



CHAPTER 3

Device Group Management Functions

This chapter provides information about the following device group management functions:

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add_devices_to_group

Synopsis

```
add_devices_to_group($token, [@dev_ids], $group)
```

Description

This function adds devices to the specified device group. You can add devices to more than one group.



Note

If you want to keep a device in a single group, you should remove the device from any other group by calling the `remove_devices_from_group` function.

Input Parameters

| Parameter | Type | Value | Description |
|-----------|----------------------------|--|--|
| token | UserToken, mandatory | — | A token that represents your authorization pass, which is obtained after you invoke the login function and are authenticated by the back-end server. |
| dev_ids | Array of string, mandatory | ID is a string containing up to 64 ASCII characters in the range from x21 to x7A | An array of device IDs to be added to the group. |
| group | String, mandatory | Name is a string containing up to 64 ASCII characters in the range from x21 to x7A | The name of the group. |

Return

This function returns a Cisco::CLM::Common::IDStatus object. If the operation is successful, the IDStatus object contains an IDStatusItem array. Each IDStatusItem contains the ID of the device that is being added to the group. If the device is added successfully to the group, the error code in the IDStatusItem returns ClmErrors.SUCCESS.

Error and Exception

If a system error prevents the operation from completing, a RemoteException is thrown.

When an error occurs, this function returns false.

create_device_group

Synopsis

```
create_device_group($token, $group)
```

Description

This function creates a new device group with the given name.

Input Parameters

| Parameter | Type | Value | Description |
|-----------|----------------------|--|--|
| token | UserToken, mandatory | — | A token that represents your authorization pass, which is obtained after you invoke the login function and are authenticated by the back-end server. |
| group | String, mandatory | Name is a string containing up to 64 ASCII characters in the range from x21 to x7A | The name of the group. |

Return

This function returns a Cisco::CLM::Common::Status object. If the operation is successful, ClmErrors.SUCCESS is returned in the error code.

Error and Exception

When an error occurs, this function returns a Status object with the error code and error messages.

When an error occurs, this function returns false.

delete_device_group

Synopsis

```
delete_device_group($token, $group)
```

Description

This function deletes a device group from the system. Devices under this group are not deleted, but they become ungrouped.

Input Parameters

| Parameter | Type | Value | Description |
|-----------|----------------------|--|--|
| token | UserToken, mandatory | — | A token that represents your authorization pass, which is obtained after you invoke the login function and are authenticated by the back-end server. |
| group | String, mandatory | Name is a string containing up to 64 ASCII characters in the range from x21 to x7A | The name of the device group. |

Return

This function returns a Cisco::CLM::Common::Status object. If the operation is successful, ClmErrors.SUCCESS is returned in the error code.

Error and Exception

When an error occurs, this function returns a Status object with the error code and error messages.

When an error occurs, this function returns false.

list_all_groups

Synopsis

```
list_all_groups($token)
```

Description

This function returns a list of all device groups in the system.

Input Parameters

| Parameter | Type | Value | Description |
|-----------|-------------------------|-------|--|
| token | UserToken, mandatory | — | A token that represents your authorization pass, which is obtained after you invoke the login function and are authenticated by the back-end server. |

Return

This function returns an array representing the names of all device groups.

Error and Exception

If a system error prevents the operation from completing, a RemoteException is thrown.

When an error occurs, this function returns null.

remove_devices_from_group

Synopsis

```
remove_devices_from_group($token, [@dev_ids], $group)
```

Description

This function removes devices from the specified device group. The devices become ungrouped but remain in the device inventory. To delete the devices from the inventory, use the delete_devices function.

Input Parameters

| Parameter | Type | Value | Description |
|-----------|----------------------------|--|--|
| token | UserToken, mandatory | — | A token that represents your authorization pass, which is obtained after you invoke the login function and are authenticated by the back-end server. |
| dev_ids | Array of string, mandatory | ID is a string containing up to 64 ASCII characters in the range from x21 to x7A | An array of device IDs to be removed to the group. |
| group | String, mandatory | Name is a string containing up to 64 ASCII characters in the range from x21 to x7A | The name of the device group. |

Return

This function returns a Cisco::CLM::Common::IDStatus object. If the operation is successful, the IDStatus object contains an IDStatusItem array. Each IDStatusItem contains the ID of the device that is being removed from the group. If the device is removed successfully from the group, the error code in the IDStatusItem returns ClmErrors.SUCCESS.

Error and Exception

If a system error prevents the operation from completing, a RemoteException is thrown.

When an error occurs, this function returns IDStatus with the error code and error message.

rename_device_group

Synopsis

```
rename_device_group($token, $group, $new_name)
```

Description

This function renames a given device group. All devices contained by the group remain unchanged.

Input Parameters

| Parameter | Type | Value | Description |
|-----------|-------------------------|--|--|
| token | UserToken, mandatory | — | A token that represents your authorization pass, which is obtained after you invoke the login function and are authenticated by the back-end server. |
| group | String, mandatory | Name is a string containing up to 64 ASCII characters in the range from x21 to x7A | The current name of the device group. |
| new_name | String, mandatory | Name is a string containing up to 64 ASCII characters in the range from x21 to x7A | The new name for the device group. |

Return

This function returns a Cisco::CLM::Common::Status object. If the operation is successful, ClmErrors.SUCCESS is returned in the error code.

Error and Exception

If a system error prevents the operation from completing, a RemoteException is thrown.

When an error occurs, this function returns Status with the error code and error message.