

Dynamic E-mail

Dynamic e-mails are created with variable content and SMTP parameters. For instance, the list of recipients may be generated from a database query. For the dynamic content of an e-mail body, you may also use the output from other actions (like system messages, error messages, etc.), text data from a file, or any other backend system.

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



<your example path>\Add-ons\EMail\uml\smtpEmailing.xml

On this Page:

- [Dynamic E-mail Activity Diagram](#)
 - [Header Parameters](#)
 - [SMTP Adapter Parameters](#)
- [Testing Dynamic E-mail](#)

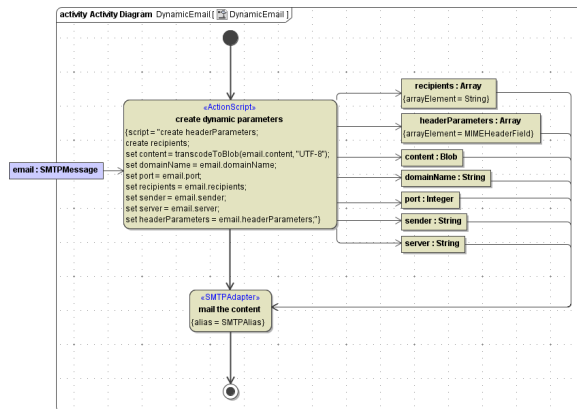
Related Pages:

- [SMTP Adapter Reference](#)

Dynamic E-mail Activity Diagram

The input parameters will be mapped to objects that will be passed to the SMTP adapter in the activity diagram (see picture below).

Figure: Dynamic E-mail Activity Diagram



In the action node **create parameters parameters**, the input parameters of input object **email** are mapped to the central buffer nodes (dynamic parameters) that will in turn be passed to the SMTP adapter (action node **mail the content**).

Header Parameters

The xUML Runtime assigns a correlation ID to each adapter call. This ID is stored in header field **X-Bridge-CorrelationID**. Adapter calls can be identified by this ID. Also, it is logged to the transaction log.

SMTP Adapter Parameters

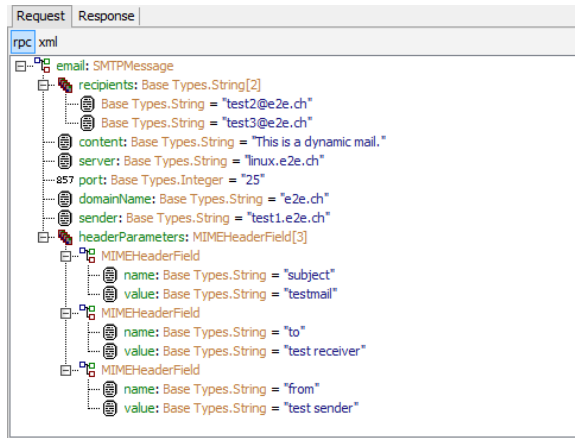
Name	Type	Direction	Description
domain Name	String	in	Supplies the sender domain the e-mail is sent from. Normally this is the FQDN (Fully Qualified Domain Name) of the system the Bridge is running on (e.g. e2e.ch).
server	String	in	Supplies the name of the smart host. If no server is specified, localhost will be used.
port	Integer	in	Supplies the SMTP port of the smart host. If no port number is specified, 25 will be used.
user	String	in	Supplies the user part of the credentials.
password	String	in	Supplies the password part of the credentials.
sender	String	in	<p>Supplies the e-mail address of the sender of the e-mail. It contains the plain address without comments or real name parts (e.g. order@e2e.ch). If you do not specify a sender, the e-mail cannot be delivered successfully.</p> <p>The sender defines the Return-Path value of the message header. Some smart hosts check, if the sender's address is legitimate before accepting the e-mail. If the from field is provided in the header parameters, its value will be displayed in the e-mail client instead of the sender.</p>
recipients	Array of String	in	Each array element identifies one recipient of the e-mail, and contains the plain address without comments or real name parts.

headerParameters	Array of MIMEHeaderField	in	<p>Supplies an array of custom SMTP header parameters with name - value pairs (to, cc, bcc, from, subject, reply-to, etc.).</p> <div> <p>You need to provide the e-mail addresses of all recipients in array recipients!</p> <p>If no recipients are defined, the service will return an error. Recipients, which are defined in the array attribute headerParameters are only used to display the to, cc, and bcc fields in the receiver's e-mail client. They will not be used for the list of real recipients, unless you define them explicitly in the tagged values of the SMTP adapter as shown for static e-mailing.</p> </div> <p>If you use the e-mail client function Reply All upon receiving the e-mail, the recipients of the new e-mail will be generated from the original SMTP header parameters, and the sender, unless the from field was defined in the message header.</p> <p>Examples:</p> <ul style="list-style-type: none"> • Name: to Value: Customers • Name: subject Value: Order E2E Bridge • Name: reply-to Value: info@e2e.ch
content	Blob	in	<p>The body of the e-mail may contain any kind of data and is wrapped in an object of base type Blob.</p>

Testing Dynamic E-mail

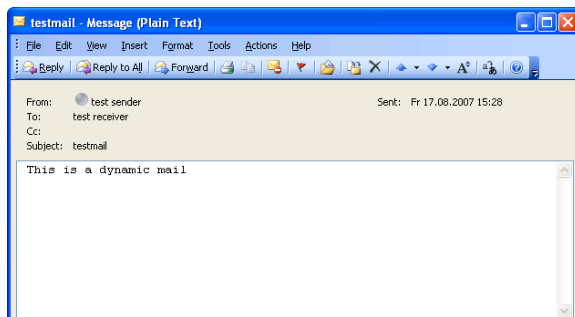
The following figure shows input parameters entered in the SOAP Test Tool for the dynamic e-mail example shown in figure *Dynamic E-mail Activity Diagram* above.

Figure: Input Parameters for a Dynamic E-mail



The picture below shows the received e-mail displayed in an e-mail client.

Figure: Example of a Received E-mail



The address "test receiver" in the to field of the e-mail client is not an e-mail address of one of the real recipients. The real recipients are **test2@e2e.ch** and **test3@e2e.ch** as defined in the **recipients** array of the input object sent to the service (see Figure: Input Parameters for a Dynamic E-mail). The same with the sender address "test sender", the real e-mail address is **test1@e2e.ch** and is set as return-path in the message header. The message header of this e-mail is shown below:

```
Microsoft Mail Internet Headers Version 2.0
Received: from smtp.rednet.ch ([172.31.2.131]) by SRHMCBEXV01.RedNet.hmc
with Microsoft SMTPSVC(6.0.3790.1830);
    Fri, 17 Aug 2007 15:23:23 +0200
Received: from mail17.bluewin.ch ([172.31.1.11]) by smtp.rednet.ch with
Microsoft SMTPSVC(6.0.3790.1830);
    Fri, 17 Aug 2007 15:23:23 +0200
Received: from e2e.ch (81.63.174.116) by mail17.bluewin.ch (Bluewin
7.3.121)
    id 46A5457300544277; Fri, 17 Aug 2007 13:27:34 +0000
Message-ID: <46A5457300544277@mail17.bluewin.ch> (added by
postmaster@bluewin.ch)
to: test receiver
subject: testmail
from: test sender
Date: Fri, 17 Aug 2007 13:27:34 UTC
Content-Type: text/plain; charset="utf-8"
Return-Path: test1@e2e.ch
X-OriginalArrivalTime: 17 Aug 2007 13:23:23.0080 (UTC) FILETIME=[C9254C80:
01C7E0D1]
```

