How to Install the Virtual Control Panel

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What is the Virtual Control Panel?

The **Virtual Control Panel** (hereafter referred to as VCP) is one of the ways to get remote control panel (RCP) functions on the PC. This is accomplished by using the directly-cabled console's serial cable and connection. There is no requirement for network adapters on the PC or server. You will, however, create a configuration that uses the network path in the Operations Console install wizard. If your console uses the network connectivity already, you should not be using the VCP but rather the already available remote control panel option available for that configuration.

The VCP is not a replacement for the parallel-connected remote control panel (P/N 04N5592 a 25-pin cable) but rather an alternative. You will need to remove the parallel RCP cable, if it is installed. If you are using the serial-connected RCP cable (P/N 97H7591 a 9-pin cable) continue to use it . The VCP allows nearly all the same functions as the RCP but due to its connectivity, it cannot, for example, be used to power on a system. The Graphical User Interface (GUI) is the same as the RCP, only the connectivity is different. The VCP function will work with the V5R1 Client Access Express, or later, client communicating to a V5R1, or later, server.

The VCP will use a TCP/IP connection on the Operations Console cable. Because of this, the directly-cabled console must be connected to the iSeries in order for the VCP to function. The VCP can not be used to replace a parallel-connected RCP <u>only</u> configuration. You <u>will</u> have to have a directly-cabled console configured in order to use the VCP. The VCP will require an <u>additional</u> configuration.

Be certain to read the **Before you begin** section for a list of the requirements and limitations that the VCP may have for your environment.

This document is written specifically for a V5R2 client and server. If you are using a V5R1 client and server you should be using the document written for V5R1.

Before you begin

There are no requirements for PTFs on the server, at this time.

It is not required, but is recommended, that you install SI04684 (SP1) for the V5R2 client. The latest service pack can be found at:

http://www.ibm.com/servers/eserver/iseries/clientaccess/casp.htm

or

ftp://ftp.software.ibm.com/as400/products/clientaccess/win32/v5r2m0/servicepack

Limitations:

- The VCP is only available while the console is connected.
- You <u>must</u> remove the parallel remote control panel cable before configuring the VCP connection.
- A <u>unique</u> service tools device ID <u>must</u> exist for <u>each</u> VCP configuration.

For example, you have connected a PC named **console** to **server1** using a direct cable and you now want to configure a VCP. If no Operations Console (LAN) configuration exists to this server then the service tools device ID **QCONSOLE** has not been used. Therefore, you can specify **QCONSOLE** when you configure the VCP.

Another example would involve a cabled console called **console** that shares the duties as a console with other LAN-connected Operations Console PCs named **LAN1** and **LAN2**. In this example **LAN1** used the service tools device ID **QCONSOLE** during setup and **LAN2** used a user-created service tools device ID of **QCONSOLE2** during its setup. For the intended VCP configuration you must create another service tools device ID, such as **QCONSOLE3** to be specified when you configure the VCP.

- You cannot use an <u>existing</u> network name When you create the additional VCP configuration, you cannot reuse a configuration name. For example, if you have a configuration named **server1** you cannot name the VCP **server1**. Also, if the intended VCP-capable PC is on a network, you cannot use any name that already exists on that network.
- All VCP / RCPs are active at the same time
 If you have multiple PCs (LAN connected) that can become the console, one at a time, and those
 configurations also use the remote control panel functions, all active RCPs can control the server. Use
 care when working with control panel functions when multiple PCs have access to the functions.
- RCS connections to an LCS with remote access are <u>not</u> supported at this time.
- An alternative for powering on the system at a later time, instead of using a cabled remote control panel, can be provided using the IPL scheduling function in Operational Assistant, available in OS/400 by pressing the **Attention** key. You can also use the OS/400 command **go power** and select the option **Change power on and off schedule**.
- The **hosts** file on the PC may need manual cleanup Each time you create a network configuration on the PC, data is saved in a file called **hosts**. This file may be used each time the PC attempts to connect to the network and each entry is unique to any others by the connection name. Be aware that, currently, if you delete a VCP configuration the corresponding **hosts** entry is <u>not</u> deleted. You must manually delete the appropriate line from this text-based file using any text editor.
- If you have a server model that uses the keystick, the **mode** button will work with the same functions as the physical control panel, depending on whether the keystick is inserted or not.
- The service tools user ID used to authenticate the connection must have the Partition remote panel key privilege in order to use the mode function provided by the VCP. Service tools user IDs QSECOFR, QSRV, 22222222, or 11111111 already have this permission by default. If you plan to use a user ID other than the defaults, see "Check user ID for permissions", below, for instructions on how to check for the privileges.

Note: Systems with a keystick require the keystick inserted before the user is eligible to use the mode button. For example, the user has the remote panel key privilege but won't have the mode function available until the keystick is present. For systems without the keystick, the user ID being used would only require the remote panel key privilege.

What needs to be done

Follow the instructions below to prepare for and install the virtual control panel:

Using existing console, create a service tools device ID to use

The VCP requires an available, unused service tools device ID. If the server does **not** use Operations Console (LAN) for the console type, you can use the existing service tools device ID of **QCONSOLE**. To check for the console type follow these instructions:

- Start Dedicated Service Tools (DST) to check the console type or create a service tools device ID. To enter DST, either IPL in manual mode or enter function 21 on the control panel. Use the most appropriate method for you by following <u>one</u> of the following steps:
 - To perform a manual IPL, follow these steps:
 - a. Power down the system if it is powered on.
 - Look at the Function/Data display on the iSeries control panel. Systems with a keystick should show the mode as Manual and 01 B in the Function/Data display. Systems <u>without</u> a keystick should show 01 B M.

Note: If the Function/Data display is not lit the system does not have power.

- c. If the system is already set to **B M** or **Manual** go to step h. Otherwise, continue with step d to set the system to manual mode.
- d. Press the **Up** or **Down** button until **02** appears in the Function/Data display. If your system uses a keystick, select **Manual** by using the **Mode** button.
- e. Press the Enter button on the iSeries control panel.
- f. Press the **Up** or **Down** button until **B M** appears in the Function/Data display. If your system uses a keystick, select **B**. The Function/Data display should show **02 B** or **02 B M**.
- g. Press the Enter button on the iSeries control panel.
- h. Press the **Power** button on the iSeries control panel to power on the server, or start an IPL if the system was already in use.

When the IPL has reached the appropriate step you will see the IPL or Install the System window. Select the option Use Dedicated Service Tools (DST) and sign on using a user ID that has security authority, like QSECOFR.

- To perform a function 21 at the control panel, follow these steps:
 - a. Sign off the console 5250 session first leaving the screen at the AS/400 signon since your current session will end when you perform the function 21.
 - Look at the Function/Data display on the iSeries control panel. Systems with a keystick should show the mode as Manual and 01 B in the Function/Data display. Systems <u>without</u> a keystick should show 01 B M.

Note: If the Function/Data display is not lit the system does not have power.

- c. If the system is already set to **B M** or **Manual** go to step d. Otherwise, use the instructions above to set the system to manual mode.
- d. Press the Up or Down button until 21 appears in the Function/Data display.

e. Press the Enter button on the iSeries control panel.

The console should show the **Dedicated Service Tools (DST) Sign On** window momentarily. Sign on using a user ID that has security authority, like **QSECOFR**.

2. You should be here:



3. Select Work with DST environment (option 5).



4. Select Service tools device IDs (option 5).

Session A - IOSSVT9E.ws - [24 x 80]	
<u>File Edit View Communication Actions Window Help</u>	
	<i></i>
Work with Service Tools Device IDs	Custors 04040404
Type option, press Enter. 1=Create 2=Reset password 3=Delete 4=Display 5=Enable 6=Disable 7=Change attributes 8=Change description	System: Sidijium
Opt Device ID Description	Status
QCONSOLE QCONSOLE	Enabled
F3=Exit F5=Refresh F12=Cancel	
MA a	09/003
G ¹ Connected to remote server/host 127.0.0.1 using port 1*	

5. Enter a 1 next to the empty Device ID field, then, enter a name to call the VCP, similar to the next

example window:

Session A - IOSSVT9E.ws - [24 x 80]	
<u>File Edit View Communication Actions Window Help</u>	
	<i></i>
Work with Service Tools Device IDs	Sustem: \$10131CM
Type option, press Enter. 1=Create 2=Reset password 3=Delete 4=Display 5=Enable 6=Disable 7=Change attributes 8=Change description	System. Sibision
Opt Device ID Description	Status
<u>1 VCP</u> QCONSOLE	Enabled
F3=Exit F5=Refresh F12=Cancel	
M <u>A</u> aa	09/010
Connected to remote server/host 127.0.0.1 using port 1*	

6. Press Enter. You will get:

Session A - IOSSVT9E.ws - [24 x 80]	_ 🗆 ×
<u>File Edit View Communication Actions Window H</u> elp	
Create Service Tools Device ID	\$10131CM
Service tools device ID name YCP	0101010
Type choices, press Enter Password	
Password (to verify)	
Description	
F3=Exit F5=Change attributes F12=Cancel	
MA a	06/047
Connected to remote server/host 127.0.0.1 using port 11	

7. Enter a password into both password fields. Optionally, enter a description.

Session A - IOSSVT9E.ws - [24 x 80]	_ 🗆 🗵
<u>File Edit View Communication Actions Window H</u> elp	
Create Service Tools Device ID	\$10131CM
Service tools device ID name YCP	51015100
Type choices, press Enter Password	
Password (to verify)	
Description <u>Device ID for virtual co</u> el	introl pan
F3=Exit F5=Change attributes F12=Cancel	
MA a	13/004
Connected to remote server/host 127.0.0.1 using port 1	

8. Press Enter and you will be taken back to:

Session A - IOSSVT9E.ws - [24 x 80]	
<u>File Edit View Communication Actions Window Help</u>	
🖸 🗈 🗈 🛲 🖽 🔳 🛥 🐱 💩 🏜 🗳	<i></i>
Work with Service Tools Device IDs	Sustem: S10131CM
Type option, press Enter.	system. Sibision
1=Create 2=Reset password 3=Delete 4=Display 5=Enable 6=Disable 7=Change attributes 8=Change description	
Opt Device ID Description	Status
QCONSOLE QCONSOLE VCP DEVICE ID FOR VIRTUAL CONTROL PANEL	Enabled Enabled
F3=Exit F5=Refresh F12=Cancel	
M <u>A</u> aa	09/003
Connected to remote server/host 127.0.0.1 using port 1	

9. You have now created a device ID for the VCP connection from one PC. You can use **PF3** to go back to the DST main menu.

Check user ID for permissions

If you are using a service tools user ID other than **QSECOFR**, **QSRV**, **22222222**, or **111111111** for use with the VCP, you have to set the service tools user privileges for **Partition remote panel key** to allow access to the mode function. To verify or set this service tools user privilege, do the following:

1. Go to the DST main menu if you are not already there.



2. Select Work with DST environment.

© Session A - IOSSVT9E.ws - [24 x 80]	
<u>File E</u> dit <u>View</u> <u>Communication</u> <u>Actions</u> <u>W</u> indow <u>H</u> elp	
🖻 🗈 🗈 📾 📾 📾 🔳 🚳 🏈 🚽	
Work with DST Environment	»• \$10131CM
Select one of the following:	
 Active service tools System devices Service tools user IDs System values Service tools device IDs Service tools security data 	
Selection	
F3=Exit F12=Cancel	
MA a	21/007
Connected to remote server/host 127.0.0.1 using port 11	

3. Select Service tools user IDs.

© Session A - IOSSVT9E.ws - [24 x 80]	
<u>File Edit View Communication Actions Window Help</u>	
	<i></i>
Work with Service Tools User IDs	Sustem: S10131CM
Type option, press Enter. 1=Create 2=Change password 3=Delete 4=Display 5=Enable 6=Disable 7=Change privileges 8=Change description	040101010101
Opt User ID Description	Status
OSECOFR QSRYOSECOFR QSRYTTESTER11111111111111112222222222222222F3=ExitF5=RefreshF12=Cancel	Enabled Enabled Enabled Enabled
MA a	13/003
Connected to remote server/host 127.0.0.1 using port 1	

4. Move the cursor to the user you want to verify or set the privileges for and place a 7 on the same line,

followed by Enter.

Session A - IOSSVT9E.ws - [24 x 80]	_ 🗆 ×
<u>File E</u> dit <u>View</u> <u>Communication</u> <u>Actions</u> <u>Window</u> <u>H</u> elp	
	٠
Change Service Tools User Pri	vileges Sustem: S10131CM
Service tools user ID name TESTER	5g5tem. 5161516h
Type option, press Enter. 1=Revoke 2=Grant	
Option Functions	Status
None	Revoked
_ Disk units - operations	Granted
_ Disk units - administration	Granted
System partitions - operations	Granted
	Granted
Partition remote namel key XXXXXXXX 1	Granted
Partition remote panel key XXXXXXXX 2	Revoked
Partition remote panel key XXXXXXXX 3	Revoked
Partition remote panel key XXXXXXXX 4	Revoked
Partition remote panel key XXXXXXXX 5	Revoked
Partition remote panel key XXXXXXXX 6	Revoked
_ Partition remote panel key XXXXXXXX 7	Revoked
	More
F3=Exit F5=Reset F9=Defaults F12=Cancel	
M <u>A</u> a	09/004
💬 Connected to remote server/host 127.0.0.1 using port 11	11.

Since the VCP is only being used for independent systems (non-LPAR environment) or the primary partition, you only have to verify or set the privilege for the **Partition remote panel key XXXXXXX** 000 entry. The example above shows that entry as **Granted** for user **TESTER**. Place a 2 on the line for partition 000, followed by **Enter** to grant permission to the mode functions.

Note: Systems with a keystick require the keystick inserted before the user is eligible to use the mode button. For example, the user has the remote panel key privilege but won't have the mode function available until the keystick is present. For systems without the keystick only the user ID **remote panel key** privilege is necessary.

6. You can now exit back to the DST main menu. Additionally, you can exit DST or IPL depending on how you entered DST.

Change current configuration to console only

If your current Operations Console connection configuration includes the remote control panel, use the following steps to configure the connection for just the console. If the console is currently the only function being provided, skip this section and continue with "Create new configuration for Virtual Control Panel."

- 1. To remove the remote control panel from the configuration the connection status must be **Disconnected**. To disconnect the configuration, follow these steps:
 - a. If your local controlling system (LCS), or local console, is running in unattended mode and you have not requested control, do the following to get iSeries control:
 - 1) Select the configuration name (under **AS/400 Connection**). This is the name that Operations Console uses to refer to a specific iSeries server.
 - 2) From the **Connection** menu, click **Request Control**.
 - b. If the Service Device Sign-on window appears, click Cancel.
 - c. Select the configuration name (under **AS/400 Connection**). This is the name that Operations Console uses to refer to a specific iSeries server.
 - d. From the **Connection** menu, click **Disconnect**. The connection status shows **Disconnecting** until it completes with a status of **Disconnected**.

📰 iSeries Operations Consc	ble		
<u>Connection</u> <u>View</u> <u>H</u> elp			
• • • • • • • •	ìi		
iSeries Connection	Status	Current User / System Name	Local Console
SYSTEM1	Disconnected	SERVER	rchsvt06
ļ			
			11.

2. Select the configuration name that you want to change.

📰 iSeries Operations Conse	ble		
<u>C</u> onnection <u>V</u> iew <u>H</u> elp			
1 8 17 10 🗉 🗉	ì i 🖉 🗙		
iSeries Connection	Status	Current User / System Name	Local Console
SYSTEM1	Disconnected	SERVER	rchsvt06
<u> </u>			
			11.

3. From the **Connection** menu, click **Configure Connection**. The values for the current configuration are going to be presented to you.

Configure iSeries Operations Console - Welcome SYSTEM1



X

4. Click Next.



Note: If the window asking about prerequisites appears, click Yes.

Configure iSeries Operations Console - Select Config	guration - SYSTEM1 🛛 🗙
Configure iSeries Operations Console - Select Config Choose the configuration that best meets your console needs Click through the choices for more details about each. Configurations Configurations Local console directly attached to the server Cocal console directly attached with remote access allowed Cocal console on a network (LAN) Cocal console through dial-up support Remote console through dial-up support	guration - SYSTEM1 Is.
The PC is connected directly to the iSeries server. Special of for the console and control panel functions.	cables are required
< <u>B</u> a	ack <u>N</u> ext > Cancel Help

Note: Your configuration may have the option Local console directly attached with remote access allowed selected.

5. Click Next.



- 6. Select Console only.
- 7. Continue clicking **Next** without changing any other values until you arrive at the **Configuration Complete** window.

Configure iSeries Operations Co	onsole - Complete - SYSTEM1 🛛 🗙
	You have completed the steps to configure a local console directly attached to the server.
	Click Finish to save the configuration information.
	To ensure your connection is configured correctly, go to the Operations Console window, select the connection name, and click Connect.
	< <u>B</u> ack Finish Cancel Help

8. Click **Finish** to complete the configuration and save the change.

📰 iSeries Operations Consc	ole		
<u>C</u> onnection <u>V</u> iew <u>H</u> elp			
1 P 17 10 🗉 🗉	ì i 🖉 🗙		
iSeries Connection	Status	Current User / System Name	Local Console
SYSTEM1	Disconnected	SERVER	rchsvt06
			1.

Create new configuration for Virtual Control Panel

Use the following instructions to create a new connection configuration specifically for the virtual control panel.

1. From the **Connection** menu, click **New Connection**.



2. Click Next.



Note: If the window asking about prerequisites appears, click Yes.



3. Leave the option Local Area Network (LAN) selected and click Next.

Configure iSeries Operations Console - Select System Type



X

4. Click Next.



5. Select Remote Control Panel only, then click Next.

Configure iSeries Operations Console - Specify Connection Name				
	What name do you want to use to refer to this Operations Console connection? Connection name			
	< <u>B</u> ack <u>N</u> ext> Cancel Help	P		

6. Enter a name to refer to your VCP connection.

Note: If the PC you are working with is connected to a network, do <u>not</u> use a name that can be found on that network.

Configure iSeries Operations Cons	ole - Specify Connection Name	×
	What name do you want to use to refer to this Operations Console connection? Connection name VCF	
	< <u>B</u> ack <u>N</u> ext > Cancel Help	>

7. Click Next.

Configure iSeries Operations Cons	ole - Spec	cify Interface I	nformation - V	СР	2	×
	What is t you are n	he TCP/IP inform haking a service (ation and serial r connection?	number of the syste	m to which	
	iSeries se	ervice host name:		VCP		
	Service T	CP/IP Address:				
	Service s	ubnet mask:		255.255.255.0		
	Service <u>c</u>	jateway address	1:			
	Service <u>c</u>	jateway address (2:			
	iSeries se	erial number:				
						_
		< <u>B</u> ack	<u>N</u> ext ≻	Cancel	Help	J

8. If the **Service TCP/IP Address** field contains a value, you will have to use the **Back** button and enter another name. The name you used was found on your network. If no TCP/IP address is listed, enter **192.168.0.2**.

Note: In some cases, the address **192.168.0.n** may have been previously used for something other than Operations Console. In those cases the user may have had to use a different base address for Operations Console such as **192.168.1.n**. If so, use the base address currently assigned to Operations Console, but make the last value a **2**. For example, use **192.168.1.2**. To check the current base address, use **regedit** (or other registry editing program) and navigate to:

🍻 Registry Editor			_ 🗆 ×
<u>R</u> egistry <u>E</u> dit <u>V</u> iew <u>H</u> elp			
My Computer HKEY_CLASSES_ROOT HKEY_CURRENT_USER HKEY_LOCAL_MACHINE HKEY_LOCAL_MACHINE HARDWARE GOVERNME Classes Classes GOVERNME GOVERNME		Name (Default) Auto Connect Console Connected Console Port Console Port Speed Console Port Speed Control Panel Port Connected Control Panel Connected Connected P Address Console Port Speed Console Port Speed Cons	Data (value not set) "no" "async" "yes" "COM1" "115200" "" "no" "192.168.0.2" "attended" "no"
My Computer\HKEY_LOCAL_MACHINE\SOFTWARE\IBM\C	Client	Access\CurrentVersion\A	S400 Operations 🏼 🎢

Use the IP address reported on your PC for the VCP address.

Configure iSeries Operations Cons	ole - Specify Interface Information - V(CP ×
	What is the TCP/IP information and serial n you are making a service connection?	umber of the system to which
	iSeries service host name:	VCP
	Service TCP/IP Address:	192.168.0.2
	Service subnet mask:	255.255.255.0
	Service gateway address 1:	
	Service gateway address 2:	
	iSeries serial number:	
	< <u>B</u> ack <u>N</u> ext >	Cancel Help

9. Enter the value of **0.0.0.0** in the **Service gateway address 1** field.

You are not required to enter anything in the Service gateway address 2 field.

Now, enter a serial number in the **iSeries serial number** field. This does **not** have to be the real system serial number, however.

Configure iSeries Operations Cor	sole - Spec	cify Interface I	nformation - V	СР	×
	What is t	he TCP/IP inform	ation and serial r	number of the syste	em to which
	you are n	naking a service (connection?		
	iSeries se	ervice host name:			
	Service I	UP/IP Address:		192.168.0.2	
	Service s	ubnet mask:		255.255.255.0	
	Service <u>c</u>	ateway address "	1:	0.0.0.0	_
	Service <u>c</u>	jateway address :	2:	10.12245	
	IDenes se	alai number.		10-12345	
		< <u>B</u> ack	<u>N</u> ext >	Cancel	Help

Note: The window example above would represent a typical VCP configuration.

10. Click Next.

Configure iSeries Operations Console - Specify Service Device ID - VCP					
	To use restricted iSeries functions securely using a LAN connection, you must specify the following information. This protects access to iSeries service functions such as the console and remote control panel. For new configurations, QCONSOLE can be used as the default. For existing configurations, this information must match the corresponding service device ID and password on the iSeries server.				
	Service device ID for this PC: VCP]			
P 120.2128mmen.m.	Password:]			
	Confirm password:]			
	< <u>B</u> ack <u>N</u> ext > Cancel Help				

11. Enter the name of the device ID you will be using for the VCP connection authentication. By default, as explained above, you can use **QCONSOLE** if it hasn't been used. Otherwise, if you created a specific device ID, enter the name and password you assigned it during the creation process. Then, click **Next**.

Configure iSeries Operations Console - Specify Access Password - VCP					
	On the previous panel you specified the Operations Console service device ID and password on the PC. Now you need to specify a password to protect the console service device ID. You will use this password every time you start Operations Console and make a LAN connection to the server.				
	Access Password for O New Password: Confirm password:	peration Console Service Device ID			
	< <u>B</u> ack	<u>N</u> ext > Cancel	Help		

12. Enter a password and a second time to confirm it. This password is only used by the PC for the VCP connection and is not known at the server. If, for example, you entered **access** as the password you will use **access** later to sign on. Now, click **Next**.

Configure iSeries Operations Console - Complete - VCP Image: Complete - VCP You have completed the steps to configure a local console on a network (LAN). Click Finish to save the configuration information. To ensure your connection is configured correctly, go to the Operations Console window, select the connection name, and click Connect. (ABACK_Finish_Cancel_Help

13. Click Finish.

📰 iSeries Operations Consc	ble		
<u>C</u> onnection <u>V</u> iew <u>H</u> elp			
1 P 17 10 🗉 🗉	ì i 🖉 🗙		
iSeries Connection	Status	Current User / System Name	Local Console
SYSTEM1	Disconnected	SERVER	rchsvt06
	Disconnected	SERVER	rchsvt06

You have now completed the configuration for the VCP connection. Start a connection for the console (your original connection).

Service Device Sign-	on SYSTEM1	? ×
	Service tools user: Password:	11111111 ******* OK Cancel Help

Sign on normally, if necessary, then, wait for the console window to appear.

Session B - SYSTEM1.ws - [24 x 80]	_ 🗆 ×
<u>File Edit View Communication Actions Window Help</u>	
Dedicated Service Tools (DST) Sign On	\$10131CM
Type choices, press Enter.	01010101
Service tools user Service tools password	
E3-Evit E5-Change password E12-Cancel	
MA	05/047
Generated to remote server/host 127.0.0.1 using port 12	

Now you can connect the VCP connection.

Service Device Sign-on VCP		? ×
	Access password: Service tools ID Service tools user: Password:	
12 Elis Cliffornia action	OK Cancel He	lp

You will get the **Service Device Sign-on** window with an extra field. The **Access password** field is where you enter the password you chose for use when authenticating. If you remember the example used earlier, the password I chose was **access**. Enter the password you used in the **Specify Access Password** window.

Service Device Sign-on V	/CP			? ×
	Access password: ***** Service tools ID Service tools user: Password:	11111111 MXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	Cancel	Help

In this example, the following was entered:

access

11111111

11111111

Now, click OK.



If everything went correctly, you will be rewarded with the virtual control panel, as shown above. This is the exact same graphics that you would have gotten if you were to have used a cable to connect to the remote control panel. The only difference would be function.

Potential Problems

The following items are possible problems and how to correct them.

Authentication errors

Something that could happen is a failure to authenticate.



This message typically means that the access password you entered in the **Service Device Sign-on** window is not the same as the password you entered in the **Specify Access Password** window during the configuration wizard. In the example above it was **access**. Make sure that the Caps Lock is not active and re-enter the access password using the password you assigned, taking into account any case sensitivity you may have used.

Another authentication problem is a failure to connect the VCP.

iSeries ()	perations Console 🛛 🕅
	Remote control panel connection to VCP failed. Do you want to try again?
	<u>Y</u> es <u>N</u> o

This is an indication that the Service Tools Device ID password is incorrect:

If this is the case, then the Service Device ID password stored on the PC no longer matches the value stored on the server. The password assigned to the Service Device ID during the configuration wizard on the PC must match the password assigned to the service device ID on server. If you used the **QCONSOLE** device ID then both the PC and server must have the password set to **QCONSOLE**. If you created the device ID on the server, such as the example used in these instructions of **VCP** then the password assigned on the PC should also have been **VCP**. Each time you authenticate successfully this password is re-encrypted to a new value and stored on both sides of the connection. In rare cases this password gets out of synchronization and you will need to reset the value back to the original default values on both the PC and the server. For detailed instructions on how to do this, refer to the Information Center article **Resynchronize the PC and service tools device ID password** located at:

http://www.ibm.com/eserver/iseries/infocenter

Then select:

Connecting to iSeries -> What to connect with -> Operations Console -> Manage Operations Console -> Manage your local console on a network -> Resynchronize the PC and service tools device ID password