

Dial-Up Settings



This document describes how to configure a station to receive an incoming call (Server Station) triggered from a remote station (Client Station), running Studio/CEView application. It also explains how to configure the Studio/CEView application in order to execute the DialUp connection.

Studio/CEView provides some functions to trigger the DialUp connection from the Client Station. The Server Station must be previously configured to receive an incoming call. The operating system of the Server Station must provide a RAS Server (Remote Access Service Server) to receive the incoming call.

II. Server Station Settings (Incoming Call – RAS Server):

II.1. Run the Windows dialog "Network and Dial-up Connection";

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II.2. Click on the icon "Make New Connection" and press the button "Next" in the "Network Connection Wizard";



II.3. Select the option "Accept Incoming Connections" and press the button "Next";

Network Connection Wizard				
Network Connection Type You can choose the type of network connection you want to create, based on your network configuration and your networking needs.				
Dial-up to private network Connect using my phone line (modem or ISDN).				
Dial-up to the Internet Connect to the Internet using my phone line (modem or ISDN).				
Connect to a private network through the Internet Create a Virtual Private Network (VPN) connection or 'tunnel' through the Internet.				
 Accept incoming connections Let other computers connect to mine by phone line, the Internet, or direct cable. 				
Connect directly to another computer Connect using my serial, parallel, or infrared port.				
< <u>B</u> ack <u>N</u> ext > Cancel				



II.4. Select the modem connected to your Win2k station (this modem must be connected directly to the phone line – no PABX) and press the button "Next";

Network Connection Wizard
Devices for Incoming Connections You can choose the devices your computer uses to accept incoming connections.
Select the check box next to each device you want to use for incoming connections.
Sircom Cardbus Ethernet 100 + Modem 56 (Modem Interface) J Direct Parallel (LPT1)
P <u>r</u> operties
< <u>B</u> ack <u>N</u> ext > Cancel

II.5. Select the option "Do not allow virtual private connection" and press the button "Next";

Network Connection Wizard
Incoming Virtual Private Connection Another computer can create a virtual private connection to your computer through the Internet or another public network.
Virtual private connections to your computer through the Internet are possible only if your computer has a known name or IP address on the Internet.
Choose whether to allow virtual private connections:
Allow virtual private connections
Do not allow virtual private connections
< <u>B</u> ack Next> Cancel



II.6. Create Users and Passwords (e.g.: UserName=Administrator; Password=mypass) and make sure this user is checked on the list "Users allowed to connect". Press the button "Next";

Network Connection Wizard
Allowed Users You can specify which users can connect to this computer.
Select the check box next to the name of each user you want to allow to connect to this computer. Note that other factors, such as a disabled user account, may affect a user's ability to connect.
Us <u>e</u> rs allowed to connect:
✓ ● Administrator ● ● bryan (bryan) ✓ ● ● fabio (Fabio Terezinho) ● ● ● Guest ✓ ● ● luis (luisf.)
<u>A Back</u> <u>Next</u> Cancel

II.7. Check the option "Internet Protocol (TCP/IP)", select it and press the button "Properties" to configure the TCP/IP settings;

Network Connection Wizard
Networking Components Networking components enable this computer to accept connections from other kinds of computers.
Select the check box next to the name of each networking component you want to enable for incoming connections.
Networking components:
✓ Y Internet Protocol (TCP/IP) ✓ ✓ NetBEUI Protocol ✓ ✓ File and Printer Sharing for Microsoft Networks ✓
Install
Description:
Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.
< <u>B</u> ack <u>N</u> ext > Cancel



II.8.Check the option "Allow callers to access my local area network" and "Allow calling computer to specify its own IP address". Select the option "Specify TCP/IP address" and configure a range of IP Addresses to be set to the remote station. Press the button "OK" and the button "Next";

Incoming TCP/IP Prope	rties 🖁	? ×				
Network access						
Allow callers to access my local area network						
TCP/IP address assignment						
<u>Assign TCP/IP addresses automatically using DHCP</u>						
Specify TCP/IP ad	ldresses					
Erom:	192 . 168 . 3 . 1					
<u>I</u> o:	192 . 168 . 3 . 255					
Total:	255					
Allow calling computer to specify its own IP address						
OK Cancel						

II.9. Press the button "Finish" creating the connection "Incoming Connections";





II.10. You must be able to see the "Incoming connections" icon from the "Network and Dial-Up connections" folder. You can double-click on it to edit its properties.

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Incoming Connections	iGDial 🖉	Dial-up	Disconnec			
Type: Incoming Connection	Incoming Connections	Incoming	Disconnec			
	@ Indusoft	Virtual Private Network	Disconnec			
Status: Disconnected	👍 Local Area Connection	LAN	Enabled			
	SN Explorer	Connection Manager	Disconnec			
	i NetZero	Dial-up	Disconnec			
	<		Þ			
1 object(s) selected						



III. Client Station Settings (Dial-Up – RAS Client):

Create an application to Dial-Up to the Server Station: Studio provides functions to trigger Dial-Up connections automatically or due a command from the operator.

Time 14:00:28	Sample Application	
Date 02/21/2002	5 Guest	Tools for Automation
	Configuration: Connect using: O Phone Book Entry Modem Name 3Com Windows Modem TI	
Connect		
	Phone number: 555–1234 Domain name: (Optional) Unlocked)
	LogOn Information:	i
	Password: ******	
-3	Client IP Address: Disconnected	

The main functions used to configure a Dial-Up connection:

- FindModem: Returns the amount of modems available in the local station, such as their names.
- **DialUp**: Triggers a Dial-Up connection to private network. The Dial-Up connection may be addressed to other computer with the RAS Server enabled (see previous chapter) or to an ISP (Internet Service Provider).
- **HangUp**: Hang-up the Dial-Up connection.
- **DialStatus**: Returns the status code and its correspondent label for the Dial-Up connection e.g. *Verifying UserName and Password*.
- **DialError**: Returns the error code and its correspondent label for the Dial-Up connection e.g. *Invalid Username and Password*.
- DialGetClientIP: Returns the IP Address of the RAS Client station, for the Dial-Up connection.
- DialGetServerIP: Returns the IP Address of the RAS Server station, for the Dial-Up connection.

Note: See the Technical Reference Manual (or the Service Packs documentation – MLIST.DOC) for the full description of the Dial-UP functions and their parameters.



The main steps to create a Dial-Up connection are:

- Execute the *FindModem* function to get the list of available modems in the local station and select the modem which must be used to dial to the Server station.
- Execute the *DialUp* function to trigger the dialing process.
- Keep executing the *DialStatus and DialError* to monitor the dialing process.
- Execute the *DialGetClientIP* and *DialGetServerIP* after get connected to the Server to monitor the IP Addresses assigned to the connection.
- Execute the *HangUp* function to drop the line when you want to finish the Dial-Up connection.

At lease the following information is required before executing a Dial-Up connection from Studio:

- **Phonebook Entry or Modem Name**: All the Dial-Up functions require that you specify either a reconfigured connection from your computer's phonebook or the name of the modem as it is registered in the computer. It is the handler which identifies each Dial-Up connection.
- **Phone Number:** The full phone number, including area code if needed, which the application will dial to connect to the remote computer.
- User Name: One of the Usernames configured in section II.6.
- **Password**: The password corresponding to the Username above, also configured in section

There are basically two modes to handle a Dial-Up connection:

- PhoneBook: It is possible to configure the Dial-Up settings by the Network Connection interface of the Control Panel. Studio is able to trigger a Dial-Up connection, calling the PhoneBook previously created in the Control Panel of the operating system. Therefore, the settings configured in the PhoneBook are automatically used in the Dial-Up connection.
- Modem Name: It is not necessary to create a PhoneBook in the control panel (Studio creates a temporary PhoneBook during the Dial-Up connection, with the settings configured in the *DialUp* function).



IV. History of Revisions

Revision	Author	Date	Comments
A	Bryan Morgan	February 20, 2002	Initial revision
В	Fabio Terezinho	February 25, 2002	Layout revision
С	Fabio Terezinho	October 3, 2003	Layout revision