HTTP Communications Utility

User Guide

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# Introduction

This asset enables Blue Prism to communicate with HTTP services without having to create a wrapper using the internal web services’ ability.

# Prerequisites

* This asset is made for Blue Prism V6.6 or later. If you wish to use it with earlier version, please use the SF version. This version is specially made for Blue Prism 6.5.

You will need a licenced edition of Blue Prism whether that be a full business version or one of the training or demonstration versions.

# Configuration

The asset can be downloaded as a zip package from GitHub. The asset is also available on the Digital Exchange. It has no additional dependencies on other software can be installed in the normal manner.

# Using the Asset

The asset has several functions.

## Post

Sends a message to a HTTP endpoint using the POST verb. The collection is encoded using “application/x-www-form-urlencoded”.

### Input:

|  |  |  |
| --- | --- | --- |
| **Name** | **Description** | **Data Type** |
| **AddressURL** | The URL to send the HTTP Post data to | Text |
| **Post Data** | A collection of values to send as Post data | Collection |
| **Use Proxy** | Set to true if you need to use a proxy | Flag |
| **Proxy URL** | OPTIONAL: The Proxy URL | Text |
| **Proxy Username** | OPTIONAL: The proxy Username | Text |
| **Proxy Password** | OPTIONAL: The proxy password | Text |
| **Headers** | OPTIONAL: HTTP Headers | Collection |
| **Accept** | OPTIONAL: Accept | Text |
| **Use Bearer Token** | OPTIONAL: Set this to true if you have a bearer token. | Flag |
| **Bearer Token** | OPTIONAL: Enter your bearer token | Text |

### Output:

|  |  |  |
| --- | --- | --- |
| **Name** | **Description** | **Data Type** |
| **Result** | The result from the Post query | Text |
| **Post Headers** | The headers related to the post query | Text |
| **Status Code** | The HTTP Status Code associated with the request | Number |

## Post JSON

### Sends a message to HTTP endpoint using the POST method. The action expects a raw string and sets the content type to “application/json”

### Input:

|  |  |  |
| --- | --- | --- |
| **Name** | **Description** | **Data Type** |
| **Address URL** | The URL to send the HTTP Post data to. | Text |
| **JSON** | The JSON message to send. | Text |
| **Use Proxy** | Set to true if you need to use a proxy. | Flag |
| **Proxy URL** | OPTIONAL: The proxy URL | Text |
| **Proxy Username** | OPTIONAL: The proxy username | Text |
| **Proxy Password** | OPTIONAL: The proxy password | Password |
| **Headers** | OPTIONAL: The headers collection | Collection |
| **Use Bearer Token** | OPTIONAL: Set to true if using a Bearer Token for Authorization | Flag |
| **Bearer Token** | OPTIONAL: Enter bearer token value here if one has been provided. | Text |

### Output:

|  |  |  |
| --- | --- | --- |
| **Name** | **Description** | **Data Type** |
| **Result** | The result from the Post query. | Text |
| **Result Headers** | The headers related to the Post Query | Text |
| **Status Code** | The HTTP status code associated with the request. | Number |

## HTTP Request

### Sends a message to HTTP endpoint using the specified HTTP method and content-type.

### Input:

|  |  |  |
| --- | --- | --- |
| **Name** | **Description** | **Data Type** |
| **Address URL** | The URL to send the HTTP Post data to. | Text |
| **JSON** | The JSON message to send. | Text |
| **Use Proxy** | Set to true if you need to use a proxy. | Flag |
| **Content Type** | The content type of the HTTP request. | Text |
| **Method** | The method of the HTTP request. | Text |
| **Proxy URL** | OPTIONAL: The proxy URL | Text |
| **Proxy Username** | OPTIONAL: The proxy username | Text |
| **Proxy Password** | OPTIONAL: The proxy password | Password |
| **Headers** | OPTIONAL: The headers collection | Collection |
| **Accept** | OPTIONAL: The file types that can be accepted. | Text |
| **Username** | OPTIONAL: Basic Authentication username | Text |
| **Password** | OPTIONAL: Basic Authentication password | Password |
| **Certificate ID** | OPTIONAL: The id of the client authentication certificate | Text |
| **Force Pre Authorization** | OPTIONAL: Force the request to send the authorization headers | Flag |
| **File URL** | OPTIONAL: Is the JSON Body a file instead? |  |
| **Use Bearer Token** | OPTIONAL: Set to true if using a Bearer Token for Authorization | Flag |
| **Bearer Token** | OPTIONAL: Enter bearer token value here if one has been provided. | Text |

### Output:

|  |  |  |
| --- | --- | --- |
| **Name** | **Description** | **Data Type** |
| **Result** | The result from the Post query. | Text |
| **Headers as Json** | The returned headers response. | Text |
| **Status Code** | The HTTP status code associated with the request. | Number |

## HTTP Request File

### Sends a message to HTTP endpoint using the specified HTTP method and content-type and receives the binary response.

### Input:

|  |  |  |
| --- | --- | --- |
| **Name** | **Description** | **Data Type** |
| **Address URL** | The URL to send the HTTP Post data to. | Text |
| **Body** | The JSON message to send. | Text |
| **Use Proxy** | Set to true if you need to use a proxy. | Flag |
| **Content Type** | The content type of the HTTP request. | Text |
| **Method** | The method of the HTTP request. | Text |
| **Proxy URL** | OPTIONAL: The proxy URL | Text |
| **Proxy Username** | OPTIONAL: The proxy username | Text |
| **Proxy Password** | OPTIONAL: The proxy password | Password |
| **Headers** | OPTIONAL: The headers collection | Collection |
| **Accept** | OPTIONAL: The file types that can be accepted. | Text |
| **Username** | OPTIONAL: Basic Authentication username | Text |
| **Password** | OPTIONAL: Basic Authentication password | Password |
| **Certificate ID** | OPTIONAL: The id of the client authentication certificate | Text |
| **Force Pre Authorization** | OPTIONAL: Force the request to send the authorization headers | Flag |
| **File URL** | OPTIONAL: Is the JSON Body a file instead? | Flag |
| **Use Bearer Token** | OPTIONAL: Set to true if using a Bearer Token for Authorization | Flag |
| **Bearer Token** | OPTIONAL: Enter bearer token value here if one has been provided. | Text |

### Output:

|  |  |  |
| --- | --- | --- |
| **Name** | **Description** | **Data Type** |
| **Result** | The result from the Post query. | Text |
| **Headers as Json** | The returned headers response. | Text |
| **Status Code** | The HTTP status code associated with the request. | Number |

## Load Certificate

### This action loads an X.509 certificate from a file and returns the certificate ID..

### Input:

|  |  |  |
| --- | --- | --- |
| **Name** | **Description** | **Data Type** |
| **Filename** | OPTIONAL: The full path to a file containing the certificate | Text |
| **Subject** | OPTIONAL: The subject of the certificate if loading from the store | Text |
| **Password** | OPTIONAL: The password to load the certificate if needed | Password |

### Output:

|  |  |  |
| --- | --- | --- |
| **Name** | **Description** | **Data Type** |
| **Certificate ID** | The ID of the certificate requested. | Text |

## URL Encode

### This action provides the ability to encode a URL. URL encoding converts characters that are not allowed in a URL into character-entity equivalents. For example, when the characters < and > are embedded in a URL, they are encoded as %3c and %3e.

### Input:

|  |  |  |
| --- | --- | --- |
| **Name** | **Description** | **Data Type** |
| **URL** | The URL to encode. | Text |

### Output:

|  |  |  |
| --- | --- | --- |
| **Name** | **Description** | **Data Type** |
| **URL** | The encoded URL | Text |

# Support

This asset is provided free-of-charge by Blue Prism. Blue Prism does not provide formal support of this asset. Please direct questions you have related to this asset, to the Digital Exchange Community page:

<https://community.blueprism.com/communities/community-home?CommunityKey=1e516cfe-4d1f-4de9-a9eb-58d15bf38c81>