



## RAS 1500 QUICK REFERENCE

This card contains procedures that configure the RAS 1500 to perform its most common applications. It includes procedures for the Command Line Interface (CLI) and Transcend Remote Access Manager (TRAM). For a complete explanation of these applications, see the System Management Guide on the Resource CD. For basic configuration, see the Getting Started Guide.

### Configuring Dial-in Using TRAM

Example values are enclosed within parentheses. For example, (16).

**Add an IP address pool:** Select the LAN port, right-click. Click Configure, click LAN Port, click Properties.

In the Configuration window, select the IP Address Pools parameter group (you might need to scroll down). Add a new row (click ). Specify the IP Address Pool Name (ippool), Pool Begin Address (192.168.10.1), and Pool Size (24). Save the settings (click ). Close the Configuration window.

**Add a user:** Select the RAS 1500 slice, right-click. Click Configure, click Security, click Users.

In the Configuration window, select the User General Settings parameter group. Add a new row. Specify the User Name (fred), User Password (hammer), and Service Type (network). Save the settings. Close the Configuration window.

### Configuring Dial-in Using the CLI



Example values are enclosed within angle brackets (<>). Do not include the brackets in the commands.

```
add ip pool <ippool>  
    initial_pool_address 192.168.10.1> size 24  
  
add user fred password hammer type network  
  
save all
```

## Configuring Telnet Dial-out Using TRAM

Example values are enclosed within parentheses. For example, (16).

**Add a modem group:** Select a modem, right-click. Click Configure, click <modem name>, click Properties.

In the Configuration window, select the Modem Groups parameter group. Add a new row . Specify the Modem Group Name (dialout). Save the settings (click .

Select the Modem Group Members parameter group. Add modems to the modem group you created. Save the settings. Close the Configuration window.

**Add a network service:** Select the LAN port, right-click. Click Configure, click LAN Port, click Properties.

In the Configuration window, select the IP Network Services parameter group. Specify the Network Service Name (dialout), Network Service Type (telnetd), Socket Number (6666), and Ancillary Data (auth=off,service\_type=dialout,modem\_group="dialout") parameters. Save the settings.

Select the Enable/Disable IP Network Services parameter group and confirm the Status setting for the network is "enable." Save the settings. Close the Configuration window.

## Configuring Telnet Dial-out Using the CLI

Example values are enclosed within angle brackets (<>). Do not include the brackets in the commands.

```
add modem_group <dialout>
  interfaces <rm0/slot:1/mod:[1-4]>


add network_service <dialout>
  server_type <telnetd> socket <6666>
  data <auth=off,service_type=dialout,
  modem_group="<dialouout">>

save all
```


## Configuring NCSI Dial-out Using TRAM

Example values are enclosed within parentheses. For example, (16).

**Add a system name:** Select the RAS 1500 slice, right-click. Click Configure, click <slice name>, click Properties.

In the Configuration window, select the Global Settings parameter group. Specify the System Name (NCSIUSER). Save the settings (click ). Close the Configuration window.

**Add a modem group:** Select a modem, right-click. Click Configure, click <modem name>, click Properties.

In the Configuration window, select the Modem Groups parameter group. Add a new row (click ). Specify the Modem Group Name (NCSIUSER). Save the settings.

Select the Modem Group Members parameter group. Add modems to the modem group you created. Save the settings. Close the Configuration window.

**Add an IPX network:** Select the LAN port, right-click. Click Configure, click LAN Port, click Properties.

In the Configuration window, select the IPX Network Settings parameter group. Add a new row. Specify the Network Name (ipxnet), Network Address (77), and Network Encapsulation Type (dsap). Save the settings.

Select the IPX System Settings parameter group. Specify the IPX Basic System Network Number (490dbc2b). Save the settings.

Select the Enable/Disable Networks parameter group and confirm the Status of the network is "enable." Save the settings.

**Add a network service:** Select the IP Network Services parameter group. Add a new row. Specify the Network Service Name (NCSIUSER), Network Service Type (DialOut), and Ancillary Data (modem\_group="NCSIUSER") parameters. Save the settings.

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## Configuring NCSI Dial-out Using TRAM (continued)

**Enable the network service:** Select the Enable/Disable IP Network Services parameter group and confirm the Status setting for the network is “enable.” Save the settings. Close the Configuration window.

**Set the security parameter:** This parameter is not supported in TRAM; use the following CLI command:

```
set dial_out security no
```

For NCSI dial out to work properly, the system name, modem group name, and network service name must be exactly the same, with exactly eight characters and uppercase (as shown in the example above—“NCSIUSER”).

## Configuring NCSI Dial-out Using the CLI

Example values are enclosed within angle brackets (<>). Do not include the brackets in the commands.



```
set system name <NCSIUSER>
add ipx network <ipxnet> address <77> frame <dsap>
set ipx system number <490dbc2b>
add modem_group <NCSIUSER>
    interfaces <rm0/slot:1/mod:[1-4]>
add network service <NCSIUSER> server_type dialout
    data modem_group="<NCSIUSER>"
set dial_out security no
save all
```

For NCSI dial out to work properly, the system name, modem group name, and network service name must be exactly the same, with exactly eight characters and uppercase (as shown in the example above—“NCSIUSER”).

## Configuring Terminal Server Using TRAM

Example values are enclosed within parentheses. For example, (16).

**Add a user:** Select the RAS 1500 slice, right-click. Click Configure, click Security, click Users.

In the Configuration window, select the User General Settings parameter group. Add a new row (). Specify the User Name (norm), User Password (sink), and Service Type (login). Save the settings (click ).

Select the User Login Settings parameter group. For the user you added, specify the Login Host IP Address (192.168.20.1). Save the settings. Close the Configuration window.

## Configuring Terminal Server Using the CLI

Example values are enclosed within angle brackets (<>). Do not include the brackets in the commands.

```
add user <norm> password <sink> type login
```



```
set login user <norm> login_service telnet  
login_host_ip_address <192.168.20.1>
```

```
save all
```

## Configuring LAN-to-LAN Routing Using TRAM

Example values are enclosed within parentheses. For example, (16).

**Add and configure a user:** Select the RAS 1500 slice, right-click. Click Configure, click Security, click Users.

In the Configuration window, select the User General Settings parameter group. Add a new row (). Specify the User Name (site\_a), User Password (steel), and Service Type (network,dial-out). Save the settings (click ).

Select the User Dialout Settings parameter group. For the user you added, specify the Primary Callback Number (15085551212), Secondary Callback Number (15085551616), and Dial Out Type (manual). Save the settings.

Select the User Protocol Settings parameter group. For the user you added, specify the Remote IP Address (192.168.30.1/C), RIP Type (RIPv1), IP Status (enabled), IPX Status (disabled), and AppleTalk Status (disabled). Save the settings.

Select the User PPP/MLPPP Settings parameter group. For the user you added, specify the Compression Type (none) and Send Password (technology). Close the configuration window.

### Configure authentication parameters:

Select the RAS 1500 slice, right-click. Click Configure, click <slice name>, click Properties.

Select the Global Settings parameter group. Specify Transmit Authentication Name (westboro). Save the settings. Close the Configuration window.

Select the RAS 1500 slice, right-click. Click Configure, click Security, click Servers.

Select the Authentication Settings parameter group. Specify PPP Authentication (pap). Save the settings. Close the Configuration window.

Configure the other side of the connection similarly.

## Configuring LAN-to-LAN Routing Using the CLI

Example values are enclosed within angle brackets (<>). Do not include the brackets in the commands.

```
add user <site_a> password <steel>
    type network,dial_out
set user <site_a> phone_number <15085551212>
set user <site_a>
    alternate_phone_number <15085551616>
disable user <site_a>
set dial_out user <site_a> site type manual
set network user <site_a>
    remote_ip_address <192.168.30.1>/<C>
set network user <site_a>
    ppp compression_algorithm none max_channels 1
set network user <site_a> rip ripv2
set system transmit_authentication_name <westboro>
set network user <site_a> send_password
    <technology>
set ppp receive authentication pap
set user <site_a> ipx disable appletalk
    disable bridging disable
enable user <site_a>
save all
```

Configure the other side of the connection similarly.

## Configuring Bridging Using TRAM

TRAM does not support bridging.

## Configuring Bridging using the CLI

Example values are enclosed within angle brackets (<>). Do not include the brackets in the commands.

```
add user <bridge> password <truck>
    type network, dial_out
```

```
add bridge network <bridge> enable yes
```

```
set user <bridge> phone_number <508-555-1212>
    alternate_phone_number <508-555-1313>
```

```
enable bridge spanning_tree
```

```
save all
```