
SaaS

April 13, 2021

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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/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/SaaS/ComponentInstance](#)

2.1.0.5 [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](#)

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

outgoing edges

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

2.1.0.7 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/isPermanent](#)
 - [ogit/name](#)
 - [ogit/unit](#)

incoming edges

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

2.1.0.8 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

Allowed Connection

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

2.2.0.4 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/Attachment](#) => [ogit/SaaS/ComponentInstance](#)

2.2.0.5 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

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/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](#)

2.3.0.6 ogit/isPermanent

If value equals "true" vertex can not be updated or deleted. E.g. after a service is provisioned.

- id: <http://www.purl.org/ogit/isPermanent>
- valid-from: Fri Mar 05 00:00:00 UTC 2021
- creator: Vitaly Teremasov

used

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

2.3.0.7 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](#)

2.3.0.8 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

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

2.3.0.9 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](#)

2.3.0.10 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](#)

2.3.0.11 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](#)

2.3.0.12 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

used

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

2.3.0.13 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](#)

2.3.0.14 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](#)

2.3.0.15 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/Attachment](#)
 - [ogit/Timeseries](#)

2.3.0.16 `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](#)

2.3.0.17 `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](#)

2.3.0.18 `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](#)

2.3.0.19 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

used

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

2.3.0.20 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](#)

2.3.0.21 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](#)

2.3.0.22 `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](#)

2.3.0.23 `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](#)

2.3.0.24 `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](#)

2.3.0.25 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](#)

2.3.0.26 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](#)

2.3.0.27 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](#)
- optional:
 - [ogit/Attachment](#)

2.3.0.28 `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](#)

2.3.0.29 `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](#)

2.3.0.30 `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](#)