

The OSLC Availability Vocabulary (DRAFT)

The namespace URI for this vocabulary is: TDB

This page lists the RDFS classes and RDF properties that make up the OSLC Availability vocabulary.

More details on how this page is generated and other related material can be found in the [OSLC URI Naming Guidelines](#).

Description:

All vocabulary URIs defined in the OSLC Availability namespace.

See Also:

- <http://open-services.net/wiki/automation/Availability-Specification>

RDFS Classes in this namespace

AvailabilityResource, AvailabilityCondition, AvailabilityGroup, RedundancyGroup, RedundancyMember

RDF Properties in this namespace

memberOf, rtoRequirement, compoundState, currentState, desiredState, mttf, mtrr, numberActiveMembers, SLA, maxActiveMembers, minActiveMembers, redundancyCapability, synchronizationType, redundancyRole

AvailabilityResource

AvailabilityResource is an RDFS class.

The Availability Resource resource, a resource in the context of High Availability. For example a software service running in a high availability system architecture.

See Also:

- http://open-services.net/wiki/automation/Availability-Specification#Resource_Availability_Resource

AvailabilityCondition

AvailabilityCondition is an RDFS class.

The Availability Condition resource, describing the condition and state of an Availability Resource.

See Also:

- http://open-services.net/wiki/automation/Availability-Specification#Resource_Availability_Condition

AvailabilityGroup

AvailabilityGroup is an RDFS class.

The Availability Group resource, describing a group of resources in the context of high availability, for example redundant database systems, that are in a master-slave relationship to guarantee reliability.

See Also:

- http://open-services.net/wiki/automation/Availability-Specification#Resource_Availability_Group

RedundancyGroup

RedundancyGroup is an RDFS class.

The Redundancy Group resource, an Availability Group that members are redundant to each other.

See Also:

- http://open-services.net/wiki/automation/Availability-Specification#Resource_Redundancy_Group

RedundancyMember

RedundancyMember is an RDFS class.

The Redundancy Member resource, a Redundancy Group member.

See Also:

- http://open-services.net/wiki/automation/Availability-Specification#Resource_Redundancy_Member

memberOf

memberOf is an RDF property.

Reference to a target resource, that groups several resources. The resource with this property is therefore a member of the target resource's group. It is very likely that the target resource is an *oslc-availability:AvailabilityGroup*, but that is not necessarily the case.

See Also:

- http://open-services.net/wiki/automation/Availability-Specification#Resource_Availability_Group

rtoRequirement

rtoRequirement is an RDF property.

Recovery Time Objective (RTO) requirement for a resource in the context of Availability. It is expected that this will be a resource reference to a definition of a valid target type on the service provider.

See Also:

- http://open-services.net/wiki/automation/Availability-Specification#Resource_Availability_Resource

compoundState

compoundState is an RDF property.

Status overview of an Availability Resource. Summarize the relationship between *oslc-availability:currentState* and *oslc-availability:desiredState*. It is expected that this will be a resource reference to a definition of a valid target type on the service provider.

See Also:

- http://open-services.net/wiki/automation/Availability-Specification#Resource_Availability_Condition

currentState

currentState is an RDF property.

The current state of a resource in the context of Availability. It is expected that this will be a resource reference to a definition of a valid target type on the service provider.

See Also:

- http://open-services.net/wiki/automation/Availability-Specification#Resource_Availability_Condition

desiredState

desiredState is an RDF property.

The desired state of a resource in the context of Availability. If the resource's *oslc-availability:currentState* is different, it is very likely that a problem occurred. It is expected that this will be a resource reference to a definition of a valid target type on the service provider.

See Also:

- http://open-services.net/wiki/automation/Availability-Specification#Resource_Availability_Condition

mttf

mttf is an RDF property.

Mean Time To Failure (MTTF), the average elapsed time between failures of the resource during operation.

The Mean Time Between Failure (MTBF) can be calculated by a consumer as the sum of *oslc-availability:mttf* and *oslc-availability:mtrr*.

See Also:

- http://open-services.net/wiki/automation/Availability-Specification#Resource_Availability_Condition

mtrr

mtrr is an RDF property.

Mean Time To Repair (MTTR), the average elapsed time until the resource is repaired after a failure/ the actual measured RTO.

The Mean Time Between Failure (MTBF) can be calculated by a consumer as the sum of *oslc-availability:mttf* and *oslc-availability:mtrr*.

See Also:

- http://open-services.net/wiki/automation/Availability-Specification#Resource_Availability_Condition

numberActiveMembers

numberActiveMembers is an RDF property.

The number of currently active resources of a group in the context of Availability.

See Also:

- http://open-services.net/wiki/automation/Availability-Specification#Resource_Availability_Group

SLA

SLA is an RDF property.

The Service Level Agreement (SLA) specified for a resource or group of resources in the context of Availability. This property can be a String or even a reference to a document, containing the Service Level Agreement. How such a SLA is modelled in detail, is not part of the Availability specification or this vocabulary document.

See Also:

- http://open-services.net/wiki/automation/Availability-Specification#Resource_Availability_Group

maxActiveMembers

maxActiveMembers is an RDF property.

Maximum number of members in a group, that are allowed to be active. Excessing this value implies a problematic state.

See Also:

- http://open-services.net/wiki/automation/Availability-Specification#Resource_Redundancy_Group

minActiveMembers

minActiveMembers is an RDF property.

Minimum number of *members* in a group, that should be active. Underrunning this value implies a problematic state.

See Also:

- http://open-services.net/wiki/automation/Availability-Specification#Resource_Redundancy_Group

redundancyCapability

redundancyCapability is an RDF property.

An indication of the level of redundancy provided.

See Also:

- http://open-services.net/wiki/automation/Availability-Specification#Resource_Redundancy_Group

synchronizationType

synchronizationType is an RDF property.

Information about how a group of redundant resources synchronize each other.

It is expected that this will be a resource reference to a definition of a valid target type on the service provider.

See Also:

- http://open-services.net/wiki/automation/Availability-Specification#Resource_Redundancy_Group

redundancyRole

redundancyRole is an RDF property.

Specifies the role of a resource in the context of Availability in terms of redundancy, for example if the resource is a master or a slave component.

It is expected that this will be a resource reference to a definition of a valid target type on the service provider.

See Also:

- http://open-services.net/wiki/automation/Availability-Specification#Resource_Redundancy_Member