SECURITY SERVER INSTALLATION GUIDE



29 March 2017



Contents

1.	Intro	duction		2		
	1.1	Assump	otions	2		
	1.2	Prerequ	iisites	2		
2.	Requ	ups prior the Security Server Installation	3			
	1.1	Create	domain admin account user	3		
	1.2	SQL set	tup	5		
		1.2.1	Add the domain account user to the SQL DB	5		
		1.2.2	Create the NSS DB	6		
3.	Insta	ll the Sec	curity Server	7		
4.	Conf	igure the	Security Server	12		
5.	Laun	ch the S	ecurity Server module and run the setup wizard	20		
6.	Conf	igure the	Host to use Security Server	27		
7.	Configure the Security Role Assignment					

1. Introduction

The Netop Remote Control Security is a centralized authentication server for Netop Remote Control Hosts. It can also act as a centralized log server for Netop activity from both the Netop Host and Netop Guest.

The Security Server consists of two components.. One is simply called the Security Server module and it is the engine that runs, listens and processes authentication requests from the Host. The second component is called the Security Manager which is simply a GUI to edit the security roles and role assignments in the database. The Security Manager will also allow you to view the Netop activity log.

This document walks you thought the installation of Netop Security Server and integration with an SQL database and the Active Directory, ensuring functionality with Netop components.

This guide does not explain all options within the Security Server. For detailed information on the Netop Security Server complex functionality, see the Netop Remote Control Administrator's Guide.

1.1 Assumptions

This guide assumes that you have installed a Netop Guest and a Netop Host on different computers and you can make a remote control connection between the two.

1.2 Prerequisites

Before you begin you will also need to obtain the Netop Remote Control Security Server MSI and a valid serial number.

2. Required setups prior the Security Server Installation

1.1 Create domain admin account user

On the Active Directory server create a domain account:

- 1. Go to Start>Programs>Administrative Tools, and click Active Directory Users and Computers.
- 2. In the Active Directory Users and Computers window, expand < domain name>.
- 3. Right-click Users, point to New, and select User.
- 4. In the New Object User dialog box, do the following:
 - In the First name and Last name fields, type a first and last name for the account.
 - In the User logon name field, type the username that will be used to log on to the Active Directory domain.

New Object - User		×
Create in:	nrc.local/Users	
First name:	Netop Security Initials:	
Last name:	Server	
Full name:	Netop Security Server	
User logon name:		
NSSAdmin	@nrc.local ~	
User logon name (pre	-Windows 2000):	
NRC	NSSAdmin	
	< Back Next > Cancel	

- 5. Click Next.
- 6. In the **Password** field, type a password for the account, and then in the **Confirm password** field, type the password again.
- 7. Select User cannot change password and Password never expires:

New Object - User		×
Create in: nrc.	ocal/Users	
Password:	•••••	
Confirm password:	•••••	
User must change passw	rord at next logon	
User cannot change pas	sword	
Password never expires		
Account is disabled		
	< Back Next >	Cancel

8. Click Next, then click Finish. The domain account users will be added to the domain.

Note: To install Security Manager, you must be an administrator or a user with local administrator rights to the server and with access rights to the Windows Server console.

Give the domain account administrative privileges:

1. Right-click the created user account and select Add to a group.

Active Directory Users and Compu	uters			- 🗆 X
File Action View Help				
🗢 🔿 🙍 📰 🔏 🗎 🗙 🗐	0 🗟 🔽 🖬	s 🐮 👕 🔻 🗾 😵		
Active Directory Users and Com Saved Queries ∭ nrclocal ∭ or Computers © Computers © Domain Controllers ∭ ForeignSecurityPrincipal: ∭ Users	Name Administrator Administrator Cart Publishers Cort Publishers Cort Publishers Cort Publishers DefaultAccount Denied RODC Pass Drasub Computer Domain Gomputer Domain Gomputer Domain Gomputer Domain Gomputer Domain Guests Comparis Admins Enterprise Admins Enterprise Read-on Scrup Policy Creat Guest	sword Replication Group Controllers word Replication Group s s y Domain Controllers or Owners	Type User Security Group - Domain Local Security Group - Global User Security Group - Global Security Group - Domain Local Security Group - Global Security Group - Universal Security Group - Global User	Description Built-in account for administering the computer/domain Members in this group can have their password's replicat Members of this group hat are domain controllers may A user account managed by the system. Members in this group cannot have their password's repli DNS Administrators Group DNS clients who are permitted to perform dynamic upda Designated administrators of the domain All workstations and servers joined to the domain All domain controllers in the domain All domain users Designated administrators of the enterprise Members of this group can perform administrative actio Members of this group can perform administrative actio Members of this group are Read-Only Domain Controller Members of this group are Read-Only Domain Controller
	Resp Audition Resp Audition Resp Audition Resp Audition Resp Audition Schema Admin SMS Passcode SMS Passcode Suser1 user2 user3	Copy Copy Disable Account Reset Password Move Open Home Page Send Mail All Tasks Cut Delete Dense	User Security Group - Global Security Group - Domain Local Security Group - Global Security Group - Global Security Group - Global Security Group - Global User User	Members of this group can perform administrative action. Members of this group can access remote access properties Members of this group are Read-Only Domain Controller Designated administrators of the schema

2. In the Select Groups dialog box, search for the group name by entering the name in the Enter the object name to select field and clicking Check Name.

Select Groups	×
Select this object type:	
Groups or Built-in security principals	Object Types
From this location:	
nrc.local	Locations
Enter the object names to select (examples):	
domain	Check Names
	42
1	
Advanced	OK Cancel

- 3. Click OK.
- 4. If multiple group names are found, select **Domain Admins**.

Thain's	Description	In Folder	
Domain Admins	Designated administrators of th	nrc.local/Users	
Computers	All workstations and servers joi	nrc.local/Users	
Controllers	All domain controllers in the do	nrc.local/Users	
🖧 Domain Guests	All domain guests	nrc.local/Users	
Kana Domain Users	All domain users	nrc.local/Users	

Click **OK**. The selected group will be displayed in the Select Groups dialog box: 5.

Select Groups	×
Select this object type:	
Groups or Built-in security principals	Object Types
From this location:	
nrc.local	Locations
Enter the object names to select (examples):	
Domain Admins	Check Names

6. Click OK. The selected domain account was granted administrative privileges.

1.2 SQL setup

1.2.1 Add the domain account user to the SQL DB

- In SQL Server Management Studio, open Object Explorer and expand the Security folder.
 Right-click the Logins folder and click New Login....
- 3. Search for the domain account user and make sure to select Windows authentication.

Microsoft SQL Server Management Sto	udio				Quick Launch (Ctrl+Q)	× ם _ ۹
File Edit View Debug Tools V	Vindow Help					
📋 G - O 📅 - 🖆 - 🏜 💾 🕌	New Ouery 🍙 🚧 🖏	X白白 り・ペ・ 🔤		- Generic	Debugger 👻	- 🖉 📮
Object Explorer 🗸 🖓	📋 Login - New					
	Select a page	Script 🔻 📑 Help				
	General Server Polen					
W2010SQL (SQL Server 13.0.1001.5 - 1	Server Notes	Login name:	NBC\NSSAdmin	Search		
Security	Securables	Windows authoritication				
🕀 🧰 Logins	😭 Status	SOL Server authentication				
🕀 🧰 Server Roles						
E Credentials		Password:				
Cryptographic Providers		Confirm password:				
Audits Server Audit Specifications		Specify old password				
Server Addit Specifications Server Objects		Old password:				
E Replication		Enforce password policy				
🕀 🚞 PolyBase		Enforce password expira	ation			
AlwaysOn High Availability		User must change pass	word at next login			
Management Internetion Services Catalans		 Mapped to certificate 				
SOL Server Agent	Connection	Mapped to asymmetric key	~	i i		
	Server: W2016SQL	Map to Credential	~	Add		
	Generation	Mapped Credentials	Credential Provider]		
	sa					
	I View connection properties					
	B			0		
	Progress			Kemove		
	Ready	Default database:	master ~			
	-40 P.	Default language:	<default> ~</default>			
			ок	Cancel		
	•					

4. Click OK.

1.2.2 Create the NSS DB

In the Object Explorer, right-click the **Databases** folder and click **New Database...** In the New Database window, type a name for the Netop Security Server database and make the domain account user the DB owner.

🔒 New Database								-		×
Select a page	🔄 Script 🔻 🛐	Help								
🚰 General										
Filegroups	Database name:	Database name: NSS_DB_AD								
	Owner:			NRC\NSS/	Admin					
	✓ Use full-text in	idexina								
	Database files:	Ele Tree	Files		Initial Size (MD)	A. to groud	h /Ma		
2	NSS DB AD	ROWS	PR	MARY	8	(MD)	By 64 MB	Unlimi	ted	
	NSS_DB_A	LOG	Not	Applicable	8		By 64 MB	Unlimi	ted	
Connection										
Server: W2016SQL										
Connection:										
sa										
View connection properties										
Progress										
Ready	•									/
.4 P.						Add		F	Remove	
							Oł	(Ca	ncel

Click OK.

3. Install the Security Server

Prerequisite: On the machine where you will install the Netop Security Server, add the domain admin user to the Windows Local Administrator list.

Local Users and Groups (Local)	Name	Description	Actions		
Groups	Access Contr	ol Assist Members of this group can remot	Groups		-
	Administ Backup C Certificat	Administ Backup C Certificat Cryptogra Distribute Event Log Guests		ons s	Þ
	Arrow Cryptogr Tistribute Event Log Cuests			ons	•
	畿 Hyper-V . 윤 IIS_IUSRS 윤 Network	Description: Administrators have complete and unrea to the computer/domain Members:	stricted access		
	 Administration Performa Performa NRC\De Print Ope RDS Endp RDS Man RDS Rem Remote □ Remote N 	Madministrator MRC\Domain Admins NRC\NSSAdmin (NSSAdmin@nrc.local)			
	Arr Replicato	Add Changes to a user's gro are not effective until th user logs on.	oup membership he next time the		
	A NetOpAc	OK Cancel Apply	Help		

- 1. Log into the Windows Server console using the account with local administrator rights (the one mapped with teh NSS DB on the SQL server).
- 2. Go to the folder you have saved the Netop Remote Control Security Server MSI and double-click it. The Netop Security Server Setup will be displayed.



- 3. Click Next.
- 4. Accept the Netop End-User License Agreement.

j,	Netop Security Server - Setup X	
	End-User License Agreement	
	Please read the following license agreement carefully.	,
	Netop Business Solutions A/S End-User License Agreement Updated: April 2016 🔥	
1	This Agreement provides you with the right to install, load, host and use "the Software" as described herein.	
1	Portions of the Software licensed under this Agreement are used under license from third parties. All Rights Reserved.	
	NOTICE TO ALL USERS: PLEASE READ THE FOLLOWING LEGAL AGREEMENT ("AGREEMENT") CAREFULLY. THIS AGREEMENT CONSTITUTES A LEGAL, BINDING AND ENFORCEABLE AGREEMENT BETWEEN YOU AND NETOP BUSINESS SOLUTIONS A/S ("NETOP BUSINESS SOLUTIONS") REGARDING ALL USE OF ANY NETOP BUSINESS SOLUTIONS	
(I accept the terms in the License Agreement	
(] I do not accept the terms in the License Agreement	
	< Back Mext > Cancel	_

- 5. Click Next.
- 6. Enter the username, organization and the Netop Security Server Serial Number (sometimes referred to as the License Key).

🛃 Netop Security Server - Setup	×
Customer information	Noton
Please enter your information.	Metop
User name:	
Windows User	
Organization:	
Netop	
License kev:	
< Back	Cancel

7. Click Next.

🖟 Netop Security Serve	r - Setup	×
Setup Type Choose the setup ty	pe that suits your needs.	Netop
	<u>Typical</u> Installs the most common program features. Recommend most users.	led for
	Custom Allows users to choose which program features will be ins and where they will be installed. Recommended for adva users.	stalled nced
	Complete All program features will be installed (requires most disk s	space).
	<back next=""></back>	Cancel

8. Select the **Typical** setup type.

Some Netop features might require a restart of the Netop service or the computer.

🖟 Netop Security Server - Setup		×
Restart Warning Some features may require a restart of a s	ervice or the computer.	Netop
The following features may require a restart. restart of the computer, please uncheck the b please decline to restart when prompted at th page and deselect the feature(s) requiring a r	To delay restart of services un tox below. To delay restart of t te end of Setup. Or go back to restart.	til next planned the computer the previous
Advanced Feature Driver Operating System Command Mode Transfer Display driver Remote Printing. Print Spooler Service Smart Card Login SNMP Logging Service		
Restart service if needed	< Back Next	Cancel

- 9. Make sure that the **Restart service if needed** option is checked.
- 10. Click Next.

🐙 Netop Security Server - Setup	×
Windows Firewall Configuration Allow Netop Security Server to communicate through Windows Firewall	Netop
To work properly Netop Security Server must be given permission for incoming net connections in Windows Firewall	twork
Allow Netop Security Server to accept incoming network connections	
< Back Next	Cancel

- 11. Make sure that the Allow Netop Security Server to accept incoming network connections option is checked.
- 12. Click Next.

🖟 Netop Security Server - Setup	×
Ready to install The Setup Wizard is ready to begin installation.	Netop
Click Install to begin the installation.	
If you want to review or change any of your installation settings, dick Back. Click exit the Setup Wizard.	Cancel to
Save Installation files for future use (Change or Repair)	
< Back Inst	Cancel

- 13. Optionally, you can choose to Save Installation files for future use (Change or Repair).
- 14. Click Install.

🖟 Netop Security Server - Setup	×
Remote Col	Completing the Netop Security Server Setup Wizard
ntrol and Support	Click the Finish button to exit the Setup Wizard.
Netop	Launch the Netop Security Server product
5	< Back Finich Cancel

IMPORTANT: Uncheck the Launch the Netop Security Server Product checkbox.

15. Click Finish.

4. Configure the Security Server

- From the Windows desktop go to the Start > All Programs > Netop Remote Control and run as administrator the Security Manager. The Netop Security Manager Setup Wizard will be displayed.
- 2. In the Logon to Database dialog box, make sure that the Create local test database option is not selected and click Change.

😻 Netop Security Manager	– 🗆 X
File Records Edit View Options Help	
寒 決 然 鳥 鳥 ⊗ 留 象 辿 迂 臣	
□Where UserName ∨ LIKE ∨ A% ∨ 🕼	
Verbere UseName UKE A	Logon to Database × Create local test database Data source NETOP_ACCESS Username rssadhin Password • Logon Chalon. Help Ext
	v
<	>
leady	

The Select Data Source dialog box will be displayed.

3. Select the Machine Data Source tab.

Select Data Source	×
File Data Source Machine Data Source	
Data Source Name Type Description	
A Machine Data Source is specific to this machine, and cannot be shared. "User" data sources are specific to a user on this machine. "System" data sources can be used by all users on this machine, or by a system-wide service.	
OK Cancel He	lp

4. Click New.

 In the Create New Data Source dialog box, select System Data Source (Apply to this machien only).



- 6. Click Next.
- 7. Select SQL Server as driver for which you weant to set up a data source.

	Name	V ^
	Microsoft Excel-Treiber (*xls)	6
011 0	Microsoft ODBC for Oracle	6
	Microsoft Paradox Driver (*.db.)	6
	Microsoft Paradox-Treiber (*.db)	6
	Microsoft Text Driver (*.bxt; *.csv)	6
	Microsoft Text-Treiber (*.txt; *.csv	r) 6
	SQL Server	6 🗸
	<	>

- 8. Click Next, then click Finish. The Create a New Data Source to SQL Server wizard will be dispalyed.
- 9. Type a name for the data source and from the Server drop-down list select the MS SQL server you will connect to:

	This wizard will help you create an ODBC data sour connect to SQL Server.	ce that you can use to
EL.	What name do you want to use to refer to the data	source?
	Name: NSS_DB_AD	
	How do you want to describe the data source?	
	Description: NSS_DB_AD	
	Which SQL Server do you want to connect to?	
	Server: W2016SQL	v
	Finish Next SN Cance	Help

- 10. Click Next. Make sure that the following options are selected:
 - With Windows NT authentication using the network login ID
 - Connect to SQL Server to obtain default settings for the additional configuration options.

ord
er,

- 11. Click Next.
- 12. Select Change the default database to <the Netop Security Server DB, as defined in the SQL Server>:

Attach database filename:
Use ANSI quoted identifiers.
Use ANSI nulls, paddings and warnings.
Use the failover SQL Server if the primary SQL Server is not available.

13. Click Next, then click Finish. The ODBC Microsoft SQL Server Setup dialog box will be displayed:

obe microsoft set setter setup	
A new ODBC data source will be created with the following configuration:	
Microsoft SQL Server ODBC Driver Version 10.00.14393	0
Data Source Description: NSS_DB_AD Data Source Description: NSS_DB_AD	
Server: W2016SQL Database: NSS_DB_AD	
Language: (Default) Translate Character Data: Yes	
Log Long Running Queries: No Log Driver Statistics: No	
Use Regional Settings: No Prenared Statements Option: Drop temporary procedures on	
disconnect Lee Failwer Server: No	
Use ANSI Quoted Identifiers: Yes	
Use ANST Null, Faddings and Wamings: Yes Data Encryption: No	
	1.44

14. Test the data source. If successful, click OK.



15. Click **OK** three times to reach the Logon to Database dialog box.

👺 Netop Security Manager		- 🗆 🗙
File Records Edit View Options Help		
🛎 🦓 🎊 🛰 🧖 🌡 🚱 🖆 🎕 🎠 🏗 🏢		
UserName V LIKE V A%		
Netop Security Management	Logon to Database Create local test database Data source NSS_DB_AD Username msadmin Password Logon Change Help Exit	
		~
		>
Readv		

16. Enter the password and click Logon.

 In the Netop Security Server – Security Server Public Key dialog box, click to Generate New Public Key.



- 18. Click Generate New Public Key.
- 19. Select the public key generated then click Copy to clipboard.
- 20. Click Next twice.
- 21. In the Group Name (Private) field enter your domain and re-enter it in the Confirm Group Name field.

	Ûz
f you are using older Hosts, sp database will belong to the grou compatibility. It is recommended	V2 ecify a Group Name here. All Security Servers reading this up specified. Group Name provides backwards d to update your Hosts and use the Public Key instead.
Group Name (Private)	
Confirm Group Name	•••••
Group ID (Public)	2D5D8022082B5E58E579E373805EB699
have servers running and you of Servers and reconfigure all you	shange the group name, you must restart all your Security r Hosts.

22. Click Next. The Security Server list will be displayed. The name of your Security Server will appear in the server field.

etop Security Ma	ager - Security Server List	
*		Q.S)
Enter the Netop H	ost IDs for the Security Server(s) in this group. For	security reasons, you
must restart all runr	ing servers before starting the new server you ad	a nere.
Servers	Run Answer Access Server Key	/
W2016NSS	Add Remove E	Edit Help
	S.	
	< Back Next	t > Cancel

- 23. Click Add to add your Security Server to the database, then click Next.
- 24. Select Guests enter Directory Services username and password.

Preferred Guest Typ	e	×
*		
Please select your	preferred security mode:	
	O Guests enter Windows usemame and password	
	Guests enter Netop Guest ID and password	
1	◯ Guests enter RSA SecurID usemame and passcode	
1	Guests enter Directory Services username and password	
Some Hosts are no to prompt the Neto	t able to handle Windows users. These hosts will always ask the Gue ρ way.	st
	< Back Next Cance	1

25. Click Next and select Always the Workstation.



26. Click Next, then close Netop Security Manager.

Open a txt file and paste the Security Server Public Key you have previously saved to clipboard.

5. Launch the Security Server module and run the setup wizard

1. From the Windows desktop go to the Start menu and select All Programs > Netop Remote Control > Security Server.

It is required that you select to Run Host as specific user by checking the Enable box.

2. Enter Windows credentials that have been added to the Local Administrators Group on this server.

Run A	5		
In order for the Netop Security Server to query a Windows server for users and groups you need to enter a valid user name, password and domain that gives the Host (Security Server) adequate rights to do so.			
Run	Host as specific	user	
	Enable		
Us	er name:	LocalAdminstrator	
Pa	Password:		
Do	omain:	YourDomain	
Automatically change to random password every week			
		Ok Cancel Help	

3. Click OK. The Netop Security Server Setup Wizard will be displayed.

Netop Remote Contro	I - Setup Wizard
NETOP" Remo Secure Remo	Welcome to the Netop Remote Control Setup Wizard
te Managemen	This wizard will guide you through the selection of certain setup options to make the Netop module ready for use.
trol t and Support	Click Next to proceed.
	Netop
	< Back Next > Cancel

4. Click Next.

Netop Remote Control - Setup Wizard		×
Wizard Mode Select setup type.		Netop
• Default Select this option to use a default setup.		
C Custom Select this option to enable a custom setup		
	< Back Next	> Cancel

- 5. Make sure that the **Default** option is selected.
- 6. Click Next.

Netop Remote Control - Setup Wizard	x
Netop Host Startup Mode Select how Netop Host shall be starte	d Netop
 Start with Windows Select this option to load and start Netop enable Log On to Windows by remote cor C Load manually Select this option to load Netop Host man 	Host minimized with Windows. Recommended to htrol. mally.
	< Back Next > Cancel

- 7. Make sure that the option to **Start with Windows** is selected.
- 8. Click Next.
- 9. Enter a secure password that can be used later to remote control the Security Server from your Netop Guest. Make sure to confirm the password.

Netop Remote Control - Setup Wizard		x
Default Guest Access Password Specify a password required from al	I Guests to connect to the Host.	Netop
Specify password: Re-enter password:		
· · · · · · · · · · · · · · · · · · ·	< Back Net >	Cancel

10. Click Next.

11. Make sure that you choose not to configure WebConnect by selecting No.

Netop Remote Control - Setup Wizard	:
WebConnect Would you like to connect directly, or using WebConnect/Netop Portal? Netop	
No Select no if you want this Netop module to connect to other Netop modules directly or through one or more Netop Gateways.	
C Yes Select yes if you want this Netop module to connect to other Netop modules using WebConnect or Netop Portal. Make sure to select the correct method below.	
WebConnect and Netop Portal are services that provide connectivity across the internet. They do not require direct visibility between end points.	
< Back Net > Cancel	

- 12. Click Next.
- 13. Select the No, I do not want to register my Netop License now option.



14. Click Next.

Netop Remote Cont	rol - Setup Wizard
NETOP" Remo Secure Remo	Setup Wizard completed
ote Manageme	Your Netop module is now set up and ready for use. To change the setup, use the Netop
Itrol Int and Suppo	module Configuration menu items.
a	Noton
	Netop
	< Back Finish Cancel

15. Click Finish.

16. The Netop Security Server is now running. The Netop Security icon appears in the system tray.



17. Right click on the icon and select Restore.

🏓 Netop Security Server - Running	_ 🗆 🗙
<u>File View Action Session Tools H</u> elp	
i 🕨 🔳 🕪 I 🥙 💬 👲 🎲 🎨 I 🗭 🐍 😃	
Names Messages Security Serv	er
General Connections History Services Commun	nication
Status	
Running	
Host ID	
W2016NSS	
Address	
192.168.206.35	
192.16	8.206.35

18. Go to the Tools menu and select Security Server Setup. The database setup will be displayed.

Netop Security Server Setup	×
ODBC Setup	
Data Source Name (DSN) :	NSS_DB_SQL
User ID :	
Password :	••••••
	Logon
Information	
Status :	Error : Logon error, check DSN, User ID and Password.
Security Server Group ID :	
Public Key :	
	A
	<u>~</u>
Ok	Cancel Help

19. In the upper-right corner of the page, click the ellipsis button. The Select Data Source page will be displayed from where you will select the desired database.

Select Data Source			×
File Data Source Machine Data	Source		1
Data Source Name NSS_DB_AD	Type System	Description NSS_DB_AD	
1			New
A Machine Data Source is specific to this machine, and cannot be shared. "User" data sources are specific to a user on this machine. "System" data sources can be used by all users on this machine, or by a system-wide service.			
		OK Cancel	Help

20. Click the Machine Data Source tab, select the NetOp_Security_Evaluation data source name and click OK.

SQL Server Login	i la	×
Data Source:	NSS_DB_AD	ок
Use Trusted	Connection	Cancel
Login ID:	nssadmin	Help
Password:		Options >>

21. No need to enter credentials; just click OK.

Netop Security Server Setup		×
ODBC Setup		1
Data Source Name (DSN) :	NSS_DB_AD	
User ID :	nssadmin	
Password :	••••••	
	Logoff	
Information		1
Status :	Browsing for other Security Servers.	
Security Server Group ID : Public Key :	2D5D8022082B5E58E579E373805EB699	
BEGIN PUBLIC KEY MIIBIjANBgkqhkiG9w0BAQEFAA0CAQ8AMIIBCgKCAQEAt2AnT9mypBaPscprEANr +IcCo56U4fHnWAQ06mXX3CaohKHGv3FPmiy1ievUYdSggwnut5MFtPHtb-KP0tPv kZWjTDHZXhVZJ7ce5ix1CRZL2RxS3PFA45DreBJ/qP9zhfoDiW1MmbsJyfcZq4kD EQMB0r9iHIAFo08Hp20J0qE+k70M8zbLMTrGNqCCTCgRFVpGLev0SYHW3bVTEBCi FgyR8aEiPDC5CY889WEgTB2XcTmKhWi8H611MGwtwG/1D7LWiJ9nq5hLTydYRq 6vnkP5wCo04TndtZyj5I1t0xP2RkAT9xdzxm+ayrp26ewhdim6cmJnWd+2NEeiRC M0IDA0A8		
END PUBLIC KEY	$\overline{\mathbf{v}}$	
Ok C	ancel Help	-

- 22. Click the Logon button.
- 23. Wait until you see the Information Status: "Security Server running."

Netop Security Server Setup	×	
CODBC Setup		
Data Source Name (DSN) :	NetOp_Security_Evaluation	
User ID :	admin	
Password :	•••••	
	Logoff	
☐ Information		
Status :	Security Server running.	
Security Server Group ID :	2D5D8022082B5E58E579E373805EB699	
Public Key :		
BEGIN PUBLIC KEY MIIBIJANBgkqhkiG9w0BAQEFAA0CAQ8AMIIBCgKCAQEAsX2r2MBfhmiMHvzX6m4y Gri9iPcz9/098sgAl4Faqts2wi3U014VfoYpiYfQXGN8Wq4Z0KJSaWdpKxfBut0Z IaCF8cCLwsVAhlpU5Uv7GLv4/xoUMaYyFgxrgVULJLlqGZeNc+csppAFSEGdtYr9 6XkLx6uMvfkiA8Ne+eTYw0Ck5jdkz0fw4lE6niiGH65zP8/a3pDiw15gzN3Va+Zr Y0viK78+2s2F49RdHZxPAP4/Sks0fdoMkIZ1J8qXj6JDnFZ9GlEnvTn4f4s/afm1 uTA9U3Z3pJQQB01nG3TgHkz3aLijQM1wntT++r9bZz959fN/gTGMVuQuDaJ05q qQIDAQABEND PUBLIC KEY		
Ok	Cancel Help	

- 24. Click OK.
- 25. Restart the Netop Security Server.

6. Configure the Host to use Security Server

1. Open GUI of the Host you want to use with Security Server.

📌 Netop Host - Running	_ _ ×
<u>File View Action Session Tools H</u> elp	
🗈 🖿 🗈 🎋 💎 🗄 静 🏠 💆 🐍 🕹	
Communication Names	Messages
General Connections History	Services
Status	
Running	
Host ID	
TestHost1	
Address	
192.168.52.128	
	192.168.52.128

- 2. Make a note of the Host ID as it is displayed in the General tab. You might want to use this ID later when making role assignments in the Security Manager.
- 3. On the main menu click **Tools** and select the **Communication Profiles** option. The Communication Profile Setup will be displayed.

Communication Profile Setup	×
Communication Profile List:	Close
Internet (TCP)	Help
IPX IPX	
ISDN (CAPI)	
LAN (TCP)	
NetBIOS	
NetBIOS over TCP/IP (1)	
NetBIOS over TCP/IP (4)	
TCP/IP	
TCP/IP (TCP IPv6)	
New Edit Delete	

4. Make sure that the TCP/IP communication profile is selected. Click on it then click the Edit button.

Communication Profile Edit	
Communication Information Description of Communication Profile:	Ok
Communication Device: TCP/IP	Cancel
TCP/IP Max packet size (MTU): 2600 (512 - 5146 bytes) A Optimize for internet communication	dvanced

5. Click the IP Broadcast list... button.

IP Broadcast List	×
□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □]
	Add
	Edit
	Delete
Disable local subnet broadcast	
Ok Cancel	Help

6. Click the Add button.

IP Broadcast List	x
Enter DNS name or IP address:	
Ok	Cancel

7. Enter your Security Server's DNS name or IP address and click OK.

IP Broadcast List	×
IP broadcast list	
YourServerName	Add
	Edit
	Delete
✓ Disable local subnet broadcast	
Ok Cancel	Help

- 8. Optionally, you might unselect to Disable local subnet broadcast.
- 9. Click OK twice then click Close. You will be prompted to restart the Host.

Information	×
You must restart the program for the "Restart" button).	e changes to take effect (e.g. click on the
	ОК

10. Click OK.

📌 Netop Host - Running	×
<u>File View Action Session Tools H</u> elp	
i 🕨 🔳 🕪 I 🥙 🖗 👲 🌮 🏹 I 💆 🐍 🕰	
Communication Names	Messages
General Connections History	Services
Status	
Running	
Host ID	
Testrosti	
Address	
192.168.52.128	
	192.168.52.128

- 11. On the main menu, click Actions and select Restart.
- 12. Once the Host's status returns to running on the main menu click **Tools** and select the **Log Setup** option.

g Setup	12.4		×
Log Setup Netop Local Netop Ser	ver Windows Event Log SNMP Ti	raps	1
Log events:			
Log Locally			
Log on Netop Server			
Log to Windows Event Log			
Log using SNMP Traps			
Custom Host name for all log eve	Add Item	<u>~</u>	
	Add Item	-	
		Ok Cancel	Help

- 13. Select the Log on Netop Server option.
- 14. Click the Netop Server tab.

Log Setup		×
Log Setup Netop Local Netop Se	rver Windows Event Log SNMP Traps	1
Select Events to view in list	Events to log:	
View all Events	Act: Execute Command	Select All
C View Selected	Act: File received	
Connection	Act: File Sent	Deselect All
Session	Act: Gateway Logon	
C Action	Act: Help request cancelled	
🗖 Security	Act: Help request sent	
Configuration	Act: Host Reboot	
	Act: Host user logged off	
	Act: Inventory sent	
	Act: Keyboard and Mouse Assigned	
	Act: Keyboard and Mouse Revoked	
	Host ID for log server	
		Browse
	Ok	Cancel Help

- 15. Click the Select All button to enable logging of all Netop events.
- 16. Click the **Browse...** button.You will be prompted to wait until the Log Servers list will be displayed. Your Netop Security Server will be shown in the list.



17. Select the server name from the list and click the Select button.

Log Setup		— X
Log Setup Netop Local Netop S	Server Windows Event Log SNMP Traps	
Select Events to view in list	Events to log:	
View all Events	Act: Execute Command	Select All
C View Selected	Act: File received	
Connection	Act: File Sent	Deselect All
Session	🖌 Act: Gateway Logon	
C Action	Act: Help request cancelled	
C Security	Act: Help request sent	
Configuration	Act: Host Reboot	
	Act: Host user logged off	
	Act: Inventory sent	
	Act: Keyboard and Mouse Assigned	
	Act: Keyboard and Mouse Revoked	
	-Host ID for log server	
	YOURSERVERNAME	Browse
	Ok Ca	ncel Help

18. Click OK. The Netop Host is checking if the log server is available.

🏓 Netop Host - Running	X
<u>File View Action Session Tools H</u> elp	
: 🕨 🔳 🕪 (🗏 🖗 🖢 🛟 🏹 (💆 🐍 🛻)	
Communication Names	Messages
General Connections History	Services
⊤ Status	
Running	
Host ID	
TestHost1	
Address	
192.168.52.128	
	192.168.52.128

19. On the main menu click Tools and select the Guest Access Security option.

Guest Access Security	×
Guest Access Privileges Guest Policy MAC/IP Address List Setup Encryption Smart Card Guest Access Method	
Use Netop Security Server Public Key: BEGIN PUBLIC KEY MIIBUJANBgkqhkiG9w0BAQEFAAOCAQ8AMIIBCgKCAQEAsX2r2MBftmlMHvzX6m4y Grt9Picz9/O98sgAI4Faqts2wi9J014VfoYpiYfQXGN8Wq4Z0KJSaWdpKxfBut0Z IaCF8cCLwsVAhlpUSUV7GLv4/xoUMaYyFgxrgVULJLIqG2eNc+csppAFSEGdYr9 6XkLxGuMvfkiA8Ne+eTYwCfk5jdkz0fW4IE6niiGH6SzP8/a3pDiw1SgzN3Va+Zr YOviK78+2s2F49RdHZxPaP4/sksOfdoMMz118gXj6JDnF29GlEnvTn4f4s/afm1 UTA0112729102000	
qQIDAQAB END PUBLIC KEY	Ŧ
OK Cancel	Help

- 20. From the Guest Access Method drop-down list select the Use Netop Security Server option.
- 21. Copy and paste the Public Key from the Public Key text file that you made while setting up the Netop Security Manager.
- 22. Click OK.

7. Configure the Security Role Assignment

1. Return to the Netop Security Server computer and open the Netop Security Manager.

8 Netop Security Manager - Logged on to ODBC data source "NetOp_Security_Evaluation"			_		
File Records Edit View Options Help					
🗷 🥀 👧 🛰 🧖 🍓 🛞 🖆 🎕	<u>a</u>				
Where	✓ A%	v 🐔			
Ketop Security Management Security Settings	Guest	Host	Role	Enabled	ID
Roles Security Policies					
E Logging					
Netop Log Schutzer					
Scheduling					
Guest IDs Guest ID Groups					
Host IDs Host ID Groups					
Netop Properties					
[NetOp info] Microsoft Access datab	ase server detected:	ACCESS			
T					▼
Ready					

2. On the left tree collapse Netop Definitions and select Guest IDs.



3. Right-click on the right side of the window and select New.



4. In the first field type a new Guest ID.

Netop Guest ID		×
General Member of		
	STID	
Description		
Callback number		1
Callback mode	Password	
No callback Status	Confirm Change at next logon Illegal count History count O	
Disabled	Last use	
	OK Cancel Apply	

 In the Password area, enter a password and confirm it and make sure to deselect the Change at next logon option.

Netop Guest ID			x
General Member of			_
Description			
Caliback number			
Callback mode	Password		
	Password	•••••	
	Confirm	•••••	
No callback	Change at n	ext logon	
	Illegal count	0	
Status	History count	0	
	Last change		
Disabled	Last use		
	ОК	Cancel Apply	

- 6. Click OK.
- 7. On the left tree, collapse Security Settings and select Role Assignments.



8. Right-click on the right side of the window and select New.



9. In the Select Guest Type dialog box select Guest ID and click Next.

Select Guest Type		×
\$		
Please select which type of Guest you wish to	insert	_
🛒 C Windows Group	C Windows User	Guest: Netop Guest ID Group <mark>No name</mark>
C Guest ID Group	🐴 💿 Guest ID	Host:
C RSA SecurID Group	C RSA SecuriD User	No type No name
Directory Services Group	C Directory Services User	Role
C Everybody		No name
Press the Back button for details		
	< Back Next > Cancel	

10. The Guest ID you created earlier is selected by default. Click Next.

Insert Netop Guest ID as Guest	×
i New TESTUSER	Guest: Netop Guest ID 1: TESTUSER
	Host: No type No name
	Role No name
< Back Next >	Cancel

11. Select the Host ID Group option and click Next.

Select Host Type		×
38		
Select Host Type		Guest: Netop Guest ID 1: TESTUSER
Windows Group	🗳 🔿 Windows User	
C Workstation Groups	C Workstation	Host: Netop Host ID No name
💮 O Domain	K Host ID	
- Host ID Group	 Directory Services Organizational Unit 	Role No name
C Everybody	© Directory Services Group	
	·	
	< Back Next > Cancel]

12. The UNREGISTERED HOSTS group is selected by default. Click Next.

Insert Netop Host ID Group as Host	X
Enter first characters below and select from list	Guest: Netop Guest ID 1: TESTUSER Host: Netop Host Group 0: UNREGISTERED HOST IDS Role No name
< Back Next > Canc	el

13. The Full Control security role is selected by default. Click Finish.

Insert Role Assignment		×
Enter first characters below and select from list	8	
Full Control No Access Standard Role Unassigned Hosts' Role	New Guest: Netop Guest ID 1: TESTUSER	
	Host: Netop Host Group 0: UNREGISTERED HOST I	DS
	Role 2: Full Control	
< Back Fini	sh Cancel	

You have now completed your first role assignment for testing.

If you have configured everything correctly will now be able to connect from your Netop Guest to the Netop Host using Security Server authentication and Security Server logging.