

Interfacing with Microsoft Exchange 2003 using POP3

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Introduction

There are several ways to archive and/or manage e-mail with Semantica. This document describes the implementation of server based mail forwarding on a Microsoft Exchange 2003 server to a mailbox that is popped by the Semantica PopReader. Messages are processed by the Semantica MailArchiver, which places them into the Semantica Database.

This document assumes a working Microsoft Exchange server and access to the Server Management application with administrator privileges. The following steps need to be executed for the interface to work:

1. Install the software on the server
2. Adjust the scripts
3. Run the scripts
4. Stopping and starting the SMTP service
5. Configure the Semantica PopReader
6. Stopping and starting the Semantica PopReader

These steps are described in detail below. As a reference article 34021 from the Microsoft Knowledgebase was used (<http://support.microsoft.com/kb/324021>) and excerpts are taken from that. The screenshots are captured from a Microsoft Exchange 2003 SP1 installation on a Windows Small Business Server 2003 Server platform.

Note: E-mail traffic between Exchange users only is not automatically forwarded. Article 273233 from the Microsoft Knowledgebase (<http://support.microsoft.com/kb/273233/>) covers this issue.

Install the software on the server

The software consists of the following files:

Filename	Description
SMTPreg.vbs	A VBscript to register the Catchall event sink.
CatchAll.vbs	The Catchall.vbs script is used to create the Catchall account. Customize this file for your Exchange Server environment.
InstallCatchAll.cmd	A command file that calls the SMTPReg.vbs script and registers the Catchall event sink. Customize this file for your Exchange Server environment.
RemoveCatchAll.cmd	A command file to remove (uninstall) the Catchall event sink.
ListSink.cmd	A command file to list event sinks that are registered on the server.

These files are packed together in a ZIP archive. Unpack this archive and extract the files in a directory, e.g. C:\Program Files\Exchsrvr\CatchAll



Adjust the scripts

A little customization has to be performed to make the automatic forwarding work according to your specifications.

First edit the file `CatchAll.vbs`, using your favourite text editor.

```
<SCRIPT LANGUAGE="VBSCRIPT">
'
'
' For information about this namespace, see
'   http://msdn.microsoft.com/library/default.asp?url=/library/en-
'   us/cdosys/html/_cdosys_schema_smtpenvelope.asp
'
Const RECIP_LIST = "http://schemas.microsoft.com/cdo/smtpenvelope/recipientlist"
'
' For information about the CdoEventStatus enumeration, see
'   http://msdn.microsoft.com/library/default.asp?url=/library/en-
'   us/cdosys/html/_cdosys_cdoeventstatus_enum.asp
'
Const CDO_RUN_NEXT_SINK = 0
'
' OnArrival sink entry point
'
Sub ISMTPOnArrival_OnArrival(ByVal Msg, EventStatus)
  On Error Resume Next
  Dim objFields, strForwardToAddress

  ' Change the address below to the one desired.
  strForwardToAddress="john.doe@acme.local"

  Set objFields = Msg.EnvelopeFields
  objFields(RECIP_LIST).Value = FixupRecipList(objFields(RECIP_LIST).Value,
  strForwardToAddress)
  objFields.Update

  Msg.DataSource.Save ' Commit changes
  EventStatus = CDO_RUN_NEXT_SINK
End Sub
'
' Change the recipient list
'
Function FixupRecipList(strList, strCatchAllAddr)
  On Error Resume Next
  Dim strFixedList, strAddName

  strFixedList = strList
  strAddName = "SMTP:"+strCatchAllAddr+";"
  If ( strList is null or InStr(LCase(strFixedList),strCatchAllAddr) = 0 ) Then
    strFixedList = strFixedList + strAddName
  End If

  FixupRecipList = strFixedList
End Function
</SCRIPT>
```

Find the line that says

```
strForwardToAddress="john.doe@acme.local"
```

Change the e-mail address between the double quotes to something more useful and save the file.

If you extracted the files to a location other than C:\Program Files\Exchsrvr\CatchAll, edit the file InstallCatchAll.cmd and adjust the second command accordingly.

```
cscript smtpreg.vbs /add 1 onarrival SMTPScriptingCatchAll  
CDO.SS_SMTPOnArrivalSink "mail from="
```

```
cscript smtpreg.vbs /setprop 1 onarrival SMTPScriptingCatchAll Sink ScriptName  
"C:\Program Files\Exchsrvr\CatchAll\CatchAll.vbs"
```

```
cscript smtpreg.vbs /delprop 1 onarrival SMTPScriptingCatchAll Source Rule
```

Run the scripts

After the modifications are finished, the automatic forwarding can be activated.

Open a command window and change to the directory containing the scripts.

```
e.g. cd C:\Program Files\Exchsrvr\CatchAll
```

Execute **ListSink.cmd** to view which sinks are registered (optional)

Execute **InstallCatchAll.cmd** to register the Catchall sink. All you need to do now is restarting the SMTP service, which is described in the next chapter.

To deactivate to forwarding and unregister the Catchall sink, execute **RemoveCatchAll.cmd**.

Close the command window by typing exit.

Instead of using a command window to execute the scripts, you can also double-click on them. Main drawback of this method is that the command window closes automatically and you won't be able to see the output. This can be annoying in case of an error, so the use of a command window is recommended.

Stopping and starting the SMTP service

In order to activate the newly installed Catchall sink, the SMTP service has to be restarted.

On Microsoft Small Business Server there's an application called Server Management. Run this application and select successively

Advanced Management, *DOMAINNAME* (Exchange), Servers, *SERVERNAME*, Protocols, SMTP

Right-click on '*Default SMTP Virtual Server*' (or the one(s) installed on your system) and select Stop from the context menu.



After the server has stopped, repeat the previous action, now selecting Start.

From now on, every message coming in or going out the Exchange server is automatically copied over to the specified e-mail address. Next step is to configure the Semantica PopReader and fill in this e-mail address.

Configure Semantica PopReader

Semantica PopReader is designed to access POP3 mailboxes like the one created previously. In order to access this mailbox the following information is needed:

- User/Accountname (e.g. john.doe@acme.local)
- Password (e.g. S4MT6H!%YA^UzqGw&Y"vVHU+)
- Mailserver (e.g. pollux)
- POP3 Port (default 110)

This information is added to the Semantica PopReader configuration file POPREADER.XML located in the **conf** directory of the Semantica installation. A sample of a configuration file is listed below.

```
<?xml version="1.0" encoding="UTF-8"?>
<!--
    (c) Copyright 2008, SEMANTICA B.V. All rights reserved.
    This software is the proprietary information of SEMANTICA B.V.
    Settings for the Semantica mail archivers.
-->
<config>
  <!-- The interval at which to check the mail account -->
  <interval>10m</interval>
  <!-- The host of the POP server -->
  <host>pollux</host>
  <!-- The port of the POP server -->
  <port>110</port>
  <!-- The username of the mail account -->
  <user>john.doe@acme.local</user>
  <!-- The password of the mail account -->
  <password>S4MT6H!%YA^UzqGw&Y"vVHU+</password>
  <!-- Host where the mail archiver is running -->
  <mailarchiver-host>castor</mailarchiver-host>
  <!-- Port where the mail archiver is running -->
  <mailarchiver-port>8185</mailarchiver-port>
  <!-- Should the messages be deleted from the server -->
  <delete>true</delete>
  <!--
    The maximum number of messages to process at a time
    0 means all messages at once. -->
  <max>0</max>
  <!--
    Do not write messages to the mailarchiver but
    write them to a directory.
  <dir></dir>
  -->
  <!--
    Rules can be defined here.

    The email will be send to the email archiver config for
    the first matching rule. When no rules match the email
    will not be archived.
  -->
  <rules>
    <rule config="MAIL">
      <equals field="X-Semantica" value=""/>
    </rule>
  </rules>
</config>
```

Starting and stopping the Semantica PopReader

The Semantica PopReader can be started in several ways. The process will run in the background as daemon (Unix)/service (Windows) or in the foreground as a console operation.

Note: all scripts are located in the **bin** directory of the Semantica Installation. The Windows scripts are used as examples. Substitute `.bat` for `.sh` on Unix

```
C:\Program Files\Semantica\bin> Semantica.bat start popreader
```

or

```
C:\Program Files\Semantica\bin> Semantica.bat stop popreader
```

to respectively start and stop the Semantica PopReader process.

Starting the Semantica PopReader Process in the foreground type

```
C:\Program Files\Semantica\bin> Semantica.bat console popreader
```

and output is shown like below.

```

C:\Program Files\DocsDB\bin>semantica.bat console popreader
wrapper | --> Wrapper Started as Console
wrapper | Launching a JUM...
jum 1   | Wrapper (Version 3.2.3) http://wrapper.tanukisoftware.org
jum 1   | Copyright 1999-2006 Tanuki Software, Inc. All Rights Reserved.
jum 1   | INFO [2009-08-13 15:26:56] PopReader - Connection to the POP server
"dms@semantica.nl@pluto:110"...
jum 1   | INFO [2009-08-13 15:26:56] PopReader - Reading inbox...
jum 1   | INFO [2009-08-13 15:26:56] PopReader - Found 0 message(s) in inbox..
.
jum 1   | INFO [2009-08-13 15:26:56] PopReader - Disconnecting from POP server
...
jum 1   | INFO [2009-08-13 15:26:56] PopReader - 0 message(s) processed succes
sfully, 0 message(s) processed unsuccessfully.

```

Press Ctrl-C to stop the Semantica PopReader and corresponding batchjob.

On Windows these processes are installed as services. You can use the management console application to control the Semantica PopReader process.

