

OCCI Monitoring Extension

SPIRALS

August 5, 2017

1 OCCI monitoring extension

Name	monitoring
Scheme	http://schemas.ogf.org/occi/monitoring#

1.1 Imported OCCI extensions

Name	core
Scheme	http://schemas.ogf.org/occi/core#

1.2 Description

OCCI Monitoring Extension allows the user to create a monitoring infrastructure for a cloud provision.

2 Kinds

2.1 Sensor kind

Name	Sensor
Scheme	http://schemas.ogf.org/occi/monitoring#
Title	Sensor Resource
Parent	Resource (http://schemas.ogf.org/occi/core#)

2.1.1 Sensor attributes

Attribute	Type	Required	Mutable	Default	Description
occi.sensor.timebase	DateTime	false	true		Base time reference (ISO8601)
occi.sensor.timestart	Second	false	true		Start time offset (seconds)
occi.sensor.timestop	Second	false	true		Stop time offset (seconds)
occi.sensor.period	Second	true	true		Time between two following measurements (seconds)
occi.sensor.granularity	Second	false	true		Granularity of time measument (seconds)
occi.sensor.accuracy	Second	false	true		Accuracy of time measurement (seconds)

2.2 Collector kind

Name	Collector
Scheme	http://schemas.ogf.org/occi/monitoring#
Title	Collector Link
Parent	Link (http://schemas.ogf.org/occi/core#)

2.2.1 Collector attributes

Attribute	Type	Required	Mutable	Default	Description
occi.collector.period	Second	true	true		Time between two following measurements (seconds)
occi.sensor.accuracy	Second	false	true		Accuracy of time measument (seconds)
occi.sensor.granularity	Second	false	true		Granularity of time measurement (seconds)

3 Mixins

3.1 Metric mixin

Name	Metric
Scheme	http://schemas.ogf.org/occi/monitoring#
Title	Metric Mixin

Applies to:

- Collector (<http://schemas.ogf.org/occi/monitoring#>)

3.2 Aggregator mixin

Name	Aggregator
Scheme	http://schemas.ogf.org/occi/monitoring#
Title	Aggregator Mixin

Applies to:

- Sensor (<http://schemas.ogf.org/occi/monitoring#>)

3.3 Publisher mixin

Name	Publisher
Scheme	http://schemas.ogf.org/occi/monitoring#
Title	Published Mixin

Applies to:

- Sensor (<http://schemas.ogf.org/occi/monitoring#>)

4 Types

4.1 Second type

- **Basic type:** Integer
- **minInclusive:** 0

4.2 DateTime type

- **Basic type:** String
- **pattern:**

`^(\d{4}((-)?(0[1-9]|1[0-2]))((-)?(0[1-9]|1[1-2][0-9]|3[0-1]))(T(24:00(:00(\.[0-9]+)?)?|((([0-1][0-9]|2[0-3])`