



Replication Status API

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

Replication Status API Actions

The Replication Status API is the `ReplicationStatusApiServlet`.

Syntax

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

This servlet performs one or more of the following actions:

- [getChannels](#)
- [getCEsOfChannel](#)
- [getChannelsOfCE](#)
- [getReplicatedContent](#)
- [getNonReplicatedContent](#)
- [getContent](#)
- [getStatusOfContentItems](#)
- [getStatusOfContentItemInChannel](#)

getChannels

Obtains the status of content replication of specified channels.

Parameter

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

Return

A list of the channels, and for each channel, a flag whether replication for the specified channel is complete or incomplete.

Syntax

```
https://<cdmIpAddress>:8443/servlet/com.cisco.unicorn.ui.RepStatusApiServlet?  
action=getChannels&channel=[all | <channel_ID>,<channel_ID>,...]
```

getCEsOfChannel

Obtains the status of content replication for all Content Engines assigned to the specified channel.

Parameter

- Channel 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 Content Engines assigned to this channel. To view the newly available information, the user must call the API again after several minutes without a refetch.

Return

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

Syntax

```
https://<cdmIpAddress>:8443/servlet/com.cisco.unicorn.ui.RepStatusApiServlet?  
action=getCEsOfChannel&channel=<channel_ID>[&refetch=<true | false>]
```

getChannelsOfCE

Obtains the status of content replication for all channels assigned to the specified Content Engine.

Parameter

- Content 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 Content Engines assigned to this channel. To view the newly available information, the user must call the API again after several minutes without a refetch.

Return

A list of all channels assigned to a specified Content Engine and, for each channel, a flag whether replication for the specified channel is complete or incomplete.

Syntax

```
https://<cdmIpAddress>:8443/servlet/com.cisco.unicorn.ui.RepStatusApiServlet?  
action=getChannelsOfCE&ce=<CE_ID>[&refetch=<true | false>]
```

getReplicatedContent

Lists all replicated items of a specified Content Engine on a specified channel, with or without search criteria.

Parameter

- Content Engine ID (required).
- Channel 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 Content Distribution Manager and can be retrieved in the next call.

Return

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

Syntax

```
https://<cdmIpAddress>:8443/servlet/com.cisco.unicorn.ui.RepStatusApiServlet?  
action=getReplicatedContent&ce=<CE_ID>&channel=<channel_ID>[&criteria=<criteria>]  
[&refetch=<true | false>]
```

getNonReplicatedContent

Lists all nonreplicated items of a specified Content Engine on a specified channel, with or without search criteria.

Parameter

- Content Engine ID (required).
- Channel ID (required).
- Search criteria (optional).

One or more content names or patterns, 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 Content Distribution Manager and can be retrieved in the next call.

Return

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

Syntax

```
https://<cdmIpAddress>:8443/servlet/com.cisco.unicorn.ui.RepStatusApiServlet?  
action=getNonReplicatedContent&ce=<CE_ID>&channel=<channel_ID>[&criteria=<criteria>]  
[&refetch=<true | false>]
```

getContent

Lists all content items of a Content Engine on a specified channel, with or without search criteria.

Parameter

- Content Engine ID (required).
- Channel 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 Content Distribution Manager and can be retrieved in the next call.

Return

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

Syntax

```
https://<cdmIpAddress>:8443/servlet/com.cisco.unicorn.ui.RepStatusApiServlet?action=getContent&ce=<CE_ID>&channel=<channel_ID>[&criteria=<criteria>][&refetch=<true | false>]
```

getStatusOfContentItems

Lists content items of a channel, with or without search criteria, in all the Content Engines assigned to that channel.

Parameter

- Channel ID (required)
- Search criteria (optional)

One or more content names or patterns, 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 Content Distribution Manager and can be retrieved in the next call.



Note

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

Return

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

Syntax

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

getStatusOfContentItemInChannel

Lists the status of a specified content item in the channel on all the Content Engines assigned to the channel.

Parameter

- Channel ID (required)
- Complete URL of the content item (required)

Return

The status of the specified content item on all the Content Engines assigned to the channel.



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://<cdmIpAddr>:8443/servlet/com.cisco.unicorn.ui.RepStatusApiServlet?action=getStatusOfContentItemInChannel&channel=<Channel_ID>&criteria=<complete URL of the channel content item>
```

XML Formatted Output

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

```
<?xml version="1.0"?>
<!DOCTYPE replicationStatus[
  <!ELEMENT replicationStatus (message, CeStatus*, ChannelStatus*)>
  <!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 ChannelStatus EMPTY>
<!--ATTLIST ChannelStatus
    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
-->
```