Host access scenarios

Introducing the test scenarios

These scenarios illustrate common networking problems faced by businesses today, and they show how Communications Server for Windows NT provides the solutions to those problems. Before beginning the scenarios, be sure that you have the necessary software and hardware.

Note: The network diagrams included with the scenario descriptions are generic. The actual test scenarios may only require you to configure selected portions of the illustrated networks.

Test Scenario 1

Configuring a TN3270E server

In Scenario 1, a customer's computers are connected using a TCP/IP LAN, but employees need to access critical host applications.

The recommended solution is to configure Communications Server for Windows NT as a TN3270E server and provide workstations with TN3270 emulation software. The TN3270E server would function as a gateway, enabling users to access the host system.

To complete this scenario, you will need to perform the following steps:

Step 1: Configure the node, devices, and gateway on the server machine.

Step 2: Configure IBM eNetwork Personal Communications for Windows NT on the client machine.

The following figure shows how the TN3270E Server function enables you to configure your solution.



TN3270E server with wide area TCP/IP network

Scenario 1: Configuring a TN3270E server

To complete this scenario, you will need to perform the following:

Step 1:

Configure the node, devices, and gateway on the server machine

- 1. Click Start on the task bar, then select:
 - -Programs
 - -IBM Communications Server
 - -SNA Node Configuration
- 2. The Communications Server SNA Node Configuration window is displayed.
 - -Select File, then select New

🎇 Untitled - Communi	cations Server SNA Node Configuration 💦 🔲 💌
<u>File</u> Scenarios Options	: <u>H</u> elp
<u>N</u> ew Ctrl+N	
<u>0</u> pen Ctrl+0	
<u>S</u> ave Ctrl+S	
Save <u>A</u> s	
Recent File	
E <u>x</u> it	
Create a new document	

3. Select Scenarios, then select TN3270E server.



Configure the node

1. Highlight Configure Node, then select New.

🔀 Untitled - Communications Server SN/	A Node Configuration	_ 🗆 🗡
<u>File Scenarios Options H</u> elp		
Configuration options:		
Configure Node		
Configure the Gateway		
Description: Click on the New button to define the nod change its parameters or delete it. Node:	ie. You can then view and	
	New	
	View/Change/Add	
	Delete	
Ready		

- 2. The Define the Node window is displayed. Select the **Basic** tab, and provide the following information.
 - Fully qualified CP name = USIBMSL.CSWNT01Node Type = End Node
- 3. When you are done, click **OK**.

Define the Node	х
Basic Advanced DLU Requester	
Control Point (CP) Fully qualified CP name: USIBMSL CSWNT01 CP alias:	
Local Node ID Block ID: Physical Unit ID: 05D 00000	
Node Type End Node Network Node	
OK Cancel ≙pply Help	

Configure Devices

1. Highlight **Configure Devices**, then select **New**.

🔀 Untitled - Communications Server SN/	A Node Configuration 📃 🗖 🗙
<u>File Scenarios Options H</u> elp	
Configuration options:	
Configure Node	DLCs:
Configure Devices Configure the Gateway	COM Port SDLC-MPA SDLC-WAC
Description: When you select a definition in the list beli parameters or delete it. Click on the New LAN Devices:	ow, you can view and change its button to add a new definition.
	New
	View/Change/Add
	Delete
Ready	

2. The Define a LAN Device window is displayed. Click **OK** to accept the default values.

Define	a LAN Device			×
Basic	Advanced Perform	mance		
P	ort name:	LAN0_04		
	Adapter number:	0	•	
	Local SAP:	04	•	
	OK	Cancel	Apply	Help

Configure the Gateway

1. Highlight Configure the Gateway, then press View/ Change/Add....

🔀 Untitled - Communications Server SNA	Node Configuration 🛛 🗖 🖂 🗙
<u>File Scenarios Options H</u> elp	
Configuration options:	
Configure Node Configure Devices	
Configure the Gateway	
Description: Click on the View/Change/Add button to o then view or change its parameters.	define the Gateway. You can
Gateway:	
	New
	View/Change/Add
	Delete
, Ready	

2. The Define a Gateway Configuration window is displayed. 5. When you are done, select the Advanced tab. Select the Host Links tab, then press Create to define a new link.

Hot Link Te	me DLC 1ge	Adaptor Number	10
Quese.	CONTRACT.	C.peet?	1000000000
Description This for shows	al list defections which	an continued to explor doce	odent 111 annuans to a bind

3. The Host Link Type window is displayed. Select DLC type = LAN, then press OK.



- 4. The Define a LAN Connection window is displayed.
 - Enter the 12 character hexadecimal address of the S/390 host. In this example the destination address = 100010010010.

Define	a LAN C	onnection			×
Basic	Advanc	ed Security	1		
L	ink station.	name:	LINK0000		
C)evice nam	e:	LAN0_04		-
		Discover ne	twork address	es	
	Destinatio	on address:	1000100	10010	
	Remote 9	SAP:	04	3	
	OK	Cancel	Арр	ly -	Help

- 6. On the Advanced property page, enter the Local Node ID. The Local Node ID consists of two parts: the Block ID and the Physical Unit ID. In this example, the Block ID = 05D, and the Physical Unit ID = 12345.
 - -After entering the Local Node ID information, press OK to create the LAN connection.

Define a LAN Connection	×
Basic Advanced Security	
Activate link at start	
HPR support	
APPN support	
Auto-activate support	
Link to preferred NN server	
Solicit SSCP sessions	
PU name: LINK0000	
Local Node ID Block ID: Physical Unit ID: 05D 12345	
Cancel Apply Help	

7. This SNA Node Configuration window is displayed. Press 11. The Define a Gateway Configuration property sheet is Yes to create a new LU for this host link.



- 8. The Define LUs window is displayed. Enter the following information.
 - Base LU name = **LU**
 - Number of LUs = **4**
- 9. When you're done, click OK to define the range of LUs.

Range IJJ definitions		 Single LU definition
Nee LU neme LU Rat HAU address 2 (2-254) Kueber at LUs 4 (2-254)	Generaled LU names:	Haat MAU Address
erminske priotije eh minske priotije eige Lille to pool 18UC m		Liu Model Type X270 015PLAY 2 (24 + 80)
Neoriptian		

10. When the Assigned LUs window is displayed, press OK.

U108 U108 U106 U105	3270 DISPLAY 2 (24 × 80) 3270 DISPLAY 2 (24 × 80) 3270 DISPLAY 2 (24 × 80) 3270 DISPLAY 2 (24 × 80)	22	
•			
(j.mole.	Orgrup Delete		

- displayed.
 - Select the TN3270E tab
 - Select PUBLIC from the Default pool dropdown list

12. Press **OK**.

hew recovered	d'ane		
Name A. PLELC	Line Line College	THEORE Chem	AsscaratParket
Proste	TACORD	Unacapted Pad	
and I	Delete TX3277	t Defenterini	
Cherge.			

13. The Communications Server SNA Node Configuration window is displayed. Select File, then select Save As....

🗱 Untitled - Communications S	erver SN/	A Node Configuration	_ 🗆 ×
<u>File</u> <u>S</u> cenarios <u>O</u> ptions <u>H</u> elp			
New	Ctrl+N		
<u>O</u> pen	Ctrl+0		
<u>S</u> ave	Ctrl+S		
Save <u>A</u> s			
1 D:\IBMCS\PRIVATE\snacl1			
2 D:\IBMCS\PRIVATE\newnode			
3 D:\IBMCS\PRIVATE\anynetb			
4 D:\IBMCS\PRIVATE\nodeb			
E <u>x</u> it		define the Gateway. You car	1
then new or enange its param	ictors.	1	
Gateway:			
		New	
		View/Change/Add	
		D. L.	
		Delete	
Save the active document with a new	w name		

- 14. The Save As window is displayed.
 - Enter File name = cswnt01.acg

-Press Save

Save As			? ×
Save jn:	🔁 Private	- 🗈	den <u>1</u> 11 12 12 12 12 12 12 12 12 12 12 12 12
File <u>n</u> ame:	cswnt01.acg		Save
Save as <u>t</u> ype:	Configuration Files (*.acg)	•	Cancel

15. When this SNA Node Configuration window is displayed, select **Yes**.

SNA Node Configuration					
⚠	"Do you want to set this configuration to be the default?"				
	<u>Yes</u> <u>N</u> o				

You have completed the TN3270E server configuration.

Next, you will want to start the node, and then verify that the link is active.

Step 2:

Configure IBM eNetwork Personal Communications for Windows NT on the client machine

If you have not already done so, install Personal Communications for Windows NT on a client workstation where TCP/IP is installed, configured, and attached to a TCP/IP LAN.

1. To configure, click **Star**t on the task bar and then select:

- -Programs
- IBM Personal Communications
- -Start or Configure Session

2. Configure as shown in the following example. When you are done, double-click **TCP/IP** in the Attachment column.

	Interface.	Attachment	Hgst
PC	L/AN	LAN VIO EEE 902.2	
		PK/SPK/P	-91 12
	CDAK	LAN via NefWare for SAA	AS/40
	COM port	Tritres 3270	ASO
		(IEEE 802.2)	10 1
	1000	APPE Network	- S-20
	SDLC	APPC3270 via LAN	

3. The Telnet 3270 window is displayed.

- Enter the IP address of the TN3270E server. In this example, the IP address is 9.24.104.285.

4. When you are done, click **OK**.

Telnet3270		X
Host <u>N</u> ame or IP Address:	9.24.104.285	
<u>B</u> ackup	[<u>A</u> dvanced
OK	Cancel	Help

You have completed the TN3270 client configuration which will enable you to connect to the TN3270E server and access an emulation screen.