

Configuring your new Exchange 2000 server isn't hard if you just do it step by step as shown in this configuration sample. In this guide we will step through a sample installation of Exchange 2000 for a company we will call "Servolutions". Servolutions consequently owns the internet domain name "servolutions.com".

Actually it only takes these four steps:

- 1. Adding your internet domain name to the recipient policies
- 2. Configuring the SMTP server for inbound email
- 3. Adding a SMTP Connector for outbound emails
- 4. Configuring the email addresses of your users

And this is how to configure the Exchange Server to accept email for servolutions.com and work with POPcon:

• First install the software from CD. You may have to go back to the "Add/remove Software" utility in the control panel to add NNTP support if you did not do so during initial setup of your windows installation.

#### 1. Adding your internet domain name to the recipient policies

• Open the Exchange System-Manager. It should look like this:



One of the problems most often encountered when configuring an Exchange 2000 Server system is the fact that often the internet domain nane you want to receive email for ("yourcompany.com") does not match your standard active directory domain name (i.e. "servername.internetdomainname.com"). The Exchange 2000 Server component handling incomming emails - the SMTP server - does not accept emails for other domains than your standard active directory domain, even if you entered the correct email addresses ("user@yourinternetdomain.com") in the active directory.

To make Exchange accept email for additional domains like your internet domain you need to add the domain names to the default recipient policy like this:

• On the main tree panel of the exchange system manager expand the tree "Recipients" and then click on "Recipient Policies". The policies will be shown on the right panel. Normally only the "Default Policy" will be there:



• Open the properties of the "Default Policy" by double-clicking it:

Default Policy Properties	? ×
General E-Mail Addresses Details	
Default Policy	
Filter rules:	
(mailnickname=*)	
Christensen Software Sample Screen	▼
Modify Remove	
OK Cancel Apply	Help

In the Default Policy Properties please choose the tab "E-Mail Addresses". There you will find a list
of domains supported by your exchange server. Usually only your internal active directory server
domain will be listed here:

ault Policy Prop eneral E-Mail Ad	erties dresses Details			2
Generation rules: Type SMTP X400	Address @CS.christ c=us;a= ;p	ensen-software =Christensen S	e.com oft;o=Exchang	e;
•				•
New	Edit	Remove	Set as Primary	

Like you can see, after installing our Exchange Server from scratch only our AD domain "cs.christensen-software.com" was listed as accepted SMTP address. But emails from the internet will be comming in addressed to "@servolutions.com" and not cs.christensen-software.com!

• Choose "New..." here to add another accepted inbound domain. Since emails on the internet are sent via the SMTP protocol we want to add an "SMTP Address":

New E-mail Addre	55		? X
E-mail address type	•		
Custom Address X.400 Address Microsoft Mail Add	Iress		<b>A</b>
SMTP Address cc:Mail Address Lotus Notes Addre Novell GroupWise	ess Address		
			-
	OK	Cancel	Help

• Now enter the domain name you want to receive email for. Please add a leading "@" to the domain name. This is what we entered to support our new company "Servolutions":

SMTP Address Properties	? ×		
General			
SMTP Address			
Тур <u>е</u> :			
SMTP			
A <u>d</u> dress:			
@servolutions.com			
This Exchange Organization is responsible for all mai address. Christopson Software Sample Science Software Sample Science Software Sample Science S	I delivery to this		
Christensen Software Sample Screen			
Cancel Apply	Help		

• This is how the Default Policy Properties look like after entering the additional SMTP domain:

Def	ault Po	licy Pro	perties				? ×
G	ieneral	E-Mail A	ddresses	Details			
	Generat	ion rules:					
	Туре		Add	ress			
	<b>⊠</b> SM	ТР	@0	S.christ	ensen-sol	ftware.com	
	<mark>⊘</mark> smt	p no	@\$6	ervolutions	.com	A 41 F	
		UU	C=U	ıs;a= ;p=	Christen	sen Soft;o=E	xchange;
	•						<u></u>
	Nev	N	Edit		Remove	Set	as Primary
			ОК	Ca	ncel	Apply	Help

• When you OK the above dialog, Exchange will ask you with the next dialog box if you want to add the new address to all new users. Usually you do want exactly that to save some typing later.

Exchange	e System Manager 🔀
⚠	The e-mail Addresses of type(s) [smtp] have been modified. Do you want to update all corresponding recipient e-mail addresses to match these new address(es)?
	Yes No

Please note: You may need to restart your server to activate the new domain!

#### 2. Configuring the SMTP server for inbound email

Next we will configure the SMTP-Server. This is the part of Exchange that accepts incomming emails from POPcon. No special settings are needed to work with POPcon but these are the standard settings in any case:

• You will find the settings for the SMTP server under Servers/Protocols/SMTP/Default SMTP Virtual Server:

🔓 Exchange System Manager	
Console Window Help <b>Christens</b>	en Software Sample Screen 💶 🗵 🗵
🗍 Action View 🗍 🗢 🔿 💼 💽	¶ 🖗 😼   ▶ ■ II
Tree	Default SMTP Virtual Server
Christensen Software (Exchange) Global Settings Christensen Software (Exchange) Conservers POPCONSRV POPC	Name Current Sessions Queues Queues Start Stop Pause View New Window from Here Rename Refresh Export List Properties Help
Opens property sheet for the current selection	h i literatura di seconda di s

• Open the properties by right-clicking on the Default SMTP Virtual Server and choosing "Properties":



• On the tab "Access" you can find some configuration settings that might interfere with POPcon.

Default SMTP Virtual Server Properties	? ×		
General Access Messages Delivery			
<ul> <li>Access control</li> <li>Enable anonymous access and edit the authentication methods for this resource.</li> </ul>	Authentication		
- Secure communication			
View or set the secure communications method used when this virtual server is	Certificate		
accessed.	Communication		
Connection control			
Grant or deny access to this resouce using IP addresses or Internet domain names.	Connection		
└── Relay restrictions			
Grant or deny permissions to relay e-mail through this SMTP virtual server.	Relay		
Christensen Software Sample Screen			
OK Cancel	Apply Help		

• POPcon only works with a standard SMTP connection WITHOUT authentication, so allow "Anonymous access" in the "Authentication" dialog:

Authentication
Select acceptable authentication methods for this resouce.
Anonymous access
No user name or password required.
🔽 Basic authentication
The password will be sent over the network in clear text using standard commands.
Requires TLS encryption
Default domain:
Integrated Windows Authentication
The client and server negotiate the Windows Security Support Provider Interface.
Christensen Software Sample Screen
OK Cancel Help

 Choose "Connection" to grant or refuse the right to connect to the SMTP server to individual or multiple IP Address Ranges. Please ensure the system POPcon runs on does have the right to connect granted. With this setting ALL system have access to your SMTP server:

Connection		×
Select which co	imputers may access this virtual server:	
Only the	list below	
<ul> <li>All except</li> </ul>	ot the list below	
Computers:		
Access	IP Address (Mask) / Domain Name	I
Add	Remove	
	Christensen Software Sample Screen	
	OK Cancel Help	J

Under "Relay..." you can assign the right to relay through your SMTP-Server to some systems. This
might be needed in some configuration and to be sure you should grant the system POPcon runs on
relay rights. All other systems will need to authenticate before accessing the SMTP server to prevent
unauthorized users using your system to relay spam:

Computer	×			
Add one of the following to the list.				
<ul> <li>Single computer</li> </ul>				
IP address:				
127.0.0.1	DNS Lookup			
C Group of computers				
Subnet address:	Subnet mask:			
🔿 Domain				
Name:				
Christensen S	Software Sample Screen			
C OK	Cancel Help			
Relay Restrictions	×			
Select which computer may relay throug	h this virtual server:			
Only the list below				
C All except the list below				
Computers:				
Access IP Address (M	lask) / Domain Name			
Taranted 127.0.0.1				
Christensen Software Sample Screen				
Add Remove				
Allow all computers which successfully authenticate to relay, regardless of the list above.				
OK	Cancel Help			

- Under the "Messages" tab you can restrict message size and number of messages accepted for each connection. Please make sure these settings are liberal enough to allow POPcon to transmit large messages to your server.
- Also, on this tab you can choose an internal additional recipient for copies of the non-delivery reports. These NDRs will be sent back to senders of mails addressed to recipients unknown in your Exchange Server and they include a copy of the original message sent. You can use these postmaster copies of the NDRs to manually forward emails sent to mistyped recipients to the correct users.

Default SMTP Virtual Server Properties	? ×			
General Access Messages Delivery				
Specify the following messaging information.				
Limit message size to (KB):	4096			
Limit <u>s</u> ession size to (KB):	10240			
Limit number of messages per connection to:	20			
Limit number of recipients per message to:	64000			
Send copy of Non- <u>D</u> elivery Report to:				
postmaster@servolutions.com				
<u>B</u> admail directory:				
C:\Program Files\Exchsrvr\Mailroot\vsi 1\BadMail	Bro <u>w</u> se			
Forward all mail with unresolved recipients to host:				
Christensen Software Sample Screen				
OK Cancel Apply	Help			

• Under tab "Delivery" some more configuration settings for outgoing emails can be found:

Default SMTP Virtual Server Properties			? ×	
General Access Messages Delivery				
Cutbound		· · · · · · · · · · · · · · · · · · ·		
First retry interval (minutes):	10			
Second retry interval (minutes):	10			
Third retry interval (minutes):	10			
Subsequent retry interval (minutes):	15			
Delay notification:	12	Hours	•	
Expiration timeout:	2	Days	•	
Christensen So	ftware Sa	mple S	creen	
Delay notification:	12	Hours	•	
Expiration timeout:	2	Days	•	
Outbound Security Outbound connections Advanced				
OK Cancel	Apply		Help	

#### 3. Adding a SMTP Connector for outbound emails

Now we need to add an SMTP-Connector (vs. SMTP Server) to handle outgoing email to the Internet.

• Right-click "Connectors" in the Exchange System Manager and choose "New", "SMTP-Connector" to start adding the new connector:



• On the "General" tab you can now choose wether Exchange will send outgoing emails directly to the recipients system ("Use DNS...") or if all emails should be relayes through a SMTP relay server ("smart host").

The first option, DNS, is more direct but can sometimes cause problems when you use a dialup internet connection because some recipient systems will not accept emails that are coming from you ISP's dialup IP range while pretending to come from your real internet domain. Sending via your ISP's smart host / smtp relay server is the better option in this case. We chose "DNS" here, but if you do this as well and start receiving funny non-delivery reports you know why.

operties		<u>? ×</u>
Address Space Connected Routing Content Restrictions Delivery Opt	Groups   Delive ons   Advanced	ry Restrictions
Genera Mame: SMTP Outb	l ound	
Use DNS to route to each address s	ace on this connect	or
C Forward all mail through this connect	or to the following sm	art hosts
] Local bridgebeads:		
Server V	tual Server	
Christensen Software	Sample Scree	'n
Add Remove		
Do not allow public folder referrals		

• Also, on the General tab you need to add the "local bridgehead" server:

A	ld Bridgehead	
	SMTP virtual server instances:	
	Server	Virtual Server
	POPCONSRV	Default SMTP Virtual Server
	Christensen Softwa	are Sample Screen
	OK	Cancel Help

Exchange will already populate this dialog with the correct settings.

• This is the resulting General tab of the outbound SMTP-Connector after adding the local bridgehead:

Properties ? X
Address Space Connected Routing Groups Delivery Restrictions Content Restrictions Delivery Options Advanced Details
General Name: SMTP Outbound
<ul> <li>Use DNS to route to each address space on this connector</li> <li>Forward all mail through this connector to the following smart hosts</li> </ul>
Local bridgeheads:           Server         Virtual Server
POPCONSRV Default SMTP Virtual Server
Christensen Software Sample Screen
Add Remove Do not allow public folder referrals
OK Cancel Apply Help

• On the tab "Address Space" we need to add a wildcard address space for SMTP:



• We select "Add..." and then "SMTP":

Add Address Space	? ×
Select an address type:	
SMTP X400 MS CCMAIL NOTES GWISE Other	4
Christensen Software Sample Screen	<b>•</b>
OK Cancel Help	

• We want to allow emails to any domain, so we use the wildcard "\*" here:

Internet Address Space Properties	? ×
General	
<b>ЕД</b> SMTP	
E-mail domain:	
Cost: 1	
Christensen Software Sample Scree	1
OK Cancel Apply	Help

Side note about the "Cost" entry: If you want to send emails to some domains via a different route you can create multiple SMTP connectors and set the "Cost" entry of this wildcard connector to a higher value while setting the cost entry of the special domain route to a lower cost but with only the special domain allowed on this page. This is especially useful if you generally want to send via DNS and only route to some systems that won't accept your email via some relay server.

• This is the resulting page:

			**********	00000022333000	
Content Restr	ictions	Delivery Options	A	dvanced	Details
		General			
Address Spac	e Conne	ected Routing Gr	oups	Delivery	Restrictions
Create, modify	, or remove a	in address space.			
Туре	Address			1999	Cost
SMTP	×				1
1					
	Christ	tansan Softu	vara S	ampia S	Creen
	Christ	tensen Softv	vare Sa	ample S	Screen
	Christ	tensen Softv	vare S	ample S	Screen
۵dd	Christ	tensen Softv	vare S	ample S	Screen
Add	Christ	tensen Softv	vare Sa	ample S	Screen
Add - Connector se	Christ	tensen Softv	vare Sa	ample S	Screen
Add - Connector se	Christ	tensen Softv	vare S	ample S	Screen
Add - Connector se © Entire	Christ Modify cope organization	tensen Softv	vare Sa	ample S	Screen
Add - Connector s © Entire © Routin	Christ	tensen Softv	vare Sa	ample S	Screen
Add - Connector s © Entire © Routin	Christ Modify cope organization g group	tensen Softv	vare Si ve	ample S	Screen
Add - Connector so © Entire © Routin	Christ Modify cope organization g group sages to be re	tensen Softv	ve	ample S	Screen
Add - Connector si ⓒ Entire ⓒ Routin Allow mess	Christ Modify cope organization g group sages to be re	tensen Softv	vare Sa ve	ample S	Screen
Add - Connector se © Entire © Routin	Christ Modify cope organization g group sages to be re	tensen Softv	ve	ample S	Screen

And that's alreav it - Your Exchange is now configured to send email to the internet and receive an SMTP email feed like it will come from POPcon or a direct internet connection. All you should do now is configure your users' email addresses in the Active directory.

#### 4. Configuring your user's email addresses in the Active Directory

You can set one or multiple email addresses for each user to receive email at. We will step through the neccessary actions when creating a new user called John Galt.

• First open the active directory and right-click the "Users" item to select "New", "User":

🍜 Active Directory Users and Compu	ters		
] 🥝 ⊆onsole <u>W</u> indow <u>H</u> elp			
🛛 Action View 🗍 🗢 🔿 主 💽	X 📽 🖬 🖪	😫 🛛 🐮 🗱 🐮	741
Tree	Users 23 objects		
Tree Active Directory Users and Computers   CS. christensen-software.com Builtin Computers Domain Controllers ForeignSecurityPrincipals Delegate Control Find New All Tasks View New Window from Here Refresh Export List Properties Help	Users 23 objects Name Administrator Cert Publishers DHCP Adminis DHCP Users DnsUpdatePr Domain Admins Domain Comp Computer Contact Group Printer User Shared Folder Exchange Ent Group Policy Guest IUSR_POPCO IWAM_POPC	Type User Security Group Security Group Security Group Security Group Security Group Security Group Security Group curity Group curity Group curity Group curity Group security Group	Description Built-in account for admini Enterprise certification an Members who have admin Members who have view DNS Administrators Group DNS clients who are permi Designated administrators All workstations and serve All domain controllers in th All domain guests All domain users Designated administrators Exchange Domain Servers Exchange Enterprise Serv Members in this group can Built-in account for guest Built-in account for Intern Key Distribution Center Se
	Schema Admins	Security Group User	Designated administrators This user account is used
Creates a new object in this container.	•		

• The resulting dialog will allow you to create a new AD user to log into your server and creates an Exchange mailbox all in one wizard pass:

New Object - User	
Create in:	CS.christensen-software.com/Users
First name:	John Initials:
Last name:	Galt
Full name:	John Galt
User logon name:	
john	@CS.christensen-software.com
User logon name (pre	Windows 2000):
CS\	john
	< Back Next > Cancel

Next...

New Object - User	×
Create in: CS.chr	istensen-software.com/Users
Password: *	XXXXXX
User must change passwor User cannot change passwor	rd at next logon vord
<ul> <li>Password never expires</li> <li>Account is disabled</li> </ul>	
	< Back Next > Cancel

Next...

New Object - User	×
Create in: CS.christensen-software.com/Users	
Create an Exchange mailbox	
Alias:	
john	
Server:	
Christensen Software/First Administrative Group/POPCONSRV	•
Mailbox Store:	
First Storage Group/Mailbox Store (POPCONSRV)	-
< Back Next >	Cancel

- Now the wizard continues into the Exchange Server realm and lets us create a new exchange mailbox
- We just accepted the default alias here. Next...

New Object - User	×
Create in: CS.christensen-software.com/Users	
When you click Finish, the following object will be created:	
Full name: John Galt	
User logon name: john@CS.christensen-software.com	
A Microsoft Exchange mailbox will be created on: POPCONSRV/First Storage Group/Mailbox Store (POPCONSRV)	
< Back [Finish] Cancel	and the second se

 Ok, fine - but wait: What about our desired email address? john@servolutions.com? We need to add this mail address manually. We are back at the AD configuration console and select the properties of our new user "John Galt" by right-clicking on the name:

4 Active Directory Users and Compu	ters		
] 🥪 Console <u>W</u> indow <u>H</u> elp			
🗍 Action View 🗍 🗢 🔿  🔃 💽	× 🕾	🖻 🖪   😫  ) 🦉 🖉 🕌	7 4 6
Tree	Users 24	4 objects	
y Users and Computers [popconsrv.CS.chri	Name	Туре	Description
nsen-software.com	🕵 Cert Pi	ublishers Security Group	Enterprise certification an
	💯 DHCP /	Adminis Security Group	Members who have admin
iters	💯 DHCP I	Users Security Group	Members who have view
h Controllers	💯 DnsAd	mins Security Group	DNS Administrators Group
hSecurityPrincipals	💯 DnsUp	datePr Security Group	DNS clients who are permi
	Domain	n Admins Security Group	Designated administrators
	🕵 Doma	Copy	workstations and serve
	<b>S</b> Doma	Add members to a group	domain controllers in th
	🕵 Doma	Disable Account	domain guests
	🕵 Doma	Reset Password	domain users
	<b>S</b> Enter	Move	signated administrators
	🔮 EUSEI	Exchange Tasks	
	<b>S</b> Excha	Open home page	change Domain Servers
	<b>S</b> Excha	Send mail	change Enterprise Serv
	Group	All Tasks	mbers in this group can
	🔊 Guest		Let in account for guest
		Delete	It-in account for anony
		Rename	It-in account for Intern
	122 krbtgl	Refresh	V Distribution Center Se
	SVRAS a	Properties	vers in this group can .
			signated administrators
		Help	s user account is used
	2 John G	alt User	
	I come		
Define the summer cale street			
Refreshes the current selection.			

• Lot's of tabs on this resulting dialog:

hn Galt Properties			?>
Member Of   Dial- Terminal Servi E-mail Addre	n Environment ces Profile   sses	Sessions F Exchange ( Exchange Fea	lemote control General atures
General Address	Account Prof	ile Telephones	Organization
🛃 🛛 John Ga	t		
First name:	John	Initials:	
Last name:	Galt		
Display name:	John Galt		
Description:	[		
Office:			
Telephone number:	1		Other
E-mail:	john@CS.christen	sen-software.com	
Web page:			Other
ОК	Cancel	Apply	Help

• We go to the "E-mail Addresses" tab:

n Galt Properties				?×
Member Of Dial Terminal Serv General Address E-mail Addre Each e-mail address default, select an en	in Environ ices Profile Account sses type has one d try in the list, an	ment   * Profile   efault reply d then clic	Sessions Exchange Telephones Exchange Fo address. Too k Set As Prim	Remote control General Organization eatures change the ary.
E-mail addresses:	A.1.1			
SMTP smtp X400	john@CS.cl john@servolu c=us;a= ;p=	hristense tions.com =Christen:	n-software.ı sen Soft;o=	com Excha
New	Edit	Remove	ed on recipier	t As Primary

 And surprise: john@servolutions.com is already there, but in suspiciously non-bold print. Actually, Exchange automatically entered this additional email address because we choose so during the editing of the default recipient policies. But we want this address to be the primary address meaning all email sent by John will get this address as the "senders" and "reply" addresses in the mail headers. So we click on "Set As Primary" and are done:

n Galt Properties	?
Member Of   Dial Terminal Serv General   Address E-mail Addre Each e-mail address default, select an en	in Environment Sessions Remote control ices Profile Exchange General Account Profile Telephones Organization esses Exchange Features type has one default reply address. To change the try in the list, and then click Set As Primary.
E-mail addresses:	
Туре	Address
smtp SMTP X400	john@CS.christensen-software.com john@servolutions.com c=us;a= ;p=Christensen Soft;o=Excha
New	Edit Remove Set As Primary date e-mail addresses based on recipient policy

• We could also add more email addresses like info@servolutions.com or sales@servolutions.com but only one of these addresses can be the primary address that will be the default senders' address in all emails sent out by john.

And that's really it - just step through you other user's AD entries and set the appropriate primary and additional email addresses.

Check our website <u>http://www.christensen-software.com</u> for more details about our POPcon and POPcon PRO products!