Test Scenario 4

Configuring SNA-API clients, running 3270 or other LUA applications with Personal Communications

In Scenario 4, Windows NT clients want to connect to the S/390[®] host, using a 3270 emulator over LUA without installing an SNA communication stack on each of their machines.

The recommended solution is to configure:

- Communications Server for Windows NT server to support SNA API clients and their applications
- SNA API client to communicate with Communications Server
- A 3270 emulator

By doing this, employees will be able to run a 3270 emulator, while using the SNA stack on the Communications Server node to manage the session. Communications Server establishes and manages a session as though the origin were the local node, but forwards the application data to the SNA API client instead of to its own application APIs.

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

Step 1: Configure Communications Server (on the server machine)

Step 2: Define a user ID and password (on the server machine)

Step 3: Configure Communications Server SNA client (on the client machine)

Step 4: Configure Personal Communications for Windows NT (on the client machine) to begin a 3270 session

The figure accompanying Scenario 3 illustrates how Communications Server for Windows NT supports SNA API clients on Windows 95, Windows NT, Windows 3.x, and OS/2.

Scenario 4: Configuring SNA-API clients running 3270 or other LUA applications

Configure Communications Server (on the server machine)

1. Click Start on the task bar, then select:

- -Programs
- -IBM Communications Server
- -SNA Node Configuration
- 2. The Communication Server SNA Node Configuration window is displayed.
 - Select File, then select New

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<u>File</u> <u>S</u> cenarios	s <u>O</u> ptions	<u>H</u> elp				
<u>N</u> ew	Ctrl+N					
<u>0</u> pen	Ctrl+O					
<u>S</u> ave	Ctrl+S					
Save <u>A</u> s						
Recent File						
E <u>x</u> it						
I Create a new do	ocument					

3. Select Scenarios, then select SNA API Clients running 3270 or other LUA applications...

🞇 Untitled - Communications Server SNA Node Configuration	
<u>File Scenarios Options H</u> elp	
SNA <u>G</u> ateway	
IN3270E Server	
APPN Network Node	
DLUR/DLUS support for local LUs	
DL <u>U</u> R/DLUS support for downstream LUs	
AnyNet SNA over TCP/IP Gateway	
Any <u>N</u> et Sockets over SNA	
SNA API Clients running <u>A</u> PPC applications	
SNA API Clients running 3270 or other LUA applications	
CPI-C, APPC or 5250 Emulation	
Dependent LU 6.2 Sessions to a Host	
<u>3</u> 270/LUA Applications	
<u>F</u> ocal-Point	
Ad <u>v</u> anced	
Show steps for the SNA API Clients running 3270 or other LUA applic	

Configure the Node

1. Highlight **Configure Node**, then click **New**.

🔀 Untitled - Communication:	s Server SNA Node Configuration	
<u>File Scenarios Options H</u> elp		
Configuration options:		
Configure Node Configure Devices Configure the Gateway		
Description: Click on the New button to change its parameters or de	define the node. You can then view a elete it.	nd
- Node:		
	New	
	View/Change/Ac	d
	Delete	
Ready		

- 2. The Define the Node window is displayed. Select the **Basic** tab, and provide the following information.
 - Fully qualified CP name=NET1.CP1
 - Node Type=End Node
 - When you are done, click **OK**

Define the Node
Basic Advanced DLU Requester
Control Point (CP) Fully qualified CP name: NET1 CP alias:
Local Node ID Block ID: Physical Unit ID: 05D 00000
Node Type C End Node Network Node
OK Cancel ∆pply Help

Configure Devices

1. Highlight Configure Devices, then click New.

🞇 Untitled - Communications Server SN	A Node Configuration	_ 🗆 🗵
<u>F</u> ile <u>S</u> cenarios <u>O</u> ptions <u>H</u> elp		
Configuration options:		
Configure Node	DLCs:	
Configure the Gateway	COM Port SDLC-MPA SDLC-WAC	- -
Description: When you select a definition in the list bel parameters or delete it. Click on the New LAN Devices:	low, you can view and chan button to add a new definitio	ge its on.
	New	
	View/Change/Add	
	Delete	
Ready		

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

Defin	e a LAN Device			×
Bas	ic Advanced Perfor	mance		
	Port name:	LAN0_04		
	Adapter number:	0	•	
	Local SAP:	04	•	
	ОК	Cancel	Apply	Help

Configure the gateway

1. Select Configure the Gateway, then select View/ Change/Add...

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<u>File</u> <u>S</u> cena	rios <u>O</u> ptio	ns <u>H</u> elp				
- Configu	ation optior	ns:				
Config Config	ure Node ure Device	s				
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Descrip Click (then v	ion: in the View iew or char	/Change// nge its para	Add button to ameters.	define the Gat	eway. You ca	n
Gatewa						
					New	
				View/C	hange/Add	
					Delete	
Ready						

- 2. The Define a Gateway Configuration window is displayed. 4. The Define a LAN Connection window is displayed.
 - Select the Host Links tab
 - Click Create

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circulte a new hord	int defenten		

3. When the following window is displayed, click OK to accept the default DLC type.

×
Select the DLC type for your host connection.
DLC type LAN
Description
Click DK to apply the changes and close the dialog.
OK Cancel Heb

- - Enter the 12-character hexadecimal address of the S/390 host. In this example the destination address=001001001001.
 - When you are done, select the **Advanced** tab

Defin	e a LAN C	onnection			×
Bas	ic Advanc	ed∫ Security	л Л		_
	Link station	name:	LINK0000		
	Device nam	e:	LAN0_04	•	
		Discover ne	twork addresses.		
	Destinati	on address:	001001001	001	
	Remote \$	SAP:	04 💌		
	OK	Cancel		Help	

- 5. 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

I	Define a	LAN Connection	×
	Basic	Advanced Security	
	☑	Activate link at start	
		HPR support	
	Γ	APPN support	
		Auto-activate support	
		Link to preferred NN server	
		Solicit SSCP sessions	
	PU	name: LINK0000	
		ocal Node ID Block ID: Physical Unit ID: 05D 12345	
	(Cancel <u>A</u> pply Help	

6. The following window is displayed. Click **Yes** to create and assign new LUs to this link.



- 7. The following window is displayed. Enter the following information.
 - Base LU name = LU1
 - Number of LUs= 4
 - When you are done, click OK

 Hange LO definition 	ore .	C Single LU definition
lase LU name	Generated LU names:	LU name
(2-25 Lunder of LUx	0	Haat NAAJ Addeess
ermisske priotije er	()	Lill Model Type Tatrit OrsPLAY 2124 + 801
ign LLAs to pool		

8. The following window is displayed, indicating the host LUs currently assigned to the specified link definition. Click **OK** to accept the values and continue.

LU1002	3270 DISPLAY 2 (24 × 80)	2	_
LU1003 LU1004	3270 DISPLAY 2 E24 × 80 3270 DISPLAY 2 (24 × 80)	3	
LU1005	3270 DISPLAY 2 (24 × 80)	5	
4			
Deste .	Overage, Delete		
to apply on			

- 9. When the Define a Gateway Configuration property sheet is displayed, select the **SNA Clients** tab.
 - The SNA Clients page is displayed, indicating that the SNA API Client Services is supported
 - Specify the **PUBLIC** pool as the default pool for SNA API Client Services
 - When you are done, click $\boldsymbol{\mathsf{OK}}$

Define a Gateway Configuration	
Hand Lants Hout Plasts 5945 Climits	
1964 Cleant Sarvices	()
P ExdeSNA.PICleniSeven	
Defeat and its UKLAH Clear Server [FURUE]]	
	OK Cancel Help

Now that you have completed the SNA API Clients Running 3270 or other LUA Applications configuration, you will want to start the node, and then verify that the link is active.

Step2: Define a user ID and password (on the server machine)

You can restrict which SNA API clients can connect with the Communications Server by defining user IDs and passwords under the user group IBMCSAPI. Only clients using a user ID under this group will be allowed access to Communications Server.

To define a user ID (username) and password and the IBMCSAPI user group, do the following:

- 1. Invoke the User Manager for Domains application for Windows NT under Start, Programs, Administrative Tools (Common).
- 2. From the User pull down, select **New User....** Specify **Username** and **Password** (the username and password specified are case-sensitive). Click **Add**, then click **Groups**. Select **IBMCSAPI** form the groups list, then click **OK**.

3. Click Close to exit.

Step 3: Configure Communications Server SNA client (on the client machine)

First, configure the user ID and password you defined in Step 2 to give the SNA API client access to Communications Server. To perform this configuration, do the following:

- 1. On the machine select:
 - Programs
 - IBM Communications Server SNA Client
 - Configuration
- 2. The Configuration File (*.ini) COMMUNICATIONS SERVER FOR NT SNA Client Configuration window is displayed.
 - Highlight Configure Global Data, then select New...

Employee and a second	
Configure CISED Dans Configure APPC Server Las Configure CPHC Side Information Configure CPHC Side Information Configure UNA Sessions Configure EHRAPPC	
Description Dick on the New button to define the Use name. You can then view and change to Global Date	ID. pessional and Treaslation table parameters or delate it.
Description Dick on the New Sufforms define the User some. You can then view and change its Global Date	ID. personal and Treaslation table parameters or delate it. New.
Description Dick on the New Extron to define the Use some. You can then view and change its Global Deter [D. personal and Treaslation table promision or delate it.

- 3. The Define Global Data window is displayed.
 - Enter the User ID and Password exactly as you defined then on the server machine in Step 2 (they are case-sensitive)
 - When you are done, click **OK**.

Define Global Data	×
Besic	
User ID:	
user2	
Password	
Peasword:	
Contirm password:	
Translation table:	
Browse.	
Cancer 20319 Help	

- 4. Next, configure the LUA sessions, When creating the LUA definition, give a meaningful LUA session name by which this definition will be known.
- 5. Specify the TCP/IP host name or address of the Communications Server machine. Also, specify whether the session should use a dedicated LU or an LU from the default pool. If you specify that a dedicated LU be used, you must provide the LU name as configured in Communications Server. The easiest configuration is to specify that an available LU be chosen from the default pool, which was configured as the PUBLIC pool on Communications Server. If the definition requires you to specify a pool name, use PUBLIC.

To perform this configuration, do the following:

- 1. On the Configuration File (*.ini) Communications Server for NT SNA Client Configuration window:
 - Highlight Configure LUA Sessions, then select New...

Continue Clabel Cate	
Configure APPC Server List	
Configure Transaction Program	
Configure EHRIAPPC	
Description When you select a stefration in th	e list below, you can view and change its
Description When you select a stellartice in th percentation or delate it. Click on LUA Sections	e list below, you can view and change its two New betton to add a new definition
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Description When you select a solution in a permutation of delete it. Click on LUA Sessions	e fail below, you der view and thange its twe New below to edd a new definition New

- 2. The Define LUA Sessions window is displayed.
 - Specify the LUA Session Name (LUXREC, in this example)
 - Specify the TCP/IP host name or address of the Communications Server machine
 - Accept the Default pool
 - When you are done, click **OK**

Datine LUA Sections					B
UNIX					
LUA Section name:					
Server name:		LU callagory:		Specific or Pooled U.	
		Dates/Pool	•		
		Default Pool	×		
		Delaut Paol	×		
		Dates/ Post	•		
	OK.	Cerce		Assize Hel	_

This completes the configuration aspect of the SNA API client. Be sure to save your configuration before exiting the client configuration utility.

Step 4: Configure Personal Communications for Window NT (on the client machine) to begin a 3270 session

If you have not already done so, install Personal Communications for Windows NT.

- 1. To configure, click **Start** on the task bar and then select:
 - Programs
 - IBM Personal Communications
 - Start or Configure Session
- 2. The Customize Communication window is displayed. Configure as shown. When you are done, click **Configure...**

Select C	annection to His	d	
RC PC	LAN	LUQ123WeW	AU 1/200
		APPC Network	-) III A5/400
	EDM post		ASCI
		-	×
0	x	Cancel Cante	g.m. 1340

- 3. The Customize Communication-3270 Host window is displayed. Click **Configure Link...**
- 4. The LUA3270 via WinRUI API window is displayed. Enter the LU or Profile Name. This is the LUA session name used when you created the LUA session in Step 3 on the client. In this example, we specified LUXREC.

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5. When you are done, click **OK**. The Personal Communications configuration is complete, and you are ready to log on to the S/390 host.