

# SOAP Service Components

Find below an example of an xUML composite containing an simple SOAP service:

Component Diagram of the HelloWorldExample



The <<E2ESOAPService>> holds the following tagged values:

Name Dialog / Tag / Parameter	Description	Allowed Values	
Authentication			
<b>Authentication Mode</b> (authentication Mode)	Defines the authentication mode to be used with this SOAP service. <ul style="list-style-type: none"> <li>If HTTPBasicAuth is used, you define that the service composite authenticates the user. User name and password must then be given in the tagged value user. For more details see <a href="#">Basic Authentication with the E2E Bridge</a>.</li> <li>If HTTPRemoteAuth is used, a reverse proxy needs to authenticate the user and pass it to the service. The service then expects a set REMOTE-USER HTTP header. Typically the Apache reverse proxy is used for that.</li> </ul> Independent of the authentication mode, the user is found in the principal object if the authentication succeeded.	none HTTPBasicAuth HTTPRemoteAuth	no authentication HTTP basic authentication HTTP remote authentication
<b>User</b> (user)	Specifies user and password for the use of HTTP Basic authentication.	Example: user/password	
HTTP			
<b>Port</b> (port)	Specifies the machine port number the service is binding to. This port number can be given at the service level only.	any positive integer	
<b>Max Request Body Size</b> (maxRequestBodySize)	Runtime 2021.2 Specifies the maximum size of the request in KB (1 KB = 1024 Bytes). This can be used to prevent DoS or similar attacks. When the payload of the service exceeds the given maximum, incoming request are rejected. <div style="border: 1px solid #ccc; padding: 5px; margin-top: 10px;"> <p><b>i</b> If you have multiple SOAP services in one composite, you can only apply the same value to all. If you specify different values on each of them, the Runtime will pick one and apply them to all.</p> </div>	any positive integer 0 2048	Accept unlimited requests (default of services compiled with Builder versions < 7.12.0). Builder 7.12.0 2MB (default if not specified).
<b>Max Request Header Size</b> (maxRequestHeaderSize)	Runtime 2022.6 Specifies the maximum size of the request header in KB (1 KB = 1024 Bytes). This can be used to prevent DoS or similar attacks. When the header payload of the service exceeds the given maximum, incoming request are rejected. <div style="border: 1px solid #ccc; padding: 5px; margin-top: 10px;"> <p><b>i</b> <b>Compatibility Hint</b> For older Runtimes, a limit of 8 KB applies.</p> </div> <div style="border: 1px solid #ccc; padding: 5px; margin-top: 10px;"> <p><b>i</b> If you have multiple SOAP services in one composite, you can only apply the same value to all. If you specify different values on each of them, the Runtime will pick one and apply them to all.</p> </div>	any positive integer 8	8 KB (default if not specified).
Proxy			

<b>External Proxy Host</b> (externalProxyHost)	Specifies the host name as seen by the client. <ul style="list-style-type: none"> <li>If a server certificate is used, the certificate must be issued for this name.</li> <li>If this tagged value is not set, the name of the node hosting the proxy is being used.</li> </ul>		
<b>Proxy Protocol</b> (proxyProtocol)	Specifies the used proxy protocol.	HTTP	use the HTTP protocol
		HTTPS	use the HTTPS protocol (default)
<b>Proxy Host</b> (proxyHost)	Specifies the host for the proxy deployment. If <b>localhost</b> is used, the proxy will be created on the same host the service is deployed to. Use a dedicated host, if you want to run your proxy on a different host of the same Bridge domain. See also <b>externalProxyHost</b> .	any name	
		localhost	default
<b>Proxy Port</b> (proxyPort)	Specifies the port the proxy is listening to.	any number	
		80	default for HTTP
		443	default for HTTPS
<b>Proxy Path</b> (proxyPath)	Specifies the part of the overall URL that is mapped to the actual host name and port. <div style="border: 1px solid #ccc; padding: 5px; margin-top: 10px;">  If <b>proxyPath</b> is used, the modeler must ensure that this value is unique within the proxy. </div>	<proxy URL> </service host> </composite name>	default
SOAP			
<b>Encoding</b> (encoding)	Defines the encoding of the SOAP operation. See <a href="#">Encoding of SOAP Operations</a> for more information on SOAP encoding and the Bridge.	rpc/soap	SOAP Remote Procedure Call (RPC) encoding
		doc/literal	SOAP document-style encoding
<b>Timezone</b> (timezone)	Time zone string as specified in the <a href="#">time zone appendix</a> . timezone is used to print DateTime expressions.	Examples: "Australia/Melbourne", "CET", "Etc/GMT+10".  If "local" is used, the date/time is printed relative to the local timezone of the Bridge, for example: 2012-10-01T12:36:47.0+02:00 (the timezone of the Bridge is UTC+02:00)	
<b>Date Format String</b> (dateFormatString)	Date formatting code as listed in <a href="#">Date and Time Formatting</a> . If nothing is defined, the XSD standard is used.	Example: %F	
<b>Wsd Namespace</b> (wsdlNamespace)	Specifies the target namespace of the generated WSDL file. This is relevant only, if <b>wsdlPerService</b> in the xUML composite is true (see <a href="#">Frontend Components</a> ).		