



CHAPTER 2

Replication Status APIs

This chapter describes the Replication Status API and the servlet actions it performs. The Replication Status API returns a list of delivery services, Service Engines, or contents, and for each delivery service, an indication whether replication of content for the specified delivery service is complete or not.

Replication Status API Actions

The Replication Status API is the `ReplicationStatusApiServlet`.

Syntax

`https://<cdsmIpAddress>:8443/servlet/com.cisco.unicorn.ui.RepStatusApiServlet...`

This servlet performs one or more of the following actions:

- [getDeliveryServices](#)
- [getSEsOfDeliveryService](#)
- [getDeliveryServicesOfSE](#)
- [getReplicatedContent](#)
- [getNonReplicatedContent](#)
- [getContent](#)
- [getStatusOfContentItems](#)
- [getStatusOfContentItemInDeliveryService](#)

getDeliveryServices

Obtains the status of content replication of specified delivery services.

Parameter

Either a list of delivery service IDs or the keyword **all** is required.

Return

A list of the delivery services, and for each delivery service, a flag indicating whether replication for the specified delivery service is complete or incomplete.

Syntax

```
https://<cdsmIpAddress>:8443/servlet/com.cisco.unicorn.ui.RepStatusApiServlet?
action=getDeliveryServices&deliveryservice=[all | <deliveryservice_ID>,<deliveryservice_ID>,...]
```

getSEsOfDeliveryService

Obtains the status of content replication for all Service Engines assigned to the specified delivery service.

Parameter

- Delivery service ID (required)
- Refetch (optional)—The default is false.

If refetch is set to true, a background request to obtain a newly updated status is sent to all Service Engines assigned to this delivery service. To view the newly available information, the user must call the API again after several minutes without a refetch.

Return

A list of all Service Engines assigned to a specified delivery service and, for each specified Service Engine, a flag whether replication for the specified Service Engine is complete or incomplete.

Syntax

```
https://<cdsmIpAddress>:8443/servlet/com.cisco.unicorn.ui.RepStatusApiServlet?
action=getSEsOfDeliveryService&deliveryservice=<deliveryservice_ID>[&refetch=<true | false>]
```

getDeliveryServicesOfSE

Obtains the status of content replication for all delivery services assigned to the specified Service Engine.

Parameter

- Service Engine ID (required)
- Refetch (optional)—The default is false.

If refetch is set to true, a background request to obtain a newly updated status is sent to all Service Engines assigned to this delivery service. To view the newly available information, the user must call the API again after several minutes without a refetch.

Return

A list of all delivery services assigned to a specified Service Engine and, for each delivery service, a flag whether replication for the specified delivery service is complete or incomplete.

Syntax

```
https://<cdsmIpAddress>:8443/servlet/com.cisco.unicorn.ui.RepStatusApiServlet?
action=getDeliveryServicesOfSE&se=<SE_ID>[&refetch=<true | false>]
```

getReplicatedContent

Lists all replicated items of a specified Service Engine on a specified delivery service, with or without search criteria.

Parameter

- Service Engine ID (required)
- Delivery service ID (required)
- Search criteria (optional)

One or more content names or patterns must each be separated by a comma. Patterns can contain the wildcards * or ?.

- Refetch (optional)—The default is false.

If refetch is set to true, a background request to retrieve the content is issued. The updated information is cached on the CDSM and can be retrieved in the next call.

Return

A list of all replicated content items on a specified Service Engine for a specified delivery service that matches the search criteria, if the search criteria have been specified.

Syntax

```
https://<cdsmIpAddress>:8443/servlet/com.cisco.unicorn.ui.RepStatusApiServlet?  
action=getReplicatedContent&se=<SE_ID>&deliveryservice=<deliveryservice_ID>[&criteria=  
<criteria>][&refetch=<true | false>]
```

getNonReplicatedContent

Lists all nonreplicated items of a specified Service Engine on a specified delivery service, with or without search criteria.

Parameter

- Service Engine ID (required)
- Delivery service ID (required)
- Search criteria (optional)

One or more content names or patterns must each be separated by a comma. Patterns can contain the wildcards * or ?.

- Refetch (optional)—The default is false.

If refetch is set to true, a background request to retrieve the content is issued. The updated information is cached in the CDSM and can be retrieved in the next call.

Return

A list of all content items that are not replicated on a specified Service Engine of a specified delivery service that matches the search criteria, if search criteria have been specified. The list includes content items that are yet to be replicated, are in the process of being replicated, or have failed to be replicated.

Syntax

```
https://<cddmIpAddress>:8443/servlet/com.cisco.unicorn.ui.RepStatusApiServlet?
action=getNonReplicatedContent&ce=<SE_ID>&deliveryservice=<deliveryservice_ID>[&criteria=
<criteria>][&refetch=<true | false>]
```

getContent

Lists all content items of a Service Engine on a specified delivery service, with or without search criteria.

Parameter

- Service Engine ID (required)
- Delivery service ID (required)
- Search criteria (optional)

One or more content names or patterns must each be separated by a comma. Patterns can contain the wildcards * or ?.

- Refetch (optional)—The default is false.

If refetch is set to true, a background request to retrieve the content is issued. The updated information is cached on the CDSM and can be retrieved in the next call.

Return

A list of all content items on the Service Engine of a specified delivery service that matches the specified criteria, if search criteria have been specified.

Syntax

```
https://<cddmIpAddress>:8443/servlet/com.cisco.unicorn.ui.RepStatusApiServlet?action=
getContent&se=<SE_ID>&deliveryservice=<deliveryservice_ID>[&criteria=<criteria>][&refetch=
<true | false>]
```

getStatusOfContentItems

Lists content items of a delivery service, with or without search criteria, in all the Service Engines assigned to that delivery service.

Parameter

- Delivery service ID (required)
- Search criteria (optional)

One or more content names or patterns must each separated by a comma. Patterns can contain the wildcards * or ?.

- Refetch (optional)—The default is false.

If refetch is set to true, a background request to retrieve the content is issued. The updated information is cached in the CDSM and can be retrieved in the next call.

**Note**

When refetch is set to true, the request is sent to the Service Engines assigned to the delivery service to obtain new information. This is a processor-intensive operation.

Return

A list of all content items in the delivery service and their status across Service Engines, or a list of content items that matches the specified criteria and their status across Service Engines, if search criteria have been specified.

Syntax

```
https://<cdsmIpAddress>:8443/servlet/com.cisco.unicorn.ui.RepStatusApiServlet?action=
getStatusOfContentItems&deliveryservice=<deliveryservice_ID>[&criteria=<criteria>][&refetch=
<true | false>]
```

getStatusOfContentItemInDeliveryService

Lists the status of a specified content item in the delivery service on all the Service Engines assigned to the delivery service.

Parameter

- Delivery service ID (required)
- Complete URL of the content item (required)

Return

The status of the specified content item on all the Service Engines assigned to the delivery service.



Note This action must be called after the [getStatusOfContentItems](#) action; otherwise, unexpected output results. The URL must be one of the URLs listed in the output of the [getStatusOfContentItems](#) action.

Syntax

```
https://<cdsmIpAddress>:8443/servlet/com.cisco.unicorn.ui.RepStatusApiServlet?action=
getStatusOfContentItemInDeliveryService&deliveryservice=<deliveryservice_ID>&criteria=
<complete URL of the delivery service content item>
```

XML-Formatted Output for Replication Status

The following is the Document Type Definition (DTD) of the XML-formatted output for the replication status:

```
<?xml version="1.0"?>
<!DOCTYPE replicationStatus[
  <!ELEMENT replicationStatus (message, CeStatus*, Delivery-Service-Status*)>
  <!ATTLIST replicationStatus
    action          CDATA #REQUIRED
    count           CDATA #REQUIRED
  >
  <!ELEMENT message EMPTY>
  <!ATTLIST message
    status          (success | failure) "success"
    message         CDATA #REQUIRED
  >
  <!ELEMENT CeStatus EMPTY>
  <!ATTLIST CeStatus
```

```

ceId          CDATA #REQUIRED
ceName        CDATA #IMPLIED
channelId     CDATA #REQUIRED
channelName   CDATA #IMPLIED
state         CDATA #IMPLIED
filesDone     CDATA #IMPLIED
filesToDo     CDATA #IMPLIED
filesFailed   CDATA #IMPLIED
filesUpdateFailed CDATA #IMPLIED
totalFiles    CDATA #IMPLIED
updateTime    CDATA #IMPLIED
>
<!ELEMENT Delivery servicestatus EMPTY>
<!ATTLIST Delivery servicestatus
  id          CDATA #REQUIRED
  totalNumCes CDATA #REQUIRED
  numCesComplete CDATA #REQUIRED
  numCesInProgress CDATA #REQUIRED
  numCesFailed CDATA #REQUIRED
  numCesUnknownState CDATA #REQUIRED
  rootCeState CDATA #REQUIRED
  manifestError CDATA #IMPLIED
  usedDiskQuota CDATA #IMPLIED
  validAsOf CDATA #IMPLIED
>

```