Test Scenario 3

Configuring SNA-API clients running APPC applications with Personal Communications

In Scenario 3, Windows NT clients want to connect to a AS/400 host, using a 5250 emulator over APPC without installing an SNA communication stack on 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 5250 emulator

By doing this, employees will be able to run the 5250 emulator while using the SNA stack on the Communications Server node to manage the session. Communications Server establishes and manages a session as if 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 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 eNetwork Personal Communications for Windows NT (on the client machine) to begin a 5250 session

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



TCP/IP-attached SNA API clients

Scenario 3: Configuring SNA-API clients running APPC applications with Personal Communications

Step 1: 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 Communications Server SNA Node Configuration window is displayed.
 - Select File, then select New

🎇 Untitled - Communi	cations Server SNA Node Configuration	_ 🗆 🗵
File Scenarios Options	<u>H</u> elp	
<u>N</u> ew Ctrl+N		
<u>O</u> pen Ctrl+O		
<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 SNA API Clients running APPC applications....

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<u>F</u> ile	<u>S</u> cenarios	<u>O</u> ptions	<u>H</u> elp	
	SNA <u>G</u> at IN32706 APPN No DLUR/D DLUR/D AnyNet <u>S</u> SNA API SNA API <u>SNA API</u> <u>SNA API</u> <u>C</u> PI-C, AI <u>D</u> epende <u>3</u> 270/LU <u>E</u> ocal-Po	eway E Server etwork No LUS supp LUS supp NA over 1 Sockets ov Clients ru Clients ru Clients ru Clients ru Clients ru Clients ru Clients ru A Applicat	de ort for local LUs ort for downstream LUs ICP/IP Gateway rer SNA nning <u>APPC applications</u> nning <u>3270 or gther LUA applications 50 Emulation Sessions to a Host ions</u>	
	Ad <u>v</u> ance	:d		
Show	steps for th	e SNA API	Clients running APPC applications scena	

Configure the Node

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

🎇 U	ntitled - Co	ommunic	ations	Server	SN/	Node	Configu	ation	_ 🗆	×
<u>F</u> ile	<u>S</u> cenarios	<u>O</u> ptions	<u>H</u> elp							
Γ	Configuration	n options: -								1
	Configure I Configure I Configure I Configure I Configure I Configure I	Node Devices He Gatew Connectior Local LU 6 Partner LU	ay ns i.2 6.2			▲ ▼				
	Description: - Click on the change its	e New but parameter	ton to c s or del	lefine the ete it.	e node	e. You c	an then vi	iew and		
Г	Node:									1
							New.			
						Vie	ew/Chang	je/Add		
							Dele	ie		
Read	ly									

- 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 End Node Network Node	
Cancel Apply	Help

Configure Devices

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

💒 Untit	led - Co	ommunic	ations S	erver SN	A Node (Configuration	_ 🗆 🗵
<u>File</u> <u>S</u> ce	enarios	<u>O</u> ptions	<u>H</u> elp				
Confi Confi Co Co Co Co Co Co	iguration nfigure I nfigure I nfigure C nfigure L nfigure F	options: - Node Devices he Gatew Connectior Local LU 6 Partner LU	ay ns i.2 6.2			DLCs: LAN COM Port SDLC-MPA SDLC-WAC	
Desc Wł par LAN	cription: - nen you rameters Devices	select a de or delete i	efinition ir it. Click (n the list bel on the New	ow, you ca button to a	an view and ch add a new defi	ange its nition.
						New	
					Vie	w/Change/Ad	d
						Delete	
r Ready							

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

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

Configure the Gateway

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

🔀 Untitled - Communications Server SNA	Node Configuration
<u>File Scenarios Options H</u> elp	
Configuration options:	
Configure Node Configure Devices	<u> </u>
Configure Connections Configure Local LU 6.2	
Configure Partner LU 6.2	
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. 2. The Define a LAN Connection window is displayed.
 - Ensure that Enable SNA API Client Services is checked
 - Click OK

Define a Gateway Configuration	×
SNA Clients	
SNA Client Services	
Enable SNA API Client Services	
Default pool for SNA API Client Services	
Cancel Apply Help	

Configure Connections

1. Select **Configure Connections**, then click **New**.

🔀 Untitled - Communications Server SN	A Node Configuration	_ 🗆 ×
<u>File Scenarios Options H</u> elp		
Configuration options:		
Configure Node Configure Devices Configure the Gateway Configure Connections Configure Local LU 6.2	DLCs:	▲ ▼
Description: When you select a definition in the list bel parameters or delete it. Click on the New	ow, you can view and chan; button to add a new definitio	geits on.
LAN Connections:		
	New	
	View/Change/Add	
	Delete	
Ready		

- - Select the Basic tab
 - Enter the 12 character hexadecimal address of the AS/400 host. In this example the destination address = 001001001001.
 - Click OK

Defin	e a LAN Connection		×
Basi	ic Advanced Securit	y]	1
	Link station name:	LINK0000	
	Device name:	LAN0_04	- I
	Discover ne	etwork addresses	
	Destination address:	001001001001	
	Remote SAP:	04 💌	
	OK Cancel	Apply	Help

3. The Communications Server SNA Node Configuration window is displayed. Click the X in the upper right corner of the window.

Muntitled - Communications Server SNA	Node Configuration
<u>File Scenarios Options H</u> elp	
Configuration options:	
Configure Node Configure Devices	
Configure Connections Configure Local LU 6.2	SDLC-MPA SDLC-WAC
Configure Partner LU 6.2	
Description: When you select a definition in the list belo parameters or delete it. Click on the New I	w, you can view and change its outton to add a new definition.
LINK0000	New
	View/Change/Add
	Delete
Ready	

4. The following window is displayed. Select **Yes** to save the changes.



5. The Save As window is displayed. Save the file as **snacl.acg**.

Save As					? ×
Save jn:	😋 Private	•	£	<u>e</u> ż	
🖉 Cswnt01					
Nodea					
Nodeb					
Nodec					
File name:	snacl.acg			ſ	Save
			_	<u></u>	
Save as <u>t</u> ype:	Configuration Files (*.acg)		–		Cancel

6. When the following window is displayed, select **Yes** for this configuration to be the default.



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

Step 2: 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:

- Invoke the User Manager for Domains application for Windows NT under Start, Programs, Administrative Tools (Common).
- 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 from the groups list, then click OK.
- 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 client 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...

Configuration Options:		
Configure Gristel Dame Configure CPPC Server List Configure CPPC Selver List Configure Transactice Programs Configure U.A Sessions Configure EHNAPPC		
Description		
Clock on the New Eufloy to define the User some. You can this view and change to p Global Claim	ID, ges sword and Treesleton table commeters or delate it.	
Dick on the New Sution to define the User some. You can then view and change its p Global Data:	D. persiveril and Trenslation table assemblers or delate it. New .	1
Clob on the New Extends to define the User same. You can thus view and change to p Global Date:	D. personal and Tresslation table comments or defense t]
Clock on the New Sution to define the User some. You can then view and change its p Global Clease	D. persiverillend Tressletion table association of close it. New .	

3. The Define Global Data window is displayed.

- Enter the User ID and Password exactly as you defined them on the server machine in Step 2 (they are case-sensitive)
- 5. To perform this configuration, do the following: On the Configuration File (*.ini) - Communications Server for NT SNA Client Configuration window:

- When you are done, click OK

Bitterse

4. Next, configure the APPC server list. When configuring the 6. The Define APPC Server list window is displayed. server location, specify either the TCP/IP host name or address of the Communications Server machine. This will direct the SNA API client to that machine when requesting services from Communications Server.

- Highlight Configure APPC Server List, then select New...

	00
Configure APPC Server List Configure CPPC Side Information Configure Transactice Programs Configure UUA Sessions Configure EHNAPPC	
Description Click on the New button to define the APPC change its parameters or define it UPPC Server List	Server list. You can then view and Naw
Description Click on the New button to define the APPC change its parameters or defene it IPPC Server List	Server list: You can then view and

- - Specify either the TCP/IP host name or address of the Communications Server machine

Define Al	PPC Server list
Basic	
	Bervers
1:	9.24.67.0
2:	
3:	
4:	
0	K Cancel Argity Help

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

Windows NT (on the client machine) to begin a 5250 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 Communications window is displayed. Configure as shown. When you are done, click Configure....

Customize Commun	ication			×
-Select Connection 6 Interface	hind Atache	nent		4gat .
		— APPC Newak 5250		S/296 AS/400
СК	<u>حا</u> Eav	cel Cartos	×	Beb .

- Step 4: Configure Personal Communications for 3. When the Customize Communications 5250 Host window is displayed, click **Configure Link...**. The following window is displayed.
 - Enter the AS/400 Partner LU alias or Fully-qualified name
 - When you are done, click **OK**

5250 via WinAPPC API				
PC Local LU	AS/400 Partner LU	Refer to by:		
	Auto <u>R</u> ecovery	Refresh LU <u>D</u> efinitions		
OK	Cancel	<u>H</u> elp		

4. The configuration is completed, and you are ready to log on to the AS/400 host.