

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

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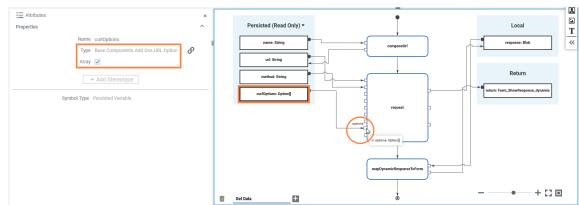
Setting cURL Options dynamically

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.

Related Pages:

- [Supported cURL Options](#)
- [cURL documentation](#)



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.

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 cast() 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_CACHEACHE_TIMEOUT</code>	Integer	✓	In seconds (see cURL documentation).

CURLOPT_CONN_ECTTIMEOUT	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_CONN_ECT_ONLY	Boolean	✓	
CURLOPT_CRLF	Boolean	✓	
CURLOPT_CRLFFILE	String	✓	
CURLOPT_CONV_FROM_NETWORKFUNCTION	Callback	✗	
CURLOPT_CONV_FROM_UTF8FUNCTION	Callback	✗	
CURLOPT_CONV_TO_NETWORKFUNCTION	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_GLOBALCACHE	Boolean	✓	
CURLOPT_DOH_SSL_VERIFYHOST	Boolean	✓	
CURLOPT_DOH_SSL_VERIFYPER	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_FTPFILEMETHOD	Constant		<p>CURLFTPMETHOD_DEFAULT Same behavior as if no method is specified.</p> <p>CURLFTPMETHOD_MULTICWD cURL does a single CWD operation for each path part in the given URL.</p> <p>CURLFTPMETHOD_NOCWD cURL does no CWD at all.</p> <p>CURLFTPMETHOD_SINGLECWD libcurl does one CWD with the full target directory and then operates on the file "normally".</p>
CURLOPT_FTPLISTONLY	Boolean		
CURLOPT_FTP_RESPONSE_TIMEOUT	Integer		In seconds (see cURL documentation).
CURLOPT_FTPPORT	String		
CURLOPT_FTP_SKIP_PASV_IP	Boolean		
CURLOPT_FTPSSL	Constant		Deprecated. Use CURLOPT_USE_SSL instead.
CURLOPT_FTPSSL_CCC	Boolean		false represents CURLFTPSSL_CCC_NONE, true is for CURLFTPSSL_CCC_PASSIVE .
CURLOPT_FTPSSLAUTH	Constant		<p>CURLFTPAUTH_DEFAULT Allow cURL to decide.</p> <p>CURLFTPAUTH_SSL Try SSL first, and only if that fails try TLS.</p> <p>CURLFTPAUTH_TLS Try TLS first, and only if that fails try SSL.</p>
CURLOPT_FTPUSE_EPRT	Boolean		
CURLOPT_FTPUSE_EPSV	Boolean		
CURLOPT_FTPUSE_PRET	String		
CURLOPT_FOLLLOWLOCATION	Boolean		
CURLOPT_HAPPY_EYEBALLS_TIMEOUT_MS	Integer		
CURLOPT_HAPROXYPROTOCOL	String		
CURLOPT_HEADER	Boolean		

CURLOPT_HEAD_ERDATA	Blob	✖	
CURLOPT_HEAD_ERFUNCTION	Callback	✖	
CURLOPT_HTTP_AUTH	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_SIG_V4 AWS V4 signature (see CURLOPT_AWS_SIG_V4).
			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_HTTP_GET	Boolean	✓	
CURLOPT_HTTP_HEADER	Array (String)	⚠	
CURLOPT_HTTP_POST	Other	✖	
CURLOPT_HTTP_PROXYTUNNEL	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_HTTP_200ALIASES	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	✓	

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_MAXLFETIME_CONN	Integer	✓	
CURLOPT_MAX_RECV_SPEED_LARGE	Integer	✓	
CURLOPT_MAXREDIRS	Integer	⚠	
CURLOPT_MAXSEND_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_NEWDIRECTORY_PERMISSIONS	Integer	✓	
CURLOPT_NEWFILE_PERMS	Integer	✓	
CURLOPT_NOBODY	Boolean	✓	
CURLOPT_NOPROGRESS	Boolean	✓	
CURLOPT_NOPROXY	String	✓	See cURL documentation .
CURLOPT_NOSIGNAL	Boolean	⚠	
CURLOPT_QUOTE	Array (String)	✓	
CURLOPT_PATH_AS_IS	String	✓	
CURLOPT_PINNEDPUBLICKEY	String	✓	

CURLOPT_PORT	Integer	✓	
CURLOPT_POST	Boolean	✓	
CURLOPT_POST_FIELDS	Blob	✗	
CURLOPT_POST_FIELDSIZE	Integer	✓	
CURLOPT_POST_FIELDSIZE_LA RGE	Integer	✓	
CURLOPT_POST_QUOTE	Array (String)	⚠	
CURLOPT_POST_REDIR	String	✓	
CURLOPT_PREQ_UOTE	Array (String)	✓	
CURLOPT_PRER_EQDATA	Blob	✗	
CURLOPT_PRER_EQFUNCTION	Callback	✗	
CURLOPT_PRIV_ATE	Blob	✗	
CURLOPT_PROG RESSDATA	Blob	✗	
CURLOPT_PROG RESSFUNCTION	Callback	✗	
CURLOPT_PROT OCOLS_STR	String	✗	
CURLOPT_PROXY	String	⚠	
CURLOPT_PROX YAUTH	Constant	✓	<p>CURLAUTH_BASIC basic authentication</p> <p>CURLAUTH_DIGEST digest authentication</p> <p>CURLAUTH_NEGOTIATE negotiate (SPNEGO) authentication</p> <p>CURLAUTH_GSSNEGOTIATE deprecated, use CURLAUTH_NEGOTIATE instead</p> <p>CURLAUTH_NTLM NTLM authentication</p> <p>CURLAUTH_ANY cURL will automatically select the one it finds most secure.</p> <p>CURLAUTH_ANYSAFE All except basic authentication. cURL will automatically select the one it finds most secure.</p>
CURLOPT_PROX Y_CAINFO	String	✓	
CURLOPT_PROX Y_CAPATH	String	✓	
CURLOPT_PROX Y_CRLFILE	String	✓	
CURLOPT_PROX YHEADER	String	✓	
CURLOPT_PROX Y_ISSUERCERT	String	✓	
CURLOPT_PROX Y_KEYPASSWD	String	✓	
CURLOPT_PROX YPASSWORD	String	✓	
CURLOPT_PROX Y_PINNEDPUBL ICKEY	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_QUIC_K_EXIT	Boolean			
CURLOPT_RANDFILE	String			
CURLOPT_RANGE	String			
CURLOPT_READDATA	Blob			
CURLOPT_READFUNCTION	Callback			
CURLOPT_REDIR_PROTOCOLS_STR	String			
CURLOPT_REFERRER	String			
CURLOPT_RESOLVE	String			
CURLOPT_RESUME_FROM	Integer			

CURLOPT_RESUME_FROM_LARGE	Integer	✓	
CURLOPT_SERVER_RESPONSE_TIMEOUT	Integer	✓	
CURLOPT_SOCKS5_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	✓	CURLOPT_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_STDERR	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_VERBOSSE	Boolean	⚠		
CURLOPT_WREDDATA	Blob	✗		

CURLOPT_WRITEFUNCTION	Callback	✖		
CURLOPT_WS_OPTIONS	Bitmask	✖		
CURLOPT_XOAUTH2_BEARER	String	✓		