# OCCI Monitoring Extension

# Spirals

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# 1 OCCI monitoring extension

Name	monitoring
Scheme	http://schemas.ogf.org/occi/monitoring#
Specification	https://redmine.ogf.org/attachments/182/monitoring.pdf

## 1.1 Description

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

## 1.2 Imported OCCI extensions

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

## 1.3 Specification

The specification of OCCI Monitoring extension is available here: https://redmine.ogf.org/attachments/182/monitoring.pdf.

## 1.4 Types

## 1.4.1 Second type

• Basic type: Integer

• minInclusive: 0

## 1.4.2 DateTime type

• Basic type: String

 $\bullet$  pattern:

#### 1.5 Kinds

#### 1.5.1 Sensor kind

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

#### • 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 measure-
					ments (seconds)
occi.sensor.granularity	Second	false	true		Granularity of time measument (sec-
					onds)
occi.sensor.accuracy	Second	false	true		Accuracy of time measument (seconds)

#### 1.5.2 Collector kind

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

## • 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 measument (seconds)

## 1.6 Mixins

## 1.6.1 Metric mixin

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

## • Applies to:

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

## 1.6.2 Aggregator mixin

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

## • Applies to:

 $- \ Sensor \ (http://schemas.ogf.org/occi/monitoring\#)$ 

## 1.6.3 Publisher mixin

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

## • Applies to:

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