
ReqIF OSLC Tracker Specification

Project [RM Product Definitions_Private \(RM\)](#)

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Configuration [RM Product Definitions_Private \(RM\)](#)

Configuration Type Local Configuration

Component [RM Product Definitions_Private \(RM\)](#)

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1 Scope

This document is a brief description of the salient features of the DNG ReqIF OSLC task tracker representation.

2 Version History

Version	Date	Description	Author
1.0	01st June 2021	Initial submission	David Murray

3 Tracker state representations

There are 4 valid states (with variations within some states) for the DNG ReqIF task tracker, shown in the table below :

	References	Title	Percentage	State	Verdicts
Initialized		"INITIALIZED"	0	oslc:queued	oslc:unavailable
Running		"RUNNING REQIF OPERATION"	task progress	oslc:inprogress	oslc:unavailable
Complete (passed)	package descriptor uri	"COMPLETED REQIF OPERATION"	100	oslc:complete	oslc:passed
Complete (error)		"COMPLETED REQIF OPERATION"	100	oslc:complete	oslc:error
Queued		"RETRYING:<count>,<limit>"	0	oslc:queued	oslc:unavailable
Cancelled		"RETRY LIMIT REACHED"	0	oslc:cancelled	oslc:unavailable

Note that the **Initialized** and the **Queued** states can be distinguished by examining the title property.

4 Tracker state transitions

There are 3 basic state flows :

1. Initialized -> Running -> Complete
2. Initialized -> Queued (Retry) -> Running -> Complete
3. Initialized -> Queued (Retry) -> Cancelled (Retry limit exceeded)

5 Examples

5.1 Initialized

```

<rdf:RDF
  xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:jfs="http://jazz.net/xmlns/foundation/1.0/"
  xmlns:acp="http://jazz.net/ns/acp#"
  xmlns:calm="http://jazz.net/xmlns/prod/jazz/calm/1.0/"
  xmlns:jazz_rm="http://jazz.net/ns/rm#"
  xmlns:acc="http://open-services.net/ns/core/acc#"
  xmlns:rmTypes="http://www.ibm.com/xmlns/rdm/types/"
  xmlns:process="http://jazz.net/ns/process#"
  xmlns:rmWorkflow="http://www.ibm.com/xmlns/rdm/workflow/"
  xmlns:dcterms="http://purl.org/dc/terms/"
  xmlns:dc="http://purl.org/dc/elements/1.1/"
  xmlns:h="http://www.w3.org/TR/REC-html40"
  xmlns:xs="http://schema.w3.org/xs/"
  xmlns:oslc="http://open-services.net/ns/core#"
  xmlns:nav="http://jazz.net/ns/rm/navigation#"
  xmlns:oslc_config="http://open-services.net/ns/config#"
  xmlns:oslc_rm="http://open-services.net/ns/rm#"
  xmlns:dng_task="http://jazz.net/ns/rm/dng/task#"
  xmlns:rm="http://www.ibm.com/xmlns/rdm/rdf/"
  xmlns:oslc_auto="http://open-services.net/ns/auto#">
<dng_task:Task rdf:about="null">
  <dng_task:percentage rdf:datatype="http://www.w3.org/2001/XMLSchema#integer"
  >0</dng_task:percentage>
  <dcterms:title rdf:parseType="Literal">INITIALIZED</dcterms:title>
  <oslc_auto:state rdf:resource="http://open-services.net/ns/auto#queued"/>
  <oslc_auto:verdict rdf:resource="http://open-services.net/ns/auto#unavailable"/>
</dng_task:Task>
</rdf:RDF>

```

5.2 Running

```

<rdf:RDF
  xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:jfs="http://jazz.net/xmlns/foundation/1.0/"
  xmlns:acp="http://jazz.net/ns/acp#"
  xmlns:calm="http://jazz.net/xmlns/prod/jazz/calm/1.0/"
  xmlns:jazz_rm="http://jazz.net/ns/rm#"
  xmlns:acc="http://open-services.net/ns/core/acc#"
  xmlns:rmTypes="http://www.ibm.com/xmlns/rdm/types/"
  xmlns:process="http://jazz.net/ns/process#"
  xmlns:rmWorkflow="http://www.ibm.com/xmlns/rdm/workflow/"
  xmlns:dcterms="http://purl.org/dc/terms/"
  xmlns:dc="http://purl.org/dc/elements/1.1/"
  xmlns:h="http://www.w3.org/TR/REC-html40"
  xmlns:xs="http://schema.w3.org/xs/"
  xmlns:oslc="http://open-services.net/ns/core#"
  xmlns:nav="http://jazz.net/ns/rm/navigation#"
  xmlns:oslc_config="http://open-services.net/ns/config#"

```

```

xmlns:oslc_rm="http://open-services.net/ns/rm#"
xmlns:dng_task="http://jazz.net/ns/rm/dng/task#"
xmlns:rm="http://www.ibm.com/xmlns/rdm/rdf/"
xmlns:oslc_auto="http://open-services.net/ns/auto#">
<dng_task:Task rdf:about="null">
  <dng_task:percentage rdf:datatype="http://www.w3.org/2001/XMLSchema#integer"
  >95</dng_task:percentage>
  <dcterms:title rdf:parseType="Literal">RUNNING REQIF OPERATION</dcterms:title>
  <oslc_auto:state rdf:resource="http://open-services.net/ns/auto#inProgress"/>
  <oslc_auto:verdict rdf:resource="http://open-services.net/ns/auto#unavailable"/>
</dng_task:Task>
</rdf:RDF>

```

5.3 Complete

```

<rdf:RDF
  xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:jfs="http://jazz.net/xmlns/foundation/1.0/"
  xmlns:acp="http://jazz.net/ns/acp#"
  xmlns:calm="http://jazz.net/xmlns/prod/jazz/calm/1.0/"
  xmlns:jazz_rm="http://jazz.net/ns/rm#"
  xmlns:acc="http://open-services.net/ns/core/acc#"
  xmlns:rmTypes="http://www.ibm.com/xmlns/rdm/types/"
  xmlns:process="http://jazz.net/ns/process#"
  xmlns:rmWorkflow="http://www.ibm.com/xmlns/rdm/workflow/"
  xmlns:dcterms="http://purl.org/dc/terms/"
  xmlns:dc="http://purl.org/dc/elements/1.1/"
  xmlns:h="http://www.w3.org/TR/REC-html40"
  xmlns:xs="http://schema.w3.org/xs/"
  xmlns:oslc="http://open-services.net/ns/core#"
  xmlns:nav="http://jazz.net/ns/rm/navigation#"
  xmlns:oslc_config="http://open-services.net/ns/config#"
  xmlns:oslc_rm="http://open-services.net/ns/rm#"
  xmlns:dng_task="http://jazz.net/ns/rm/dng/task#"
  xmlns:rm="http://www.ibm.com/xmlns/rdm/rdf/"
  xmlns:oslc_auto="http://open-services.net/ns/auto#">
  <dng_task:Task rdf:about="null">
    <dcterms:references
rdf:resource="https://clmwb.com:9444/rdm/reqif/descriptors/RP_Vcqp4H2MEeqtC7UO4ZOcXg"/>
    <dng_task:percentage rdf:datatype="http://www.w3.org/2001/XMLSchema#integer"
    >100</dng_task:percentage>
    <dcterms:title rdf:parseType="Literal">COMPLETED REQIF OPERATION</dcterms:title>
    <oslc_auto:state rdf:resource="http://open-services.net/ns/auto#complete"/>
    <oslc_auto:verdict rdf:resource="http://open-services.net/ns/auto#passed"/>
  </dng_task:Task>
</rdf:RDF>

```

5.4 Queued

In the Queued state, the operation is waiting for the completion of another ReqIF activity running in the same component.

The tracker title property holds a string of the following format :

"RETRYING:<Retry Count>,<Retry Limit>"

Example :

"RETRYING:11,20"

This is intended to give OSLC clients a method of tracking the current state of the retry logic.

```
<rdf:RDF
  xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:jfs="http://jazz.net/xmlns/foundation/1.0/"
  xmlns:acp="http://jazz.net/ns/acp#"
  xmlns:calm="http://jazz.net/xmlns/prod/jazz/calm/1.0/"
  xmlns:jazz_rm="http://jazz.net/ns/rm#"
  xmlns:acc="http://open-services.net/ns/core/acc#"
  xmlns:rmTypes="http://www.ibm.com/xmlns/rdm/types/"
  xmlns:process="http://jazz.net/ns/process#"
  xmlns:rmWorkflow="http://www.ibm.com/xmlns/rdm/workflow/"
  xmlns:dcterms="http://purl.org/dc/terms/"
  xmlns:dc="http://purl.org/dc/elements/1.1/"
  xmlns:h="http://www.w3.org/TR/REC-html40"
  xmlns:xs="http://schema.w3.org/xs/"
  xmlns:oslc="http://open-services.net/ns/core#"
  xmlns:nav="http://jazz.net/ns/rm/navigation#"
  xmlns:oslc_config="http://open-services.net/ns/config#"
  xmlns:oslc_rm="http://open-services.net/ns/rm#"
  xmlns:dng_task="http://jazz.net/ns/rm/dng/task#"
  xmlns:rm="http://www.ibm.com/xmlns/rdm/rdf/"
  xmlns:oslc_auto="http://open-services.net/ns/auto#">
  <dng_task:Task rdf:about="null">
    <dng_task:percentage rdf:datatype="http://www.w3.org/2001/XMLSchema#integer"
    >0</dng_task:percentage>
    <dcterms:title rdf:parseType="Literal">RETRYING:11,20</dcterms:title>
    <oslc_auto:state rdf:resource="http://open-services.net/ns/auto#queued"/>
    <oslc_auto:verdict rdf:resource="http://open-services.net/ns/auto#unavailable"/>
  </dng_task:Task>
</rdf:RDF>
```

5.5 Cancelled

```
<rdf:RDF
  xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:jfs="http://jazz.net/xmlns/foundation/1.0/"
```

```

xmlns:acp="http://jazz.net/ns/acp#"
xmlns:calm="http://jazz.net/xmlns/prod/jazz/calm/1.0/"
xmlns:jazz_rm="http://jazz.net/ns/rm#"
xmlns:acc="http://open-services.net/ns/core/acc#"
xmlns:rmTypes="http://www.ibm.com/xmlns/rdm/types/"
xmlns:process="http://jazz.net/ns/process#"
xmlns:rmWorkflow="http://www.ibm.com/xmlns/rdm/workflow/"
xmlns:dcterms="http://purl.org/dc/terms/"
xmlns:dc="http://purl.org/dc/elements/1.1/"
xmlns:h="http://www.w3.org/TR/REC-html40"
xmlns:xs="http://schema.w3.org/xs/"
xmlns:oslc="http://open-services.net/ns/core#"
xmlns:nav="http://jazz.net/ns/rm/navigation#"
xmlns:oslc_config="http://open-services.net/ns/config#"
xmlns:oslc_rm="http://open-services.net/ns/rm#"
xmlns:dng_task="http://jazz.net/ns/rm/dng/task#"
xmlns:rm="http://www.ibm.com/xmlns/rdm/rdf/"
xmlns:oslc_auto="http://open-services.net/ns/auto#">
<dng_task:Task rdf:about="null">
  <oslc_auto:verdict rdf:resource="http://open-services.net/ns/auto#unavailable"/>
  <oslc_auto:state rdf:resource="http://open-services.net/ns/auto#canceled"/>
  <dng_task:percentage rdf:datatype="http://www.w3.org/2001/XMLSchema#integer"
  >0</dng_task:percentage>
  <dcterms:title rdf:parseType="Literal">RETRY LIMIT REACHED</dcterms:title>
</dng_task:Task>
</rdf:RDF>

```

6 References

<https://jazz.net/wiki/bin/view/Main/DNGTaskTracker>

<https://archive.open-services.net/wiki/automation/OSLC-Automation-Specification-Version-2.0/index.html>

<https://archive.open-services.net/wiki/automation/OSLC-Automation-Vocabulary/index.html>