapharch#style>

RDF predicate	Value
rdf:type	owl:DatatypeProperty
rdfs:domain	rdfs:Resource
rdfs:isDefinedBy	https://ekgf.org/ontology/grapharch

RDF predicate	Value
<code>rdfs:range</code>	<code>xsd:string</code>

4.56 `ga:subtitle`

Label: Publication subtitle

Contains the secondary title displayed below a publication title.

IRI: <https://ekgf.org/ontology/grapharch#subtitle>

RDF predicate	Value
<code>rdf:type</code>	<code>owl:DatatypeProperty</code>
<code>rdfs:domain</code>	<code>rdfs:Resource</code>
<code>rdfs:isDefinedBy</code>	https://ekgf.org/ontology/grapharch
<code>rdfs:range</code>	<code>xsd:string</code>

4.57 `ga:tocDepth`

Label: Maximum contents depth

Sets a maximum heading depth for a specification contents sidebar and its PDF outline, allowing large families to list modules and ontologies without every vocabulary term.

IRI: <https://ekgf.org/ontology/grapharch#tocDepth>

Note: An integer from one to eight on a target or profile. A target value overrides its profile. When absent, HTML retains the full outline and PDF retains its default depth of three.

RDF predicate	Value
<code>rdf:type</code>	<code>owl:DatatypeProperty</code>
<code>rdfs:domain</code>	<code>rdfs:Resource</code>
<code>rdfs:isDefinedBy</code>	https://ekgf.org/ontology/grapharch
<code>rdfs:range</code>	<code>xsd:integer</code>

4.58 `ga:tocFrontMatter`

Label: Include front matter in contents

Specifies whether unnumbered front-matter sections are included in the specification table of contents.

IRI: <https://ekgf.org/ontology/grapharch#tocFrontMatter>

RDF predicate	Value
<code>rdf:type</code>	<code>owl:DatatypeProperty</code>
<code>rdfs:domain</code>	ga:Target
<code>rdfs:isDefinedBy</code>	https://ekgf.org/ontology/grapharch
<code>rdfs:range</code>	<code>xsd:boolean</code>

4.59 `ga:unresolvedReference`

Label: Reported reference

Records the original reference text or address that could not be resolved during processing.

IRI: <https://ekgf.org/ontology/grapharch#unresolvedReference>

RDF predicate	Value
<code>rdf:type</code>	<code>owl:DatatypeProperty</code>
<code>rdfs:domain</code>	ga:Diagnostic

RDF predicate	Value
<code>rdfs:isDefinedBy</code>	<code>https://ekgf.org/ontology/grapharch</code>
<code>rdfs:range</code>	<code>xsd:string</code>

4.60 `ga:url`

Label: External reference URL

Records a literal web address used for external-reference or contributor presentation; this legacy representation is distinct from IRI-valued publication links.

IRI: `https://ekgf.org/ontology/grapharch#url`

Note: The object is a string literal in the existing contract. Properties such as `ga:thisVersion`, `ga:repository`, and `ga:orcid` instead have IRI objects.

RDF predicate	Value
<code>rdf:type</code>	<code>owl:DatatypeProperty</code>
<code>rdfs:domain</code>	<code>rdfs:Resource</code>
<code>rdfs:isDefinedBy</code>	<code>https://ekgf.org/ontology/grapharch</code>
<code>rdfs:range</code>	<code>xsd:string</code>