



# CHAPTER 11

## PAK Management Functions

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This chapter provides information about the following product authorization key (PAK) management functions:

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### asyncDownloadPAKInfo

#### Synopsis

```
String asyncDownloadPAKInfo(UserToken token, String[] pak_ids, IDStatusListener listener)  
throws RemoteException;
```

#### Description

Cisco Product License Registration Portal and stores the information in the inventory.

This function is nonblocking and returns a request ID to the caller immediately. When calling this function, the client program provides a listener object that implements the `StatusListener` interface. When the function is completed, the `onStatus()` method in the listener object is invoked.

**Input Parameters**

| Parameter | Type                                     | Value  | Description  |
|-----------|--|--|--|
|           | UserToken,<br>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.           |
| pak_ids   | Array of string,<br>mandatory            | ID is a string containing up to 64 ASCII characters in the range from x21 to x7A | An array of PAK IDs that identify interested PAKs. A PAK ID is generated by using the createPAK function, passing a PAK name as a parameter to get the PAK ID. |
| listener  | IDStatusListener<br>object,<br>mandatory | —  | An object which implements IDStatusListener interface.   |

**Return****Error and Exception**

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

The input parameter of the onStatus() method in IDStatusListener contains the error code and messages. More than one error code and message may be contained in the IDStatus object. The following example shows the error code and messages in the onStatus() method:

```
public void onStatus(String request_id, IDStatus status) {

    // The general error code of the operation.
    int err_code = status.getErrorCode();

    // The general error message of the operation.
    String err_msg = status.getErrorMessage();

    // A list of status for each individual element in the
    // bulk operation.
    IDStatusItem[] items = status.getIDStatusItems()

    // Iterate through the list to get individual status.
    for (int i = 0; i < items.length(); i++) {

        // Get the individual object ID returned by the operation.
        String id = items[i].getID();

        // Get the individual error code corresponding to
        // the object ID.
        int item_err_code = items[i].getErrorCode();

        // Get the individual error message corresponding to
        // the object ID.
        String item_err_msg = items[i].getErrorMessage();
    }
}
```

```
}  
}
```

# createPAKs

## Synopsis

## Description

## Input Parameters

| Parameter | Type              | Value  | Description  |
|-----------|-------------------|--|--|
|           |                   |  |  |
|           |                   |  | An array of PAK IDs, used as Name for each instance of PAK object. |
| folder    | String, mandatory | Name is a string containing up to 64 ASCII characters in the range from x21 to x7A | The name of the folder.<br><b>Note</b>                             |
|           |                   |  |  |

## Return

```
PAKStatus status = createPAKs(..., ...);
```

**Error and Exception****deletePAKs****Synopsis****Description**

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# listAllFoldersByPAK

## Synopsis

```
listAllFoldersByPAK(UserToken token, String[] pak_id) throws RemoteException;
```

## Description

## Input Parameters

| Parameter | Type | Value | Description |
|-----------|------|-------|-------------|
|           |      |       |             |
|           |      |       |             |

## Return

## Error and Exception

# listAllPAKsInFolder

## Synopsis

```
String[] listAllPAKsInFolder(UserToken token, String folder) throws RemoteException;
```

## Description

| Parameter | Type | Value | Description |
|-----------|------|-------|-------------|
|           |      |       |             |
|           |      |       |             |

## listPAKContainFeatures

**Synopsis**

**Description**

**Input Parameters**

| Parameter | Type | Value | Description |
|-----------|------|-------|-------------|
|           |      |       |             |
|           |      |       |             |

**Return****Error and Exception**

# readPAKs

**Synopsis****Description****Input Parameters**

| Parameter | Type | Value | Description |
|-----------|------|-------|-------------|
|           |      |       |             |
|           |      |       |             |



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