Exchange 2007 – Message Size Limits

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Abstract

In this article I will show you how to set size limits for messages in Exchange Server 2007.

Let's begin

In my previous <u>article</u> I showed you how set message size limits in Exchange Server 2003. Exchange Server 2007 is somewhat more different and I will try to show you where you can limit the message size.

It is possible to set size limits for messages in your Exchange organization on several objects in the Exchange Management Console or with the Exchange Management Shell. This article will show you where you can set these limits and how they interact.

Scope of Limits

It is possible to apply message size filters on different areas in Exchange Server 2007. It is possible to set message size limits at the Organization level. The limits that you apply here apply to all Exchange Server 2007 in your Exchange organization and you will need appropriate permissions to set limits at the organization level. If you deployed more than one Hub Transport Server (HTS) than all these limits apply to all Hub Transport Servers. If you are using the Exchange Edge Transport Server (ETS), message size limits apply to the specific Exchange Edge Server.

Global limits are used when you have a mixed Exchange Server 2003 / 2007 environment. Global settings apply to all Exchange Servers 2003 and 2007 because these Message size limits are stored in Active Directory. These global settings are equivalent to the global settings section in the Exchange Server 2003 System Manager. When the settings on the Organizational level conflicts with the Global limits, the lowest setting takes precedence.

It is also possible to define message size limits on Exchange Server 2007 Connectors. Exchange Server 2007 uses send connectors; receive connectors and foreign connectors to give interoperability with none "Standard" or Legacy messaging systems. Message size limits for connectors are bound to the specific Exchange Edge Transport or Hub Transport Server.

Another way to apply message size limits is to set specific limits at the Server level. Limits that you define here are applied to the specific Exchange Hub Transport Server or Edge Transport Server because message limits are not stored in Active Directory.

The last place where it is possible to apply message size limits are objects like Mailboxes, Mail Users, Mail contacts, Public folders and distribution groups.

Global Limits

For the most configuration settings we will use the Exchange Management Shell (EMS). This is the prefered method for setting message size limits.

If you want to see the global settings for the Exchange Transport configuration, use the Eschange Management Shell CMDLet *GET-TRANSPORTCONFIG*.

```
Machine: ex2007-all | Scope: external.dom
                                                                                                                                    [P8] C:\Documents and Settings\Administrator\get-transportconfig
ClearCategories
                                                         True
{5.4.8, 5.4.6, 5.4.4, 5.2.4, 5.2.0, 5.1.4}
GlearGategories
GenerateCopyOf DSNFor
InternalSMTPServers
JournalingReportNdrTo
MaxDumpsterSizePerStorageGroup
MaxDumpsterTime
MaxReceiveSize
                                                         18MB
7.00:00:00
                                                        unlimited
unlimited
MaxRecipientEnvelopeLimit
MaxSendSize
                                                        unlimited
maxsendsize
TLSReceiveDomainSecureList
TLSSendDomainSecureList
VerifySecureSubmitEnabled
VoicemailJournalingEnabled
Xexch5ØEnabled
                                                        {domaene.tld}
                                                        False
                                                         True
                                                         True
[PS] C:\Documents and Settings\Administrator>
```

Figure 1: GET-TRANSPORTCONFIG

If you want to change message size settings you must use the CMDLet *SET-TRANSPORTCONFIG*. To change the maximum message size for Receive messages, use the following CMDLet:

Figure 2: SET-TRANSPORTCONFIG

If you want to set a maximum message size for messages send to users outside the Exchange organization, use the following CMDLet:

Set-Transportconfig -maxsendsize

Connector Limits

As mentioned above, it is also possible to set message size limits for Exchange Server 2007 Send Connectors, receive Connectors and Foreign Connectors.

If you want to see the number of Exchange Receive connectors, use the following CMDLet:

Get-receiveconnector | List

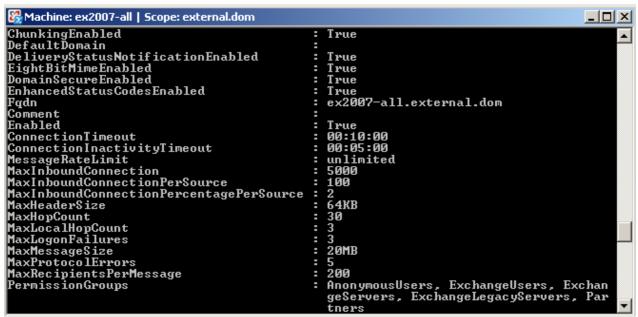


Figure 3: GET-RECEIVECONNECTOR

If you want to see the configuration of Exchange Send connectors, use the following CMDLet:

Get-sendconnector | List

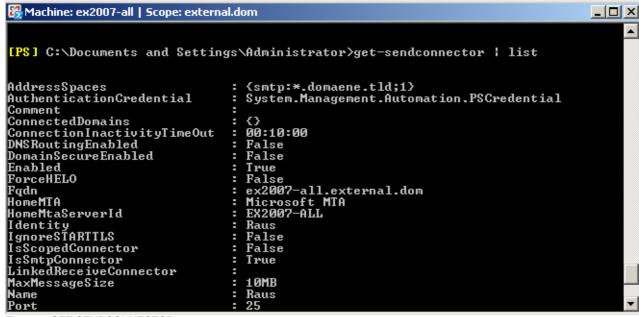


Figure 4: GET-SENDCONNECTOR

If you want to change the message size limit for a connector, use the following CMDLet:

SET-SENDCONNECTOR –IDENTITY RAUS –MaxMessageSize MessageSizeYouWant

Please note:

You must use the *IDENTITY* parameter only if there are more than one send connectors on the server.

Server Limits

It is possible to set many message size limits directly on the Server.

The CMDLet: *GET-TRANSPORTSERVER | LIST* displays all settings on the specific Transport Server.

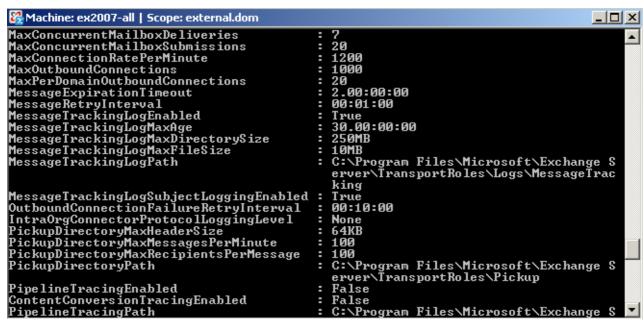


Figure 5: GET-TRANSPORTSERVER

If you want to change some settings for the Transport Server you must use the CMDLet SET-TRANSPORTSERVER and the required switches and parameters.

User limits

Exchange Server 2007 can apply a lot of message size limits on the following objects:

- Mailbox-User
- Mail-Contact
- Mail-User
- PublicFolder
- Distribution Group

Mailbox-User

It is possible to set message size limits on every Exchange Mailbox. The following CMDLet *GET-Mailbox* shows all mailboxes from the specific Mailbox server. The CMDLet *GET-Mailbox* –identity Janas | List show the mailbox details and the MaxSendSize and the MaxReceiveSize.

```
Machine: ex2007-all | Scope: external.dom
                                                                                                             _ | D | X |
CustomAttribute9
                                                       Mirco janas
{$MTP:janas@external.dom}
{}
False
DisplayName
EmailAddresses
GrantSendOnBehalfTo
HiddenFromAddressListsEnabled
                                                       /o=ExternalExchangeOrg/ou=Exchange Admin istrative Group (FYDIBOHF23SPDLT)/cn=Rec
LegacyExchangeDN
                                                        ipients/cn=janas
                                                       MaxSendSize
MaxReceiveSize
PoliciesIncluded
PoliciesExcluded
EmailAddressPolicyEnabled
                                                       True
PrimarySmtpAddress
RecipientType
RecipientTypeDetails
                                                       janas@external.dom
UserMailbox
                                                       UserMailbox
                                                       \langle \rangle
RejectMessagesFrom
RejectMessagesFromDLMembers
RequireSenderAuthenticationEnabled
SimpleDisplayName
                                                       False
UMDtmfMap
                                                       janas@external.dom
True
WindowsEmailAddress
IsValid
OriginatingServer
                                                        ex2007-all.external.dom
```

Figure 6: GET-MAILBOX

If you want to change settings for the mailbox use the following CMDLet:

SET-Mailbox –Identity Janas –MaxSendSize 1038400

With the help of piping it is possible to change specific settings for all or a selected number of mailboxes.

Mail Contact

You can use the same procedure to display the settings for mail contacts or to change some settings related to message sizes.

```
Machine: ex2007-all | Scope: external.dom
                                                                                                                      CustomAttribute6
CustomAttribute7
CustomAttribute8
CustomAttribute9
DisplayName
EmailAddresses
                                                         Anton Simin (smtp:SiminAnton@external.dom, SMTP:simin@
                                                         telta.de>
{}
False
GrantSendOnBehalfTo
HiddenFromAddressListsEnabled
                                                         /o=ExternalExchangeOrg/ou=Exchange Adminis
trative Group (FYDIBOHF23SPDLT)/cn=Recipie
nts/cn=SiminAnton
Legac yExchangeDN
                                                         unlimited
unlimited
(<665823F9-B21A-48BF-9060-CCC7F12A0915>,<2
6491CFC-9E50-4857-861B-0CB8DF22B5D7>>
MaxSendSize
MaxReceiveSize
PoliciesIncluded
                                                         {}
True
Policies Excluded
EmailAddressPolicyEnabled
PrimarySmtpAddress
RecipientType
RecipientTypeDetails
                                                         simin@telta.de
                                                         MailContact
                                                         MailContact
RejectMessagesFrom
RejectMessagesFromDLMembers
RequireSenderAuthenticationEnabled :
                                                         False
SimpleDisplayName
```

Figure 7: GET-MAILCONTACT

If you want to change settings use the CMDLet:

Set-Mailcontact – Identity SiminAnton – MaxSendSize 10240000

Mail-PublicFolder

If you want to change the message size limits for public folders, you must use the Exchange System Manager from Exchange Server 2003 or the Exchange Management Shell (EMS). With Exchange Server 2007 SP1 it will be possible to manage public folders with the Exchange Management console. As of writing this tutorial, Exchange Server 2007 SP1 is still in beta, so we use the EMS and the following CMDLet:

Get-MailPublicFolder –Identity MSExchange | List

This CMDLet displays all the settings for the public folder called *MSExchange*. If you want to change settings use the CMDLet? – yes – very good *Set-MailPublicFolder* – *Identity MSExchange*

Public Folder size limits with Exchange Server 2007 SP1 (Beta)

Here is a preview on the upcoming Exchange Server 2007 SP1. With the help of SP1 you have a public folder console in the Exchange toolbox which is dedicated for public folder management.

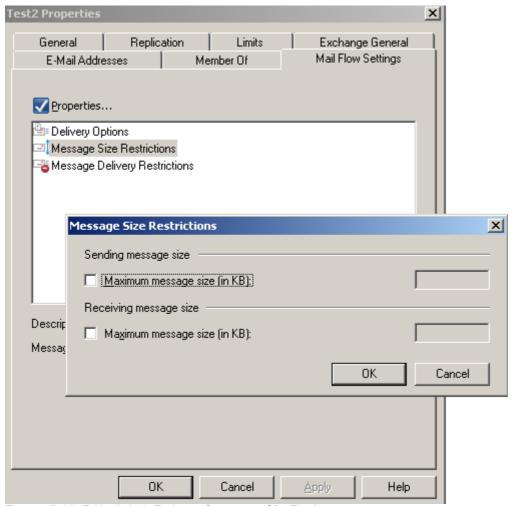


Figure 8: Public Folder limits in Exchange Server 2007 SP1 (Beta)

Distribution group

It is possible to set message size limits on distribution groups with the EMC and EMS. The following picture shows the EMC to set message size limits.

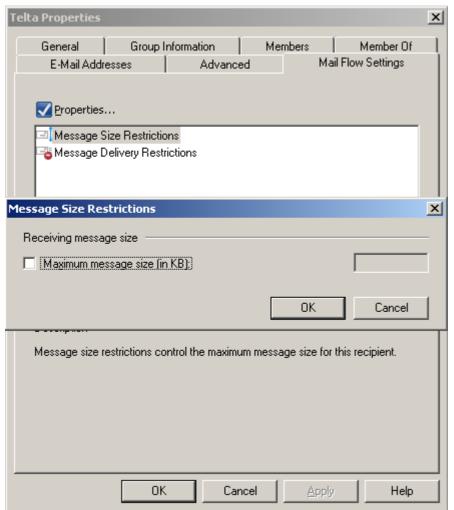


Figure 9: Message size limits for a Distribution group

You can use the GUI (EMC) or the EMS to set message size limits for distribution groups. If you want to use the EMS, use the following CMDLet:

Get-DistributionGroup –Identity Telta | List – Displays the settings for the Distribution group named Telta.

```
Kachine: ex2007-all | Scope: external.dom
                                                                                                                                  그미의
HiddenFromAddressListsEnabled
                                                               False
                                                               /o=ExternalExchangeOrg/ou=Exchange Adminis
trative Group (FYDIBOHF23SPDLT)/cn=Recipie
Legac yExchange DN
                                                              trative Group (FYDIBOHF23SPDLT)/cn=Recipie nts/cn=Telta unlimited unlimited (665823F9-B21A-48BF-9060-CCC7F12A0915),(26491CFC-9E50-4857-861B-0CB8DF22B5D7))
MaxSendSize
MaxReceiveSize
PoliciesIncluded
PoliciesExcluded
EmailAddressPolicyEnabled
                                                               True
Telta@external.dom
MailUniversalDistributionGroup
PrimarySmtpAddress
RecipientType
RecipientTypeDetails
                                                               MailUniversalDistributionGroup
                                                               {}
{}
True
RejectMessagesFrom
RejectMessagesFromDLMembers
RequireSenderAuthenticationEnabled
SimpleDisplayName
                                                               UMDtmfMap
 WindowsEmailAddress
IsValid
                                                               ex2007-all.external.dom
0.1 (8.0.535.0)
OriginatingServer
ExchangeVersion
                                                               Telta
CN=Telta, CN=Users, DC=external, DC=dom
external.dom/Users/Telta
Name
DistinguishedName
Identity
```

Figure 10: Display message size limits for a distribution group

If you want to change some settings use the CMDLet:

Set-DistributionGroup –Identity Telta –MaxReceiveSize 10240000

Different message size limits handling between Exchange Server 2003 and 2007

Exchange Server 2007 handles message size limits to recipients of distribution list in a different way. While members of a distribution list in Exchange Server 2003 treats each member of this distribution group as an individual member so it was possible that some members didn't receive any message due to message size limits. To avoid this possible problem, Exchange Server 2007 handles all members of a distribution list as one member, so message size restrictions can be better contolled for members of distribution lists.

Conclusion

It is possible to set size limits on several objects in Exchange Server 2007. You should know where to set this limits and how they interact. This article doesn't explained all the locations where it is possible to set message size limits but this should be enough for the most purposes.

Related Links

Managing Message Size Limits in Exchange Server 2007
http://technet.microsoft.com/en-us/library/bb124345.aspx
Message Size Limits in Exchange Server 2003
http://www.msexchange.org/tutorials/Set-Size-Limits-Messages.html