



Replication Group APIs

This chapter describes the format and content of the following Replication Group APIs.

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All HTTP request messages follow the format given in the “HTTP Headers” section on page 1-3.

Add Replication Group

Following are the request components:

Request Type

HTTP method supported: POST.

Request Format

```
curl --form upload=@/root/replicateGroup.xml --form press=OK  
'Content-Type:text/xml;charset=UTF-8' 'enctype=multipart/form-data'  
http://<VVIM/CDSM_HostIP>/api/services/configure/array/id/addReplicationGroup
```

Request Body XML

The addReplicationGroup POST REST API is used to upload one or more replication groups to the system.

Following is the XML body for the POST request to add the replication group configuration settings:

```
<?xml version="1.0" encoding="UTF-8"?>  
<ReplicationGroupConfigList  
  xmlns="http://www.cisco.com/schemas/VCPBU/CDS-TV/R0/ciscowebsvcs">  
  <ReplicationGroupConfig GroupName='PCG1' IPAddress='10.197.105.103'  
    SubnetMask='255.255.255.0' Type='Cache'>  
    <ReplicationGroupMembers>  
      <Server IPAddress='10.178.78.81' ServerID='81' GroupID='2425' />  
      <Server IPAddress='10.178.78.82' ServerID='82' GroupID='2425' />  
    </ReplicationGroupMembers>  
  </ReplicationGroupConfig>  
</ReplicationGroupConfigList>
```

```
</ReplicationGroupConfigList>
```

Table 7-2 describes the XML body elements, sub elements, and attributes of the request.

Response

If the request fails, the status message indicates that an error occurred while adding the replication group and one of the following error codes is returned:

- 1623
- 1624
- 1628
- 1629
- 1630
- 1631
- 1632
- 1639

For additional information on replication error codes, see Table 7-1.

If the request succeeds, the status message indicates that the “Replication group setup configured successfully” and the following response is returned:

```
<?xml version="1.0" encoding="UTF-8"?>
<status> Replication group setup configured successfully</status>
```

Replication Error Codes

Table 7-1 Replication Error Codes

Error Code	Description
1623	Replicate Group names must be unique among all Replicate Groups name.
1624	Replicate Group IP must be unique among all Replicate Groups name.
1628	Replicate member IP not configured.
1629	Invalid Server ID and Group ID of Replicate Member IP
1630	Invalid group type of Replicate Member IP
1631	Invalid Replicate Group Name.
1632	Error : Failed to import Replication group setup configurations from XML
1639	Please un-assign group members prior to deleting replicate group.

Delete Replication Group

Following are the request components:

Request Type

HTTP method supported: POST.

Request Format

```
curl --form upload=@/root/replicateGroup.xml --form press=OK
'Content-Type:text/xml;charset=UTF-8' 'enctype=multipart/form-data'
http://<VVIM/CDSM_HostIP>/api/services/configure/array/id/deleteReplicationGroup
```

Request Body XML

The deleteReplicationGroup POST REST API is used to delete one or more replication groups from the system.

Following is the XML body for the POST request to delete the replication group configuration settings:

```
<?xml version="1.0" encoding="UTF-8"?>
<ReplicationGroupConfigList
xmlns="http://www.cisco.com/schemas/VCPBU/CDS-TV/R0/ciscowebsvcs">
  <ReplicationGroupConfig GroupName='PCG1' IPAddress='10.197.105.103'
SubnetMask='255.255.255.0' Type='Cache'>
    <ReplicationGroupMembers>
      <Server IPAddress='10.178.78.81' ServerID='81' GroupID='2425' />
      <Server IPAddress='10.178.78.82' ServerID='82' GroupID='2425' />
    </ReplicationGroupMembers>
  </ReplicationGroupConfig>
</ReplicationGroupConfigList>
```

[Table 7-2](#) describes the XML body elements, sub elements, and attributes of the request.

Response

If the request fails, the status message indicates that an error occurred while request to delete replication group and one of the following error codes is returned:

- 1631
- 1639

For additional information on replication error codes, see [Table 7-1](#)

If the request succeeds, the status message indicates that the “Replication group(s) deleted successfully” and the following response is returned:

```
<?xml version="1.0" encoding="UTF-8"?>
<status> Replication group(s) deleted successfully</status>
```

Assign members to Replication Group

Following are the request components:

Request Type

HTTP method supported: POST.

Request Format

```
curl --form upload=@/root/replicateGroup.xml --form press=OK
'Content-Type:text/xml;charset=UTF-8' 'enctype=multipart/form-data'
http://<VVM/CDSM_HostIP>/api/services/configure/array/id/assignReplicationGroup
```

Request Body XML

The assignReplicationGroup POST REST API is used to assign one or more servers to a replication group.

Following is the XML body for the POST request to assign one or more servers to a replication group:

```
<?xml version="1.0" encoding="UTF-8"?>
<ReplicationGroupConfigList
xmlns="http://www.cisco.com/schemas/VCPBU/CDS-TV/R0/ciscowebsvcs">
  <ReplicationGroupConfig GroupName='PVG1' IPAddress='10.197.105.103'
SubnetMask='255.255.255.0' Type='Vault'>
    <ReplicationGroupMembers>
      <Server IPAddress='10.178.78.81' ServerID='81' GroupID='2425' />
      <Server IPAddress='10.178.78.82' ServerID='82' GroupID='2425' />
      <Server IPAddress='10.178.78.83' ServerID='83' GroupID='2425' />
    </ReplicationGroupMembers>
  </ReplicationGroupConfig>
</ReplicationGroupConfigList>
```

[Table 7-2](#) describes the XML body elements, sub elements, and attributes of the request.

Response

If the request fails, the status message indicates that an error occurred while assigning members to the replication group and one of the following error codes is returned:

- 1628
- 1629
- 1630
- 1631
- 1632

For additional information on replication error codes, see [Table 7-1](#).

If the request succeeds, the status message indicates that the “Replication group setup configured successfully” and the following response is returned:

```
<?xml version="1.0" encoding="UTF-8"?>
<status> Replication group setup configured successfully</status>
```

Un-assigning members from Replication Group

Following are the request components:

Request Type

HTTP method supported: POST.

Request Format

```
curl --form upload=@/root/replicateGroup.xml --form press=OK
'Content-Type:text/xml;charset=UTF-8' 'enctype=multipart/form-data'
http://<VVM/CDSM_HostIP>/api/services/configure/array/id/unassignReplicationGroup
```

Request Body XML

The unassignReplicationGroup POST REST API is used to un-assign one or more servers from a replication group.

Following is the XML body for the POST request to un-assign members from a replication group:

```
<?xml version="1.0" encoding="UTF-8"?>
<ReplicationGroupConfigList
xmlns="http://www.cisco.com/schemas/VCPBU/CDS-TV/R0/ciscowebsvcs">
  <ReplicationGroupConfig GroupName='' IPAddress='' SubnetMask='' Type='Streamer'>
    <ReplicationGroupMembers>
      <Server IPAddress='10.178.78.81' ServerID='81' GroupID='2425' />
      <Server IPAddress='10.178.78.82' ServerID='82' GroupID='2425' />
      <Server IPAddress='10.178.78.83' ServerID='83' GroupID='2425' />
    </ReplicationGroupMembers>
  </ReplicationGroupConfig>
</ReplicationGroupConfigList>
```

[Table 7-2](#) describes the XML body elements, sub elements, and attributes of the request.

Response

If the request fails, the status message indicates that an error occurred while un-assigning member from the replication group and one of the following error codes is returned:

- 1628
- 1629
- 1630
- 1632

For additional information on replication error codes, see [Table 7-1](#).

If the request succeeds, the status message indicates that the “Replication group setup configured successfully” and the following response is returned:

```
<?xml version="1.0" encoding="UTF-8"?>
<status> Replication group setup configured successfully</status>
```

Replication Group Configuration List

The replication group configuration list request-response message provides a list of all replication groups configured in the system. It also retrieves a list of replication groups based on specific filter criteria.

Request Type

HTTP method supported: GET.

Request Examples for different filter criteria

Filter By: getall

```
curl "http://<VVIM_hostIP>/api/services/configure/array/id/replicationGroupSetup"
```

Filter By: Group Name

```
curl "http://10.197.101.146/api/services/configure/array/id/replicationGroupSetup/groupName/PSG1"
```

Filter By: Group Type

```
curl "http://10.197.101.146/api/services/configure/array/id/replicationGroupSetup/groupType/Cache"
```

Filter By: Server ID

```
curl "http://10.197.101.146/api/services/configure/array/id/replicationGroupSetup/serverID/81"
```

Response

If the request fails, the following response is returned:

```
<?xml version="1.0" encoding="UTF-8"?><ReplicationGroupConfigList
xmlns="http://www.cisco.com/schemas/VCPBU/CDS-TV/R0/ciscowebsvcs"><error>No Records
Found</error></ReplicationGroupConfigList>
```

If the request succeeds, the list element is returned in the XML body response.

[Table 7-2](#) describes the XML body elements, sub elements, and attributes returned in the List element.

Table 7-2 *ReplicationGroupConfigList Element*

Element	Attributes/Sub Elements	Data Types	Descriptions
ReplicationGroupConfigList	—	List Element	Element that represents a list of replication groups configured in the system.
	ReplicationGroupConfig	Subelement	Element that represents a replication group.
ReplicationGroupConfig	—	ReplicationGroupConfigList Subelement	Element that represents a replication group.
	GroupName	xs:string	Replication Group Name.
	IPAddress	xs:string	IP address of the replication group.
	SubnetMask	xs:string	Subnet mask of the replication group.

Table 7-2 *ReplicationGroupConfigList Element (continued)*

	ReplicationGroupMembers	sublement	Element that represents the members of a replication group.
ReplicationGroupMembers	—	ReplicationGroupConfigSubelement	Element that represents the members of a replication group.
	Server	sublement	Elements that represents the server assigned to a replication group.
Server	—	ReplicationGroupMemberSubelement	Elements that represents the server assigned to a replication group.
	IPAddress	xs:string	IP address of the server assigned to a replication group.
	ServerID	xs:string	ID of the server assigned to a replication group,
	GroupID	xs:string	Group ID

Response Example

```
<?xml version="1.0" encoding="UTF-8"?>
<ReplicationGroupConfigList
xmlns="http://www.cisco.com/schemas/VCPBU/CDS-TV/R0/ciscowebsvcs">
  <ReplicationGroupConfig GroupName='PCG1' IPAddress='10.197.105.103'
SubnetMask='255.255.255.0' Type='Cache'>
    <ReplicationGroupMembers>
      <Server IPAddress='10.178.78.81' ServerID='81' GroupID='2425' />
      <Server IPAddress='10.178.78.82' ServerID='82' GroupID='2425' />
    </ReplicationGroupMembers>
  </ReplicationGroupConfig>
  <ReplicationGroupConfig GroupName='PVG1' IPAddress='10.197.105.104'
SubnetMask='255.255.255.0' Type='Vault'>
    <ReplicationGroupMembers>
      <Server IPAddress='10.178.78.91' ServerID='91' GroupID='2425' />
      <Server IPAddress='10.178.78.92' ServerID='92' GroupID='2425' />
    </ReplicationGroupMembers>
  </ReplicationGroupConfig>
</ReplicationGroupConfigList><
```

Unassigned Replication Servers List

The unassigned replication servers list request-response message provides a list of all servers unassigned from a replication group.

Request Type

HTTP method supported: GET.

Request Format

```
curl "http://<VVIM_hostIP>/api/services/configure/array/id/replicationGroupSetup"
```

Request Examples for different filter criteria

Filter By: getall

```
curl
"http://<VVIM_hostIP>/api/services/configure/array/id/getUnassignedReplicationServers"

Filter By: Group Type
curl
"http://<VVIM_hostIP>/api/services/configure/array/id/getUnassignedReplicationServers/groupType/Cache"
```

Response

If the request fails, the following response is returned:

```
<?xml version="1.0" encoding="UTF-8"?><ReplicationGroupConfigList
xmlns="http://www.cisco.com/schemas/VCPBU/CDS-TV/R0/ciscowebsvcs"><error>No Records
Found</error></ReplicationGroupConfigList>
```

If the request succeeds, the list element is returned in the XML body response.

[Table 7-2](#) describes the XML body elements, sub elements, and attributes returned in the List element.

Response Example

```
<?xml version="1.0" encoding="UTF-8"?>
<ReplicationGroupConfigList
xmlns="http://www.cisco.com/schemas/VCPBU/CDS-TV/R0/ciscowebsvcs">
  <ReplicationGroupConfig GroupName='' IPAddress='' SubnetMask='' Type='Cache'>
    <ReplicationGroupMembers>
      <Server IPAddress='10.178.78.81' ServerID='81' GroupID='2425' />
      <Server IPAddress='10.178.78.82' ServerID='82' GroupID='2425' />
    </ReplicationGroupMembers>
  </ReplicationGroupConfig>
  <ReplicationGroupConfig GroupName='' IPAddress='' SubnetMask='' Type='Vault'>
    <ReplicationGroupMembers>
      <Server IPAddress='10.178.78.91' ServerID='91' GroupID='2425' />
      <Server IPAddress='10.178.78.92' ServerID='92' GroupID='2425' />
    </ReplicationGroupMembers>
  </ReplicationGroupConfig>
</ReplicationGroupConfigList>
```