

Setting cURL Options on the URL Adapter

The URL adapter uses cURL. In some cases you might want to set cURL options on an URL adapter request, e.g. to specify a timeout. You can do that by adding these cURL options on the URL alias to the **options** attribute. 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.

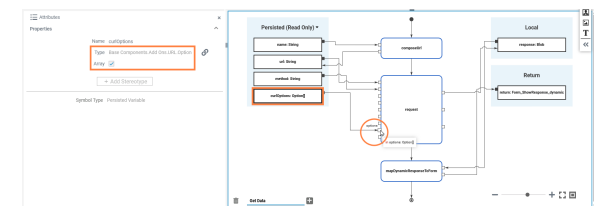
Examples:

- `CURLOPT_CONNECTTIMEOUT=60` (see note below for a hint regarding 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`

Setting cURL Options dynamically

Alternatively, it is possible to provide the cURL options dynamically.

The options parameter is an array of **Base Components.Add Ons.Option**, describing a **name/value** pair. Set the cURL option you want to provide to attribute **name** and the value to attribute **value**. Then, provide the options array to parameter **options** of the URL adapter as shown below.



Persisted variable **curlOptions** is an array of **Option**. It contains the cURL options as name/value pairs. The execution diagram provides this variable to the parameter **option** of the URL adapter call (**request**). The contents of **curlOptions** need to be prepared before in a dedicated operation, e.g. a mapping diagram.

Scheer PAS cURL Options

Option	Data Type	Remarks
E2E_FORBID_REUSE	Boolean	If E2E_FORBID_REUSE is true for a URL adapter call, then all curl connections are closed after the request.

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Native cURL Options

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

cURL Data Types

All cURL data types can be set by using xUML Base Type **String** :

cURL Data Type	xUML Base 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_NO_CWD</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	

List of Supported Options

Option	Data Type	Supported	Supported cURL Constants / Remarks
<code>CURLOPT_ACCEPT_ENCODING</code>	String	✔	
<code>CURLOPT_ACCEPTTIMEOUT_MS</code>	Integer	✔	
<code>CURLOPT_APPEND</code>	String	✔	
<code>CURLOPT_AUTOREFERER</code>	Boolean	✔	
<code>CURLOPT_AWS_SIGV4</code>	String	✔	
<code>CURLOPT_BUFFERSIZE</code>	Integer	✔	
<code>CURLOPT_CAINFO</code>	String	⚠	
<code>CURLOPT_CAPATH</code>	String	✔	
<code>CURLOPT_CACHE_TIMEOUT</code>	Integer	✔	In seconds (see cURL documentation).

CURLOPT_CONNECTTIMEOUT	Integer	✓	In seconds (see cURL documentation). <div> 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. </div>
CURLOPT_CONNECT_ONLY	Boolean	✓	
CURLOPT_CRLF	Boolean	✓	
CURLOPT_CRLF_FILE	String	✓	
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_DIRLISTONLY	String	✓	
CURLOPT_DNS_CACHE_TIMEOUT	Integer	✓	In seconds (see cURL documentation).
CURLOPT_DNS_USE_GLOBAL_CACHE	Boolean	✓	
CURLOPT_DOH_SSL_VERIFYHOST	Boolean	✓	
CURLOPT_DOH_SSL_VERIFYPEER	Boolean	✓	
CURLOPT_DOH_SSL_VERIFYSTATUS	Integer	✓	
CURLOPT_DOH_URL	String	✓	
CURLOPT_EGDSOCKET	String	✓	
CURLOPT_ENCODING	String	✓	
CURLOPT_ERRORBUFFER	Blob	✗	
CURLOPT_EXPECT_100_TIMEOUT_MS	Integer	✓	

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	✓	CURLFTPMETHOD_DEFAULT	Same behavior as if no method is specified.
			CURLFTPMETHOD_MULTICWD	cURL does a single CWD operation for each path part in the given URL.
			CURLFTPMETHOD_NOCWD	cURL does no CWD at all.
			CURLFTPMETHOD_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 CURLOPTSSL_CCC_NONE, true is for CURLOPTSSL_CCC_PASSIVE .	
CURLOPT_FTPS_SSLAUTH	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	✓		
CURLOPT_FOLLOWLOCATION	Boolean	⚠		
CURLOPT_HAPPY_EYEBALLS_TIMEOUT_MS	Integer	✓		
CURLOPT_HAPROXYPROTOCOL	String	✓		
CURLOPT_HEADER	Boolean	✓		

CURLOPT_HEADERDATA	Blob	✗		
CURLOPT_HEADERFUNCTION	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).
			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_IOCTLLDATA	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	✓		



CURLOPT_KEYPASSWD	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	✓		
CURLOPT_MAXCONNECTS	Integer	✓		
CURLOPT_MAXFILESIZE	Integer	✓		
CURLOPT_MAXFILESIZE_LARGE	Integer	✓		
CURLOPT_MAXLIFETIME_CONN	Integer	✓		
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.
CURLOPT_NETRC	Constant	✓	CURL_NETRC_OPTIONAL	The use of your <code>~/.netrc</code> 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	✓		
CURLOPT_NEW_FILE_PERMS	Integer	✓		
CURLOPT_NOBODY	Boolean	✓		
CURLOPT_NOPROGRESS	Boolean	✓		
CURLPOT_NOPROXY	String	✓	See cURL documentation .	
CURLOPT_NO_SIGNAL	Boolean	⚠		
CURLOPT_QUOTE	Array (String)	✓		
CURLOPT_PATH_AS_IS	String	✓		
CURLOPT_PINNEDPUBLICKEY	String	✓		

CURLOPT_PORT	Integer	✓		
CURLOPT_POST	Boolean	✓		
CURLOPT_POSTFIELDS	Blob	✗		
CURLOPT_POSTFIELDSIZE	Integer	✓		
CURLOPT_POSTFIELDSIZE_LARGE	Integer	✓		
CURLOPT_POSTQUOTE	Array (String)	⚠		
CURLOPT_POSTREDIR	String	✓		
CURLOPT_PREQUOTE	Array (String)	✓		
CURLOPT_PREREQDATA	Blob	✗		
CURLOPT_PREREQFUNCTION	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	✓		
CURLOPT_PROXY_CAPATH	String	✓		
CURLOPT_PROXY_CRLF	String	✓		
CURLOPT_PROXYHEADER	String	✓		
CURLOPT_PROXY_ISSUERCERT	String	✓		
CURLOPT_PROXY_KEYPASSWD	String	✓		
CURLOPT_PROXY_PASSWORD	String	✓		
CURLOPT_PROXY_PINNEDPUBLICKEY	String	✓		

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

CURLOPT_RESUME_FROM_LARGE	Integer	✓	
CURLOPT_SERVER_RESPONSE_TIMEOUT	Integer	✓	
CURLOPT_SERVICE_NAME	String	✓	
CURLOPT_SOCKS5_AUTH	String	✓	
CURLOPT_SOCKS5_GSSAPI_NEC	String	✓	
CURLOPT_SOCKS5_GSSAPI_SERVICE	String	✓	
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	✓	
CURLOPT_SSH_PUBLIC_KEYFILE	String	✓	
CURLOPT_SSH_PUBLIC_KEY_MD5	String	✓	
CURLOPT_SSH_PRIVATE_KEYFILE	String	✓	
CURLOPT_SHARE	FileHandle	✗	
CURLOPT_SSLCERT	String	⚠	
CURLOPT_SSLCERTTYPE	String	⚠	
CURLOPT_SSLCERTPASSWD	String	✓	
CURLOPT_SSL_CIPHER_LIST	String	✓	
CURLOPT_SSL_CTX_DATA	Blob	✗	
CURLOPT_SSL_CTX_FUNCTION	Callback	✗	
CURLOPT_SSLENGINE	String	✓	
CURLOPT_SSLENGINE_DEFAULT	None	✓	
CURLOPT_SSLKEY	String	⚠	
CURLOPT_SSLKEYTYPE	String	⚠	
CURLOPT_SSLKEYPASSWD	String	⚠	
CURLOPT_SSL_OPTIONS	Constant	✓	CURLSSLOPT_ALLOW_BEAST 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	✓		
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_STDRR	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	✓		
CURLOPT_TLS13_CIPHERS	String	✓		
CURLOPT_TRANSFERTEXT	Boolean	✓		
CURLOPT_UNRESTRICTED_AUTH	Boolean	✓		
CURLOPT_UPLOAD	Boolean	⚠		
CURLOPT_URL	String	⚠		
CURLOPT_USESSL	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_WRITEOPTIONS	Bitmask			
CURLOPT_XOAUTH2_BEARER	String	