

# **OpenMailScan**

**Domino enhancement to scanning  
mail attachments for viruses**

**An official  
OpenNTF.ORG  
project**

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## MailScan - what is it ?

First of all: MailScan ist NOT an Anti-Virus-Software !!

MailScan is just an interface, connecting your Domino Server and the Anti-Virus programm of your choice

## Requirements

- Domino 6.0, 6.5 or 7 (Domino 5.x should work too)
- Windows 2000 or 2003 or Linux (Kernel 2.4.20 or higher)
- 2 MB space on harddisk
- A virus scanner with command-line interface

## Installation

### ***Windows-based Domino servers***

- Extract the MailScan archive to a temporary directory
- copy `VIRCONF.NTF` to your Domino Data directory
- copy the files `nMailScan.dll` and `nMailScan.exe` from `W32` directory to your Domino server's programm directory. You'll find those files in the extracted archive
- Edit your server's `NOTES.INI`:

```
ServerTasks=...,mailscan
```

```
EXTMGR_ADDINS=nmailscan
```

```
MailScanConfigDB=YOURSERVENAME/YourOrganisation!!virconf.nsf
```

```
MailScan_DebugLevel=3
```

```
MailScan_ExtDebugLevel=3
```

- Create a New Database from `VIRCONF.NTF` ("Schab Virensscanner Konfiguration"). The Database file name should match the one you specified in the `NOTES.INI` parameter

```
MailScanConfigDB
```

- Modify ACL of the database as it fits your Domino environment

### ***Linux-based Domino servers***

- Extract the MailScan archive to a temporary directory
- copy `VIRCONF.NTF` to your Domino Data directory
- copy `libmailscan.so` and `mailscan` from `LINUX` directory to your Domino server's programm directory. You'll find those files in the extracted archive

Please be sure the binaries belong to the correct user and group and they are executable

For example:

become root!

```
su -
```

```
chown root:daemon /opt/lotus/notes/latest/linux/*mailscan*
```

```
chmod ugo+x /opt/lotus/notes/latest/linux/*mailscan*
```

```
chmod ugo+r /opt/lotus/notes/latest/linux/*mailscan*
```

```
chmod ugo-w /opt/lotus/notes/latest/linux/*mailscan*
```

- Edit your server's NOTES.INI:

```
ServerTasks=...,mailscan
```

```
EXTMGR_ADDINS=libmailscan.so
```

```
MailScanConfigDB=YOURSERVENAME/YourOrganisation!!virconf.nsf
```

```
MailScan_DebugLevel=3
```

```
MailScan_ExtDebugLevel=3
```

- Create a New Database from `VIRCONF.NTF` ("Schab Virens scanner Konfiguration"). The

Database file name should match the one you specified in the NOTES.INI parameter

MailScanConfigDB (case sensitive)

- Modify ACL of the database as it fits your Domino environment

## Configuration

Open the Database and create a new configuration document if you don't have one from a previous installation

These are the parameters:

Field Description	
<b>Configuration</b>	
Name of virusscanner	Descriptive Name of your AV-programm
calling commandline for virusscanner (full qualified path)	Full qualified path to your AV-programm
Scan Directory / File	Specifies, if your AV-programm scans a single files or the whole directory
calling parameters for viruscanner (filename will be attached)	Specifies the favoured parameters which are used to scan the mail attachment. There's no need to include a wildcard (e.g. %s)
working directory (below the Notes data directory)	Specifies the working directory, where attachments are temporary stored for scanning. The working directory must be a subdirectory of your Domino data directory
From-address for task sending messages (default: MailScan-System)	If the server tasks sends a notification it uses this address as from-address
Subject for Mails send to recipient if a virus is found	If the server tasks notifies recipient it uses this subject
Text for Mails send to recipient if a virus is found	If the server tasks notifies recipient it uses this Text
<b>Encrypted Mail</b>	
Text for "Encrypted mail not scanned"	Obsolete

<b>Returncodes and associated text (9 different return codes possible to configure)</b>	
„No virus found“ „Not set“	A descriptive name for the return code you want to configure
Return Code	Specifies the return code of your AV-programm you want to configure (e.G: 0)
Text	Specifies the text which is attached to the subject line, when this return code occurs during virus scanning
Text before subject ?	Specifies where the text (former parameter) is inserted in mail-subject
Body Text rc0 Body Text rc1 Body Text rc2 ...	Specifies the text which is inserted in the body field, when this return code occurs during virus scanning
Delete Attachment	Specifies what happens to the scanned attachment when this return code occurs Possible options: Yes – mailto Yes – rename in filesystem No
Replace attachment text	Specifies the text which ist inserted when attachment option “yes – rename in filesystem” is active in parameter “Delete Attachment”
Mail attachment to	Specifies to who the attachment is sent, when attachment option “yes – mail to” is active in parameter “Delete Attachment”
Send mail to originator	Notifies mail-originator about a found virus
<b>Other Return Code</b>	Here you can specify what happens when a not configured return code occurs. See above options for details

## Environment-Settings

<b>Normal service</b>	
MailScan_logToFile	Changes destination of logging 0 only logging to domino-console 1 only logging to file 2 logging to file and domino-console File is always appended. Beware of size!
MailScan_LogFileName (optional)	Filename for addin-log. Defaults to DOMINODATADIR/mailescan.log
MailScan_ExtLogFileName (optional)	Filename for extensionmanagerlog. Defaults to DOMINODATADIR/mailescan.ext.log
MailScan_Encrypted (optional)	OpenMailScan don't scans encrypted mail. This text will be added to the subject of an encrypted mail.
MailScan_AddinError (optional)	If extension manager is running but addin-task is not, this message will be added to the subject of all mails
MailScan_ConvertToCDOff (optional)	OpenMailScan normally handles mails in the original format. But if OpenMailScan recognize a mail containing attachments that are not accessible via MIME, then OpenMailScan tries to convert this mails to Notes-CD-format. With this option you can turn this feature off (set it to 1)
MailScan_DontUseIndependentFileNames (optional)	Normally OpenmailScan replaces the attachment-names with numbers. With this option you can turn this feature off (set it to 1). OpenMailScan then use the original name of the attachment.
MailScan_LogtoLognsf (optional)	If set to 1 writes all console-output from virusscanner to Mail-Event-Log or if set to 2 write only output from virusscanner to MailEvent-Log, if virus found. If set to 0 or not set, don't fetch console output
MailScan_fetchVirusName (optional)	OpenMailScan retrieves the virusname out of the console-log of the virusscanner and add it the subject of send mails. Former parameter has to be set to 1 or 2. With this option you can turn this feature off (set it to 1)

<b>Searching for errors/Tracing</b>	
MailScan_DebugLevel (optional)	0 minimal to 3 highest
MailScan_ExtDebugLevel (optional)	0 minimal to 3 highest
MailScan_CrashDebug	Waits n seconds after writing a log line Be carefull!
MailScan_DebugPrintoutMIMEMail	Print out content of MIME-Mails to log

## Known Issues

Multiple notices, if virus-notification is send and multiple recipients exists

## Related Links

Check there websites for helpful instructions

<b>URL Link</b>	
-----------------	--

URL Link	
<a href="http://www.openntf.org/Projects/pmt.nsf/ProjectHome?ReadForm&amp;Query=MailScan">http://www.openntf.org/Projects/pmt.nsf/ProjectHome?ReadForm&amp;Query=MailScan</a>	OpenMailScan Project Homepage
<a href="http://www.eicar.org">http://www.eicar.org</a>	EICAR Testvirus
<a href="http://www.pandasoftware.com">http://www.pandasoftware.com</a>	AV Software
<a href="http://www.ravantivirus.com">http://www.ravantivirus.com</a>	AV Software
<a href="http://www.symantec.com">http://www.symantec.com</a>	MailScan Verified AV Software
<a href="http://www.f-prot.com">http://www.f-prot.com</a>	MailScan Verified AV Software
<a href="http://www.drweb-online.com">http://www.drweb-online.com</a>	AV Software
<a href="http://www.mcafee.com">http://www.mcafee.com</a>	AV Software
<a href="http://www.trendmicro.com">http://www.trendmicro.com</a>	AV Software

## History

Check OpenMailScan Project Homepage for details (see “Related Links”)

## New Releases

Check OpenMailScan Project Homepage for details (see “Related Links”)

## License

See Appendix.

## Contact

Check OpenMailScan Project Homepage for details (see “Related Links”)

# Appendix

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