

# Sending MTOM/XOP Messages

SOAtest and Virtualize

can work with services leveraging the MTOM (Message Transmission Optimization Mechanism) and XOP (XML-binary Optimized Packaging) technologies. You can elect the binary content to include—as well as validate, send and receive—optimized messages.

MTOM optimized messages can be sent using the SOAP Client or Message Responder in Form Input view.

The XOP optimization is performed by replacing the `xsd:base64Binary` element contents with a reference that looks similar to the following:

```
<xop:Include href="cid:1.urn:uuid:66B8EEAD527B7A844D1317849401696@apache.org" xmlns:xop="http://www.w3.org/2004/08/xop/include" />
```

The same href cid value is used in a `--MIME_boundary` section, which would include the corresponding non-encoded content.

To enable the sending of optimized messages, complete the following:

1. Click on the tool's **Misc.** or **Options**

tab and choose **Custom** from the **Attachment Encapsulation Format** drop-down menu.

2. Enable either **MTOM Always** or **MTOM Optional**

- **MTOM Always:** This tool will always send the request in a XOP Package (i.e. with MIME boundaries)—even when there is not optimized content in the request (i.e. even when `xsd:base64Binary` XML types are not present in the message).
- **MTOM Optional:** This tool will send the request in a XOP Package (i.e. with MIME boundaries) only when there is optimized content in the request. In the absence of optimized content, it will send a normal request. Note that **MTOM Always** or **MTOM Optional** can be selected at the

test or Responder suite

level in the **SOAP Client Options**

tab or in the **SOAP Client** page of the Preferences panel.

3. Select the

**Request** or **Request**

tab and make sure **Form Input** is selected from the **Views** menu. The Form Input view is a schema-aware view. In this view, the `xsd:base64Binary` schema datatype will be recognized so that you can reference the content that you want to optimize. When you click on a `base64Binary` type, the following options are available:

- **Reference to file:** This is the recommended option. This option allows you to select a file to send as optimized content.

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the contents from the file as the contents are being sent on the wire. This way, the file contents are not stored in the suite.

- **Persist As Relative Path:** It is always recommended that the path to the file be kept as a relative path to the suite to allow for easier sharing and collaboration with the rest of the organization.
- **Import from file:** This option (not recommended) allows you to read the contents in from the file. This option is not recommended for big files because the contents of the file will be loaded in to memory.
- Additionally, the file to be sent can be driven by data sources by selecting **Parameterized** from the drop down box and selecting a **File Data Source**. For more information about File Data Sources, see

[Configuring a File Data Source in SOAtest](#) or [Configuring a File Data Source in Virtualize](#).