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SaaS

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# Chapter 1

## SaaS

### Overview

This NTO model a software-as-a-service offering. It defines entities for both

- templates/offerings
- instantiated services

## Chapter 2

# Module Documentation

### 2.1 Entities

#### 2.1.0.1 ogit/SaaS/Component

Entities of this kind form the catalogue of components a SaaS Deployment can consist of

- id: <http://www.purl.org/ogit/SaaS/Component>
- valid-from: Tue Jan 14 00:00:00 UTC 2020
- creator: FCO
- scope: NTO
- parent: ogit/Node

#### attributes

- mandatory:
  - [ogit/Version/major](#)
  - [ogit/Version/minor](#)
  - [ogit/Version/patch](#)
  - [ogit/name](#)
- optional:
  - [ogit/description](#)
  - [ogit/status](#)

#### incoming edges

- [ogit/configures](#) <= [ogit/SaaS/ConfigurationTemplate](#)

### 2.1.0.2 ogit/SaaS/Deployment

represents a Deployment in any possible state. Will be instantiated from a DeploymentTemplate

- id: <http://www.purl.org/ogit/SaaS/Deployment>
- valid-from: Tue Jan 14 00:00:00 UTC 2020
- creator: FCO
- scope: NTO
- parent: ogit/Node

#### attributes

- mandatory:
  - [ogit/id](#)
  - [ogit/status](#)
- optional:
  - [ogit/comment](#)
  - [ogit/sourceId](#)
  - [ogit/status](#)

#### incoming edges

- [ogit/contains](#) <= [ogit/SaaS/Deployment](#)

#### outgoing edges

- [ogit/contains](#) => [ogit/SaaS/ComponentInstance](#)
- [ogit/contains](#) => [ogit/SaaS/Deployment](#)

### 2.1.0.3 ogit/SaaS/DeploymentTemplate

Specifies templates that can be instantiated as a Deployment. When instantiated all contained Configuration↔ Templates will be instantiated as ComponentConfigs

- id: <http://www.purl.org/ogit/SaaS/DeploymentTemplate>
- valid-from: Tue Jan 14 00:00:00 UTC 2020
- creator: FCO
- scope: NTO
- parent: ogit/Node

**attributes**

- mandatory:
  - [ogit/Version/major](#)
  - [ogit/Version/minor](#)
  - [ogit/Version/patch](#)
  - [ogit/name](#)
- optional:
  - [ogit/description](#)
  - [ogit/status](#)

**outgoing edges**

- [ogit/contains](#) => [ogit/SaaS/ConfigurationTemplate](#)

**2.1.0.4 ogit/Auth/Account**

An account is used for authentication and authorization.

- id: <http://www.purl.org/ogit/Auth/Account>
- valid-from: Mon Jan 01 00:00:00 UTC 2018
- creator: arago GmbH
- scope: NTO
- parent: ogit/Node

**attributes**

- mandatory:
  - [ogit/Auth/Account/type](#)
  - [ogit/name](#)
  - [ogit/status](#)
- optional:
  - [ogit/Auth/Account/acceptedPrivacy](#)
  - [ogit/Auth/Account/acceptedProjectTerms](#)
  - [ogit/Auth/Account/acceptedTerms](#)
  - [ogit/Auth/Account/allowCookies](#)
  - [ogit/Auth/Account/statusReason](#)
  - [ogit/email](#)

**outgoing edges**

- [ogit/Auth/uses](#) => [ogit/SaaS/ComponentInstance](#)

### 2.1.0.5 ogit/SaaS/ComponentInstance

An instance of a Component within a Deployment

- id: <http://www.purl.org/ogit/SaaS/ComponentInstance>
- valid-from: Tue Jan 14 00:00:00 UTC 2020
- creator: FCO
- scope: NTO
- parent: ogit/Node

#### attributes

- mandatory:
  - [ogit/id](#)
- optional:
  - [ogit/sourceId](#)
  - [ogit/status](#)

#### incoming edges

- [ogit/Auth/uses](#) <= [ogit/Auth/Account](#)
- [ogit/contains](#) <= [ogit/SaaS/Deployment](#)

#### outgoing edges

- [ogit/generates](#) => [ogit/Timeseries](#)

### 2.1.0.6 ogit/Timeseries

A time series is a sequence of data points, measured typically at successive points in time spaced at uniform time intervals.

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

**attributes**

- optional:
  - [ogit/description](#)
  - [ogit/instance](#)
  - [ogit/isMutable](#)
  - [ogit/name](#)
  - [ogit/unit](#)

**incoming edges**

- [ogit/generates](#) <= [ogit/SaaS/ComponentInstance](#)

**2.1.0.7 ogit/SaaS/ConfigurationTemplate**

Specifies a certain installation flavor of a Component. Might fix same configuration parameters and provide defaults for some others. Will be used within DeploymentTemplate to form a deployable template of several components

- id: <http://www.purl.org/ogit/SaaS/ConfigurationTemplate>
- valid-from: Tue Jan 14 00:00:00 UTC 2020
- creator: FCO
- scope: NTO
- parent: ogit/Node

**attributes**

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

**incoming edges**

- [ogit/contains](#) <= [ogit/SaaS/DeploymentTemplate](#)

**outgoing edges**

- [ogit/configures](#) => [ogit/SaaS/Component](#)



## 2.2 Verbs

### 2.2.0.1 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/SaaS/Deployment](#) => [ogit/SaaS/ComponentInstance](#)
- [ogit/SaaS/Deployment](#) => [ogit/SaaS/Deployment](#)
- [ogit/SaaS/DeploymentTemplate](#) => [ogit/SaaS/ConfigurationTemplate](#)

### 2.2.0.2 ogit/generates

Verb indicating if an entity generates another entity.

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

#### Allowed Connection

- [ogit/SaaS/ComponentInstance](#) => [ogit/Timeseries](#)

### 2.2.0.3 ogit/configures

The `from` entity, contains configuration data for the `to` entity

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

#### Allowed Connection

- [ogit/SaaS/ConfigurationTemplate](#) => [ogit/SaaS/Component](#)

### 2.2.0.4 ogit/Auth/uses

Denotes use of an Application.

- id: <http://www.purl.org/ogit/Auth/uses>
- valid-from: Mon Jan 01 00:00:00 UTC 2018
- creator: arago GmbH

#### Allowed Connection

- [ogit/Auth/Account](#) => [ogit/SaaS/ComponentInstance](#)

## 2.3 Attributes

### 2.3.0.1 ogit/comment

Contains a comment.

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

used

- optional:
  - [ogit/SaaS/Deployment](#)

### 2.3.0.2 ogit/email

An email address.

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

used

- optional:
  - [ogit/Auth/Account](#)

### 2.3.0.3 ogit/Version/major

major version according to <https://semver.org/>

- id: <http://www.purl.org/ogit/Version/major>
- valid-from: Fri May 25 00:00:00 UTC 2018
- creator: [fotto@arago.de](mailto:fotto@arago.de)

used

- mandatory:
  - [ogit/SaaS/Component](#)
  - [ogit/SaaS/DeploymentTemplate](#)

#### 2.3.0.4 ogit/sourceId

The Id of the source system.

- id: <http://www.purl.org/ogit/sourceId>
- valid-from: Thu Jun 11 00:00:00 UTC 2015
- creator: Peter Larem

used

- optional:
  - [ogit/SaaS/ComponentInstance](#)
  - [ogit/SaaS/Deployment](#)

#### 2.3.0.5 ogit/unit

Unit of measurement of some value.

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

used

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

#### 2.3.0.6 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 useful 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

- mandatory:
  - [ogit/Auth/Account](#)
  - [ogit/SaaS/Deployment](#)
- optional:
  - [ogit/SaaS/Component](#)
  - [ogit/SaaS/ComponentInstance](#)
  - [ogit/SaaS/Deployment](#)
  - [ogit/SaaS/DeploymentTemplate](#)

#### 2.3.0.7 [ogit/Auth/Account/statusReason](#)

Status Reason of an [ogit/Auth/Account](#)

- id: <http://www.purl.org/ogit/Auth/Account/statusReason>
- valid-from: Mon Jan 01 00:00:00 UTC 2018
- creator: arago GmbH

used

- optional:
  - [ogit/Auth/Account](#)

#### 2.3.0.8 [ogit/Version/patch](#)

patch version according to <https://semver.org/>

- id: <http://www.purl.org/ogit/Version/patch>
- valid-from: Fri May 25 00:00:00 UTC 2018
- creator: [fotto@arago.de](mailto:fotto@arago.de)

used

- mandatory:
  - [ogit/SaaS/Component](#)
  - [ogit/SaaS/DeploymentTemplate](#)

#### 2.3.0.9 ogit/Auth/Account/type

Type of an account. Values: person, application

- id: <http://www.purl.org/ogit/Auth/Account/type>
- valid-from: Mon Jan 01 00:00:00 UTC 2018
- creator: arago GmbH

used

- mandatory:
  - [ogit/Auth/Account](#)

#### 2.3.0.10 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/Auth/Account](#)
  - [ogit/SaaS/Component](#)
  - [ogit/SaaS/DeploymentTemplate](#)
- optional:
  - [ogit/Timeseries](#)

#### 2.3.0.11 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/SaaS/Component](#)
  - [ogit/SaaS/ConfigurationTemplate](#)
  - [ogit/SaaS/DeploymentTemplate](#)
  - [ogit/Timeseries](#)

#### 2.3.0.12 `ogit/Auth/Account/acceptedProjectTerms`

Flag about whether HIRO Project terms were accepted

- id: <http://www.purl.org/ogit/Auth/Account/acceptedProjectTerms>
- valid-from: Mon Jan 01 00:00:00 UTC 2018
- creator: arago GmbH

used

- optional:
  - [ogit/Auth/Account](#)

#### 2.3.0.13 `ogit/Auth/Account/acceptedTerms`

Flag about whether usage terms were accepted

- id: <http://www.purl.org/ogit/Auth/Account/acceptedTerms>
- valid-from: Mon Jan 01 00:00:00 UTC 2018
- creator: arago GmbH

used

- optional:
  - [ogit/Auth/Account](#)

#### 2.3.0.14 `ogit/Version/minor`

minor version according to <https://semver.org/>

- id: <http://www.purl.org/ogit/Version/minor>
- valid-from: Fri May 25 00:00:00 UTC 2018
- creator: [fotto@arago.de](mailto:fotto@arago.de)

used

- mandatory:
  - [ogit/SaaS/Component](#)
  - [ogit/SaaS/DeploymentTemplate](#)

#### 2.3.0.15 ogit/Auth/Account/allowCookies

Flag about whether cookies are allowed

- id: <http://www.purl.org/ogit/Auth/Account/allowCookies>
- valid-from: Mon Jan 01 00:00:00 UTC 2018
- creator: arago GmbH

used

- optional:
  - [ogit/Auth/Account](#)

#### 2.3.0.16 ogit/isMutable

True if the value can be changed. E.g. after a service is provisioned.

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

used

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

#### 2.3.0.17 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

- mandatory:
  - [ogit/SaaS/ComponentInstance](#)
  - [ogit/SaaS/ConfigurationTemplate](#)
  - [ogit/SaaS/Deployment](#)

### 2.3.0.18 `ogit/Auth/Account/acceptedPrivacy`

Flag about whether privacy terms were accepted

- id: <http://www.purl.org/ogit/Auth/Account/acceptedPrivacy>
- valid-from: Mon Jan 01 00:00:00 UTC 2018
- creator: arago GmbH

used

- optional:
  - [ogit/Auth/Account](#)

### 2.3.0.19 `ogit/instance`

Defines the name of an instance.

- id: <http://www.purl.org/ogit/instance>
- valid-from: Wed Aug 03 00:00:00 UTC 2016
- creator: Philipp Pelchmann

used

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