

---

Factory

---

May 25, 2021

|                                       |          |
|---------------------------------------|----------|
| <b>1 Module Documentation</b>         | <b>1</b> |
| 1.1 Entities                          | 1        |
| 1.1.0.1 ogit/Factory/Component        | 1        |
| 1.1.0.2 ogit/Factory/ProductionLine   | 2        |
| 1.1.0.3 ogit/Factory/Action           | 2        |
| 1.1.0.4 ogit/Factory/Plant            | 3        |
| 1.1.0.5 ogit/Factory/Machine          | 4        |
| 1.1.0.6 ogit/Product                  | 4        |
| 1.1.0.7 ogit/Attachment               | 4        |
| 1.1.0.8 ogit/Factory/StorageTank      | 5        |
| 1.1.0.9 ogit/Factory/StorageInventory | 5        |
| 1.1.0.10 ogit/Catalog                 | 6        |
| 1.1.0.11 ogit/Factory/Factory         | 6        |
| 1.1.0.12 ogit/Location                | 7        |
| 1.1.0.13 ogit/Factory/Failure         | 7        |
| 1.2 Verbs                             | 9        |
| 1.2.0.1 ogit/contains                 | 9        |
| 1.2.0.2 ogit/Factory/hasAI            | 9        |
| 1.2.0.3 ogit/locatedAt                | 9        |
| 1.2.0.4 ogit/locatedIn                | 10       |
| 1.2.0.5 ogit/corresponds              | 10       |
| 1.2.0.6 ogit/affects                  | 10       |
| 1.2.0.7 ogit/requires                 | 11       |
| 1.2.0.8 ogit/responds                 | 11       |
| 1.2.0.9 ogit/causes                   | 11       |
| 1.2.0.10 ogit/produces                | 11       |
| 1.2.0.11 ogit/belongs                 | 12       |
| 1.2.0.12 ogit/uses                    | 12       |
| 1.3 Attributes                        | 13       |
| 1.3.0.1 ogit/url                      | 13       |
| 1.3.0.2 ogit/severity                 | 13       |
| 1.3.0.3 ogit/status                   | 13       |
| 1.3.0.4 ogit/createdAt                | 14       |
| 1.3.0.5 ogit/accessControl            | 14       |
| 1.3.0.6 ogit/frequency                | 14       |
| 1.3.0.7 ogit/version                  | 15       |
| 1.3.0.8 ogit/content                  | 15       |
| 1.3.0.9 ogit/name                     | 15       |
| 1.3.0.10 ogit/description             | 16       |
| 1.3.0.11 ogit/lastUpdatedBy           | 16       |
| 1.3.0.12 ogit/duration                | 16       |
| 1.3.0.13 ogit/type                    | 17       |

---

|   |    |
|---|----|
| 1.3.0.14 ogit/Factory/equipmentNumber . . . . . | 17 |
| 1.3.0.15 ogit/sourceTable . . . . .             | 17 |
| 1.3.0.16 ogit/creator . . . . .                 | 18 |
| 1.3.0.17 ogit/subType . . . . .                 | 18 |
| 1.3.0.18 ogit/lastUpdatedAt . . . . .           | 18 |
| 1.3.0.19 ogit/durationUnit . . . . .            | 19 |
| 1.3.0.20 ogit/id . . . . .                      | 19 |
| 1.3.0.21 ogit/size . . . . .                    | 19 |

# Chapter 1

## Module Documentation

### 1.1 Entities

#### 1.1.0.1 ogit/Factory/Component

A machinery or equipment component of a factory.

- id: <http://www.purl.org/ogit/Factory/Component>
- valid-from: Tue Dec 10 00:00:00 UTC 2019
- creator: Marek Meyer
- scope: NTO
- parent: ogit/Node

#### attributes

- optional:
  - [ogit/Factory/equipmentNumber](#)
  - [ogit/description](#)
  - [ogit/name](#)
  - [ogit/status](#)
  - [ogit/subType](#)

#### incoming edges

- [ogit/affects](#)  $\leq$  [ogit/Factory/Action](#)
- [ogit/affects](#)  $\leq$  [ogit/Factory/Failure](#)
- [ogit/contains](#)  $\leq$  [ogit/Factory/Component](#)
- [ogit/contains](#)  $\leq$  [ogit/Factory/Plant](#)
- [ogit/corresponds](#)  $\leq$  [ogit/Factory/Component](#)

## outgoing edges

- [ogit/contains](#) => [ogit/Factory/Component](#)
- [ogit/corresponds](#) => [ogit/Factory/Component](#)

1.1.0.2 [ogit/Factory/ProductionLine](#)

TODO.

- id: <http://www.purl.org/ogit/Factory/ProductionLine>
- valid-from: Fri Oct 19 00:00:00 UTC 2018
- creator: Kaushik
- scope: NTO
- parent: [ogit/Node](#)

## incoming edges

- [ogit/Factory/hasAI](#) <= [ogit/Factory/Factory](#)

## outgoing edges

- [ogit/contains](#) => [ogit/Factory/Machine](#)
- [ogit/produces](#) => [ogit/Product](#)

1.1.0.3 [ogit/Factory/Action](#)

An action performed at a machine or component of a manufacturing plant.

- id: <http://www.purl.org/ogit/Factory/Action>
- valid-from: Tue Dec 10 00:00:00 UTC 2019
- creator: Marek Meyer
- scope: NTO
- parent: [ogit/Node](#)

## attributes

- optional:
  - [ogit/description](#)
  - [ogit/duration](#)
  - [ogit/durationUnit](#)
  - [ogit/frequency](#)
  - [ogit/name](#)
  - [ogit/subType](#)

## incoming edges

- [ogit/requires](#) <= [ogit/Factory/Action](#)

## outgoing edges

- [ogit/affects](#) => [ogit/Factory/Component](#)
- [ogit/affects](#) => [ogit/Factory/Machine](#)
- [ogit/requires](#) => [ogit/Factory/Action](#)
- [ogit/responds](#) => [ogit/Factory/Failure](#)

1.1.0.4 [ogit/Factory/Plant](#)

A manufacturing plant, which may consist of multiple machinery and equipment components.

- id: <http://www.purl.org/ogit/Factory/Plant>
- valid-from: Tue Dec 10 00:00:00 UTC 2019
- creator: Marek Meyer
- scope: NTO
- parent: [ogit/Node](#)

## attributes

- optional:
  - [ogit/description](#)
  - [ogit/name](#)
  - [ogit/status](#)

## incoming edges

- [ogit/belongs](#) <= [ogit/Attachment](#)
- [ogit/contains](#) <= [ogit/Catalog](#)

## outgoing edges

- [ogit/belongs](#) => [ogit/Factory/Factory](#)
- [ogit/contains](#) => [ogit/Factory/Component](#)
- [ogit/locatedAt](#) => [ogit/Location](#)

## 1.1.0.5 ogit/Factory/Machine

TODO.

- id: <http://www.purl.org/ogit/Factory/Machine>
- valid-from: Fri Oct 19 00:00:00 UTC 2018
- creator: Kaushik
- scope: NTO
- parent: ogit/Node

## incoming edges

- [ogit/affects](#) <= [ogit/Factory/Action](#)
- [ogit/contains](#) <= [ogit/Factory/ProductionLine](#)

## 1.1.0.6 ogit/Product

A commercially distributed good or service

- id: <http://www.purl.org/ogit/Product>
- valid-from: Thu Feb 08 00:00:00 UTC 2018
- creator: Viktor Voss
- scope: SGO
- parent: ogit/Node

## attributes

- optional:
  - [ogit/name](#)

## incoming edges

- [ogit/produces](#) <= [ogit/Factory/ProductionLine](#)

## 1.1.0.7 ogit/Attachment

This entity defines a file attachment that an IT service, issue, task or a ticket might have. The attachment itself is not saved in GraphIT, instead it contains an external url link for it.

- id: <http://www.purl.org/ogit/Attachment>
- valid-from: Thu May 21 00:00:00 UTC 2015
- creator: Peter Larem
- scope: SGO
- parent: ogit/Node

## attributes

- optional:
  - [ogit/accessControl](#)
  - [ogit/content](#)
  - [ogit/createdAt](#)
  - [ogit/creator](#)
  - [ogit/id](#)
  - [ogit/lastUpdatedAt](#)
  - [ogit/lastUpdatedBy](#)
  - [ogit/name](#)
  - [ogit/size](#)
  - [ogit/sourceTable](#)
  - [ogit/type](#)
  - [ogit/url](#)

## outgoing edges

- [ogit/belongs](#) => [ogit/Factory/Plant](#)

1.1.0.8 [ogit/Factory/StorageTank](#)

TODO.

- id: <http://www.purl.org/ogit/Factory/StorageTank>
- valid-from: Fri Oct 19 00:00:00 UTC 2018
- creator: Kaushik
- scope: NTO
- parent: [ogit/Node](#)

## incoming edges

- [ogit/uses](#) <= [ogit/Factory/Factory](#)

1.1.0.9 [ogit/Factory/StorageInventory](#)

TODO.

- id: <http://www.purl.org/ogit/Factory/StorageInventory>
- valid-from: Fri Oct 19 00:00:00 UTC 2018
- creator: Kaushik
- scope: NTO
- parent: [ogit/Node](#)



## incoming edges

- [ogit/uses](#) <= [ogit/Factory/Factory](#)

1.1.0.10 [ogit/Catalog](#)

Any kind of catalog which could be offered by an Organization (e.g. corresponding to a vendor). Might contain products, services, books, etc.

- id: <http://www.purl.org/ogit/Catalog>
- valid-from: Thu May 21 00:00:00 UTC 2015
- creator: Peter Larem
- scope: SGO
- parent: [ogit/Node](#)

## attributes

- mandatory:
  - [ogit/name](#)
- optional:
  - [ogit/description](#)
  - [ogit/id](#)
  - [ogit/type](#)
  - [ogit/version](#)

## outgoing edges

- [ogit/contains](#) => [ogit/Factory/Plant](#)

1.1.0.11 [ogit/Factory/Factory](#)

A factory in a producing company.

- id: <http://www.purl.org/ogit/Factory/Factory>
- valid-from: Fri Oct 19 00:00:00 UTC 2018
- creator: Kaushik
- scope: NTO
- parent: [ogit/Node](#)

## incoming edges

- [ogit/belongs](#) <= [ogit/Factory/Plant](#)

## outgoing edges

- [ogit/Factory/hasAI](#) => [ogit/Factory/ProductionLine](#)
- [ogit/locatedIn](#) => [ogit/Location](#)
- [ogit/uses](#) => [ogit/Factory/StorageInventory](#)
- [ogit/uses](#) => [ogit/Factory/StorageTank](#)

1.1.0.12 [ogit/Location](#)

A place where some service is offered or requested. In many cases this will be related to an address of an Organization. Similar to <http://purl.org/goodrelations/v1#Location>

- id: <http://www.purl.org/ogit/Location>
- valid-from: Thu May 21 00:00:00 UTC 2015
- creator: Peter Larem
- scope: SGO
- parent: [ogit/Node](#)

## attributes

- mandatory:
  - [ogit/name](#)
- optional:
  - [ogit/description](#)

## incoming edges

- [ogit/locatedAt](#) <= [ogit/Factory/Plant](#)
- [ogit/locatedIn](#) <= [ogit/Factory/Factory](#)

1.1.0.13 [ogit/Factory/Failure](#)

A failure of a manufacturing plant, machinery component or equipment.

- id: <http://www.purl.org/ogit/Factory/Failure>
- valid-from: Tue Dec 10 00:00:00 UTC 2019
- creator: Marek Meyer
- scope: NTO
- parent: [ogit/Node](#)

**attributes**

- optional:
  - `ogit/description`
  - `ogit/name`
  - `ogit/severity`
  - `ogit/status`
  - `ogit/subType`

**incoming edges**

- `ogit/causes`  $\leq$  `ogit/Factory/Failure`
- `ogit/responds`  $\leq$  `ogit/Factory/Action`

**outgoing edges**

- `ogit/affects`  $\Rightarrow$  `ogit/Factory/Component`
- `ogit/causes`  $\Rightarrow$  `ogit/Factory/Failure`

## 1.2 Verbs

### 1.2.0.1 ogit/contains

This relationship indicates that something is part of something else. see also "includes"

- id: <http://www.purl.org/ogit/contains>
- valid-from: Thu May 21 00:00:00 UTC 2015
- creator: Peter Larem

#### Allowed Connection

- [ogit/Factory/Component](#) => [ogit/Factory/Component](#)
- [ogit/Factory/Plant](#) => [ogit/Factory/Component](#)
- [ogit/Factory/ProductionLine](#) => [ogit/Factory/Machine](#)
- [ogit/Catalog](#) => [ogit/Factory/Plant](#)

### 1.2.0.2 ogit/Factory/hasAI

TODO.

- id: <http://www.purl.org/ogit/Factory/hasAI>
- valid-from: Fri Oct 19 00:00:00 UTC 2018
- creator: arago GmbH

#### Allowed Connection

- [ogit/Factory/Factory](#) => [ogit/Factory/ProductionLine](#)

### 1.2.0.3 ogit/locatedAt

Indicates that an entity is located at another entity.

- id: <http://www.purl.org/ogit/locatedAt>
- valid-from: Fri Sep 20 00:00:00 UTC 2019
- creator: Marek Meyer

#### Allowed Connection

- [ogit/Factory/Plant](#) => [ogit/Location](#)

## 1.2.0.4 ogit/locatedIn

indicate that something has its place somewhere

- id: <http://www.purl.org/ogit/locatedIn>
- valid-from: Thu May 21 00:00:00 UTC 2015
- creator: Peter Larem

## Allowed Connection

- [ogit/Factory/Factory](#) => [ogit/Location](#)

## 1.2.0.5 ogit/corresponds

Indicates whether one entity could correspond to a more general one, e.g. an Incident could correspond to a Ticket

- id: <http://www.purl.org/ogit/corresponds>
- valid-from: Thu May 21 00:00:00 UTC 2015
- creator: Peter Larem

## Allowed Connection

- [ogit/Factory/Component](#) => [ogit/Factory/Component](#)

## 1.2.0.6 ogit/affects

The relationship indicates that one entity affects some other entity.

- id: <http://www.purl.org/ogit/affects>
- valid-from: Thu May 21 00:00:00 UTC 2015
- creator: Peter Larem

## Allowed Connection

- [ogit/Factory/Action](#) => [ogit/Factory/Component](#)
- [ogit/Factory/Action](#) => [ogit/Factory/Machine](#)
- [ogit/Factory/Failure](#) => [ogit/Factory/Component](#)

### 1.2.0.7 ogit/requires

Indicates dependencies between entities in the sense of "necessary condition".

- id: <http://www.purl.org/ogit/requires>
- valid-from: Thu May 21 00:00:00 UTC 2015
- creator: Peter Larem

#### Allowed Connection

- [ogit/Factory/Action](#) => [ogit/Factory/Action](#)

### 1.2.0.8 ogit/responds

This relationship indicates that one entity is a response to another. For example, parts of a conversation/fourm thread.

- id: <http://www.purl.org/ogit/responds>
- valid-from: Mon Apr 27 00:00:00 UTC 2015
- creator: [cwalker@arago.de](mailto:cwalker@arago.de)

#### Allowed Connection

- [ogit/Factory/Action](#) => [ogit/Factory/Failure](#)

### 1.2.0.9 ogit/causes

Indicates that one entity causes the creation of another one. E.g. an error situation during change execution might lead to a new incident ticket.

- id: <http://www.purl.org/ogit/causes>
- valid-from: Thu May 21 00:00:00 UTC 2015
- creator: Peter Larem

#### Allowed Connection

- [ogit/Factory/Failure](#) => [ogit/Factory/Failure](#)

### 1.2.0.10 ogit/produces

This relationship indicates that one produces some work for another.

- id: <http://www.purl.org/ogit/produces>
- valid-from: Mon Aug 08 00:00:00 UTC 2016
- creator: Alexander Ryabtsev

**Allowed Connection**

- [ogit/Factory/ProductionLine](#) => [ogit/Product](#)

**1.2.0.11 ogit/belongs**

Verb showing if one entity belongs to another.

- id: <http://www.purl.org/ogit/belongs>
- valid-from: Thu May 21 00:00:00 UTC 2015
- creator: Peter Larem

**Allowed Connection**

- [ogit/Factory/Plant](#) => [ogit/Factory/Factory](#)
- [ogit/Attachment](#) => [ogit/Factory/Plant](#)

**1.2.0.12 ogit/uses**

This relationship indicates that some entity is used by some other.

- id: <http://www.purl.org/ogit/uses>
- valid-from: Thu May 21 00:00:00 UTC 2015
- creator: Peter Larem

**Allowed Connection**

- [ogit/Factory/Factory](#) => [ogit/Factory/StorageInventory](#)
- [ogit/Factory/Factory](#) => [ogit/Factory/StorageTank](#)

## 1.3 Attributes

### 1.3.0.1 ogit/url

Contains an URL (unified resource locator)

- id: <http://www.purl.org/ogit/url>
- valid-from: Thu May 21 00:00:00 UTC 2015
- creator: Peter Larem

used

- optional:
  - [ogit/Attachment](#)

### 1.3.0.2 ogit/severity

Stores a severity. E.g. Some event management systems might store a severity field.

- id: <http://www.purl.org/ogit/severity>
- valid-from: Thu May 21 00:00:00 UTC 2015
- creator: Peter Larem

used

- optional:
  - [ogit/Factory/Failure](#)

### 1.3.0.3 ogit/status

A status for an entity. At this level of specification no list of values is specified. However, applications using this attribute are expected to allow only a fixed list of values that seems usefual in the application's semantic context.

- id: <http://www.purl.org/ogit/status>
- valid-from: Thu May 21 00:00:00 UTC 2015
- creator: Peter Larem

used

- optional:
  - [ogit/Factory/Component](#)
  - [ogit/Factory/Failure](#)
  - [ogit/Factory/Plant](#)



#### 1.3.0.4 ogit/createdAt

Defines a point in time when a ticket/incident/event etc was created or recorded.

- id: <http://www.purl.org/ogit/createdAt>
- valid-from: Thu May 21 00:00:00 UTC 2015
- creator: Peter Larem

used

- optional:
  - [ogit/Attachment](#)

#### 1.3.0.5 ogit/accessControl

The access control level of this Node. Value could mean different things to different applications / policies. Initial intent is that policies would treat "public-read" (inspired by Amazon AWS S3 ACLs) to mean anyone would have read-only access to this node.

- id: <http://www.purl.org/ogit/accessControl>
- valid-from: Thu Mar 26 00:00:00 UTC 2015
- creator: Chris Walker

used

- optional:
  - [ogit/Attachment](#)

#### 1.3.0.6 ogit/frequency

This field specifies a frequency at which e.g. events occur.

- id: <http://www.purl.org/ogit/frequency>
- valid-from: Tue Dec 10 00:00:00 UTC 2019
- creator: Marek Meyer

used

- optional:
  - [ogit/Factory/Action](#)

#### 1.3.0.7 ogit/version

Any string representation of version information. no restrictions are imposed on that base attribute

- id: <http://www.purl.org/ogit/version>
- valid-from: Thu May 21 00:00:00 UTC 2015
- creator: Peter Larem

used

- optional:
  - [ogit/Catalog](#)

#### 1.3.0.8 ogit/content

A string holding any type of content: plain string, XML fragments, RDF documents, ...

- id: <http://www.purl.org/ogit/content>
- valid-from: Thu May 21 00:00:00 UTC 2015
- creator: Peter Larem

used

- optional:
  - [ogit/Attachment](#)

#### 1.3.0.9 ogit/name

Contains a name.

- id: <http://www.purl.org/ogit/name>
- valid-from: Thu May 21 00:00:00 UTC 2015
- creator: Peter Larem

used

- mandatory:
  - [ogit/Catalog](#)
  - [ogit/Location](#)
- optional:
  - [ogit/Attachment](#)
  - [ogit/Factory/Action](#)
  - [ogit/Factory/Component](#)
  - [ogit/Factory/Failure](#)
  - [ogit/Factory/Plant](#)
  - [ogit/Product](#)

#### 1.3.0.10 ogit/description

Contains a description.

- id: <http://www.purl.org/ogit/description>
- valid-from: Thu May 21 00:00:00 UTC 2015
- creator: Peter Larem

used

- optional:
  - [ogit/Catalog](#)
  - [ogit/Factory/Action](#)
  - [ogit/Factory/Component](#)
  - [ogit/Factory/Failure](#)
  - [ogit/Factory/Plant](#)
  - [ogit/Location](#)

#### 1.3.0.11 ogit/lastUpdatedBy

Defines the last person or process who updated an entity.

- id: <http://www.purl.org/ogit/lastUpdatedBy>
- valid-from: Mon Jul 20 00:00:00 UTC 2015
- creator: Aymen Ayoub

used

- optional:
  - [ogit/Attachment](#)

#### 1.3.0.12 ogit/duration

This field represents a duration of an event, activity, phase, etc. It is recommended to use this attribute in conjunction with durationUnit.

- id: <http://www.purl.org/ogit/duration>
- valid-from: Tue Dec 10 00:00:00 UTC 2019
- creator: Marek Meyer

used

- optional:
  - [ogit/Factory/Action](#)

**1.3.0.13 ogit/type**

Type of an an entity.

- id: <http://www.purl.org/ogit/type>
- valid-from: Thu May 21 00:00:00 UTC 2015
- creator: Peter Larem

used

- optional:
  - [ogit/Attachment](#)
  - [ogit/Catalog](#)

**1.3.0.14 ogit/Factory/equipmentNumber**

A unique identifier of a piece of equipment.

- id: <http://www.purl.org/ogit/Factory/equipmentNumber>
- valid-from: Tue Dec 10 00:00:00 UTC 2019
- creator: Marek Meyer

used

- optional:
  - [ogit/Factory/Component](#)

**1.3.0.15 ogit/sourceTable**

Contains the source table, that stores where the data are coming from.

- id: <http://www.purl.org/ogit/sourceTable>
- valid-from: Thu Aug 20 00:00:00 UTC 2015
- creator: Aymen Ayoub

used

- optional:
  - [ogit/Attachment](#)

#### 1.3.0.16 ogit/creator

Creator of an entity.

- id: <http://www.purl.org/ogit/creator>
- valid-from: Thu Aug 20 00:00:00 UTC 2015
- creator: Aymen Ayoub

used

- optional:
  - [ogit/Attachment](#)

#### 1.3.0.17 ogit/subType

A subtype of an an entity.

- id: <http://www.purl.org/ogit/subType>
- valid-from: Mon Jul 27 00:00:00 UTC 2015
- creator: Aymen Ayoub

used

- optional:
  - [ogit/Factory/Action](#)
  - [ogit/Factory/Component](#)
  - [ogit/Factory/Failure](#)

#### 1.3.0.18 ogit/lastUpdatedAt

Defines latest date and time when a ticket or it's comment was updated. The format of this value could be according to ISO 8601.

- id: <http://www.purl.org/ogit/lastUpdatedAt>
- valid-from: Thu May 21 00:00:00 UTC 2015
- creator: Peter Larem

used

- optional:
  - [ogit/Attachment](#)

#### 1.3.0.19 ogit/durationUnit

This field specifies the unit of a duration, e.g. seconds, minutes, hours, days, or years.

- id: <http://www.purl.org/ogit/durationUnit>
- valid-from: Tue Dec 10 00:00:00 UTC 2019
- creator: Marek Meyer

used

- optional:
  - [ogit/Factory/Action](#)

#### 1.3.0.20 ogit/id

General id.

- id: <http://www.purl.org/ogit/id>
- valid-from: Thu May 21 00:00:00 UTC 2015
- creator: Peter Larem

used

- optional:
  - [ogit/Attachment](#)
  - [ogit/Catalog](#)

#### 1.3.0.21 ogit/size

The size, e.g. of a file.

- id: <http://www.purl.org/ogit/size>
- valid-from: Thu Mar 26 00:00:00 UTC 2015
- creator: arago Technologies

used

- optional:
  - [ogit/Attachment](#)