

Setting cURL Options on the URL Adapter



This page explains the **URL Adapter** in Bridge context. If you were looking for the same information regarding the [PAS Designer](#), refer to [URL Adapter](#) in the Designer guide.

In the component diagram, these options can be set on the URL adapter alias. Use tagged value **options** in order to set cURL options.
If you want to specify multiple cURL options, list them separated by ',' (comma) or ' ' (blank). If an option allows for multiple values, you can concatenate them by using the '|' (pipe) operator.

Examples:

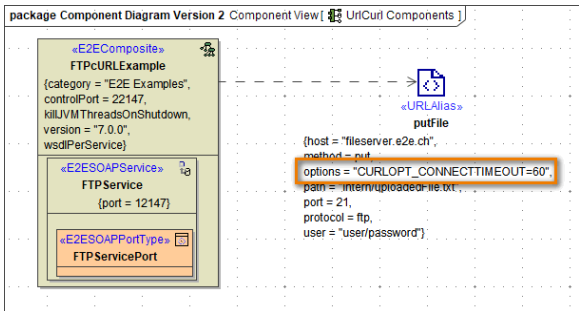
- `CURLOPT_CONNECTTIMEOUT=60` (see [note below](#) for a hint on this option)
- `CURLOPT_CONNECTTIMEOUT=60, E2E_FORBID_REUSE=true`
- `CURLOPT_CONNECTTIMEOUT=60 E2E_FORBID_REUSE=true`
- `CURLOPT_HTTPAUTH=CURLAUTH_NTLM|CURLAUTH_NEGOTIATE, E2E_FORBID_REUSE=true`

Alternatively it is possible to set the cURL options dynamically in an activity diagram. For that purpose, input an object of type array with name **options** directly into the URL adapter. The array element must be of class **Option** which is located in package **Base Components/Add Ons/URL**. Set the cURL option you want to set to attribute **name** and the value to attribute **value**.

Example:

Example File (Builder project Add-ons/URL):

<bridgeDocPath>\Add-ons\URL\uml\urlCurl.xml



E2E cURL Options

Option	Data Type	Remarks
E2E_FORBID_REUSE	Boolean	If E2E_FORBID_REUSE is "true" for a SOAP adapter, then all curl connections are closed after the request. This also affects URL adapter options, if there are any.

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Related Pages:

- [cURL documentation](#)

Native cURL Options

Internally, the URL adapter uses cURL. The following options - listed in alphabetical order - are currently supported (see the [cURL documentation](#) for more details).

Legend:	✔ Option is recognized and forwarded to cURL
	⚠ Option is recognized and forwarded to cURL, but may overwrite built-in URL adapter functionality
	✖ Option is not supported and not forwarded to cURL

All cURL data types can be set by using Bridge Strings:

cURL Data Type	Bridge Type	Comment
Array (String)	Array of Strings	You must use a <code>cast()</code> to use this type, because the URL option value is of type String.
Bitmask	String	It is a string containing a string of cURL options separated by the pipe character (" ").
Blob	n/a	Is not supported.
Boolean	String	You can use <code>false</code> or <code>0</code> for false and <code>true</code> or <code>1</code> for true.
Callback	n/a	Is not supported.
Constant	String	Use the defined strings from cURL . For example, for the option <code>CURLOPT_FTP_FILEMETHOD</code> you can use <code>CURLFTPMETHOD_MULTICWD</code> , <code>CURLFTPMETHOD_NOCWD</code> or <code>CURLFTPMETHOD_SINGLECWD</code> . The xUML Runtime will convert the strings to numbers.
FileHandle	n/a	Is not supported.
Integer	String	String will be converted to a number.
String	String	

Option	Data Type	Supported	Supported cURL Constants / Remarks	Since Version
<code>CURLOPT_ACCEPT_ENCODING</code>	String	✔		Runtime 2020.11
<code>CURLOPT_ACCEPTTIMEOUT_MS</code>	Integer	✔		Runtime 2020.11
<code>CURLOPT_APPEND</code>	String	✔		Runtime 2020.11
<code>CURLOPT_AUTOREFERER</code>	Boolean	✔		
<code>CURLOPT_AWS_SIGV4</code>	String	✔		Runtime 2021.4
<code>CURLOPT_BUFFER_SIZE</code>	Integer	✔		
<code>CURLOPT_CAINFO</code>	String	⚠		
<code>CURLOPT_CAPATH</code>	String	✔		
<code>CURLOPT_CACHE_TIMEOUT</code>	Integer	✔	In seconds (see cURL documentation).	Runtime 2023.2

CURLOPT_CONNECTTIMEOUT	Integer	✓	In seconds (see cURL documentation).	
			This timeout applies to the connection phase of the TCP/IP protocol only. If you want to use timeout limiting the whole interaction time, use CURLOPT_TIMEOUT.	
CURLOPT_CONNECT_ONLY	Boolean	✓		
CURLOPT_CRLF	Boolean	✓		
CURLOPT_COOKIEFILE	String	✓		Runtime 2020.11
CURLOPT_CONV_FROM_NETWORK_FUNCTION	Callback	✗		
CURLOPT_CONV_FROM_UTF8_FUNCTION	Callback	✗		
CURLOPT_CONV_TO_NETWORK_FUNCTION	Callback	✗		
CURLOPT_COOKIE	String	✓		
CURLOPT_COOKIEFILE	String	✓		
CURLOPT_COOKIEJAR	String	✓		
CURLOPT_COOKIELIST	String	✓		
CURLOPT_COOKIESESSION	Boolean	✓		
CURLOPT_CUSTOMREQUEST	String	⚠		
CURLOPT_DEBUGDATA	Blob	✗		
CURLOPT_DEBUGFUNCTION	Callback	✗		
CURLOPT_DIRELISTONLY	String	✓		Runtime 2020.11
CURLOPT_DNS_CACHE_TIMEOUT	Integer	✓	In seconds (see cURL documentation).	
CURLOPT_DNS_USE_GLOBAL_CACHE	Boolean	✓		
CURLOPT_DOH_SSL_VERIFYHOST	Boolean	✓		Runtime 2021.4
CURLOPT_DOH_SSL_VERIFYPEER	Boolean	✓		Runtime 2021.4
CURLOPT_DOH_SSL_VERIFYSTATUS	Integer	✓		Runtime 2021.10
CURLOPT_DOH_URL	String	✓		Runtime 2020.11
CURLOPT_EGDSOCKET	String	✓		
CURLOPT_ENCODING	String	✓		

CURLOPT_ERORBUFFER	Blob	✗		
CURLOPT_EXPECT_100_TIMEOUT_MS	Integer	✓		Runtime 2020.11
CURLOPT_FAILONERROR	Boolean	⚠		
CURLOPT_FILETIME	Boolean	✓		
CURLOPT_FORBID_REUSE	Boolean	✓		
CURLOPT_FRESH_CONNECT	Boolean	✓		
CURLOPT_FTP_ACCOUNT	String	✓		
CURLOPT_FTP_ALTERNATIVE_TO_USER	String	✓		
CURLOPT_FTPAPPEND	Boolean	✓		
CURLOPT_FTP_CREATE_MISSING_DIRS	Boolean	✓		
CURLOPT_FTP_FILEMETHOD	Constant	✓	CURLFTP_METHOD_DEFAULT	Same behavior as if no method is specified.
			CURLFTP_METHOD_MULTICWD	cURL does a single CWD operation for each path part in the given URL.
			CURLFTP_METHOD_NOCWD	cURL does no CWD at all.
			CURLFTP_METHOD_SINGLECWD	libcurl does one CWD with the full target directory and then operates on the file "normally".
CURLOPT_FTPLISTONLY	Boolean	✓		
CURLOPT_FTP_RESPONSE_TIMEOUT	Integer	✓	In seconds (see cURL documentation).	
CURLOPT_FTPPORT	String	✓		
CURLOPT_FTP_SKIP_PASV_IP	Boolean	✓		
CURLOPT_FTP_SSL	Constant	✓	Deprecated. Use CURLOPT_USE_SSL instead.	
CURLOPT_FTP_SSL_CCC	Boolean	✓	false represents CURLOPT_FTP_SSL_CCC_NONE, true is for CURLOPT_FTP_SSL_CCC_PASSIVE .	
CURLOPT_FTPSSLAUTH	Constant	✓	CURLFTPAUTH_DEFAULT	Allow cURL to decide.
			CURLFTPAUTH_SSL	Try SSL first, and only if that fails try TLS.
			CURLFTPAUTH_TLS	Try TLS first, and only if that fails try SSL.

CURLOPT_FTP_USE_EPRT	Boolean	✓			
CURLOPT_FTP_USE_EPSV	Boolean	✓			
CURLOPT_FTP_USE_PRET	String	✓			Runtime 2020.11
CURLOPT_FOLLOWLOCATION	Boolean	⚠			
CURLOPT_HAPPY_EYEBALLS_TIMEOUT_MS	Integer	✓			Runtime 2020.11
CURLOPT_HTTP_PROXY_PROTOCOL	String	✓			Runtime 2020.11
CURLOPT_HTTPHEADER	Boolean	✓			
CURLOPT_HTTPHEADERDATA	Blob	✗			
CURLOPT_HTTPHEADERFUNCTION	Callback	✗			
CURLOPT_HTTPAUTH	Constant	✓	CURLAUTH_ANY	cURL will automatically select the one it finds most secure.	
			CURLAUTH_ANYSAFE	all except basic authentication. cURL will automatically select the one it finds most secure.	
			CURLAUTH_AWS_SIGV4	AWS V4 signature (see CURLOPT_AWS_SIGV4).	Runtime 2021.4
			CURLAUTH_BASIC	basic authentication	
			CURLAUTH_DIGEST	digest authentication	
			CURLAUTH_GSSNEGOTIATE	deprecated, use CURLAUTH_NEGOTIATE instead	
			CURLAUTH_NEGOTIATE	negotiate (SPNEGO) authentication	
			CURLAUTH_NTLM	NTLM authentication	
CURLOPT_HTTPGET	Boolean	✓			
CURLOPT_HTTPHEADER	Array (String)	⚠			
CURLOPT_HTTPPOST	Other	✗			
CURLOPT_HTTPPROXYTUNNEL	Boolean	✓			
CURLOPT_HTTP_VERSION	Constant	✓	CURL_HTTP_VERSION_NONE	cURL will use whatever HTTP version it thinks fit.	
			CURL_HTTP_VERSION_1_0	Enforce HTTP 1.0 requests.	

			CURL_HTTP_VERSION_1_1	Enforce HTTP 1.1 requests.	
CURLOPT_HTTP200ALIASES	Array (String)	✓			
CURLOPT_IGNORE_CONTENT_LENGTH	Boolean	✓			
CURLOPT_INFILESIZE	Integer	⚠			
CURLOPT_INFILESIZE_LARGE	Integer	⚠			
CURLOPT_INTERFACE	String	⚠			
CURLOPT_IOCTLDATA	Blob	✗			
CURLOPT_IOCTLFUNCTION	Callback	✗			
CURLOPT_IPRESOLVE	Constant	✓	CURL_IPRESOLVE_WHATEVER	Resolves addresses to all IP versions that your system allows.	
			CURL_IPRESOLVE_V4	Resolve to IPv4 addresses.	
			CURL_IPRESOLVE_V6	Resolve to IPv6 addresses.	
CURLOPT_ISSUERCERT	String	✓			Runtime 2020.11
CURLOPT_KEEPASSWD	String	✓			
CURLOPT_KRB4LEVEL	String	✓			
CURLOPT_LOCALPORT	Integer	✓			
CURLOPT_LOCALPORTRANGE	Integer	✓			
CURLOPT_LOW_SPEED_LIMIT	Integer	✓			
CURLOPT_LOW_SPEED_TIME	Integer	✓		In seconds (see cURL documentation).	
CURLOPT_MAXAGE_CONN	Integer	✓			Runtime 2020.11
CURLOPT_MAXCONNECTS	Integer	✓			
CURLOPT_MAXFILESIZE	Integer	✓			
CURLOPT_MAXFILESIZE_LARGE	Integer	✓			
CURLOPT_MAXLIFETIME_CONN	Integer	✓			Runtime 2022.5
CURLOPT_MAX_RECV_SPEED_LARGE	Integer	✓			









CURLOPT_MAXREDIRS	Integer	⚠			
CURLOPT_MAX_SEND_SPEED_LARGE	Integer	✓			
CURLOPT_MIME_OPTIONS	Constant	✓	CURLMIMEOPT_FORMESCAPE	Tells libcurl to escape multipart form field and file names using the backslash-escaping algorithm rather than percent-encoding (HTTP only). See cURL documentation for more.	Runtime 2022.5
CURLOPT_NETRC	Constant	✓	CURL_NETRC_OPTIONAL	The use of your ~/.netrc file is optional, and information in the URL is to be preferred.	
			CURL_NETRC_IGNORED	cURL will ignore the file and use only the information in the URL.	
			CURL_NETRC_REQUIRED	The use of the file is required, the information in the URL is ignored.	
CURLOPT_NETRC_FILE	String	✓			
CURLOPT_NEW_DIRECTORY_PERMS	Integer	✓			Runtime 2020.11
CURLOPT_NEW_FILE_PERMS	Integer	✓			Runtime 2020.11
CURLOPT_NOBODY	Boolean	✓			
CURLOPT_NOPROGRESS	Boolean	✓			
CURLPOT_NO_PROXY	String	✓	See cURL documentation .		
CURLOPT_NO_SIGNAL	Boolean	⚠			
CURLOPT_QUOTE	Array (String)	✓			
CURLOPT_PATH_AS_IS	String	✓			Runtime 2020.11
CURLOPT_PINNEDPUBLICKEY	String	✓			Runtime 2020.11
CURLOPT_PORT	Integer	✓			
CURLOPT_POST	Boolean	✓			
CURLOPT_POSTFIELDS	Blob	✗			
CURLOPT_POSTFIELDSIZE	Integer	✓			
CURLOPT_POSTFIELDSIZE_LARGE	Integer	✓			
CURLOPT_POSTQUOTE	Array (String)	⚠			
CURLOPT_POSTREDIR	String	✓			Runtime 2020.11
CURLOPT_PREQUOTE	Array (String)	✓			
CURLOPT_REFERERDATA	Blob	✗			

CURLOPT_PRIVATE	Callback	✗			
CURLOPT_PRIVATE	Blob	✗			
CURLOPT_PROGRESSDATA	Blob	✗			
CURLOPT_PROGRESSFUNCTION	Callback	✗			
CURLOPT_PROTOCOLS_STR	String	✗			
CURLOPT_PROXY	String	⚠			
CURLOPT_PROXYAUTH	Constant	✓	CURLAUTH_BASIC	basic authentication	
			CURLAUTH_DIGEST	digest authentication	
			CURLAUTH_NEGOTIATE	negotiate (SPNEGO) authentication	
			CURLAUTH_GSSNEGOTIATE	deprecated, use CURLAUTH_NEGOTIATE instead	
			CURLAUTH_NTLM	NTLM authentication	
			CURLAUTH_ANY	cURL will automatically select the one it finds most secure.	
			CURLAUTH_ANYSAFE	All except basic authentication. cURL will automatically select the one it finds most secure.	
CURLOPT_PROXY_CAINFO	String	✓			Runtime 2020.11
CURLOPT_PROXY_CAPATH	String	✓			Runtime 2020.11
CURLOPT_PROXY_CRLF	String	✓			Runtime 2020.11
CURLOPT_PROXYHEADER	String	✓			Runtime 2020.11
CURLOPT_PROXY_ISSUERCERT	String	✓			Runtime 2021.4
CURLOPT_PROXY_KEYPASSWD	String	✓			Runtime 2020.11
CURLOPT_PROXYPASSWORD	String	✓			Runtime 2020.11
CURLOPT_PROXY_PINNEDPUBLICKEY	String	✓			Runtime 2020.11
CURLOPT_PROXYPORT	Integer	⚠			
CURLOPT_PROXY_SERVICE_NAME	String	✓			Runtime 2020.11
CURLOPT_SSLCERT	String	✓			Runtime 2020.11

CURLOPT_PROXY_SSLCERTTYPE	String	✓			Runtime 2020.11
CURLOPT_PROXY_SSL_CIPHER_LIST	String	✓			Runtime 2020.11
CURLOPT_PROXY_SSLKEY	String	✓			Runtime 2020.11
CURLOPT_PROXY_SSLKEYTYPE	String	✓			Runtime 2020.11
CURLOPT_PROXY_SSL_OPTIONS	String	✓			Runtime 2020.11
CURLOPT_PROXY_SSL_VERIFYHOST	String	✓			Runtime 2020.11
CURLOPT_PROXY_SSL_VERIFYPEER	String	✓			Runtime 2020.11
CURLOPT_PROXY_SSLVERSION	String	✓			Runtime 2020.11
CURLOPT_PROXY_TLS13_CIPHERS	String	✓			Runtime 2020.11
CURLOPT_PROXY_TRANSFER_MODE	String	✓			Runtime 2020.11
CURLOPT_PROXYTYPE	Constant	⚠	CURLPROXY_HTTP	HTTP proxy	
			CURLPROXY_SOCKS4	SOCKS4 proxy	
			CURLPROXY_SOCKS5	SOCKS5 proxy	
CURLOPT_PROXYUSERNAME	String	✓			Runtime 2020.11
CURLOPT_PROXYUSERPWD	String	⚠			
CURLOPT_PUT	Boolean	✓			
CURLOPT_QUICK_EXIT	Boolean	✗			
CURLOPT_RANDOM_FILE	String	✓			
CURLOPT_RANGE	String	✓			
CURLOPT_READDATA	Blob	✗			
CURLOPT_READFUNCTION	Callback	✗			
CURLOPT_REDIRECT_PROTOCOLS_STR	String	✗			
CURLOPT_REFERER	String	✓			
CURLOPT_RESOLVE	String	✓			Runtime 2020.11
CURLOPT_RESUME_FROM	Integer	✓			

CURLOPT_RESUME_FROM_LARGE	Integer	✓		
CURLOPT_SERVER_RESPONSE_TIMEOUT	Integer	✓		Runtime 2021.4
CURLOPT_SERVICE_NAME	String	✓		Runtime 2020.11
CURLOPT_SOCKS5_AUTH	String	✓		Runtime 2020.11
CURLOPT_SOCKS5_GSSAPI_NEC	String	✓		Runtime 2020.11
CURLOPT_SOCKS5_GSSAPI_SERVICE	String	✓		Runtime 2020.11
CURLOPT_SSH_AUTH_TYPES	Constant	✓	CURLSSH_AUTH_KEYBOARD is not implemented for obvious reasons.	
CURLOPT_SSH_HOSTKEYDATA	Blob	✗		
CURLOPT_SSH_HOSTKEYFUNCTION	Callback	✗		
CURLOPT_SSH_HOST_PUBLIC_KEY_SHA256	String	✓		Runtime 2022.5
CURLOPT_SSH_PUBLIC_KEYFILE	String	✓		
CURLOPT_SSH_PUBLIC_KEY_MD5	String	✓		
CURLOPT_SSH_PRIVATE_KEYFILE	String	✓		
CURLOPT_SSHARE	FileHandle	✗		
CURLOPT_SSLCERT	String	⚠		
CURLOPT_SSLCERTTYPE	String	⚠		
CURLOPT_SSLCERTPASSWD	String	✓		
CURLOPT_SSLL_CIPHER_LIST	String	✓		
CURLOPT_SSLL_CTX_DATA	Blob	✗		
CURLOPT_SSLL_CTX_FUNCTION	Callback	✗		
CURLOPT_SSLENGINE	String	✓		
CURLOPT_SSLENGINE_DEFAULT	None	✓		
CURLOPT_SSLLKEY	String	⚠		
CURLOPT_SSLLKEYTYPE	String	⚠		
CURLOPT_SSLLKEYPASSWD	String	⚠		

CURLOPT_SSL_OPTIONS	Constant	✓	CURLSSLOPT_ALLOW_BEST	Tells libcurl to not attempt to use any workarounds for a security flaw in the SSL3 and TLS1.0 protocols. See cURL documentation for more.	
CURLOPT_SSL_SESSIONID_CACHE	Boolean	✓			
CURLOPT_SSL_VERIFYHOST	Integer	⚠			
CURLOPT_SSL_VERIFYPEER	Boolean	⚠			
CURLOPT_SSL_VERIFYSTATUS	Integer	✓			Runtime 2021.10
CURLOPT_SSLVERSION	Constant	✓	CURL_SSLVERSION_DEFAULT	Default action. This will attempt to figure out the remote SSL protocol version.	
			CURL_SSLVERSION_TLSv1	Use TLSv1.x.	
			CURL_SSLVERSION_SSLv2	Use SSLv2.	
			CURL_SSLVERSION_SSLv3	Use SSLv3.	
CURLOPT_STERR	FileHandle	✗			
CURLOPT_TCP_NODELAY	Boolean	✓			
CURLOPT_TELNETOPTIONS	Array (String)	✓			
CURLOPT_TIMECONDITION	Constant	✓	CURL_TIMECOND_IFMODSINCE		
			CURL_TIMECOND_IFUNMODSINCE		
CURLOPT_TIMEOUT	Integer	✓	In seconds (see cURL documentation).		
CURLOPT_TIMEOUT_MS	Integer	✓	In milliseconds (see cURL documentation).		
CURLOPT_TIMEVALUE	Integer	✓			
CURLOPT_TIMEVALUE_LARGE	Integer	✓			Runtime 2020.11
CURLOPT_TLS_SESSION_CIPHERS	String	✓			Runtime 2020.11
CURLOPT_TRANSFERTEXT	Boolean	✓			
CURLOPT_UNRESTRICTED_AUTH	Boolean	✓			
CURLOPT_UPLOAD	Boolean	⚠			
CURLOPT_URL	String	⚠			

CURLOPT_USE_SSL	Constant		CURLUSESSL_NONE	Do not attempt to use SSL.	
			CURLUSESSL_TRY	Try using SSL, proceed as normal otherwise.	
			CURLUSESSL_CONTROL	Require SSL for the control connection	
			CURLUSESSL_ALL	Require SSL for all communication.	
CURLOPT_USERAGENT	String				
CURLOPT_USERPWD	String				
CURLOPT_VERBOSE	Boolean				
CURLOPT_WRITEDATA	Blob				
CURLOPT_WRITEFUNCTION	Callback				
CURLOPT_WS_OPTIONS	Bitmask				
CURLOPT_XOAUTH2_BEARER	String				Runtime 2020.11