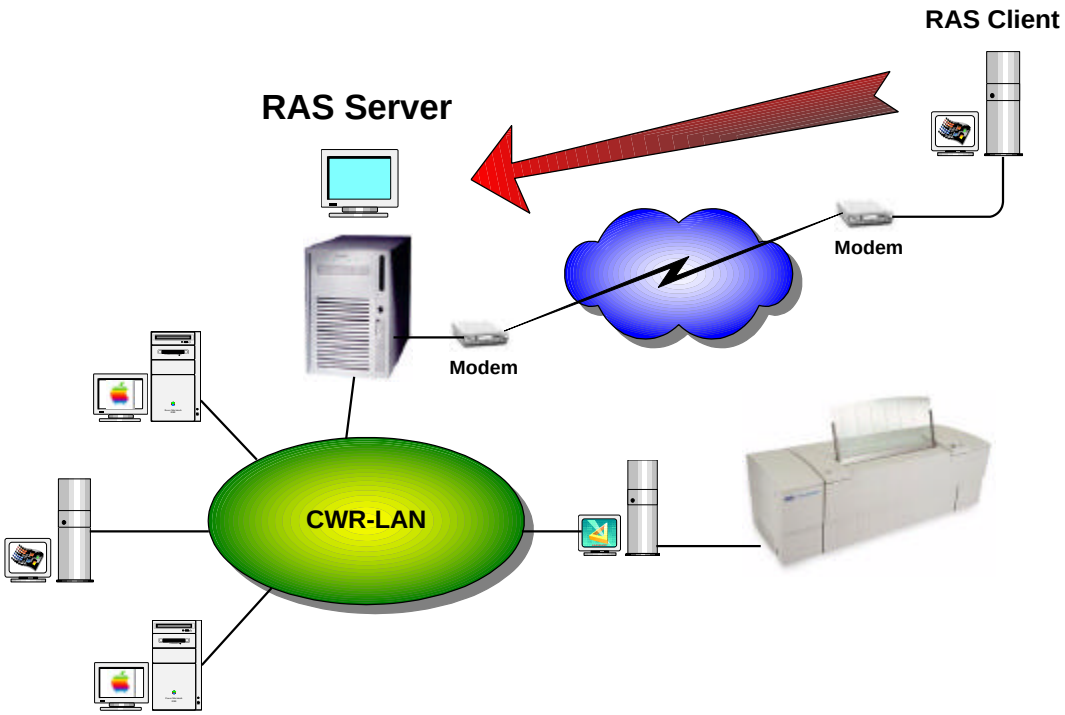
Training Course for CWR Internals

Networking

Remote Access Service

Remote Access Service

RAS Overview



- **RAS** allows **Clients** to access Servers located in distant Networks via **Telephone** lines
- Clients work as if directly connected to **LAN**
- Typical **RAS Clients**: Windows for Workgroups, Windows95, Windows98 and NT-Workstations
- Typical **RAS Servers**: Windows for Workgroups, Windows95, Windows98 and NT-Servers
- Typical **RAS Applications**: Remote Server Administration and File Transfer

RAS Overview (2)

- RAS Utilization is restricted due to **limited Transfer Rates** of Transmission Lines: typical 28.8 Kbps with analogue Lines, 64 Kbps with ISDN
- **Cost effective** Solution with **Modems**
- More **efficient Solution** with **ISDN** Adapters
- Installation of RAS requires three **Main Steps**:
  - Installation of **Modem**
  - Setting up the **RAS Server**
  - Setting up the **RAS Client**

Remote Access Service

Step 1: Installation of Modem

- Set up Modem **Switches** according to the **Manual**
- Connect Modem to available **Serial Port**
- Connect Modem to **Telephone Line**
- Switch on Modem
- Login as **Administrator**
- Select **Modems** from the Settings/ Control Panel Window
- Select **Modem from List** (no auto-detection)
- Select the **Port** the Modem is connected to
- **Finish** the Modem installation

Remote Access

Step 1: Installation of Modem (2)

- Setup Modem **Properties:**
  - **Same** Connection Properties on **both Modems**
- Select **General** Properties: max. Speed 115.200
- Select **Connection Preferences**: Databits/ Parity/ Stop Bits/ Flow Control
- Select **Call Preferences:** Wait Time/ Idle Time . . .
- Select **Dialing Properties**: Area Code/ Country/ Dialing Type (Tone/ Pulse)

Remote Access Service

Step 2: Setting up the RAS Server

- Select **Network** from the Settings/ Control Panel Window
- Add: **Remote Access Service** (NT-CDROM required)
- Select listed Modem as **RAS-capable** Device
- Configure RAS Device for **receiving Calls** and **dialing out**
- Configure RAS Server to allow **NetBUI Clients** to access the entire Network
- Configure RAS Server to allow **TCP/ IP Clients** to access the entire Network. Provide at least two IP-Addresses if no DHCP-Server is available
- Disable NetBIOS Broadcast Propagation
- Important: **Re-Installation of Service-Pack 3 is required!!**

Remote Access Service

Step 2: Setting up the RAS Server (2)

- Assign **Remote Access Permissions** to Users:
  - Administrative Tools ⇨ Remote Access Admin
  - Select Users ⇨ Permissions ⇨ Remote Access Permissions
  - Select Administrator, Check: Grant **Dial-in Permissions**
  - Select **Call Back** Option: **No Call Back / Set by Caller / Preset Number**
  - **Close** the Remote Access Admin
- Configure Network Performance Properties:
  - Select Network ⇨ Services ⇨ Server ⇨ Properties
    Maximize throughput for **Network Applications**
- **Restart** the server to complete the RAS Server Setup

Remote Access Service

Step 3: Setting up the RAS Client

- Select „**Network**“ from the Settings/ Control Panel Window
- Add: **Remote Access Service** (NT-CDROM required)
- Select Modem as **RAS-capable** Device
- Configure RAS Device for **receiving Calls** and **Dialing out**
- Configure RAS client to allow **TCP/ IP Clients** to access the entire Network
- **Disable NetBIOS** Broadcast Propagation
- Important: **Re-Installation of Service-Pack 3 is required!!**
- **Restart** the Client to complete the RAS Client Setup

Remote Access

Remote Access via pcANYWHERE™

- **Remote Computing:**
  - A **Remote PC** controls a **Host PC** as if you where actually there
  - Connection via **Modem**, **ISDN**, or **Network**
  - File Transfer with Synchronization
- **Remote Networking**
  - **PC dials** into distant network and becomes a **Remote Node** of the network environment

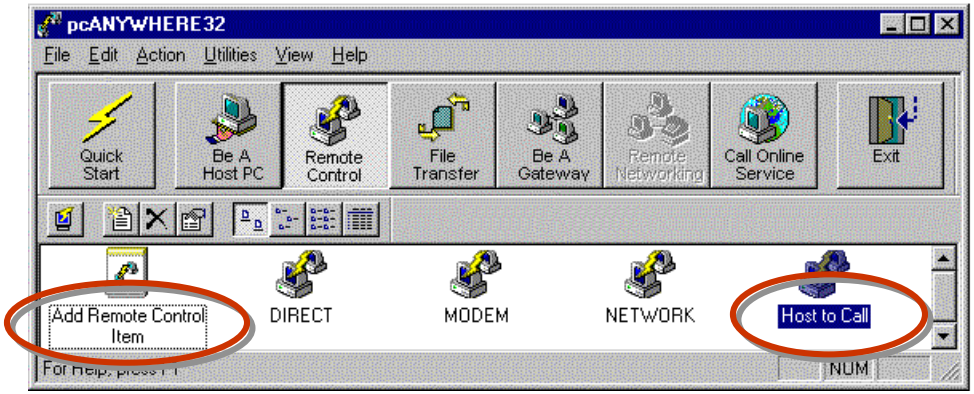
Installation

- Install and configure **Modems at both Sides**, see **Step 1 above**
- Install **pcANYWHERE™** at Remote Station **and** Host PC:
  - Run Setup from Distribution Disk
  - Follow the Instruction Dialogue, select Default Installation Path
  - Reboot the System
- Refer to Online Help for Details

Remote Access

Configure Remote PC

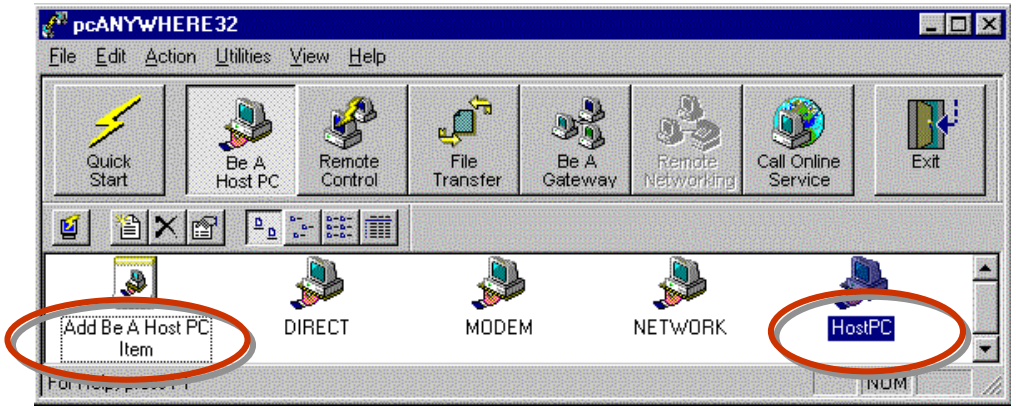
- Start ⇨ Programs ⇨ pcANYWHERE32 ⇨ **pcANYWHERE**
- Click **Quick Start**
- Select ⇨ **Add Remote Control Item**
- Assign a name for the **„Host to Call“**, click Next
- Select the installed **Modem** from the list of connection devices, modify the connection details if required
- Uncheck „Automatic Launch upon Wizard Completion“. Click **Finish**



Remote Access

Configure Host PC

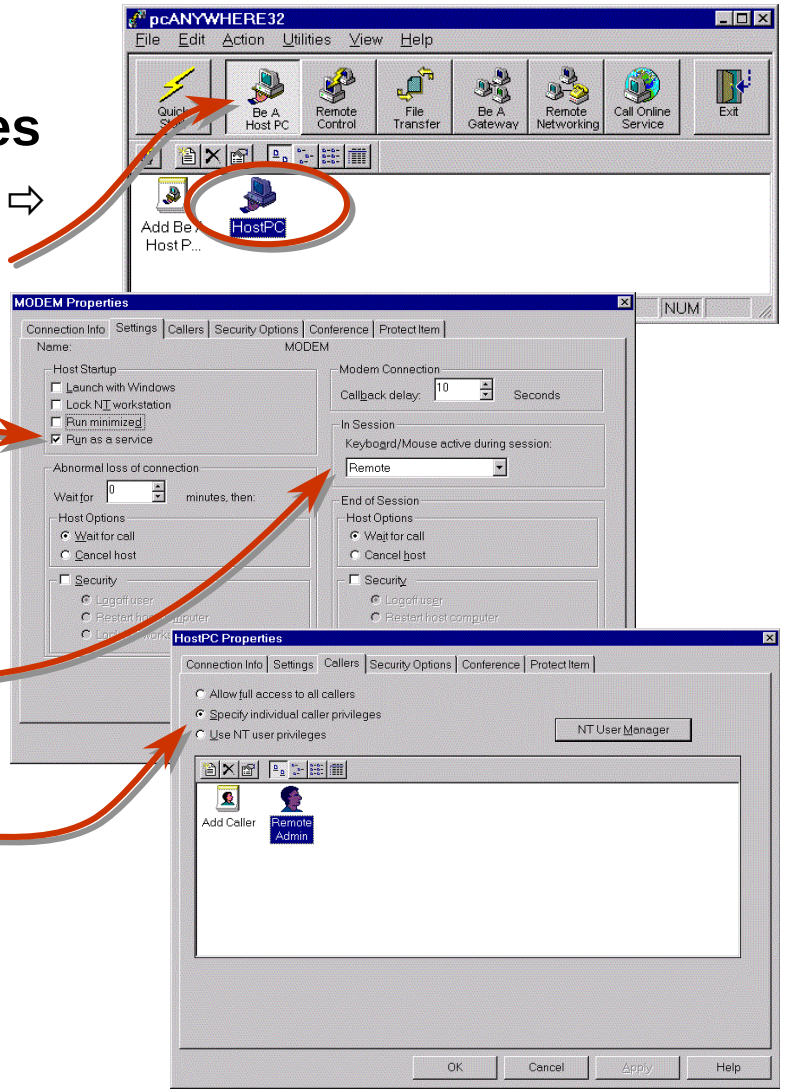
- Start ⇨ Programs ⇨ pcANYWHERE32 ⇨ **pcANYWHERE**
- Click **Quick Start**
- Select ⇨ **Add Be A Host PC Item**
- Assign a name for the **„HostPC“**, click **Next**
- Select the installed **Modem** from list of connection devices, modify the connection details if required
- Uncheck „Automatic Launch upon Wizard Completion“. Click **Finish**



Remote Access

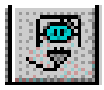
Configure Host Connection Properties

- Start ⇨ Programs ⇨ pcANYWHERE32 ⇨ **pcANYWHERE** ⇨ **Be A Host PC**
- Select Connection Icon
  - Properties, Settings:
  - **Uncheck** Run Minimized
  - Check Run as a Service
  - Select Keyboard/ Mouse Activity **Remote** only
  - Select the „**Properties, Callers**“ register card:
  - Select **Specify Individual Caller Privileges**, add the caller, provide Login & Password, Callback Option, Caller Rights: **Superuser**



Remote Access

Start Remote Session

- pcANYWHERE is installed and configured at the **Remote PC** and the **Host PC**
- On the **Host PC:**
  - Start ⇨ Programs ⇨ pcANYWHERE32 ⇨ **pcANYWHERE**
  - Select **Be A Host PC**
  - Double-Click Connection Icon: **„Waiting for Connection . . .“**
- On the **Remote PC:**
  - Start ⇨ Programs ⇨ pcANYWHERE32 ⇨ **pcANYWHERE**
  - Select **Remote Control**
  - Double-Click Connection Icon: **„Connecting to. . .“**
  - **Login** as specified at Remote PC (Caller Privileges)
  - Remote Screen appears locally, all local actions are performed on **RemotePC**
  - During Session: Mouse and Keyboard are **disabled** on Remote PC
  - **End Remote Session** by Clicking  in the Remote PC online Toolbar

End of the Training Course on Remote Access Service