

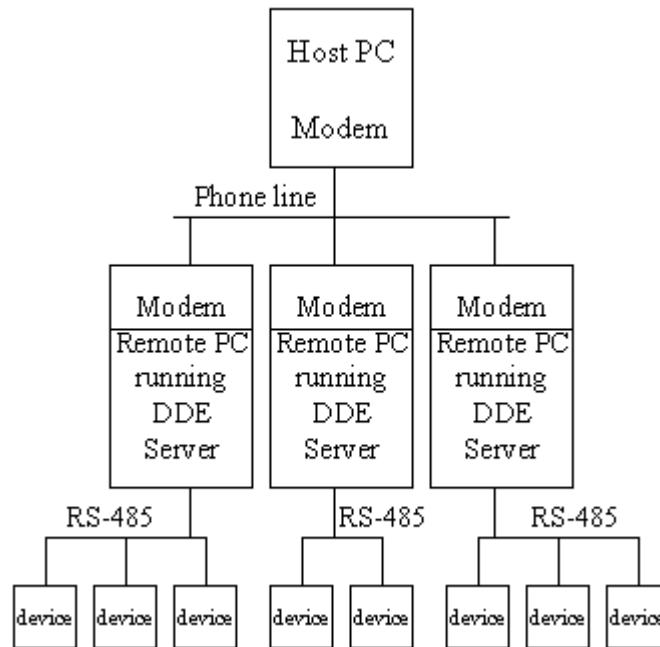
Technical Note #74

Remote access of PMCS networks

Subject: One host PC will automatically dial into several remote PMCS systems.

Applies To: PMCS 5.1 or higher

This note will give an overview of to create an automatic dialup scheme for a host node dialing into several slave nodes running a DDE server. It is intended to be only a guide on configuring a remote access network. The network topology is shown below:



Required software and its configurations:

Each PC must be running NT4.0 and have RAS(Remote Access Server) installed. RAS is a dial up network utility that is an installable option under NT. Instructions on installing and configuring RAS are included in the NT documentation.

See [App note 31](#) for complete instructions for configuring RAS on the host and view node.

Configuring the SCADA package to auto-dial remote sites:

A script must be designed in the host PC that will allow multiple sites to be called on a preset timed interval. The easiest way to call each site is to use the built in Dial-Up Networking utility of RAS. Configure each sites phone number, user name and password in Dial-Up Networking.

The script should make the following steps:

- 1: Call the site. The Dial-Up Networking system can be evoked by the command line "C:\winnt\system32\rasphone.exe -d 'entry_name' " Where "entry_name" is the name of the Dial-Up Networking entry name.
- 2: After the network connection is made the I/O should be reinitialized (if required by the SCADA package)
3. Collect data for a prescribed length of time
4. Hang up. Use the following command line "C:\winnt\system32\rasphone.exe -h 'entry_name'"
5. Call next site

Obviously this is a very simplified version of the scripting, but it does give the integrator an overview of needs to be done.

Some thing to remember:

A subroutine must monitor for modem or dial-up errors

The logic must account for a modem not "picking up"

Don't use Dial-Up Networking entry names longer than 8 characters,
Use only alphanumeric characters(The Dial-Up command line doesn't like it)

Related Notes: [App note 31](#)

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