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ECM OPERATION PACKAGE

A custom package to achieve all ECM related operations

Package version: 1.2.3

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ECM Operation Package

Overview

ECM Operation package enables you to interact with defined ECM API method calls directly. This package aims to make ECM operation easier instead of using .dll, reusable task bot, and other complex implementations. Furthermore, the package works on Automation Anywhere primitive data types while throwing bot command exceptions in error scenarios.

Actions

1. Connect
2. Create Folder
3. Disconnect
4. Delete
5. Get Node
6. Upload
7. Add Document Version
8. Move
9. Rename

1. Connect

1.1. Parameters

Purpose	'Connect' action is used to connect ECM through Authentication URL. An auth token will be generated when the caller passes username and password. This action should be the first step to execute other actions.		
Preconditions	ECM Credential should have Admin or equivalent rights to execute all the actions Parameter "Key" is default but editable. According to ECM API document can be edited.		
Input			
Name	Type	Required?	Comments
Session Name	String	Required	A unique name to maintain a session. This will be used in all actions in this package.
Enter URL	String	Required	ECM Authenticate URL
Username Parameter	Credential	Required	The "value" is ECM Username
Password Parameter	Credential	Required	The "value" is ECM Password
Output			
None			
Errors			
1. Duplicate session 2. Invalid credentials. Invalid username and password or invalid username 3. Invalid URL – 401			

1.2. Example

The screenshot displays the Automation Anywhere interface. On the left, the 'Flow' tab is active, showing a sequence of actions: 'Start', 'ECMOperations: Connect session: "Default"', and 'End'. The main workspace contains a 'Triggers' section with a 'Drag a trigger here...' prompt. On the right, the configuration pane for the 'ECMOperations: Connect' action is visible. It includes the following fields:

- Session Name:** Default
- Enter URL:** http://ecm.sabic.com/ecm/cs.exe/api/v1/auth
- Username Parameter:** Key: username, Value: USERNAME
- Password Parameter:** Key: password, Value: PASSWORD

2. Create Folder:

2.1. Parameters

Purpose	This action is used to create folder in ECM.		
Preconditions	Appropriate permissions should be given to the user. Connect action should be used before this action. Session name must be the same. Parameter “Key” is default but editable. According to ECM API document can be edited.		
Input			
Name	Type	Required?	Comments
Session Name	String	Required	Same session name used in ‘Connect’ action
Enter URL	String	Required	ECM URL as mentioned in ECM API documentation
Auth Key name	String	Required	Key to pass ticket/token generated from “Connect” action
Text Parameter	String	Required	The “value” should be as mentioned in ECM API documentation
Parent ID Parameter	String	Required	The “value” is Folder Node ID under which New Folder to be created
Folder name Parameter	String	Required	The “value” is Folder Name
Output			
Returns a String with Node ID otherwise error message			
Errors			
1. Invalid session 2. Folder name already exists 3. Invalid URL 4. Invalid key 5. Permissions denied			

2.2. Example

The screenshot displays the Automation Anywhere interface for configuring the 'ECMOperations: Create Folder' action. The workflow on the left includes the following steps:

- String Assign: '6333456' to \$sNodeIDS
- ECMOperations: Connect session: 'Default'
- ECMOperations: Create Folder session: 'Default'** (selected)
- ECMOperations: Disconnect session: 'Default'

The configuration for the 'ECMOperations: Create Folder' action is shown on the right:

- Session Name:** Key: Default, Value: [input field]
- Enter URL:** Key: http://ecm.sabic.com/ecm/cs.exe/api/v1/nodes, Value: [input field]
- Auth Key name:** Key: OTCSTICKET, Value: [input field]
- Type Parameter:** Key: type, Value: [input field]
- Parent ID Parameter:** Key: parent_id, Value: \$sNodeIDS
- Folder Name Parameter:** Key: name, Value: Test Folder
- Assign Node ID output to string variable (optional):** sOutput

3. Disconnect

3.1. Parameters

Purpose	This action is used to clear the session.		
Preconditions	Connect action should be used before disconnection. Session name must be the same.		
Input			
Name	Type	Required?	Comments
Session Name	String	Required	Same session name used in ‘Connect’ action
Output			
None			
Errors			
1. Invalid session			

3.2. Example

The screenshot displays the Automation Anywhere interface. On the left, a flow canvas shows a sequence starting with a 'Start' trigger, followed by the 'ECMOperations: Disconnect session: "Default"' action, and ending with an 'End' trigger. The action is highlighted with a blue border. On the right, the configuration panel for 'ECMOperations: Disconnect' is visible. It includes a description 'Disconnect from ECM' and a 'Session Name' field with a dropdown menu showing 'Default' and a 'Provide a session name' label. The interface also features a top toolbar with various icons and tabs for 'Flow', 'List', and 'Dual'.

4. Delete

4.1. Parameters

Purpose	This action is used to Delete folder/file node ID.		
Preconditions	Appropriate permissions should be given to the user. Connect action should be used before this action. Session name must be the same. Parameter “Key” is default but editable. According to ECM API document can be edited.		
Input			
Name	Type	Required?	Comments
Session Name	String	Required	Same session name used in ‘Connect’ action
Enter URL	String	Required	ECM URL as mentioned in ECM API documentation
Auth Key name	String	Required	“Key” to pass ticket/token generated from “Connect” action
Output			
Returns a string with “Success” message, otherwise error message			
Errors			
1. Invalid session 2. Invalid URL 3. Invalid Key 4. Node ID does not exist 5. Permissions denied			

4.2. Example

The screenshot illustrates the configuration of the 'Delete' action within an Automation Anywhere workflow. The workflow sequence includes a 'String Assign' action setting '\$sNodeID\$' to '6333456', followed by 'ECMOperations: Connect', the 'Delete' action (which is the focus of this example), and finally 'ECMOperations: Disconnect'. The configuration pane for the 'Delete' action is open on the right, showing the following settings:

- Delete an ECM File or Folder Node**: The action description.
- Session Name**: Set to 'Default'.
- Enter URL**: Set to 'http://ecm.sabic.com/ecm/cs.exe/api/v1/nodes/\$sNodeID\$'.
- Auth Key name**: Set to 'OTCSTICKET'.
- Assign output to string variable (optional)**: Set to 'sOutput'.

5. Get Node:

5.1. Parameters

Purpose	This action is used to get Files and Folder details from a Parent Folder.		
Preconditions	Appropriate permissions should be given to the user. Connect action should be used before this action. Session name must be the same. Parameter “Key” is default but editable. According to ECM API document can be edited.		
Input			
Name	Type	Required?	Comments
Session Name	String	Required	Same session name used in ‘Connect’ action
Enter URL	String	Required	ECM URL as mentioned in ECM API documentation
Auth Key name	String	Required	“Key” to pass ticket/token generated from “Connect” action
Output			
Returns a table with following columns: (All are string type)			
NodeID, Name, Type			
Errors			
1. Invalid session 2. Invalid URL 3. Invalid Key 4. Node ID does not exist 5. Permissions denied			

5.2. Example

ECMOperations: Get Node

Provides ECM folder content details

Session Name
 [x]

Enter URL
 [x]
Ex: http://ecm.sample.com/ecm/cs.exe/api/v1/nodes/123/nodes

Auth Key name
 Key
 [x]
Key to pass ticket/token. Default_value:OTCTICKET. Please contact ECM support team for any help.

Assign output to table variable
 [x]
Column Sequence: NodeID, Name & Type

6. Upload:

6.1. Parameters

Purpose	This action is used to Upload file to ECM.		
Preconditions	Appropriate permissions should be given to the user. Connect action should be used before this action. Session name must be the same. Parameter “Key” is default but editable. According to ECM API document can be edited.		
Input			
Name	Type	Required?	Comments
Session Name	String	Required	Same session name used in ‘Connect’ action
Enter URL	String	Required	ECM URL as mentioned in ECM API documentation
Auth Key name	String	Required	“Key” to pass ticket/token generated from “Connect” action
Parent ID Parameter	String	Required	The “value” is Folder Node ID under which file to be uploaded
Type Parameter	String	Required	The “value” should be as mentioned in ECM API documentation
File Name Parameter	String	Required	The “value” is Filename with extension
File body Parameter	File	Required	Provide entire file path
Output			
Returns a string with “Node ID”, otherwise error message			
Errors			
1. Invalid session 2. Invalid URL 3. Invalid Key 4. Node ID does not exist 5. Permissions denied			

6.2. Example

The screenshot displays the Automation Anywhere interface for configuring the 'ECMOperations: Upload' action. The left pane shows a workflow with the following steps:

- Start
- String Assign: '6333456' to \$sNodeID\$
- ECMOperations: Connect session: 'Default'
- ECMOperations: Upload session: 'Default'** (selected)
- ECMOperations: Disconnect session: 'Default'
- End

The right pane shows the configuration for the 'ECMOperations: Upload' action:

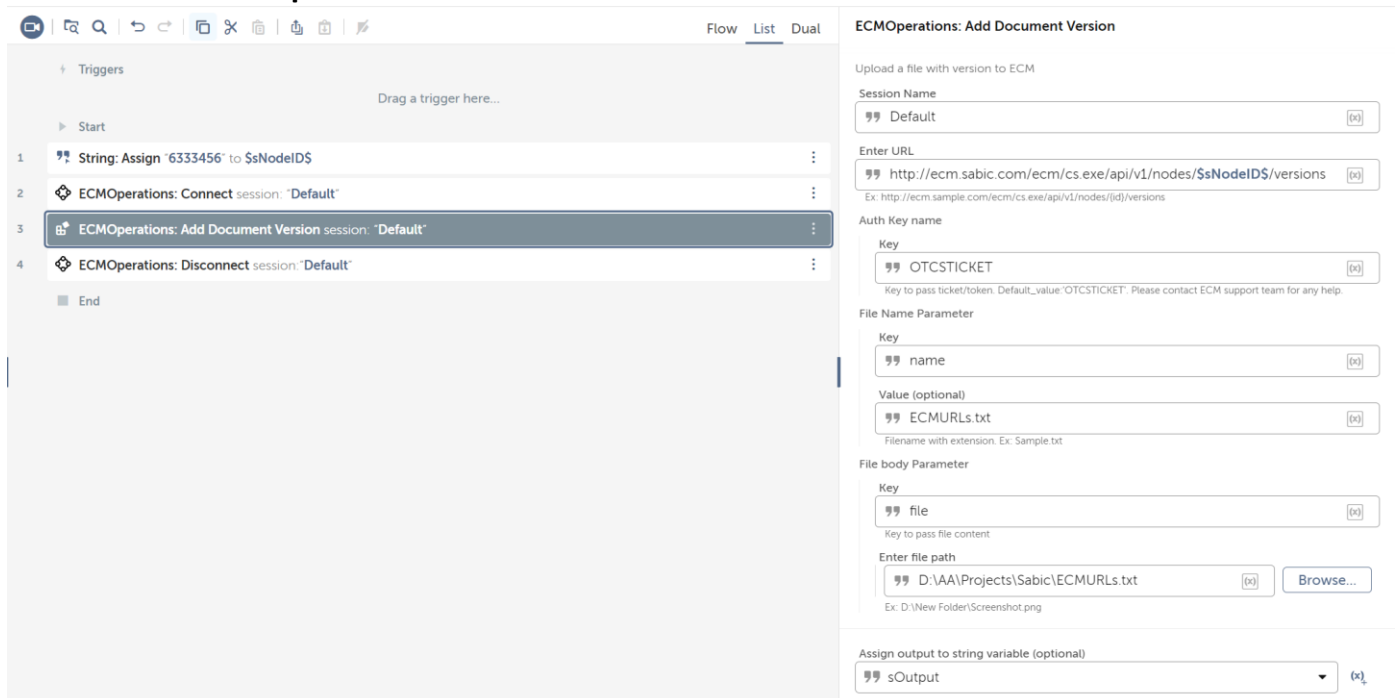
- Session Name:** Default
- Enter URL:** http://ecm.sabic.com/ecm/cs.exe/api/v1/nodes
- Auth Key name:** Key
- Key:** OTCSTICKET
- Parent ID Parameter:** Key: parent_id, Value: \$sNodeID\$
- Type Parameter:** Key: type, Value: 144
- File Name Parameter:** Key: name, Value (optional): ECMURLs.txt
- File body Parameter:** Key: file, Enter file path: D:\AA\Projects\Sabic\ECMURLs.txt
- Assign output to string variable (optional):** sOutput

7. Add Document Version:

7.1. Parameters

Purpose	This action is used to Upload file with version to ECM.		
Preconditions	Appropriate permissions should be given to the user. Connect action should be used before this action. Session name must be the same. Parameter “Key” is default but editable. According to ECM API document can be edited.		
Input			
Name	Type	Required?	Comments
Session Name	String	Required	Same session name used in ‘Connect’ action
Enter URL	String	Required	ECM URL as mentioned in ECM API documentation
Auth Key name	String	Required	“Key” to pass ticket/token generated from “Connect” action
File Name Parameter	String	Required	The “value” is Filename with extension
File body Parameter	File	Required	Provide entire file path
Output			
Returns a string with “Success”, otherwise error message			
Errors			
6. Invalid session 7. Invalid URL 8. Invalid Key 9. Node ID does not exist 10. Permissions denied			

7.2. Example



ECMOperations: Add Document Version

Upload a file with version to ECM

Session Name
 ☞ Default [x]

Enter URL
 ☞ http://ecm.sabic.com/ecm/cs.exe/api/v1/nodes/\$sNodeID\$/versions [x]
 Ex: http://ecm.sample.com/ecm/cs.exe/api/v1/nodes/{id}/versions

Auth Key name
 Key
 ☞ OTCSTICKET [x]
 Key to pass ticket/token. Default_value: "OTCSTICKET". Please contact ECM support team for any help.

File Name Parameter
 Key
 ☞ name [x]
 Value (optional)
 ☞ ECMURLs.txt [x]
 Filename with extension. Ex: Sample.txt

File body Parameter
 Key
 ☞ file [x]
 Key to pass file content
 Enter file path
 ☞ D:\AA\Projects\Sabic\ECMURLs.txt [x] Browse...
 Ex: D:\New Folder\ScreenShot.png

Assign output to string variable (optional)
 ☞ sOutput [x]

8. Move:

8.1. Parameters

Purpose	This action is used to Move file/folder to ECM.		
Preconditions	Appropriate permissions should be given to the user. Connect action should be used before this action. Session name must be the same. Parameter “Key” is default but editable. According to ECM API document can be edited.		
Input			
Name	Type	Required?	Comments
Session Name	String	Required	Same session name used in ‘Connect’ action
Enter URL	String	Required	ECM URL as mentioned in ECM API documentation
Auth Key name	String	Required	“Key” to pass ticket/token generated from “Connect” action
Destination ID Parameter	String	Required	The “value” is Parent Folder Node ID under which New Folder to be created
Original ID Parameter	String	Required	The “value” is Folder Node ID under which New Folder to be created
Output			
Returns a string with “Node ID”, otherwise error message			
Errors			
11. Invalid session 12. Invalid URL 13. Invalid Key 14. Node ID does not exist 15. Permissions denied			

8.2. Example

ECMOperations: Move

Move File or Folder from source to destination

Session Name
 Default

Enter URL
 http://ecm.sabic.com/ecm/cs.exe/api/v1/nodes
 Ex: http://ecm.sample.com/ecm/cs.exe/api/v1/nodes

Auth Key name
 Key: OTCSTICKET
 Key to pass ticket/token. Default_value: OTCSTICKET. Please contact ECM support team for any help.

Destination Node ID Parameter
 Key: parent_id
 Value: \$sDestinationNodeID
 Where the file or folder has to be moved

Original Node ID Parameter
 Key: original_id
 Value: \$sNodeID
 Which file or folder to be moved

Assign output to string variable (optional)
 sOutput

9. Rename:

9.1. Parameters

Purpose	This action is used to Rename file/folder in ECM.		
Preconditions	Appropriate permissions should be given to the user. Connect action should be used before this action. Session name must be the same. Parameter “Key” is default but editable. According to ECM API document can be edited.		
Input			
Name	Type	Required?	Comments
Session Name	String	Required	Same session name used in ‘Connect’ action
Enter URL	String	Required	ECM URL as mentioned in ECM API documentation
Auth Key name	String	Required	“Key” to pass ticket/token generated from “Connect” action
New Name Parameter	String	Required	The “value” is new file or folder name
Output			
Returns a string with “Node ID”, otherwise error message			
Errors			
16. Invalid session 17. Invalid URL 18. Invalid Key 19. Node ID does not exist 20. Permissions denied			

9.2. Example

The screenshot displays the Automation Anywhere interface. On the left, a workflow is shown with the following steps:

- Start
- String: Assign '63334569' to \$sNodeIDS
- ECMOperations: Rename session: 'Default'** (highlighted)
- ECMOperations: Disconnect session: 'Default'
- End

On the right, the configuration for the 'ECMOperations: Rename' action is shown:

- Rename File/Folder in ECM**
- Session Name:** Default
- Enter URL:** http://ecm.sabic.com/ecm/cs.exe/api/v1/nodes/\$sNodeIDS
- Auth Key name:** OTCSTICKET
- New Name Parameter:**
 - Key:** name
 - Value:** ECMURLs_v2.txt
- Assign output to string variable (optional):** sOutput

Author Comments

Important: ECM credentials should have the appropriate permission to perform ECM actions. Please use the 'Connect' action before all the other ECM actions. If you face any errors, please check your role/permission, try using a different user, or contact your internal ECM support team.

The given examples are for illustration purposes only. Developers should follow the best practices while using any action.

APIs are driven by JSON. Developer discretion advises ensuring the escape characters are well used when needed to avoid serialization errors. All values should be JSON escaped; there are many online tools to do this; one website we refer to is <https://www.freeformatter.com/json-escape.html>. For export, looping the files table and exporting would be ideal. The tables should be driven by column names, not by indices.

This package is compatible from A360 v19 onwards.