

MailEnable SMTP Plugin Developer Guide

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1 Purpose

This document describes how to use DLLs to extend the MailEnable SMTP service. Users can quite easily edit scripts for the SMTP service under the administration program. But while this gives flexibility and ease, it is not necessarily scalable, especially if you need to do something complex. An alternative to this is to create a DLL that the SMTP service can load at startup and call into whenever needed.

2 How it works

When the SMTP service starts, it will use the following Windows registry key to load the DLL extension:

On 32bit Windows:

```
HKEY_LOCAL_MACHINE\SOFTWARE\Mail Enable\Mail Enable\Connectors\SMTP
Plugin DLL = "yourextension.dll"
```

On 64bit Windows:

```
HKEY_LOCAL_MACHINE\SOFTWARE\Wow6432Node\Mail Enable\Mail
Enable\Connectors\SMTP
Plugin DLL = "yourextension.dll"
```

The SMTP service will call into the DLL up to three times when a message arrives. It will call into it when the MAIL FROM command is sent from the client, when the RCPT TO command is sent, and when the DATA command is sent. The call into the DLL happens after any other processing the service normally does for the command. The SMTP service will call the Execute function of the DLL at these times, passing in an XML formatted string, and accepting a response string which is displayed to the sender.

The Execute function is defined as:

```
long Execute(char *Configuration, char *Response);
```

The configuration parameter for the Execute function when the MAIL FROM command is executed is:

```
<scriptconfig>
  <smtpcommand>RCPTTO</smtpcommand>
  <ipaddress>x.x.x.x</ipaddress>
  <postoffice>postoffice</postoffice>
  <sender>[SMTP:test@example.com]</sender>
  <helo>example.com</helo>
  <senderauth>1</senderauth>
  <ndr>1</ndr>
  <response>200 Sample</response>
</scriptconfig>
```

The configuration parameter for the Execute function when the RCPT TO command is executed is:

```
<scriptconfig>
  <smtpcommand>RCPTTO</smtpcommand>
  <ipaddress>x.x.x.x</ipaddress>
  <postoffice>postoffice</postoffice>
```

```
<sender>[SMTP:test@example.com]</sender>
<helo>example.com</helo>
<senderauth>1</senderauth>
<ndr>1</ndr>
<response>250 OK</response>
<recipients>[SMTP:test@example.com];[SMTP:test2@example.com]</recipients>
<recipient>test2@example.com</recipient>
</scriptconfig>
```

The configuration parameter for the Execute function when the DATA command is executed is:

```
<scriptconfig>
  <smtpcommand>DATA</smtpcommand>
  <ipaddress>x.x.x.x</ipaddress>
  <postoffice>postoffice</postoffice>
  <sender>>[SMTP:test@example.com]</sender>
  <recipients>[SMTP:test@example.com];[SMTP:test2@example.com]</recipients>
  <helo>example.com</helo>
  <senderauth>1</senderauth>
  <ndr>1</ndr>
  <response>250 OK</response>
</scriptconfig>
```

The “response” value passed in is what the SMTP service will normally be sending the email client. When returning from your function, return 0 if you wish to fail the command, along with returning a 5xx error. If you are sending a valid OK SMTP response back, the function should return a 1.

3 32 bit and 64 bit requirements

MailEnable installs both 32 and 64bit services and files. When creating a plugin DLL, you will need to create both versions. When installing, the 32bit software is placed in the Mail Enable\bin directory and the 64bit software in the Mail Enable\bin64 directory.