



## stcli dp (data protection) Commands

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### stcli dp Command

Data protection (DP) commands for replication and disaster recovery.

**stcli dp [-h] (vm | group | peer | schedule)**

Syntax Description	Option	Required or Optional	Description
	<b>group</b>	One of set required.	Data protection group snapshot operations.
	<b>peer</b>	One of set required.	Site replication pairing operations.
	<b>schedule</b>	One of set required.	Pause and resume replication, cluster wide for the sending cluster.
	<b>vm</b>	One of set required.	VM data protection with replication snapshot operations.

**Command Default** None. One option from the set is required.

**Usage Guidelines** Accompany the `stcli dp` command with one of the positional arguments enclosed in `{ }` or optionally, the arguments enclosed in `[ ]`.

### stcli dp vm Commands

HX Data Platform disaster recovery and native replication commands applied to virtual machines individually and not through the protection group.

**stcli dp vm [-h] {snapshot | add | list | info | delete | movein | moveout | schedule | prepareReverseProtect | reverseProtect | failover | testfailover | prepareFailover | migrate | hxtask}**

Syntax Description	Option	Required or Optional	Description
	<b>snapshot</b>	Unsupported	Beginning with HX Release 3.5(2g), the support for snapshot command was limited to Cisco Technical support only. General use is not supported.
	<b>add</b>	One of set required.	Add data protection to a virtual machine.
	<b>list</b>	One of set required.	List virtual machines under data protection.
	<b>info</b>	One of set required.	Display information about virtual machines under data protection.
	<b>delete</b>	One of set required.	Delete data protection from a virtual machine.
	<b>movein</b>	One of set required.	Move in data protection virtual machines to a protection group.
	<b>moveout</b>	One of set required.	Move out data protection virtual machines from a protection group.
	<b>schedule</b>	One of set required.	Schedule data protection for a virtual machine.
	<b>prepareReverseProtect</b>	One of set required.	Prepare reverse protection actions for the given virtual machine.
	<b>reverseProtect</b>	One of set required.	Perform reverse protection actions for the given virtual machine.
	<b>failover</b>	One of set required.	Failover the individual virtual machines from the recovery HX Storage Cluster.
	<b>testfailover</b>	One of set required.	Test recovery of individual virtual machines from the recovery HX Storage Cluster.
	<b>prepareFailover</b>	One of set required.	Prepare failover action for the given virtual machine.
	<b>migrate</b>	One of set required.	Migrate the given virtual machine.
	<b>hxtask</b>	One of set required.	Data protection related operations.

**Command Default** None. One option from the set is required.

**Usage Guidelines** Accompany the `stcli dp vm` command with one of the positional arguments enclosed in { } or optionally, the arguments enclosed in [ ].

## stcli dp vm snapshot Commands

Data protection virtual machine replication snapshot operations.



**Note** This command and its subcommands are not supported.

**stcli dp vm snapshot [-h] {create | replicate | list | info | delete}**

Syntax Description	Option	Required or Optional	Description
	<b>create</b>	One of set required.	Creates a replication snapshot for a virtual machine.
	<b>replicate</b>	One of set required.	Replicates a replication snapshot for a virtual machine.
	<b>list</b>	One of set required.	List replication snapshots available on this cluster.
	<b>info</b>	One of set required.	Show info for a replication snapshot.
	<b>delete</b>	One of set required.	Delete the specified replication snapshot.

**Command Default** None. One option from the set is required.

**Usage Guidelines** Accompany the `stcli dp vm snapshot` command with one of the positional arguments enclosed in `{ }` or optionally, the arguments enclosed in `[ ]`.

## stcli dp vm snapshot create Command

Creates a replication snapshot for a virtual machine.

**stcli dp vm snapshot create [-h] --vmid VMID [--vmidtype {VMBIOSUUID}] --snapname SNAPSHOTNAME [--desc DESCRIPTION] [--quiesce] [--offline]**

Syntax Description	Option	Required or Optional	Description
	<b>--vmid VMID</b>	Required.	Run command on the virtual machine that matches the specified BIOS UUID.
	<b>--vmidtype {VMBIOSUUID}</b>	Optional.	Run the command on the virtual machine that matches the specified ID type.
	<b>--snapname SNAPSHOTNAME</b>	Required.	Name of the replication snapshot.
	<b>--desc DESCRIPTION</b>	Optional.	Description of the replication snapshot.
	<b>--quiesce</b>	Optional.	Whether to use VMware Tools to quiesce the VMs before replication. VMware Tools must be installed in all the VMs in the replication group.
	<b>--Offline</b>	Optional	Take offline snapshot.

**Command Default** None.

**Usage Guidelines**

Accompany the `stcli dp vm snapshot create` command with the required arguments with leading two dashes (--), one of the positional arguments enclosed in { } or optionally, the arguments enclosed in [ ].

**stcli dp vm snapshot replicate Command**

Replicates a snapshot of a virtual machine to a remote cluster.

**stcli dp vm snapshot replicate [-h] --vmid VMID [--vmidtype {VMBIOSUUID}] --snapshot-id SNAPSHOT-ID --outgoing OUTGOING**

Syntax Description	Option	Required or Optional	Description
	<b>--vmid VMID</b>	Required.	Run command on the virtual machine that matches the specified BIOS UUID.
	<b>--vmidtype {VMBIOSUUID}</b>	Optional.	Run the command on the virtual machine that matches the specified ID type.
	<b>--snapshot-id SNAPSHOTID</b>	Required.	Snapshot ID of the VM to replicate.
	<b>--outgoing OUTGOING</b>	Required.	ID of the outgoing/target cluster where data is replicated to.

**Command Default**

None.

**Usage Guidelines**

Accompany the `stcli dp vm snapshot replicate` command with the required arguments with leading two dashes (--), one of the positional arguments enclosed in { } or optionally, the arguments enclosed in [ ].

**stcli dp vm snapshot list Command**

List replication snapshots available on this cluster.

**stcli dp vm snapshot list [-h] --vmid VMID [--vmidtype {VMBIOSUUID}]**

Syntax Description	Option	Required or Optional	Description
	<b>--vmid VMID</b>	Required.	Run command on the virtual machine that matches the specified BIOS UUID.
	<b>--vmidtype {VMBIOSUUID}</b>	Optional.	Run the command on the virtual machine that matches the specified ID type.

**Command Default**

None.

**Usage Guidelines**

Accompany the `stcli dp vm snapshot list` command with the required arguments with leading two dashes (--), one of the positional arguments enclosed in { } or optionally, the arguments enclosed in [ ].

**stcli dp vm snapshot info Command**

Show details of the VM snapshot.

**stcli dp vm snapshot info [-h] --vmid VMID [--vmidtype {VMBIOSUUID}] --snapshot-id SNAPSHOTID**

Syntax Description	Option	Required or Optional	Description
	<b>--vmid VMID</b>	Required.	Run command on the virtual machine that matches the specified BIOS UUID.
	<b>--vmidtype {VMBIOSUUID}</b>	Optional.	Run the command on the virtual machine that matches the specified ID type.
	<b>--snapshot-id SNAPSHOTID</b>	Required.	Snapshot ID of the VM.

**Command Default** None.

**Usage Guidelines** Accompany the `stcli dp vm snapshot info` command with the required arguments with leading two dashes (--), one of the positional arguments enclosed in { } or optionally, the arguments enclosed in [ ].

## stcli dp vm snapshot delete Command

Delete the specified snapshot.

**stcli dp vm snapshot delete [-h] --vmid VMID [--vmidtype {VMBIOSUUID}] --snapshot-id SNAPSHOTID**

Syntax Description	Option	Required or Optional	Description
	<b>--vmid VMID</b>	Required.	Run command on the virtual machine that matches the specified BIOS UUID.
	<b>--vmidtype {VMBIOSUUID}</b>	Optional.	Run the command on the virtual machine that matches the specified ID type.
	<b>--snapshot-id SNAPSHOTID</b>	Required.	Snapshot ID of the VM to be deleted.

**Command Default** None.

**Usage Guidelines** Accompany the `stcli dp vm snapshot delete` command with the required arguments with leading two dashes (--), one of the positional arguments enclosed in { } or optionally, the arguments enclosed in [ ].

## stcli dp vm add Command

Add data protection on a virtual machine.

Command syntax for Cisco HyperFlex Release 5.0(2a) and earlier.

**stcli dp vm add [-h] --vmid VMID [--vmidtype {VMBIOSUUID}]**

Syntax Description	Option	Required or Optional	Description
	<b>--vmid VMID</b>	Required.	Run command on the virtual machine that matches the specified BIOS UUID.  ID of the virtual machine (vmbiosuuid). For vCenter, specify the unique VMBIOSUUID of the virtual machine.
	<b>--vmidtype {VMBIOSUUID}</b>	Optional.	Run the command on the virtual machine that matches the specified ID type.  ID type of the virtual machine (vmbiosuuid). For vCenter, specify the unique virtual machine VMBIOSUUID.

**Command Default** None.

**Usage Guidelines** This command is only supported in Cisco HyperFlex Release 5.0(2a) and earlier.  
Accompany the `stcli dp vm add` command with the required arguments with leading two dashes (--) or optionally, the arguments enclosed in [ ].

## stcli dp vm list Command

List virtual machines with data protection. Display includes replication schedule.

**stcli dp vm list [-h] [--vmname VMNAME] [--vmid VMID] [--brief]**

Syntax Description	Option	Required or Optional	Description
	<b>--vmname VMNAME</b>	Optional.	Lists the protected virtual machine that matches the specified name.

Option	Required or Optional	Description
<b>--vmid VMID</b>	Optional.	<p>Run command on the virtual machine that matches the specified internal original VMID used to track the VM through its entire life cycle (also referred to as the BIOS UUID).</p> <p><b>Note</b> If you perform a Recovery and Re-protect operation, the VM is updated, but appears unchanged in the <code>stcli dp vm list</code> command output. For every DR operation, except when initiating protection via <code>stcli</code> or REST, the <code>--vmid</code> mechanism is used to track the VM in the inventory or the id returned by <code>stcli dp vm list</code>.</p> <p>For example, to view the current instance UUID:</p> <pre>root@ucs-stctlvm-303-1:~# stcli dp vm list --vmid 421b909d-15c0-1b70-c0ca-0aefd9875a69   head -n1</pre> <p>instanceUuid: 501bc1f3-3b02-2f4a-3ac6-f...</p> <p>From an ESXi host, <code>cd</code> into <code>datastore/vmname</code>, and compare the old and new id in the <code>vmname.vmx</code> file. For example:</p> <pre>[root@ucs-215:/vmfs/volumes/30618dcb-e5... cat maxCount8.vmx   grep -i uuid</pre> <p># uuid.bios = "42 1b 90 9d 15 c0 1b 70-5a 69". (indicates the VMID)</p> <p>vc.uuid = "50 1b c1 f3 3b 02 2f 4a-3a c8e" (indicates the current instance UUID)</p> <p>uuid.bios = "a4 18 30 42 22 51 78 e9-2021 25" (indicates the BIOS UUID)</p>
<b>--brief</b>	Optional.	Display brief summary only.

**Command Default**

Default lists all protected virtual machines.

**Usage Guidelines**

Accompany the `stcli dp vm list` command with the required arguments with leading two dashes (`--`) or optionally, the arguments enclosed in `[ ]`.

This example shows a summary list of protected virtual machines.

```
# stcli dp vm list --brief
vmInfo:
-----
name: dslvm-2
uuid: 423f11c4-20c9-893b-0dd8-2a0ad59ad634
-----
name: dslvm-1
uuid: 423f1d85-990a-4e06-ebef-a215c0ec4cf8
-----
```

## stcli dp vm info Command

List the data protection virtual machine information.

**stcli dp vm info [-h] --vmid VMID [--vmidtype {VMBIOSUUID}]**

Syntax Description	Option	Required or Optional	Description
	<b>--vmid VMID</b>	Required.	Run command on the virtual machine that matches the specified BIOS UUID.  ID of the virtual machine (vmbiosuuid). For vCenter, specify the unique virtual machine VMBIOSUUID.
	<b>--vmidtype {VMBIOSUUID}</b>	Optional.	Run the command on the virtual machine that matches the specified ID type.  ID type of the virtual machine (vcmoid, vmbiosuuid). For vCenter, specify the unique virtual machine VMBIOSUUID.

**Command Default** None.

**Usage Guidelines** Accompany the `stcli dp vm info` command with the required arguments with leading two dashes (--) or optionally, the arguments enclosed in [ ].

## stcli dp vm delete Command

Delete data protection from a virtual machine.

**stcli dp vm delete [-h] --vmid VMID [--vmidtype {VMBIOSUUID}]**

Syntax Description	Option	Required or Optional	Description
	<b>--vmid VMID</b>	Required.	Run command on the virtual machine that matches the specified BIOS UUID.  ID of the virtual machine (vmbiosuuid). For vCenter, specify the unique virtual machine VMBIOSUUID.
	<b>--vmidtype {VMBIOSUUID}</b>	Optional.	Run the command on the virtual machine that matches the specified ID type.  ID type of the virtual machine (vmbiosuuid). For vCenter, specify the unique virtual machine VMBIOSUUID.

**Command Default** None.



**Usage Guidelines**

Accompany the `stcli dp vm delete` command with the required arguments with leading two dashes (`--`) or optionally, the arguments enclosed in `[ ]`.

## stcli dp vm movein Command

Move in data protection virtual machines to a protection group.

**stcli dp vm movein [-h] --vmids VMIDS [VMIDS ...] --groupid GROUPID**

**Syntax Description**

Option	Required or Optional	Description
<b>--vmid VMID</b>	Required.	Run command on the virtual machine that matches the specified BIOS UUID.  ID of the virtual machine (vmbiosuuid). If using vCenter, specify the unique virtual machine VMBIOSUUID.
<b>--groupid GROUPID</b>	Optional.	ID of the group to which you want to move in the standalone virtual machine.

**Command Default**

None.

**Usage Guidelines**

Accompany the `stcli dp vm movein` command with the required arguments with leading two dashes (`--`) or optionally, the arguments enclosed in `[ ]`.

## stcli dp vm moveout Command

Move out data protection virtual machine to a protection group.

**stcli dp vm moveout [-h] (--vmids VMIDS [VMIDS ...] | --allVMs) --groupid GROUPID**

**Syntax Description**

Option	Required or Optional	Description
<b>--vmid VMID</b>	Required.	Run command on the virtual machine that matches the specified BIOS UUID.  ID of the virtual machine (vmbiosuuid). If using vCenter, specify the unique virtual machine VMBIOSUUID.
<b>--allVMs</b>	Optional.	Move out all virtual machines from a group.
<b>--groupid GROUPID</b>	Optional.	ID of the group from which you want to move out the standalone virtual machine.

**Command Default**

None.

**Usage Guidelines**

- Accompany the `stcli dp vm moveout` command with the required arguments with leading two dashes (`--`) or optionally, the arguments enclosed in `[ ]`.

- `allVMs` can only be performed on a secondary. `allVMs` moves all the VMs out of the group and prepares them for **Recovery**. Use this option only if you plan to perform recovery on all VMs of the group. The `allVMs` option is deprecated and will be removed in a future release.

## stcli dp vm schedule Commands

HyperFlex data protection VM schedule operations.

**stcli dp vm schedule [-h] {set,get}**

Syntax Description	Option	Required or Optional	Description
	<code>--set</code>	Required one of set.	Set VM schedule operations.
	<code>--get</code>	Required one of set.	Get VM schedule.
<b>Command Default</b>	None.		
<b>Usage Guidelines</b>	Accompany the <code>stcli dp vm schedule</code> command with one of the positional arguments enclosed in <code>{ }</code> or optionally, the arguments enclosed in <code>[ ]</code> .		

### stcli dp vm schedule set Command

Set the VM replication schedule.

**stcli dp vm schedule set [-h] --vmid VMID [--vmidtype {VMBIOSUUID}] --replication-interval REPLICATIONINTERVALINMINUTES [--start-time REPLICATIONSTARTTIME] [--quiesce-using-tools] [--outgoing OUTGOING]**

Syntax Description	Option	Required or Optional	Description
	<code>--vmid VMID</code>	Required.	Run command on the virtual machine that matches the specified BIOS UUID.
	<code>--vmidtype {VMBIOSUUID}</code>	Optional.	Run the command on the virtual machine that matches the specified ID type.
	<code>--replication-interval REPLICATIONINTERVALINMINUTES</code>	Required.	Replication interval in minutes
	<code>--start-time REPLICATIONSTARTTIME</code>	Optional	Replication start time in the format: mm/dd/yy_HH_MM.
	<code>--quiesce-using-tools</code>	Optional	Whether to use VMware Tools to quiesce the VMs before replication. VMware Tools must be installed in all the VMs in the replication group.
	<code>--outgoing OUTGOING</code>	Optional	ID of the outgoing/target cluster where data is replicated to.

**Command Default** None.

**Usage Guidelines** Accompany the `stcli dp vm schedule set` command with the required arguments with leading two dashes (--), or optionally, the arguments enclosed in [ ].

## stcli dp vm schedule get Command

Get the VM replication schedule information.

`stcli dp vm schedule get [-h] --vmid VMID [--vmidtype {VMBIOSUUID}]`

Syntax Description	Option	Required or Optional	Description
	<code>--vmid VMID</code>	Required.	Run command on the virtual machine that matches the specified BIOS UUID.
	<code>--vmidtype {VMBIOSUUID}</code>	Optional.	Run the command on the virtual machine that matches the specified ID type.

**Command Default** None.

**Usage Guidelines** Accompany the `stcli dp vm schedule get` command with the required arguments with leading two dashes (--), or optionally, the arguments enclosed in [ ].

## stcli dp vm prepareReverseProtect Command

Prepare reverse protection actions for the given virtual machine.

`stcli dp vm prepareReverseProtect [-h] --vmid VMID [--force]`

Syntax Description	Option	Required or Optional	Description
	<code>--vmid VMID</code>	Required.	Run command on the virtual machine that matches the specified BIOS UUID.  ID of the virtual machine (vmbiosuuid). If using vCenter, specify the unique virtual machine VMBIOSUUID.
	<code>--force</code>	Optional.	Perform force reverse protect preparation without validating the arguments.

**Command Default** None.

**Usage Guidelines** Accompany the `stcli dp vm prepareReverseProtect` command with the required arguments with leading two dashes (--) or optionally, the arguments enclosed in [ ].

## stcli dp vm reverseProtect command

Performs reverse protection action for the given VM.

**stcli dp vm reverseProtect [-h] --vmid VMID [--force] [--secondaryOnly]**

Option	Required or Optional	Description
<b>-h, --help</b>	Optional	Shows the help message relative to the listed command and exits.
<b>--vmid VMID</b>	Required	VMID BIOS UUID of the virtual machine.
<b>--force</b>	Optional	Do not validate the arguments and perform the operation.
<b>--secondaryOnly</b>	Optional	Execute reverseProtect only on secondary, assumes prepareReverseProtect is completed on primary.

## stcli dp vm failover Command

To failover the individual virtual machines from the recovery HX Storage Cluster. Where the recovery HX Storage Cluster is the target cluster for the replication pair protecting the virtual machines.

This command outputs the JOB-ID that is used for monitoring by the status command.

**stcli dp vm failover [-h] --vmid VMID [--resourcepool-id RESOURCEPOOL-ID | --resourcepool-name RESOURCEPOOL-NAME] [--folder-id FOLDER-ID | --folder-name FOLDER-NAME] [--network-mapping NETWORKMAPPING [NETWORKMAPPING ...]] [--poweron] [--force]**

### Syntax Description

Option	Required or Optional	Description
<b>--vmid VMID</b>	Required.	Run command on the virtual machine that matches the specified BIOS UUID.
<b>--resourcepool-id RESOURCEPOOL-ID</b>	One of optional pair.	Place the recovered VM(s) on the resource pool with the listed ID.
<b>--resourcepool-name RESOURCEPOOL-NAME</b>	One of optional pair.	Place the recovered VM(s) on the resource pool with the listed name.
<b>--folder-id FOLDER-ID</b>	One of optional pair.	Place the recovered VM(s) in the folder with the listed ID.
<b>--folder-name FOLDER-NAME</b>	One of optional pair.	Place the recovered VM(s) in the folder with the listed name.
<b>--network-mapping NETWORKMAPPING [NETWORKMAPPING ...]</b>	Optional.	Map the source to destination network. Format <code>source_network:destination_network</code> . For example:  <pre>--network-mapping "source_network1:destination_network1", "source_network2:destination_network2"</pre>

Option	Required or Optional	Description
<b>--poweron</b>	Optional.	Power on the VM after recovery
<b>--force</b>	Optional.	Do not validate the arguments and perform recovery

**Command Default**

Location defaults to command execution path.

**Usage Guidelines**

Accompany the `stcli dp vm failover` command with the required arguments with leading two dashes (`--`) or optionally, the arguments enclosed in `[ ]`.

## stcli dp vm testFailover Command

Test failover of the given virtual machine from the recovery HX Storage Cluster. Where the recovery HX Storage Cluster is the target cluster for the replication pair protecting the virtual machines.

```
stcli dp vm testFailover [-h] --vmid VMID [--resourcepool-id RESOURCEPOOL-ID |
--resourcepool-name RESOURCEPOOL-NAME] [--folder-id FOLDER-ID | --folder-name
FOLDER-NAME] [--test-network TESTNETWORK | --network-mapping NETWORKMAPPING
[NETWORKMAPPING ...]] [--poweron] [--force] [--newname NEWNAME]
```

**Syntax Description**

Option	Required or Optional	Description
<b>--vmid VMID</b>	Required.	Run command on the virtual machine that matches the specified BIOS UUID.
<b>--resourcepool-id RESOURCEPOOL-ID</b>	One of optional pair.	Place the recovered VM(s) on the resource pool with the listed ID.
<b>--resourcepool-name RESOURCEPOOL-NAME</b>	One of optional pair.	Place the recovered VM(s) on the resource pool with the listed name.
<b>--folder-id FOLDER-ID</b>	One of optional pair.	Place the recovered VM(s) in the folder with the listed ID.
<b>--folder-name FOLDER-NAME</b>	One of optional pair.	Place the recovered VM(s) in the folder with the listed name.
<b>--test-network TESTNETWORK</b>	One of optional pair.	Test network to be used for test recovery. All source networks will be assigned to this network after recovery.
<b>--network-mapping NETWORKMAPPING [NETWORKMAPPING ...]</b>	One of optional pair.	Map the source to destination network. Format <code>source_network:destination_network</code> . For example:  <code>--network-mapping "source_network1:destination_network1",</code>
<b>--poweron</b>	Optional.	Power on the virtual machine after recovery.

Option	Required or Optional	Description
<b>--force</b>	Optional.	Performs test failover forcefully without validating the arguments.
<b>--newname NEWNAME</b>	Optional.	New name for the test recovered virtual machine.

**Command Default** Location defaults to command execution path.

**Usage Guidelines** Accompany the `stcli dp vm testFailover` command with the required arguments with leading two dashes (--) or optionally, the arguments enclosed in [ ].

## stcli dp vm prepareFailover Command

Prepare failover action for the given virtual machine.

**stcli dp vm prepareFailover [-h] --vmid VMID [--force]**

Syntax Description	Option	Required or Optional	Description
	<b>--vmid VMID</b>	Required.	Run command on the virtual machine that matches the specified BIOS UUID.  ID of the virtual machine (vmbiosuuid). If using vCenter, specify the unique virtual machine VMBIOSUUID.
	<b>--force</b>	Optional.	Perform force reverse failover preparation without validating the arguments.

**Command Default** None.

**Usage Guidelines** Accompany the `stcli dp vm prepareFailover` command with the required arguments with leading two dashes (--) or optionally, the arguments enclosed in [ ].

## stcli dp vm migrate Command

Migrate the given virtual machine.

**stcli dp vm migrate [-h] --vmid VMID [--resourcepool-id RESOURCEPOOL-ID | --resourcepool-name RESOURCEPOOL-NAME] [--folder-id FOLDER-ID | --folder-name FOLDER-NAME] [--network-mapping NETWORKMAPPING [NETWORKMAPPING ...]] [--poweron]**

Syntax Description	Option	Required or Optional	Description
	<b>--vmid VMID</b>	Required.	Run command on the virtual machine that matches the specified BIOS UUID.  ID of the virtual machine (vmbiosuuid). If using vCenter, specify the unique virtual machine VMBIOSUUID.
	<b>--resourcepool-id RESOURCEPOOL-ID</b>	Optional.	ID of the resource pool on which the recovered virtual machines have to be placed.
	<b>--resourcepool-name RESOURCEPOOL-NAME</b>	Optional.	Name of the resource pool on which the recovered virtual machines have to be placed.
	<b>--folder-id FOLDER-ID</b>	Optional.	ID of the folder on which the recovered virtual machines have to be placed.
	<b>--folder-name FOLDER-NAME</b>	Optional.	Name of the folder on which the recovered virtual machines have to be placed.
	<b>--network-mapping NETWORKMAPPING [NETWORKMAPPING ...]</b>	Optional.	Source to destination network map, in the format: "Source Network":"Destination Network".
	<b>--poweron</b>	Optional.	Power on the virtual machine after recovery.

**Command Default** None.

**Usage Guidelines** Accompany the `stcli dp vm migrate` command with the required arguments with leading two dashes (`--`) or optionally, the arguments enclosed in [ ].

## stcli dp vm hxtask Command

Data protection related operations.

`stcli dp vm hxtask [-h] [--vmid VMID] [--id ID] [--name NAME][--state {new,starting,running,suspended,shutting_down,completed,terminated,cancelled,exception,stalled}]`

Syntax Description	Option	Required or Optional	Description
	<b>- vmid VMID</b>	Required	ID of the virtual machine to add to the protection group.
	<b>--id ID</b>	Optional	ID of the virtual machine.

Option	Required or Optional	Description
<b>--name</b> NAME	Optional.	Reference name assigned to the replication network.  <b>Note</b> The hx task commands start with lower case, but the filtering of <code>--name</code> will start with uppercase. For example use <code>– TestFailover</code> instead of <code>testFailover</code> .  The name to be filtered are on: TestFailover Failover PrepareReverseProtect PrepareFailover ReverseProtect Migrate
<b>--state</b>	Optional.	State of the replication process: new starting running suspended shutting_down completed terminated canceled exception stalled

**Command Default** None. One option from the set is required.

**Usage Guidelines** Accompany the `stcli dp vm hxtask` command with the required arguments with leading two dashes (`--`) or optionally, the arguments enclosed in `[ ]`.

## stcli dp group Commands

HX Data Platform disaster recovery and native replication commands applied to virtual machine protection groups and not to individual virtual machines.

**stcli dp group [-h] {add | list | delete | vm | snapshot | schedule}**



Syntax Description	Option	Required or Optional	Description
	<b>add</b>	One of set required.	Add data protection group.
	<b>list</b>	One of set required.	List of data protection groups.
	<b>delete</b>	One of set required.	Delete data protection group.
	<b>vm</b>	One of set required.	VM tasks in a data protection group.
	<b>snapshot</b>	One of set required.	Snapshot operations in a data protection group. This command is not supported.
	<b>schedule</b>	One of set required.	Schedule replication for a data protection group.

**Command Default** None. One option from the set is required.

**Usage Guidelines** Accompany the `stcli dp group` command with one of the positional arguments enclosed in `{ }` or optionally, the arguments enclosed in `[ ]`.



**Note** Beginning with HX Release 3.5(2g), support for the `<command name>` command was limited to Cisco Tech support only. General use is not supported.

## stcli dp group add Command

Add data protection group.

Command syntax for Cisco HyperFlex Release 5.0(2a) and earlier.

**stcli dp group add [-h] --groupname GROUPNAME**

Syntax Description	Option	Required or Optional	Description
	<b>--groupname GROUPNAME</b>	Required.	Name of the protection group.

**Command Default** None.

**Usage Guidelines** This command is only supported in Cisco HyperFlex Release 5.0(2a) and earlier.

Accompany the `stcli dp group add` command with the required arguments with leading two dashes (`--`) or optionally, the arguments enclosed in `[ ]`.

## stcli dp group list Command

List data protection group configuration and schedule.

**stcli dp group list [-h] [--groupname GROUPNAME] [--groupid GROUPID]**

Syntax Description	Option	Required or Optional	Description
	<b>--groupname GROUPNAME</b>	Optional.	List the protection group with given group name.
	<b>--groupid GROUPID</b>	Optional.	List the protection group with given ID.
	<b>--brief</b>	Optional.	Display brief summary only.

**Command Default** List all data protection groups.

**Usage Guidelines** Accompany the `stcli dp group list` command with one of the positional arguments enclosed in `{ }` or optionally, the arguments enclosed in `[ ]`.

This example shows a list of data protection groups.

```
# stcli dp group list

clusterEr:
  type: cluster
  id: 21038104951568023:6930626691413900957
  name: source17-2.5.1a
vmGroupState: active
vmGroupEr:
  type: dp_vmgroup
  id: 4de5d40f-82d6-40f6-9425-e4942bdd9be9
  name: group1
members:
-----
  idtype: 2
  type: dp_vm
  id: 423f38fd-9754-a25c-0d60-1ddacacaac60
-----
  idtype: 2
  type: dp_vm
  id: 423fc732-4841-3a0a-8d75-6c7bdcf8de67
-----
schedules:
  replicationSchedule:
    targetClusterEr:
      type: cluster
      id: 1279191129902762643:7329250794747596775
      name: target17-2.5.1a
    enabled: True
    mode: 2
    startTime: 07/19/17_20:24
    intervalInMinutes: 15
```

## stcli dp group delete Command

Delete the specified data protection group.

**stcli dp group delete [-h] --groupid GROUPID**

Syntax Description	Option	Required or Optional	Description
	<b>--groupid GROUPID</b>	Required.	ID of the protection group. To delete a protection group, all virtual machines must be removed.
<b>Command Default</b>	None.		
<b>Usage Guidelines</b>	Accompany the <code>stcli dp group delete</code> command with the required arguments with leading two dashes (--), or optionally, the arguments enclosed in [ ].		

## stcli dp group vm Commands

Hyperflex data protection group VM operations.

`stcli dp group vm [-h] {add | list | delete}`

Syntax Description	Option	Required or Optional	Description
	<b>add</b>	One of set required.	Add VM to data protection group.
	<b>list</b>	One of set required.	List VMs in data protection group.
	<b>delete</b>	One of set required.	Delete VM from data protection group.
<b>Command Default</b>	None. One option from the set is required.		
<b>Usage Guidelines</b>	Accompany the <code>stcli dp group vm</code> command with one of the positional arguments enclosed in { } or optionally, the arguments enclosed in [ ].		

### stcli dp group vm add Command

Add a VM to a data protection group.

`stcli dp group vm add [-h] --groupid GROUPID --vmid VMID [--vmidtype {VMBIOSUUID}]`

Syntax Description	Option	Required or Optional	Description
	<b>--groupid GROUPID</b>	Required.	ID of the data protection group where the VMs reside.
	<b>--vmid VMID</b>	Required.	ID of the virtual machine to add to the protection group.
	<b>--vmidtype {VMBIOSUUID}</b>	Optional.	ID type for the virtual machine to add to the protection group. The VCMOID option is not supported.
<b>Command Default</b>	None.		

**Usage Guidelines** Accompany the `stcli dp group vm add` command with optionally, the arguments enclosed in [ ].

## stcli dp group vm list Command

List the VMs included in the data protection group.

`stcli dp group vm list [-h] --groupid GROUPID`

Syntax Description	Option	Required or Optional	Description
	<code>--groupid GROUPID</code>	Required.	ID of the data protection group where the VMs reside.

**Command Default** None.

**Usage Guidelines** Accompany the `stcli dp group vm list` command with optionally, the arguments enclosed in [ ].

## stcli dp group vm delete Command

Delete a protection group VM.

`stcli dp group vm delete [-h] --groupid GROUPID --vmid VMID [--vmidtype {VMBIOSUUID}]`

Syntax Description	Option	Required or Optional	Description
	<code>--groupid GROUPID</code>	Required.	ID of the data protection group where the VMs reside.
	<code>--vmid VMID</code>	Required.	ID of the virtual machine to be removed from the protection group.
	<code>--vmidtype {VMBIOSUUID}</code>	Optional.	ID type of the virtual machine to be removed from the protection group. Remove a VM from data protection group. The VCMOID option is not supported.

**Command Default** None.

**Usage Guidelines** Accompany the `stcli dp group vm delete` command with optionally, the arguments enclosed in [ ].

## stcli dp group schedule Commands

Hyperflex protection group schedule operations.

`stcli dp group schedule [-h] {set | get}`

Syntax Description	Option	Required or Optional	Description
	<b>set</b>	One of set required.	Set the replication schedule for a data protection group.
	<b>get</b>	One of set required.	Get the replication schedule for a data protection group.

**Command Default** None. One option from the set is required.

**Usage Guidelines** Accompany the `stcli dp group schedule` command with one of the positional arguments enclosed in { } or optionally, the arguments enclosed in [ ].

## stcli dp group schedule set Command

Set the replication schedule for a data protection group.

**stcli dp group schedule set [-h] --groupid GROUPID --replication-interval REPINTERVALINMINS [--start-time REPSTARTTIME] [--quiesce-using-tools] [--outgoing OUTGOING]**

Syntax Description	Option	Required or Optional	Description
	<b>--groupid GROUPID</b>	Required.	ID of the data protection group where the VMs reside.
	<b>--replication-interval REPINTERVALINMINS</b>	Required.	Replication interval (frequency) in minutes. This sets how often the VMs are replicated to the target cluster.
	<b>--start-time REPSTARTTIME</b>	Optional.	Replication start time in format <code>mm/dd/yy_HH_MM</code> . Specifies when the first replication begins.
	<b>--quiesce-using-tools</b>	Optional.	Whether to use VMware Tools to quiesce the VMs before replication. VMware Tools must be installed in all the VMs in the replication group.
	<b>--outgoing OUTGOING</b>	Optional.	ID of the outgoing/target cluster where data is replicated to.

**Command Default** Start time is immediately upon execution of the command. Quiesce is not set. Outgoing cluster is the paired remote cluster.

**Usage Guidelines** Accompany the `stcli dp group schedule set` command with one of the positional arguments enclosed in { } or optionally, the arguments enclosed in [ ].

## stcli dp group schedule get Command

List the replication schedule information for a data protection group.

**stcli dp group schedule get [-h] --groupid GROUPID [--outgoing OUTGOING]**

Syntax Description	Option	Required or Optional	Description
	<b>--groupid GROUPID</b>	Required.	ID of the data protection group where the VMs reside.
	<b>--outgoing OUTGOING</b>	Optional.	ID of the outgoing/target cluster where data is replicated to.
<b>Command Default</b>	Outgoing cluster is the paired remote cluster.		
<b>Usage Guidelines</b>	Accompany the <code>stcli dp group schedule get</code> command with one of the positional arguments enclosed in <code>{ }</code> or optionally, the arguments enclosed in <code>[ ]</code> .		

## stcli dp peer Commands

Hyperflex data protection operations on the remote (peer) cluster in a replication pair.

`stcli dp peer [-h] {get | add | list | query | edit | datastore | delete | forget | schedule}`

Syntax Description	Option	Required or Optional	Description
	<b>get</b>	One of set required.	Get peer cluster details.
	<b>add</b>	One of set required.	Add a pair using given inputs.
	<b>list</b>	One of set required.	Show all pairs.
	<b>query</b>	One of set required.	Query a pair to get pair-details.
	<b>edit</b>	One of set required.	Edit pair description for peer management IP.
	<b>datastore</b>	One of set required.	Edit mapped datastores in existing pair.
	<b>delete</b>	One of set required.	Delete a replication pair.
	<b>forget</b>	One of set required.	Forget peer using given inputs.
	<b>schedule</b>	One of set required.	Peer schedule operations.
<b>Command Default</b>	None. One option from the set is required.		
<b>Usage Guidelines</b>	Accompany the <code>stcli dp peer</code> command with one of the positional arguments enclosed in <code>{ }</code> or optionally, the arguments enclosed in <code>[ ]</code> .		

## stcli dp peer get Command

List the peer cluster details.



**Note** Please enter password when prompted.

**stcli dp peer get [-h] --mgmtIp MGMTIP --username USERNAME**

Syntax Description	Option	Required or Optional	Description
	<b>--mgmtIp MGMTIP</b>	Required.	Peer cluster's management IP.
	<b>--username USERNAME</b>	Required.	Peer cluster's user name. Enter peer cluster's user password when prompted.

**Command Default** None.

**Usage Guidelines** Accompany the `stcli dp peer get` command with the required arguments with leading two dashes (`--`) or optionally, the arguments enclosed in `[ ]`.

## stcli dp peer add Command

Add a replication pair using given inputs.



**Attention** Please enter password when prompted.



**Note** This command does not invoke and verify the Test Remote Replication Network similar to the verification process that gets done automatically while configuring replication pair in HX Connect.

**stcli dp peer add [-h] --name NAME --description DESCRIPTION --mgmtIp MGMTIP --username USERNAME**

Syntax Description	Option	Required or Optional	Description
	<b>--name NAME</b>	Required.	Name of cluster-pair.
	<b>--description DESCRIPTION</b>	Required.	Description of cluster-pair.
	<b>--mgmtIp MGMTIP</b>	Required.	Peer cluster's management IP.
	<b>--username USERNAME</b>	Required.	Peer cluster's user name. Enter peer cluster's password when prompted.

**Command Default** None.

**Usage Guidelines** Accompany the `stcli dp peer add` command with the required arguments with leading two dashes (`--`) or optionally, the arguments enclosed in `[ ]`.

## stcli dp peer list Command

Show all replication pairs.

**stcli dp peer list [-h]**

**Command Default** None.

**Usage Guidelines** Accompany the `stcli dp peer list` command with optionally, the arguments enclosed in `[ ]`.

## stcli dp peer query Command

Query a replication pair for pair details.

**stcli dp peer query [-h] --name NAME**

Syntax Description	Option	Required or Optional	Description
	<code>--name NAME</code>	Required.	Name of cluster replication pair.

**Command Default** None.

**Usage Guidelines** Accompany the `stcli dp peer query` command with optionally, the arguments enclosed in `[ ]`.

## stcli dp peer edit Command

Edit pair description or peer mgmtIp



**Note** This command is not supported.

**stcli dp peer edit [-h] --name NAME [--description DESCRIPTION] [--mgmtIp MGMTIP] --username USERNAME --password PASSWORD**

Syntax Description	Option	Required or Optional	Description
	<code>--name NAME</code>	Required.	Name of cluster-pair
	<code>--description DESCRIPTION</code>	Required	Description of cluster-pair
	<code>--mgmtIp MGMTIP</code>	Required	Peer cluster's management Ip
	<code>--username USERNAME</code>	Required	Peer cluster's user name
	<code>--password PASSWORD</code>		Enter peer cluster's user password when prompted.



**Command Default** None.

**Usage Guidelines** Accompany the `stcli dp peer edit` command with one of the positional arguments enclosed in `{ }` or optionally, the arguments enclosed in `[ ]`.

## stcli dp peer datastore Commands

Edit mapped datastores in existing replication pair.



**Note** This command does not invoke and verify the Test Remote Replication Network similar to the verification process that gets done automatically while editing the pair in HX Connect.

`stcli dp peer datastore [-h] {edit | add | delete | editSchedule | editstatus | forget | }`

Syntax Description	Option	Required or Optional	Description
	<b>edit</b>	One of set required.	Edit mapped datastores in existing pair.
	<b>add</b>	One of set required.	Add a datastore mapping in existing cluster pair
	<b>delete</b>	One of set required.	Delete a datastore mapping in existing cluster pair
	<b>editSchedule</b>	One of set required.	Edit schedule of a datastore mapping in existing cluster pair.
	<b>editstatus</b>	One of set required.	Status of datastore edit job.
	<b>forget</b>	One of set required.	Forget datastore pair edit-in-progress; Forget datastore pairs

**Command Default** None. One option from the set is required.

**Usage Guidelines** Accompany the `stcli dp peer datastore` command with one of the positional arguments enclosed in `{ }` or optionally, the arguments enclosed in `[ ]`.

### stcli dp peer datastore edit Command

Edit mapped datastores in existing replication pair.

`stcli dp peer datastore edit [-h] --name NAME --datastore DATASTORE [--storageOnly] [--replication-interval REPLICATIONINTERVALINMINUTES] [--backupOnly] [--quiesce] [-fallbackToCrashConsistent]`

Syntax Description	Option	Required or Optional	Description
	<b>--name NAME</b>	Required.	Name of cluster-pair.

Option	Required or Optional	Description
<b>--datastore DATASTORE</b>	Required.	Datastore pairs with operations. Format is:  local_ds:remote_ds:OPERATION  Operation choices are: ADD, DELETE.
<b>--storageOnly</b>	Required.	SRM or an external DR orchestrator will manage the input datastore pair.
<b>--replication-interval REPLICATIONINTERVALINMINUTES</b>	Required.	Replication interval in minutes.
<b>--backupOnly</b>	Required.	The input datastore pair will be used for Backup only.
<b>--quiesce</b>	Required.	When backupOnly is set, this flag specifies whether quiesce is preferred.
<b>--fallbackToCrashConsistent</b>	Required.	When backupOnly and quiesce are set, and VM tools check fails, this flag specifies whether fallback to Crash Consistent snapshot is preferred.

**Command Default**

None.

**Usage Guidelines**

Accompany the `stcli dp peer datastore edit` command with the required arguments with leading two dashes (--) or optionally, the arguments enclosed in [ ].

This example shows changing the datastores associated with the replication pair.

```
# stcli dp peer datastore edit
<local ds 1>:<peer ds 1>:ADD,<local ds 2>:<peer ds 2>:DELETE, ..
```

**stcli dp datastore editstatus Command**

View the status of the datastore mapping change for the replication pair.

**stcli dp peer datastore editstatus [-h] [--jobid JOBID]**

**Syntax Description**

Option	Required or Optional	Description
<b>--jobid JOBID</b>	Optional.	Job ID for a datastore change task.

**Command Default**

Job ID default is all displays status of all datastore edits.

**Usage Guidelines**

Accompany the `stcli dp peer datastore editstatus` command with the required arguments with leading two dashes (`--`) or optionally, the arguments enclosed in `[ ]`.

This example shows changing the datastores associated with the replication pair.

```
# stcli dp peer datastore editstatus
[<jobid>,<jobid>...,<jobid>]
```

## stcli dp peer delete Command

Delete the peer from the replication pair.



**Important** Please enter password when prompted.

```
stcli dp peer delete [-h] --name NAME --username USERNAME [--mgmtIp MGMTIP]
```

Syntax Description	Option	Required or Optional	Description
	<code>--name NAME</code>	Required.	Name of cluster replication pair.
	<code>--username USERNAME</code>	Required.	Peer cluster's user name. Enter peer cluster's user password when prompted.
	<code>--mgmtIp MGMTIP</code>	Optional.	Peer cluster's management IP.

**Command Default**

Management IP is assumed to be the currently associated peer.

**Usage Guidelines**

Accompany the `stcli dp peer delete` command with the required arguments with leading two dashes (`--`) or optionally, the arguments enclosed in `[ ]`.

## stcli dp peer forget Command

This removes the pairing between peers: the source and target clusters. Freeing up each cluster to be paired with a different cluster.

```
stcli dp peer forget [-h] [--name NAME] [--all]
```

Syntax Description	Option	Required or Optional	Description
	<code>--all</code>	One of set required.	Remove the pairing between peers, for all partially-paired and successfully paired clusters.
	<code>--name NAME</code>	One of set required.	Remove the pairing between peers, (the source and target clusters), for the cluster pair with the listed name.

**Command Default** None.

**Usage Guidelines** Accompany the `stcli dp peer forget` command the required arguments with leading two dashes (`--`) or optionally, the arguments enclosed in `[ ]`.



**Note** NR/NFS cleanup time delay—During the VM replication process, the message "Please retry again after outstanding replication jobs are complete", or "DP Peer forget failed: Failed to clean connection cache for peer replication CIP <IP address>. Replication jobs (#) in progress. Please retry again after outstanding replication jobs are complete." may appear indicating that detaching policies may fail. If you receive this message try again after a few minutes as there is a time delay in the NR/NFS cleanup.

## stcli dp schedule Commands

Data protection schedule operations.

`stcli dp schedule [-h] {pause | resume | status}`

Syntax Description	Option	Required or Optional	Description
	<code>pause</code>	One of set required.	Pause replication. Stop sending replication snapshot bits to the remote cluster.
	<code>resume</code>	One of set required.	Resume replication. Resume sending replication snapshot bits to the remote cluster.
	<code>status</code>	One of set required.	Query the scheduler state. That is the database state, not the status of scheduled events. It does not imply that the scheduler is full.

**Command Default** None. One option from the set is required.

**Usage Guidelines** Accompany the `stcli dp schedule` command with one of the positional arguments enclosed in `{ }` or optionally, the arguments enclosed in `[ ]`.

### stcli dp schedule pause Command

Pause replication. Stop monitoring existing jobs and stop creating new jobs sending replication snapshot bits to the remote cluster.

`stcli dp schedule pause [-h]`

**Command Default** None.

**Usage Guidelines** Accompany the `stcli dp schedule pause` command optionally, the arguments enclosed in `[ ]`.

## stcli dp schedule resume

Resume replication. Resume monitoring existing jobs and resume creating new jobs sending data replication bits to the remote cluster.

**stcli dp schedule resume [-h]**

---

**Command Default** None.

---

**Usage Guidelines** Accompany the `stcli dp schedule resume` command optionally, the arguments enclosed in [ ].

## stcli dp schedule status

Query the scheduler state. That is the database state, not the status of scheduled events. It does not imply that the scheduler is full.

**stcli dp schedule status [-h]**

---

**Command Default** None.

---

**Usage Guidelines** Accompany the `stcli dp schedule status` command optionally, the arguments enclosed in [ ].

