



# CTX-Variable-Rename User Guide

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## Preface

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### About this Manual

This document is a user guide for the CTX-Variable-Rename module

### Audience

The audience for this document is those wanting to understand how to use CTX-Variable-Rename module.

### Disclaimer

While this module has been successfully tested for a variety of flows and subtasks, due to the complex nature of Cortex flows there may still be unlikely edge cases where:

- A reference to a variable is not renamed.
- A symbol with the same name as a variable is renamed where it should not have been.

Therefore, it is advisable to check that flows and subtasks function as expected after renaming their variables.

### Related Material

Document
CTX-Variable-Rename Deployment Plan
CTX-Variable-Rename.studiopkg

### Abbreviations used in this Document

None

## Versions

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### Document Revisions

The following revisions have been made to this document

Date	Revision	Notes
21/05/2019	1.0	First Release

### Module Versions

The following revisions have been made to this module

Date	Revision	Notes
21/05/2019	1.0	Creation of: <ul style="list-style-type: none"><li>• CVR-Rename-Variables</li><li>• CVR-Select-Variables-To-Update</li></ul>

## Requirements

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This document details all the items required to deploy the CTX-Variable-Rename module.

Requirements:

- A minimum of Cortex v6.4 Installed on the Cortex Server
- A minimum of PowerShell v5 installed on the Cortex Server

## Integration

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### Integration with Third-Party Systems

PowerShell v5 is used to perform the renaming of variables within the flow file, executed by Cortex using the Cortex PowerShell OCI.

### Integration with Existing Infrastructure

The flows included in this module interact with Cortex Gateway and the Cortex Flow API using REST. Details of precisely what credentials and other parameters are required may be found in Section 3 of the CTX-Variable-Rename Deployment Plan.

## 1 Variable Rename Overview

### 1.1 Using the Module

The Cortex Variable Rename module focuses on the updating of variable names within a flow or subtask, both when the variables are declared in the variable store and when they are referred to in block properties. After performing the rename the flow or subtask should function in the exact same manner as it did beforehand.

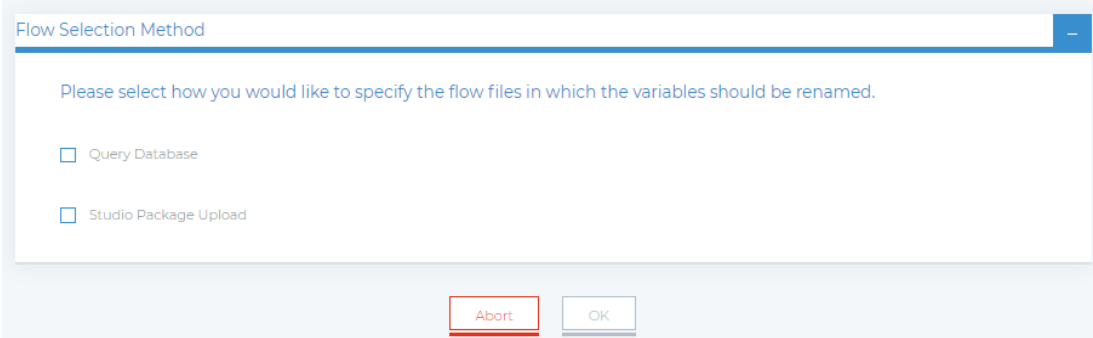
For example, the module could be used by a flow author who wishes to update a flow with ambiguously or vaguely named variables to have names that may be more meaningful to another author. Another common use may be to follow Cortex Best Practices by adding a subtask's acronym to the front of each variable it uses.

The module provides the following functionality:

1. The user specifies if they wish to select a flow or subtask from Cortex application server to which the module has been imported, or if they wish to upload a studio package containing it.
2. The variables used by the flow or subtask are displayed to the user and they may specify a new name for each.
3. The variables are renamed accordingly.

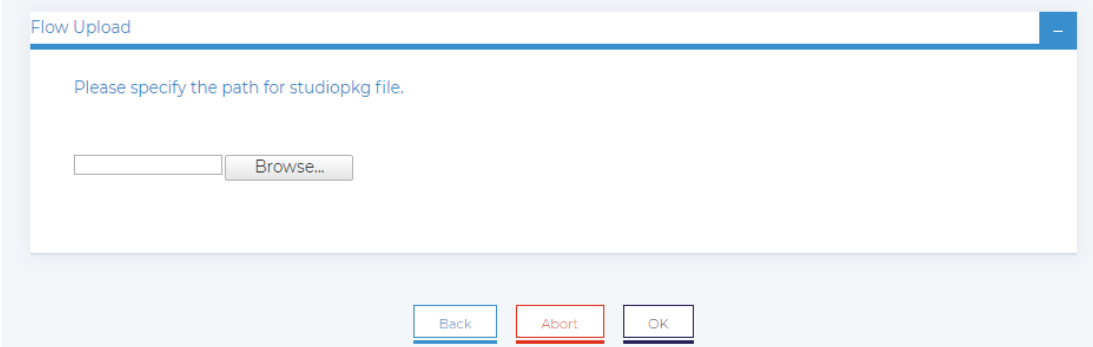
### 1.2 User Experience

1. To use the Cortex Variable Rename Module the user should execute the flow 'CVR-Select-Variables-To-Update'.
2. They are then presented with a page allowing them to choose the method by which flows are selected. Once a method has been chosen, they should select **OK**.



The dialog box is titled "Flow Selection Method". It contains a blue header bar with a minus sign icon. Below the header, there is a blue instruction text: "Please select how you would like to specify the flow files in which the variables should be renamed." There are two radio button options: "Query Database" and "Studio Package Upload". At the bottom, there are two buttons: "Abort" (highlighted with a red border) and "OK" (highlighted with a blue border).

3. If **Studio Package Upload** was selected, the user will be able to upload a **.studiopkg** file using the **Browse** button. Once a they have done so, they should select **OK**.



The dialog box is titled "Flow Upload". It contains a blue header bar with a minus sign icon. Below the header, there is a blue instruction text: "Please specify the path for studiopkg file." There is a text input field followed by a "Browse..." button. At the bottom, there are three buttons: "Back" (highlighted with a blue border), "Abort" (highlighted with a red border), and "OK" (highlighted with a blue border).

- If `Query Database` was selected, the user will be able to select a flow that is in the `CortexWeb` database. They may click through pages listing flows and/or filter the list of flows that are displayed. Once a flow has been chosen, they should choose `Select`.

**Flow Selection**

Select a flow to update

FLOW
Filter Flow
AutomatedTest-IVID-Insert-Variables-Into-Database
AutomatedTest-Module-Details
AutomatedTest-MRTC-Manually-Run-Test-Cases
AutomatedTest-RTOF-Run-Test-On-Flow
AutomatedTest-Subtask-Test-Flow-Template
AutomatedTest-VTCF-Validate-Test-Cases-Files
Gateway-EF-Export-Flows
Gateway-GAT-Get-Authentication-Token
Gateway-GIFS-Get-Ids-From-StudioPackage
Gateway-ISP-Import-Studio-Package

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End Select

- The user will be shown a table containing all the variables used by the flow in both of the two columns. The cells in the right-hand column are editable so the user may define what they wish the variables to be renamed to.

**Update Variables**

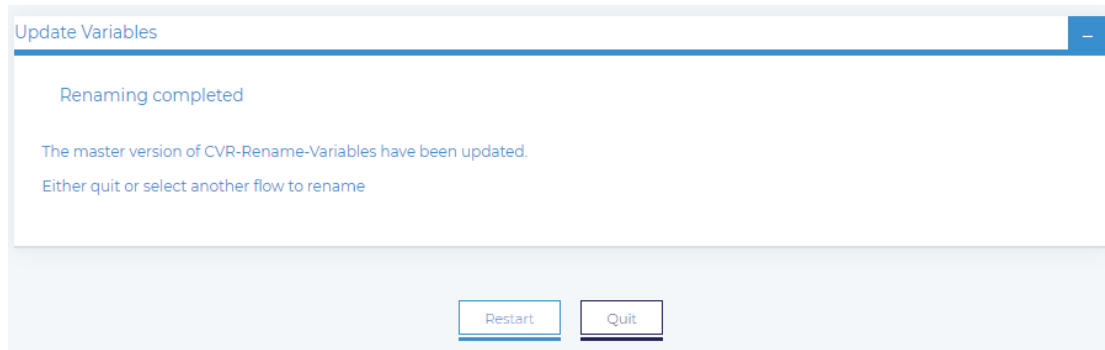
OLD-VARIABLE-NAME	UPDATED-VARIABLE-NAME
Filter Old-variable-name	Filter Updated-variable-name
i_Flow-Name	i_Flow-Name
i_Repo-Path	i_Repo-Path
i_Export-Location	i_Export-Location
i_Variable-Mappings	i_Variable-Mappings-UPDATED
Old-Names	Old-Names
New-Names	New-Names
New-Names-Text	New-Names-Text
Old-Names-Text	Old-Names-Text
PS-Response	PS-Response

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Abort OK



6. Once the user is satisfied with their new variable names, they should select **OK** and wait for the flow to complete the renaming. They will be displayed a message telling them that the renaming has been completed and they should select if they wish to quit or start again, renaming another flow.



## 2 Variable Rename Flows

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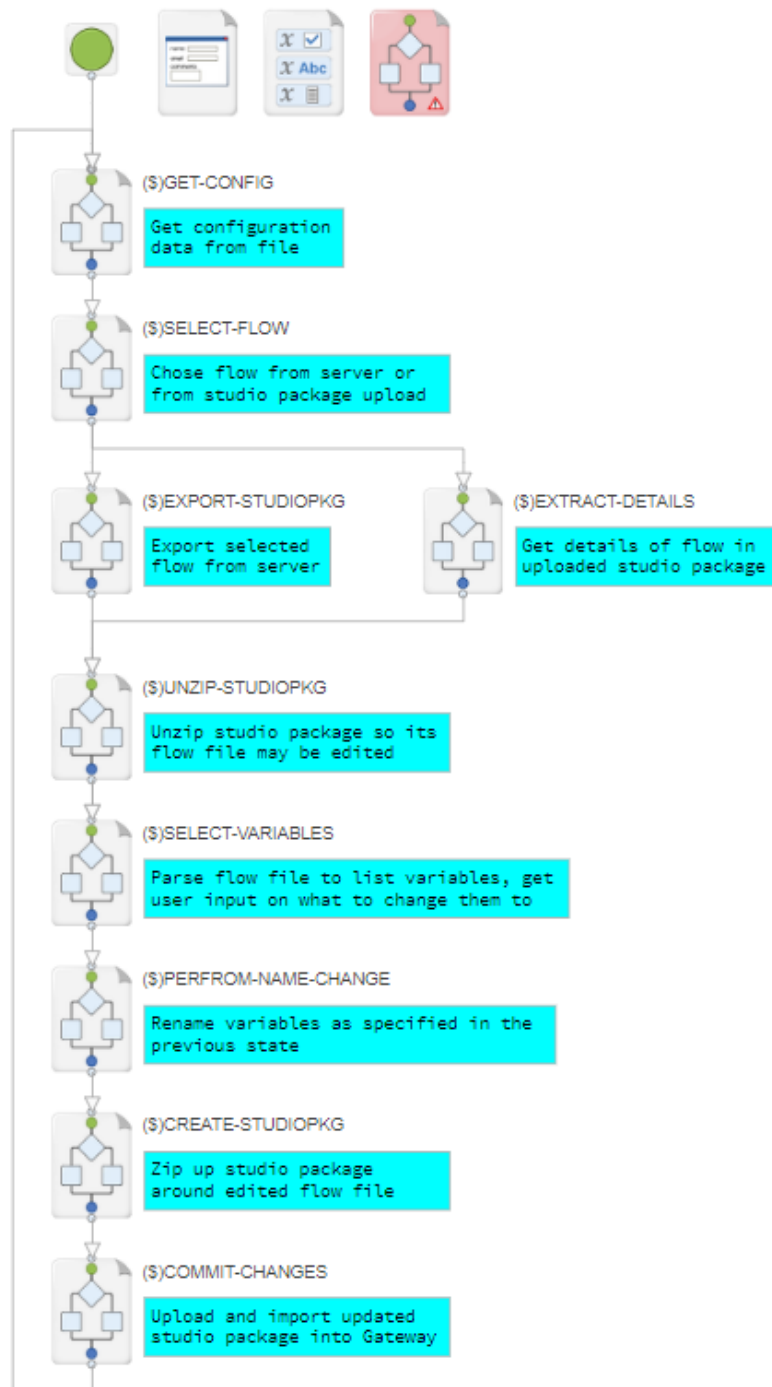
### 2.1 CVR-Select-Variables-To-Update

#### 2.1.1 Overview

The 'CVR-Select-Variables-To-Update' LivePortal flow is applied by the user to

- Either select a flow or subtask from the server or upload a studio package containing one.
- Select variables that the user wishes to rename and specify the new name of each.

## 2.1.2 States



## 2.1.3 Inputs

Name	Type	Comments
(\$)i_Config-File-Path	Text	The path to the config file on the server. Default value is 'C:\Cortex\VariablesRenaming.txt'

## 2.1.4 Outputs

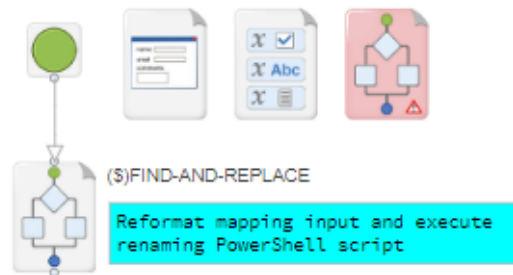
None

## 2.2 CVR-Rename-Variables

### 2.2.1 Overview

Given a structure variable mapping old variable names to new ones, the 'CVR-Rename-Variables' flow will reformat this to be compatible with PowerShell and then execute a script that applies these changes to a given flow file.

### 2.2.2 States



### 2.2.3 Inputs

Name	Type	Comments
(\$i_Variable-Mappings	Structure	<p>Mapping of old variable names to the names to which they are to be updated.</p> <p>E.g.</p> <pre>{   "OldVariableName1": "NewVariableName1",   "OldVariableName2": "NewVariableName2" }</pre> <p>Note that these must be expressed as names NOT as Cortex symbols, i.e. without the '(\$)' prefix.</p>
(\$i_Repo-Path	Text	<p>Path of the flow when searching for it from the 'Flows' tab on the left of the Cortex Gateway UI.</p> <p>E.g. Cortex-Library\CTX-Variable-Rename</p>
(\$i_Export-Location	Text	<p>File path of the location to which the studio package has been exported or moved after uploading.</p> <p>E.g. C:\Temp\Rename</p>
(\$i_Flow-Name	Text	Name of the flow to be updated

### 2.2.4 Outputs

None