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**RAS-Manager and RAS-Control** 

Supplementary installation and operation instructions to the CS121 series adapter manual

### 1 General information about the RAS Manager

The RAS-Manager relays alarm signals coming from monitoring devices such as UPS, SiteManagers, contact alarms and the like to monitoring stations or email receivers. Any computer with RAS capabilities (Windows, Linux) can be used as a monitoring station. The only requirement is the setup of an PPP-Server on the monitoring station. After the establishment of communications between the RAS-Manager and the monitoring station, a RCCMD signal is



Figure 1 RAS-Manager

sent that depending on configuration can either make log entries, send emails and SMSs or execute programs.

Further a remote user can initiate a PPP-RAS connection from the monitoring station to the RAS-Manager. Since the RAS connection functions like a local network, all of the common tools are available for usage (UPSMON, Internet Explorer, Telnet, FTP). This makes a remote configuration of the RAS-Manager possible. As an alternative to this so called server mode, the RAS-Manager can also operate in Callback mode. This option is of considerable importance for customers with special security measures. In this mode, all incoming calls are not accepted, but the incoming call does signal the RAS-Manager to act as a PPP-client and causes the RAS-Manager establish a connection to the preconfigured number in the PPP-client settings. After the establishment of communications, the operater of the monitoring station can select to start either UPSMON, IE, or Telnet in order to continue working with the RAS-Manager, For this purpose, a conventient tool, RAS-Control, is available for Windows monitoring stations. This tool consists of an easy to use phone book, a configuration page containing connection information; connection description, UPS type, callback, etc. and the possiblility to relay alarms via email or SMS. Being a CS121 adapter, most of the RAS-Manager functions are described in the CS121 user manual. The additional functions will be described in this supplement to the user manual

### 2 Installation and configuration

This section covers the installation and configuration of the RAS Manager and RAS Control program group. Also the setup of the Windows RAS-Services will be covered.

RAS Manager Softings			
Convenon Settings			
Madam:	RAG Manager analog	PPP License Key:	12177772234040000548
Wadam Init String:	ar	Modern First Time Init:	AT&F&DOE0X3830+24812+108w0
US Manager Phone Humber:	38	1	
US Client Settings			
Act as Client:	F	Usernamec	LEFT
/PP Operation Timoost (sec):	300	Password	
Number to Diat	34347193991	Confirm Pessworit	
Sumber of Connection Attempts:	5	inactivity Timeout (sec)	E 0
Destination Address:	0.0.0		
US Server Settings			
Act as Server:	P	Usernamic	mondo
Enable Caliback:	п	Passwort	
ierver IP Address:	192.188.202.155	Confirm Pessworit	
Figure 2 R/	AS Manage	r configu	ration page
RAS Control		gRAS	5 Service Configuration
		Phore	ebook
		DAS.	Control
		Se Inno	Concror
		😂 Supp	ort
		ETI Linin	tal DAS Control
		Contra Contra	scali KHO CONCIO

Figure 3 RAS Control Program group

#### 2.1 RASMANAGER / CS121PPP configuration for Internet dial up

Make sure that COM2 is set for RAS.

COM2 Settings	
COM2 Mode:	Configuration 💌
COM2 Baud Rate:	Configuration Pipe Through 1
COM2 Parity:	Pipe Through 2
	TempMan
	SensorMan
ALLY Settings	RAS
Figure 4 RAS Man	ager COM2
configuration	-

The RAS Configuration http-page consists of three parts: "Common Settings", "RAS Client Settings" and the "RAS Server Settings". See Figure 2 RAS Manager configuration page.

#### 2.1.1 Common Settings

Common Settings			
Modem:	RAS Manager analog 👻	PPP License Key:	
Modem Init String:	AT	Modem First Time Init:	AT&F&D0EDX3S30=24S12=10&0
RAS Manager Phone Number:			
RAS Configuration:	Common Settings		

In this section the license which came with the RAS Manager or with the seperate purchase of the RAS Control software is entered. Both the "Modem Init String" and the "Modem First Time Init" entries are automatically filled in with the correct entries corresponding to the selection made in the "Modem" Drop down menu. The RAS Manager Phone Number is just a place to store the telephone number of the RAS Manager.

#### 2.1.2 RAS Client Settings

Inorder to send emails directly into the internet, the IP address of the SMTP-Servers must be entered into the email configuration settings. The IP address can be determined using a computer that is connected to the internet by pinging the mail server of the mail server. For example: "Ping smtp.1und1.com" will result in the IP address of the 1&1 - SMTP-Server.

Here are a few commonly used SMTP- servers:

1und1	212.227.15.161
t-online	194.25.134.97
web.de	217.72.192.157

The Destination Address is entered into the CS121-PPP-Client settings, that way when emails are to be sent a dial-up connection will be made using the Modem/ ISDN-Adapter.

RAS Client Settings			
Act as Client:		Username:	user
PPP Operation Timeout (sec):	300	Password:	
Number to Dial:		Confirm Password:	
Number of Connection Attempts:	6	Inactivity Timeout (sec):	60
Destination Address:	0.0.0.0		
RAS Configuration: RAS Client Settings			

#### Exampl: Arcor

The Modem-Init-Strings depend on the modem and are therefore not part of these examples.

The next step involves entering the telephone number, username and password that are to be used for the connection. The following table provides example entries:

Provider	Telephone number	User name	Password
Arcor	0192077	Arcor	Internet
Freenet	01929	Freenet	Freenet
T-Online	0191011	User specific	

The next step involves setting up the email client. This requires using an existing email account with user name and password.

# Fehler! Es ist nicht möglich, durch die Bearbeitung von Feldfunktionen Objekte zu erstellen.

RAS Manager: Email Settings

The following account can be use for testing purposes:

#### Account: generex@web.de

user: generex Pass word: cs121snmp IP-Address: 217.72.192.157

It is important that the Server-Address is correct and this IP must also correspond to the address used in the PPP-Client-Settings. After completion of all entries for PPP and E-Mail the RAS Manager must enact a save and reboot.

After restarting, the "Test E-Mail Settings" function, can be used to test the functioning of the dial up connection.

#### 2.1.3 RAS Server Settings

RAS Server Settings			
Act as Server:		Username:	user
Enable Callback:		Password:	
Server IP Address:	192.168.55.1	Confirm Password:	

#### RAS Configuration: RAS Server Settings

The first check box determines whether the RAS Manager will accept or even register incoming calls. If only the "Act as Server" box is checked, then the RAS Manager will answer incoming calls and make its services available to the caller if the caller is also in possesion of "Server IP Address", "Username", and "Password".

If the second "Enable Callback" box is also checked, the RAS Manager will not answer incoming calls. Instead, the RAS Manager will register the incoming call as a signal to enact a Dial-up connection to the computer specified in the "RAS Client Settings".

#### 2.2 RAS-Server Configuration using Windows2000/ XP and 2003

In general it should be noted that the setting up of connections for "dial up", "incoming" calls and RASPhone book entries differ depending on which version of Windows and which service pack is being used. In addition to the following explanations, in the appendix of this supplement three picture sequences are included as examples of what a typical setup under windows might look like.

Configuring and starting the RAS-Server

In the Network and Dial-up connections section of the windows control panel, starting (double clicking) the Make new connection icon will start the the windows network connection wizard. Clicking the "Accept incoming connections" stereo button followed by Next begins the setup of the RAS-Services. The assistant then provides the user with a selection of available devices for which one of the options containing "RAS" should be selected in the following the \_AVM ISDN RAS" is selected.

	Other configuration settings can be made like setting a 10 minute limit for inactivity
Network Connection Wizard	MicroLink 56k Internet II-Verbindungseinstellungen ? ×
<sup>6</sup> Oracle to Incoming Connection: Water on shores the devices your computer uses to accept incoming connections: Select the check box next to each device you were to use for incoming connections: Connection devices: Connection devices: Connec	Algeneinininini Erweitenti       Algeneininingsurdensüllates (nanusles) Wählen       Vermitnungsurdensüllates (nanusles) Wählen       Vermitnungsurdenstlates (nanusles) Wählen       Daterverbindungsenviellungen       Daterverbindungsen       Daterve
< <u>₹</u> Back <u>N</u> ewt> Cancel	OK Abtrechen
Windows Connection Assistant: Devices for Incoming Connections	Connection properties

Usera alevel const. Usera alevel const. Dif Adheatose	RAS user entry corresponding to the entry in the RAS client settings. The New button can be used to add this profile.
New.         Datate         Proporties           Note that other factors, such as a disability to connect which caused ability to connect Propaga allows become for passwords and data.         Pro- Propaga allows become for passwords and data.         Pro- Pro- computers to connect without powding a password.           DK         Cancel         DK         Cancel	



#### 2.2.1 ISDN Access

If the monitoring station is equipped the an ISDN modem it must also be specified by which incoming MSN calls should be answered. This is either the Telekom MSN

(Telephone number without area code) or the extension code of the telephone. These settings are made in the "Phone and Modem options" section of the control panel. On the modern tab select Man CAPI-Port "AVM ISDN RAS" and select advanced options for incoming and outgoing calls. This is done using the entries: S49=<Number> and S50=<Number>. The entry will look similar to the following: ATS42=1 S49=24 (for the extension 24).



#### 2.2.2 Analog access

Analoge Modems (ELSA Microlink 56k PCI) require no assignment because this is done by the is done by the phone system.

Client connection setup under Windows2000/ XP and 2003



to private network ". Select DFÜ as connection type.

Seröt auswählen Dieses Gesit weid zum Hesstellen der Verbindung verwendet.	Vesbindungsname Geben einen Namen für die Vesbindung mit Ihrem Asbeitsplatz an.
Sie haben mehr als ein DFU Gerät an Computer angeschlissen. Wählen Sie die Geste, die für dese Verbindung verwendet werden sollen:	Gaben einen Namen für die Verbindung im folgenden Feld ein.
Moden - AVM ISDN Internet (PPP over ISDN) (AVMISDN1)	RASManger_Hamburg
Construction (Construction)     Construction     Construltion     Construction     Construction     Construction     Con	Syn Lingen can thighted for Spenn Hans Advigations and data Namer data Server, on date new Vestimating Inspectial weater out drogstein
<zutick weiter=""> Abbrechen</zutick>	<zurick weiter=""> Abbrechen</zurick>



and do not use any smartcard functions.

#### 2.3 Connecting to the RASManager



Finally, configure the security tab of the connection properties window so that the typical settings allow for the acceptance of "unsafe passwords" in the drop down menu of the security options.

RASManger_Hamburg Eigenschaften	RASManger_Hamburg Eigenschaften
Allgemein Optionen Sicherheit Netzwerk Erweiten	Algemein Optionen Sicherheit Netzwerk Envertent
Verbindung herstellen über:	Sicherheitsoptionen C Ippich (empfohlene Einstellungen) (dentitä) folgendemsälen verifizieren:
Modem - AVM ISDN SoftCompression X 75V 42b - 3	Unsicheres Kennwort zulassen
Alle Geräte wählen dieselbe Nummer Konfiguieren	Automatisch eigenen Windows-Armeldenamen und Kennwort (und Domins, /alls vorhanden) verwenden
Rufnummer	<ul> <li>Datergenschlüsselung ist erforderlich (Verbindung wird bei unverschlüsseljen Daten getennt)</li> </ul>
Bitskenngshit Butgummer:	C Ergeitet (benutzerdefiniete Einstellungen)
<u>▼</u> 0405663282 <u>Andere</u>	Diese Einstelungen ertordem Kennthisse Einstelungen
Landeskennzaht	
Viblenski verwenden	Interaktive Anneldung und Skripting
	Skript ausführers
🔽 Symbol bei Verbindung in Infobereich der Taskleiste anzeigen	Begbeten Durchsuchen
OK Abbrechen	OK Abbrechen

#### 2.4 RAS Control setup

The Setup of the RAS Control program group is for the greater part fully automated with the requirement of just a few user defined settings.



#### 2.4.1 gRAS Option for automatically relaying Alarms

All alarms can be set to be forwarded per default during installation by clicking yes to the following option.



If the log file entries and message boxes are sufficient then answer no to this option. This determines how QBLAT will be configured. A yes to this option will activate QBLAT.

### 2.4.2 Alarm relaying per Modem or LAN

Two options are available for the relaying of alarms per email:

If LAN is available then select it. Otherwise, if it is necessary to send emails using a dial-up connection then select this option and continue.

×
No.
connection into the
Abbrechen

Next, enter the SMTP Server information.

EMail address or the sender :	test@test.de	
Name of the mail server :	smtp.1und1.com	
Use SMTP Authentification SMTP Authentification		
Login	upservice	
2-5		

This completes the installation for the LAN option.

#### 2.4.3 Phonebook

This section continues the setup for the option Dialup. The Phonebook entry RAS Control group is a special link to the Windows Program PHONEBOOK. The first time this program is started, the file rasphone.pbk is created after which the Windows connection wizard is started for creating a connection and entry for this phonebook.

At least one entry must be made in the rasphone.pbk Windows Telephone book inorder for the installation to be completed successfully. The connection will be used later for the relaying of alarms.



If no entry is yet available, a new connection can be made using this link at anytime. If the connection already exists simply cancel the next step.

Netzwerkver	bindungen		<u>? ×</u>
Wählen Sie eine	Netzwerkverbindu	ng:	
Freenet			•
⊻erbinden	Abbrechen	Neu	Eigenschaften

#### 2.4.4 gRAS monitoring

The gRAS Service monitores incoming alarms and establishes an internet connection for the forwarding of alarms once an alarm has been detected.

RAS Phonebook Entry.	ОК
<u> </u>	Save / Start
RAS Username:	
RAS Password	Stop
	Uninstall

For this purpose the Phonebook must be selected when browsing.

innen		_		? ×
Suchen in:	🗁 Рык. 💌	+ 🗈	CF 🛛	<b>-</b>
🍃 rasphone	s.pbk			
Dateigame:	Tesphone.pbk		(	)įmen
Dateigame: Dateigyp:	/asphone.pbb Phonebook Files (".pbk)	-	Ab	)(fnen brechen

Afterwards select the appropiate connection and enter the user access data for the selected connection.

RAS Phonebook Entry	1 ОК
Freenet Browse	Save / Star
RAS Username:	
freenet	
RAS Password	Stop
	Uninstall

After completing these steps the service is initiated by clicking the "Save/ Start" button, and the installation is ended by clicking "Ok".

## **3 Functions and Usage**

In this section, it is assumed that the RASManager and RASControl Software have been successfully installed and configured. Some parts will refer to the adapter user manual.

#### 3.1 Operating modes of the RAS Manager

The RASManager can operate in three different modes: Client mode Server mode

Callback mode

All of these functions are only available after a valid license code has been entered into the adapter. Which of these modes and in which combination they are used is determined by the user.

Notice: These functions were designed for static IP-Addresses.

#### 3.1.1 Client mode

In Client mode the RAS Manager will call the computer specified by the "Destination Address" entry.

RAS Client Settings			
Act as Client:	V		
PPP Operation Timeout (sec):	300		
Number to Dial:			
Number of Connection Attempts:	5		
Destination Address:	0.0.0		
RAS Configuration: RAS	Client Settings, I	Destination Address	

The RAS Manager will dial-up as Client if:

-the RAS Manager receives a call and has been configured for Call back mode in the "RAS Server Settings".

-an Event occurs for which a Job has been defined requiring the relaying of a message or command to an IP address matching that of the "Destination Address". -the RAS Manager is to send an Email and the IP-Address of the Email-Server in the "Email settings" matches the IP set in the "Destination Address" of the RAS client settings.

#### 3.1.2 Server mode

When only the "Act as Server" box is checked in the RAS Server Settings then the RAS Manager will answer incoming calls and make its functions available to the client with the address matching the "Server IP Address". Other configuration settings may also be necessary to insure this function. These settings are configured in the "Network and Securities Settings" section of the adapter (see user manual).

RAS Server Settings		-
Act as Server:		
Enable Callback:		
Server IP Address:	192.168.55.1	
BAS Configuration: B	S Client Settings, Server IP Address	

#### 3.1.3 Callback mode

Checking the "Enable Callback" box will cause the RAS Manager to no longer answer the incoming calls. Instead, once the incoming call ceases, the RAS Manager will dial-up ("Callback") the connection specified in the "RAS Client Settings".

#### 3.2 Functions of the RAS Control Software group

#### 3.2.1 Phonebook

The Phonebook link in the RAS Control Program group is a special link to the Windows-component "Phonebook" that starts the windows connection wizard for the purpose of establishing a valid modem connection entry in the "rasphone.pbk" file. These entries are then made specifically for gRAS and RAS Control.

Öffnen		<u>?</u> ×
Suchen in:	•	← 🗈 🖆 📰 -
	Desktop     Desktop     Desktop     Desktop     Arbeitsplatz     34:Diskette (A:)     System (C:)     Dokumente und Einstellungen     All Users     Arwendungsdaten     Microsoft	🏷 rasphone.pbk
Dateiname: Dateityp:	Connections	Öffnen Abbrechen
	Schreibgeschützt öffnen	
RAS Co	ontol Program group: P	honebook.pbk

#### 3.2.2 gRAS



gRAS is a service that monitors and relays incoming alarms via modem automatically. Once an alarm has been registered, gRAS will initiate a RAS connection and send emails in accordance with specifications made during the installation of gRAS and/or in accordance with specifications made using RAS Control in the "Alarm settings". This is only relevant for installations using the "Dialup Connection" option (see section 3.2.3, point 7.8)

#### 3.2.3 RAS Control

RAS Control unites two different functions into one convenient interface.

Establishing connections to RAS Managers, that have been entered into the rasphone.pbk file. This can be done as a result of direct connection or as Callback.

#### Configuration of Alarm receivers.

The connections made using RAS Control can be used for different purposes: Starting standard applications Internet Explorer, UPSMON or Telnet that then connect to the predefined IP-Address or for executing user defined programs. If operating in Callback-Modus, the call will signal the computer to call back. Meanwhile, RAS Control will waite until a connection has been established. The callback mode is used in situations requiring higher levels of security. In Callback-Modus no options for automating different operations are made available due to security issues, any actions to be take are leftup to the user. Ofcourse, all RAS Control connections can also be disconnected. In this case, all processes started by RAS Control are then terminated as well.

By incoming alarms the program "batchgen" is started via RCCMD. Batchgen then either sends the emails specified in the "batch.in" file by itself in the cas of a LAN setup or generates the necessary batch files that will enact gRAS. If gRAS is activated, it continuously checks for the appearance of such batch files. Upon detection of such a batch-file, gRas establishes RAS connection and executes the instructions contained therein.

RAS Control is the configuration interface for "batchgen" which is the key to automating alarm relay process.

#### 3.2.3.1 Using RAS Control



RAS Control: main menu

After starting RAS Control the main menu appears, making the different RAS Control functions available.

1. "RAS Connection": This drop down menu provides a list for selecting a particular RAS Manager to which a connection is to be established. If available the "Description"-area contains information pertaining to the selected RAS Manager.

2. "Connect/Disconnect": "Connect" will initiate the connection to the selected RAS Manager and "Disconnect" will do the opposite. When no callback mode is configured for the selected connection, either a default application or user defined action will be executed once the connection has been established. Once the connection is ended all of the applications/processes started by RAS Control will also be ended if possible.

3. "Default Application": This stereo box selection determines which application will be started after establishing a connection. During a connection this area can also be used to start the other default applications (InternetExplorer, UPSMON, telnet) as well using "Execute".

4. "View Logfile": Opens the log file under point 6. in the Notepad-Editor.

5. "Status": RAS connection status.

6. "RAS Connections": This opens the RAS connection overview.

Name	IP/Execute	Calback	Timeo	Description	
					Add
					<u>D</u> elete
					Edit

Overview for "RAS Connections"

6.1 "Add": This adds a new connection entry.

RAS Connection	n	×
Name:	Generex	
IP Address:	192.168.55.1 Clear	
or Execute:		
User:	test_only	
Password:	2008300830083008	
Description:	UPS Hamburg, room 1234	
Calback:	Calback Timeout: 0	
	OK Cancel	

Configuration dialoge for RAS Connections

6.1.1 "Name" : This is a drop down menu for selecting the name of an entry made in the RAS Control phone book. The usage of one of the default applications require the entry of an "IP-Address" that match the entry made in the RAS-Manager RAS-Server settings (Default: 192.168.55.1). The execution of user defined processes are to be entered in the "Execute" box. Any entry in the "Execute" field renders the "IP-Address" ineffective and vice versa.

#### 6.1.2 "User" and

 $6.1.3\ \mbox{"Password"}$  : the correct entries for the corresponding connection must be contained in these fields.

6.1.4 "Description": Anything can be entered into this field for the sake of describing the selected connection.

6.1.5. "Callback: " If the RAS-Manager is in Callback-modus then this check box must be set.

6.1.6 "Callback Timeout": This is the amount of time in seconds that a call should be made in an attempt to triggering the selected RASManager to call back. 30 seconds are recommended for analoge connections and 10 seconds for ISDN with 10 seconds being the minimum.

Name	IP/Execute	Calback	Timeo	Description	
Senerex	192.112.131.1	No	-	UPS Hamburg, roor	Add
					Delete
					Edit
					aw 1 a 1

Overview for "RAS Connections"

6.2 "Delete": Deletes the selected entry in the overview table.

6.3 "Edit": Reopens the "Add" configuration window for the purpose of editing the selected entry.

7. "Alarm Settings": Configures "batchgen" and the alarm settings.

Clicking the "Alarm settings" button opens the following dialog:

State	Name	E-Mail	Logfile	[]
				L
				Letete
				Edit
				Quick Edit: <space> - toggle state <l> - toggle logfile Logfile to attach:</l></space>
				log.bt
				I Logging I Message I Diakap Connection
				OK Cancel

Overview for Alarm batch configuration

7.1 "Add" : Adds a new alarm recipient.

E-Mail Receiver Configuration					
Name:	Service technician 1				
Email-Address	service1@service.com				
Receive mail	✓ Attach logfile				
OK	Cancel				

Configuration for Alarm recipient

- 7.1.1 "Name": Identifies the the alarm recipient.
- 7.1.2 "Email-Address": Email-Address of the alarm recipient.
- 7.1.3."Receive mail": Check box to activate the recipients receiving status.
- 7.1.4 "Attach logfile": Check box for attaching the Logfile to the recipients email (see 7.5).

State	Name	E-Mail	Logfile	
	Service technician 1	service1@service.com	Yes	Add
Receiver	Service technician 2	service2@service.com	Yes	Delete
				Edit
				Quick Edit: <space> + toggle state <l> - + toggle logfile Logfile to attach:</l></space>
				hog to:
				Message

Overview table for alarm batch configuration

7.2 "Delete": Removes a selected recipient entry.

7.3 "Edit": Opens the selected entry in the add dialog for the sake of editing.

7.4 "Quick Edit": <Space> toggles the recipients status between active=Receiver and inactive=---, and <L> toggles the Logfile attachment between yes and no.

7.5 "Logfile to attach": This is the name of the logfile to be attached to the email. Default is "log.txt".

7.6 "Logging": When this check box is set all of the incoming alarms are written into a log file.

 $7.7\ \mbox{"Message"}$  : When this check box is set all alarms are accompanied by an alarm signal.

7.8. "Dialup connection": If no LAN connection with internet access is available and the incoming alarms are to be relayed per email then this check box is to be set. This is usually the case when "Dialup Connection" has been selected during the installation.

8. "Enter licence key": The customer specific license keys are to entered in this section. The standard license provides for 500 entries in the connection list.

### Appendix (sample setup picture sequences)

In the following setup sequences for "dial up" connections, "incoming" calls and RASPhonebook entries some of the pictures are exactly the same and some are slightly different.

#### A Dial up 9 steps



01 - Network Connection Wizard - Welcome.bmp

#### 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	ICDND
Connect using my phone line (modem	or ISDNJ.
<ul> <li>Dial-up to the Internet</li> <li>Connect to the Internet using my phone</li> </ul>	ne line (modern or ISDN)
C Connect to a private potwerk th	would the Internet
Create a Virtual Private Network (VPN	) connection or 'tunnel' through the Internet.
C Accept incoming connections	
Let other computers connect to mine t	by phone line, the Internet, or direct cable.
C Connect directly to another com	nputer
Connect using my serial, parallel, or inf	frared port.
	< <u>B</u> ack <u>N</u> ext > Cancel
- Notwork Connection Wizard - Notwor	
twork Connection Wizard	R Connec Type - Dial Op Thvate.billp
Phone Number to Dial You must specify the phone number of the connect to.	computer or network you want to
Phone Number to Dial You must specify the phone number of the connect to. Type the phone number of the computer o your computer to determine automatically h dialing rules.	r network you want to retwork you want to retwork you are connecting to. If you want now to dial from different locations, check Use
Phone Number to Dial You must specify the phone number of the connect to. Type the phone number of the computer o your computer to determine automatically h dialing rules.	e computer or network you want to r network you are connecting to. If you want now to dial from different locations, check Use
Phone Number to Dial You must specify the phone number of the connect to. Type the phone number of the computer o your computer to determine automatically h dialing rules. <u>Area code:</u> Phone number [00494046072]	e computer or network you want to
Phone Number to Dial You must specify the phone number of the connect to. Type the phone number of the computer o your computer to determine automatically h dialing rules. Area code: Phone number [00494046072]	e computer or network you want to
Phone Number to Dial You must specify the phone number of the connect to. Type the phone number of the computer o your computer to determine automatically h dialing rules. <u>Area code:</u> Phone number Od494046072 Country/region code:	e computer or network you want to
Phone Number to Dial You must specify the phone number of the connect to. Type the phone number of the computer o your computer to determine automatically h dialing rules. Area code: Country/region code:	e computer or network you want to
Phone Number to Dial You must specify the phone number of the connect to. Type the phone number of the computer o your computer to determine automatically h dialing rules. Area code: Phone number O0434046072 Country/region code: Use dialing rules	e computer or network you want to
Phone Number to Dial You must specify the phone number of the connect to. Type the phone number of the computer o your computer to determine automatically h dialing rules. Area code: Phone number O0494046072 Country/region code: Use dialing rules	e computer or network you want to
Phone Number to Dial You must specify the phone number of the connect to. Type the phone number of the computer o your computer to determine automatically h dialing rules. Area code: Phone number O0494046072 Country/region code: Use dialing rules	e computer or network you want to
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Phone Number to Dial You must specify the phone number of the connect to. Type the phone number of the computer o your computer to determine automatically h dialing rules. Area code: Phone number O0494046072 Country/region code: Use dialing rules	e computer or network you want to

#### ~~ ... . . ~ \//;-

03 - Network Connection Wizard - Phonenumber.bmp	Network Connection Wizard
Network Connection Wizard           Select a Device           This is the device that will be used to make the connection.	Connection Availability You may make the new connection available to all users, or just yourself.
You have more than one dial-up device on your computer.	You may make this connection available to all users, or keep it only for your own use. A connection stored in your profile will not be available unless you are logged on.
Select the devices to use in this connection:	Create this connection: For all users Inly for myself
<u>A Next &gt; Cancel</u>	< Back         Next >         Cancel           05 - Network Connection Wizard - Connection Availability.bmp
14- Network Connection Wizard - Select Device.bmp	Network Connection Wizard         Completing the Network Connection Wizard         Lype the name you want to use for this connection:       IgRASManager Connection         IgRASManager Connection       To create this connection and save it in the Network and Diał-up Connections folder, click Finish.         To edit this connection in the Network and Diał-up Connections folder, select it, click File, and then click Prometries

Add a shortcut to my desktop

< <u>B</u>ack

Finish

Cancel

06 - Network Co	onnection Wizard - Complete.bmp
Connect gRAS	Manager Connection
User name:	cs121
Password:	******
	Save password
Dial:	00494046072036
Dial	Cancel Properties Help

07 - Network Connection Wizard - Connect Connection.bmp

RASManager Connection
General Options Security Networking Sharing
Connect using:
☑ Infrared Modern Port (SERIAL1-0)       Image: Comparison of the second
✓ All devices call the same numbers Configure
Phone number
Arga code:         Phone number:           Image: margin line         00494046072036         Alternates
Country/region code:
Use dialing rules
✓ Sho <u>w</u> icon in taskbar when connected
OK Cancel

08 - Network Connection Wizard - Connection Prop.bmp

g

gRASManager Connection
General Options Security Networking Sharing
Security options [ypical (recommended settings) <u>V</u> alidate my identity as follows:
Allow unsecured password
<ul> <li>Automatically use my Windows logon name and password (and domain if any)</li> </ul>
E Require data encryption (disconnect if none)
O Advanced (custom settings)
Using these settings requires a knowledge <u>S</u> ettings
Interactive logon and scripting
Run script:
Edit
OK Cancel

09 - Network Connection Wizard - Connection Prop Security.bmp

### B Incoming 8 steps

01 - Network Connection Wizard - Welcome.bmp (same as dial up picture 01)

02 - Network Connection Wizard - Network Connec Type - Accept Incoming Connec.bmp (Same as dial up picture 02 but the "Accept Incoming connections" stereo button is set.)

rk Connection Wizard			
vices for Incoming Connections You can choose the devices your compute	r uses to accept	incoming connec	ctions.
Select the check box next to each device y	vou want to use f	or incoming conr	nections.
Connection devices:			
Infrared Modem Port			
Direct Parallel (I BT1)			
,		Pro	perties
	< Back	Next>	Cancel
twork Connection Wizard Dovices			<u> </u>
rk Connection Wizard		g connec.bing	
coming Virtual Private Connection Another computer can create a virtual priva through the Internet or another public netwo	te connection to ork.	your computer	Ś
Virtual private connections to your compute your computer has a known name or IP add	r through the Inte Iress on the Inter	ernet are possible net.	e only if
Choose whether to allow virtual private con	nections:		
Allow virtual private connections			
Do not allow virtual private connection	ons		

#### 04 - Network Connection Wizard - Incoming Vpn.bmp

#### 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.

Ì

#### Users allowed to connect:

🗹 👰 gRASMana	ger User (gRASMan	lager User)		
I	Delete	Properties	1	
000 1	Delete	T jopordos		
<u>A</u> aa			1	
<u>A</u> aa				

05 - Network Connection Wizard - Allowed Users.bmp

#### 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:

🗹 🏹 Internet Protocol (	Internet Protocol (TCP/IP)						
🗹 🚚 File and Printer Sh	File and Printer Sharing for Microsoft Networks						
🗹 📃 Client for Microsof	Client for Microsoft Networks						
	Install	<u>U</u> ninstall	Properties				

#### 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 > Cance	:
-------------------------------------	---

#### 06 - Network Connection Wizard - Networking Comp.bmp

	Networ	k Conn	ection	Wizard	
--	--------	--------	--------	--------	--

Incoming TCP/IP Properties		?×	ther 🔊
Allow callers to access my local area network			want to
TCP/IP address assignment			
C Assign TCP/IP addresses automatical			
Specify TCP/IP addresses			-
Erom: 192 . 168	200 . 1		<b>_</b>
<u>I</u> o: 192 . 168	200 . 2		perties
Total: 2			
Allow calling computer to specify its own IP address			
	OK	Cancel	
	< <u>B</u> ack	<u>N</u> ext>	Cancel

07 - Network Connection Wizard - Networking Comp - Incoming Ip Prop.bmp



08 - Network Connection Wizard - Incoming Complete.bmp

#### C RASPhone 6 steps



01 - Rasphone.bmp

WOLK CONNECCION WIZALU	
Type of Connection Select the type of the connection.	5
Dial-up to private network. Connect using my phone line (mode	em or ISDN).
C Connect to a private network Create a Virtual Private Network (VF	through the Internet. PN) connection or tunnel through the internet.
<ul> <li>Connect directly to another connect using my serial, parallel, or</li> </ul>	omputer. infrared port.
	< Back Next > Cancel
Rasphone Network Connection Wiz	zard - Network Connec Type - Dial Up

03 - Network Connection Wizard - Select Device.bmp (same as "dial up" picture 3)

Private.bmp

#### Network Connection Wizard

#### Phone Number to Dial

You must specify the phone number of the computer or network you want to connect to.



Type the phone number of the computer or network you are connecting to. If you want your computer to determine automatically how to dial from different locations, check Use dialing rules.

	Area code:	Phone number: 00494046072036		
	Country/region code:		<b></b>	
	) <u>U</u> se dialing rules			
		< <u>B</u> ack	<u>N</u> ext >	Cancel
4	Notwork Connection Wize	ard Dhananumhar hmn		

04 - Network Connection Wizard - Phonenumber.bmp Network Connection Wizard

Connection Availability You may make the new connection availab	le to all users, or just yourself.	I)
You may make this connection available to connection stored in your profile will not be	all users, or keep it only for your owr available unless you are logged on.	nuse. A
Create this connection:		
<ul> <li>Eor all users</li> </ul>		
C Only for myself		
	Z Back Nevt >	Cancel
		Cancer

05 - Network Connection Wizard - Connection Availability.bmp

Network Connection Wizard	×
Finished The wizard is ready to create your connection.	
Type a name you want for this connection: gRASManager Connection	
Click Finish to save it in the Network Connections folder.	
To edit this connection later, select it, click the File menu, and then click Properties.	
< <u>B</u> ack	Finish Cancel

06 - Rasphone Network Connection Wizard - Complete.bmp