### **URL Adapter**

PAS 23.1.1 With the URL adapter, it is possible to get and post messages from and to a web endpoint. The table below lists what you can do with the URL adapter and what protocols are supported.

Task	Protocols	Adapter Action	Description	Documentation Reference
Send a request to a server	http, https     Idap, Idaps     ftp, ftps	request	Send a request to a given URL using the given parameters. The response data is stored in memory.	
		streamToF ile	Send a request to a given URL using the given parameters. The response data is stored to a file.  Streaming is mostly relevant in FTP context. In order to avoid consuming too much memory, the URL adapter offers the option to receive data in little chunks. This mechanism is called streaming: After receiving a small data chunk from the server, it is immediately written to a file before receiving the next one.	
		streamFro mFile	Send a request to a given URL using the given parameters. The request data is read from a file.  Streaming is mostly relevant in FTP context. In order to avoid consuming too much memory, the URL adapter offers the option to send data in little chunks. This mechanism is called streaming: The request data is available as a file and send in small data chunks.	

The input and output of this adapter is always of type **Blob** to support all possible data types (e.g. binary for images, text with HTML code, XML messages, etc.).

### Static and Dynamic Requests

URL request can be static or dynamic.

- Static means that the whole backend information (host, path, protocol, etc.) is defined on the URL alias, and is not modified on the **request** action.
- For dynamic requests, the default information provided by the URL alias can be overridden on the request action before sending the request to the host. This is sometimes required, for example, when URL parameters must be calculated or are known at runtime only. Refer to URL Adapter Reference for more information on the URL adapter parameters.

If large amounts of data have to be transferred, the URL adapter offers the possibility of streaming the data from or into a file so avoiding to utilize large memory chunks. Streaming FTP explains how to do this for the ftp protocol. Applying streaming to the other protocols works analogously.

Find an overview on all attributes and parameters of the URL adapter on URL Adapter Reference.

### **HTTP Headers**

With xUML service adapter calls, the xUML Runtime adds the following outgoing HTTP headers containing correlation information to the request:

- X-Transaction-Id or xTransactionId (in JMS context)
  - This header identifies the transaction the call belongs to. You can set the transaction id manually with setTransactionID. If not set, the Runtime will generate one. This header will be passed through the callstack to identify all service calls that belong to a transaction.
- X-Request-Id
  - This header identifies the unique request. The Runtime generates a unique number for each adapter call.
- X-Sender-Host and X-Sender-Service
  - These headers contain the sender host resp. the sender service. They are set by the Runtime automatically

Transaction id and request id will be logged to the transaction log on the adapter call (refer to Administrati on Guide > Contents of the Transaction Log for more details). Having this information, you can use this for error analysis or usage metrics.

#### On this Page:

- Static and Dynamic Requests
- HTTP Headers
- Adding an URL Adapter Operation to a Diagram
- Configuring the URL Adapter Operation

#### UrlAdapter\_Example



Click the icon to download a simple example model that shows the usage of the URL adapter in Sc heer PAS Designer

#### **Related Pages:**

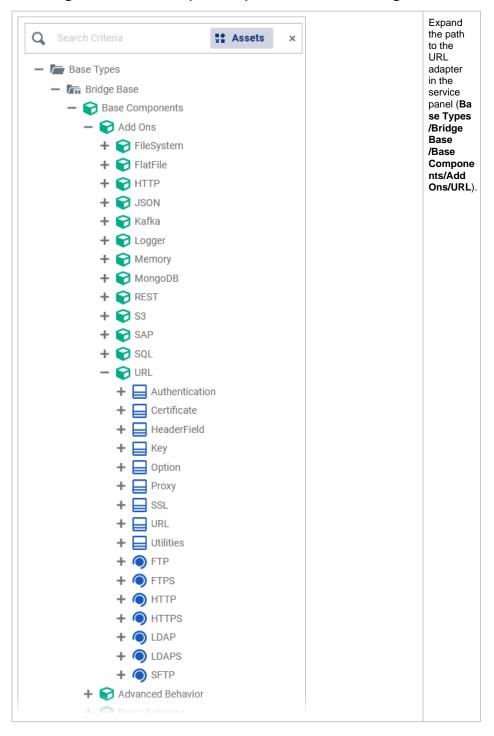
- Using the URL Adapter with the HTTP Protocol
- Using the URL Adapter with the FTP Protocol and Related Protocols
   FTPS
- Using the URL Adapter with the LDAP Protocol
- Setting cURL Options on the URL Adapter
- URL Adapter Reference

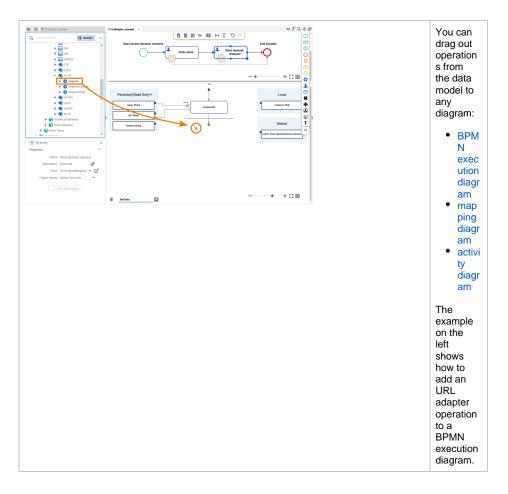
#### **Related Documentation:**

 Administration Guide

 Contents of the Transaction Log

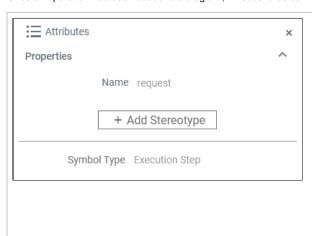
# Adding an URL Adapter Operation to a Diagram





## Configuring the URL Adapter Operation

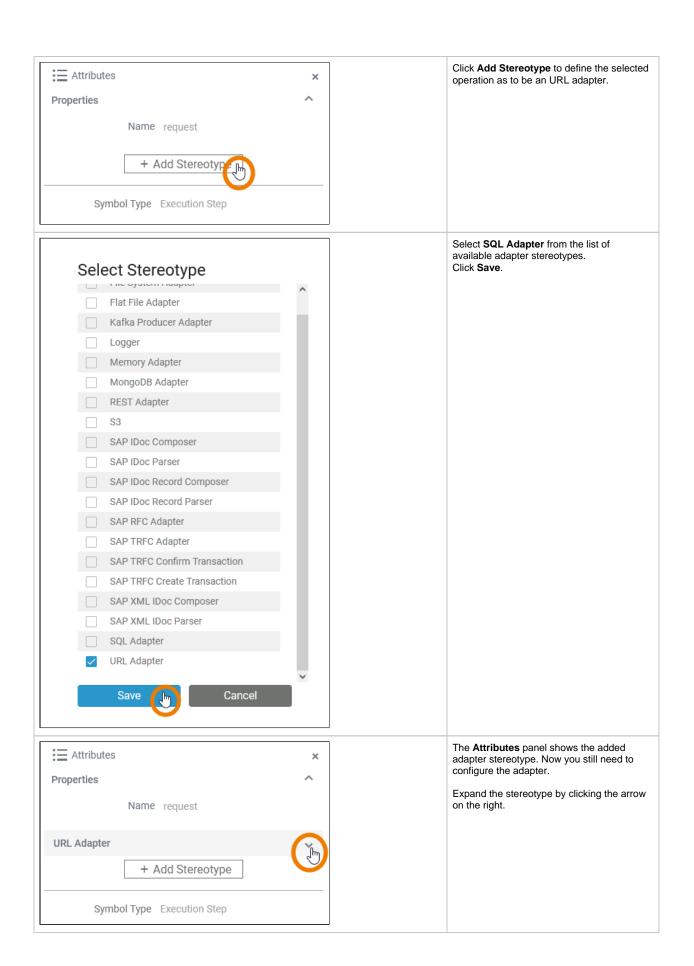
Once an operation has been added to a diagram, it needs to be configured as an URL adapter.

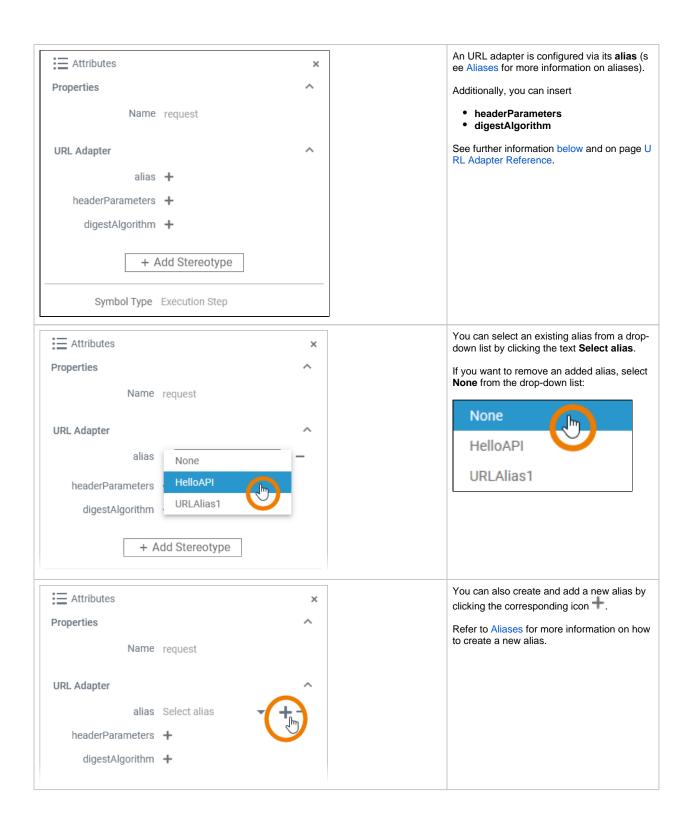


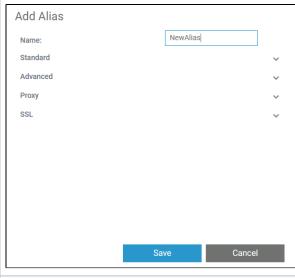
Select the newly added URL adapter operation and switch to the **Attributes** panel. Depending on the diagram type you can see the following information (example BPMN execution diagram):

Attribute	Description	Allowed Values / Example
Name	The name of the URL adapter operation.	request
Symbol Type	Operations added to an execution diagram are execution steps.	Execution Step

All this is predefined and cannot be changed.

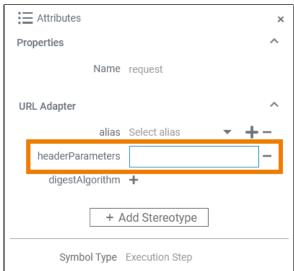






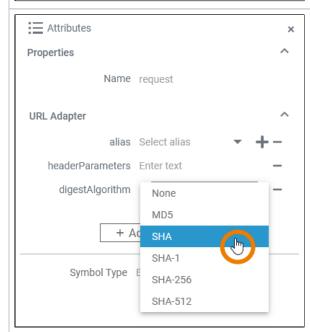
A dialog opens where you can name and configure the new alias. Refer to URL Adapter Reference for more information on the configuration options of this adapter.

Click Save to create and add the new alias.



To add **headerParameters** click on the corresponding icon and enter additional header information for the URL adapter call in form of name and value pairs.

Refer to URL Adapter Reference for more details.



To select a **digestAlgorithm**, click icon and select an algorithm from the list. When applied, a digest header is generated using the specified algorithm, and sent with the request.

Refer to URL Adapter Reference for detailed explanations of all options.