

This is the DynIP Client™. The DynIP Client ensures that your registered Internet Name is always updated with your current IP address every time you connect to the Internet. It detects when a new connection has been made and automatically updates your Internet Name accordingly.

If you have not already done so, you should add this program to your **Startup** group, or configure it as an NT service (DynIP Client for Windows NT only) to ensure that it is started each time you boot your computer.



Enter your first name in the **First Name** field.

Enter your last name in the **Last Name** field.

You must enter a valid e-mail address in the **Email Address** field. The DynIP Server will e-mail you important registration information once your Internet Name has been successfully registered. Registrations that have an invalid e-mail address will be automatically removed.

Create your own personal Internet Name and enter it in the **Hostname** field. A valid hostname must be between 2 and 63 characters long. Numbers are permitted but the Hostname must start with a letter. Only the hyphen (-) character is permitted between letters. Offensive hostnames are not permitted.

During your initial registration you should leave the domain menu at the default setting (dynip.com).

**DynIP Basic** users can only use the default setting (dynip.com).

**DynIP Plus** users can select from the list of predetermined domain names in the drop down menu.

**DynIP Pro** users can use their own registered Private Domain name (yourname.com).

This field displays your Account Status. **Registered** (registration key); indicates your Internet Name is currently registered. **No Internet Name** (registration key); indicates you do not have an Internet Name registered. **Expired** (registration key); indicates this Client period has expired.

Select the **Register** or **Modify Button** to register/modify your Internet Name or your Registration Information. If the registration/modification is successful, you can immediately start using your new Internet Name to refer to your computer.

To delete your existing Internet Name, press the **Delete** Button. Now you can register a new Internet Name.

To update your DynIP Client with current account information, press the **Reload** Button. This is necessary if payment has been applied to your account after it has expired, or if you have purchased an upgraded service level. It is not necessary to use the Reload Button under normal circumstances. (**The Reload Button does not update your IP Address** - the DynIP Client does the automatically).

Select this option if you use a modem with a telephone line to connect to your Internet Service Provider (ISP).

Select this option if you use a cable modem or ISDN router to connect to the Internet. If you have a Local Area Network running DHCP or if you are using ADSL, you should also select this option.

Select this option if you use a modem with a telephone line but have a static (permanent) IP address. Enter your static IP address in the address field.

Select this option if you are connected to a corporate or campus Local Area Network (LAN) through an Ethernet or token ring card. If you are connected to a Wide Area Network (WAN) through a router and network and have a static (permanent) address card you may also select this option. If your Local Area Network runs DHCP (has dynamic addresses) you should select the Cable Modem option.

If you use a Dial-up Modem (Static IP Address) or a Local Area Network (LAN, Static IP Address) enter your static IP address in the **Address** field.

Update packet Type 1 is the default. Change this selection only as directed by DynIP Technical Support.

This is the default IP address of DynIP's offline server. If you wish to change the offline IP address enter the address in this field. This option is only for Dial-up Modem (most users) and Cable modem settings.

The **Test** Button displays your connection status and the IP address of your machine queried from DynIP's DNS servers. In some cases it may display the address of your cable modem, router or gateway. Changes may take up to 2 minutes before they are displayed.

To display the real-time clock on your desktop in 24 hour format select the **24-hour** option.

To display the real-time clock on your desktop in 12 hour format select the **12-hour** option.

To remove the real-time clock on your desktop select the **No Clock** option. To remove the floating window from your desktop, you also need to disable the **Display Charge Counter** option.

The DynIP Client includes a real-time clock to display on your desktop. The clock can also display connection charges and the total connection time to your Internet Service Provider (ISP).

You can change the color of the clock to **Green**. Press the **Apply** Button to update the changes.

You can change the color of the clock to [Blue](#). Press the **Apply** Button to update the changes.

You can change the color of the clock to **Red**. Press the **Apply** Button to update the changes.

You can change the color of the clock to *White*. Press the **Apply** Button to update the changes.

Enter the hourly charge for your Internet Service Provider (ISP) in the **ISP Connection Charge** field. If you have a flat-rate monthly plan enter zero (0) in this field.

Indicate any per-minute local or long-distance telephone costs in the **Phone Charge** field that may apply when you are connected to your ISP. If no phone charges are incurred enter zero (0) in this field.

The charge counter allows you to display your connection charges. To enable the charge counter click on the **Display Charge Counter** check box.

Press the **Reset Counter** Button to reset the current online time and charge counter to zero.

You can keep the clock window above every window on your desktop by checking the **Always on top** check box.

To add a daytime server, enter its complete Internet name or IP Address in the **Hostname** or **IP Address** field. Then, press the **Add Button** to add it to the top of the list.

Enter an optional description for the daytime server entered in the Hostname or IP Address field. If the entry already exists in the list, then its description is replaced with the one specified in the **Description** field.

The DynIP Client program allows you to set your computer's internal clock with a daytime server on the Internet. This ensures your computer's clock is always up-to-date. Examples of daytime servers are listed [here](#). You can check more than one time server.

To add a daytime server, enter its complete Internet Name or IP Address in the **Hostname** or **IP Address** field. Then, press the **Add Button** to add it to the top of the list.

To delete a daytime server, highlight it in the server list and press the **Delete** Button.

To enable synchronization of your PC clock to a time server on the Internet select the **Automatically set my clock** option. Your PC clock is synchronized every time a new connection to the Internet is established and every 24 hours thereafter.

This entry specifies the hostname of the DynIP server that this machine's Client should connect to. This should only be changed if you have access to a private DynIP Server on a corporate LAN.

Select the desired language. English is the default language.

If you have re-installed the DynIP Client or operating system, or want to transfer your existing Internet Name registration to this computer, enter your **registration key** in this field.

After you enter the registration key for the hostname you wish to restore press the **Activate** Button.

To activate the tip of the day select the **Show tips at start up** check box.

Your registration key will be displayed in the **About** Tab.

The **Copy Key** Button will copy your registration key to the Windows clipboard. You can then paste it into other applications like web forms.

If you are only using one domain with the DynIP Client, it will automatically be selected.

Enter a new Alias in the **Alias** field. An alias example would be www, ftp or mail.

Enter the Host Name that the Alias will point to in the **Points To** field.

Display list of the Alias records that have been entered.

Select the **Add** Button to include your new alias in the list for your domain. Select the **Apply** Button to upload your new domain settings to DynIP's server.

Select the Alias Name from the list that you would like to remove from your domain record. Select the **Delete** Button. Select the **Apply** Button to upload your new domain settings to DynIp's server.

Enter the name of the Preferred Mail Server in the **Mail Host** field (this must be the fully qualified domain name, i.e., *mail.yourdomain.com*).

Display list of the Mail Host records that have been entered.

Select the **Add** Button to include your mail host in the list for your domain. Select the **Apply** Button to upload your new domain settings to DynIP's server.

Select the name of the Mail Host that you want to remove from the list. Select the **Delete** Button. Select the **Apply** Button to upload changes to DynIP's server.

Check this box to activate the **Keep My Connection Alive** feature.

Enter your Service Provider's web page address in this field.

Click and drag the slider bar to select how long you can remain idle before you will be disconnected by your Service Provider. (If you are still being disconnected please adjust the slider bar accordingly).

Check the **Connection Made** option if your Service Provider monitors your Internet activity through the amount of connections.  
(This default options works for most Service Providers, if you find yourself still being disconnected please select the **Data Received** option).

Check the **Data Received** option if your Service Provider monitors your Internet activity through the amount of data received. (If you find yourself still being disconnected please select the **Connection Made** option).

Check this box to execute script files when you connect to or disconnect from the Internet.

Use this field to run an external file when you connect to the Internet. The scripts may be ANSI BASIC programs or DOS Batch Files.

The **Browse** Button allows you to look for script files. Sample scripts are provided.

The **Edit** Button is enabled when a valid filename is specified in the script field.

The **Test** Button will allow you to test your script as if you are connecting to the Internet.

Use this field to run an external file when you disconnect to the Internet. The scripts must be BASIC programs or DOS Batch Files.

The **Browse** Button allows you to look for script files. Sample scripts are provided.

The **Edit** Button is enabled when a valid filename is specified in the script field.

The **Test** Button will allow you to test your script as if you are connecting to the Internet.

Press the **Install Service** Button to add the DynIP Client as an NT service. The DynIP Client should be removed from the startup Group if this is done.

Press the **Uninstall Service** Button to remove the DynIP Client if it was previously installed as an NT service. The DynIP Client should be added to the Startup Group to continue automatic operation.



# Internet Name

Your Internet Name is the name of your computer on the Internet. The DynIP Client uses this name to track your Internet (IP) Address so that other computers can communicate with yours. An Internet Name is made up of two parts, the **Hostname** and the **Domain**.

An Internet Name: myfastpc.dynip.com

The **Hostname** (myfastpc) is the name of a certain computer or machine within an organization. The **Domain** (dynip.com) is the name of the organization.

## Registration

Enter your name, in the **First Name** and **Last Name** boxes, respectively. You **must** enter a valid e-mail address in the **E-mail Address** field. The DynIP Server will e-mail you important information once your Internet Name has been successfully registered. Registrations that have an invalid e-mail address will automatically be removed.

The **Hostname** and **Domain** fields form the complete Internet Name for your computer. A valid hostname is between 2 and 63 characters long. You can use numbers as long as the hostname starts with a letter. Offensive hostnames are not permitted. Enter your name in the **Hostname** field. In the **Domain** menu, DynIP Basic Users can only use the default setting (dynip.com). DynIP Plus Users can select from the list of predetermined domain names in the drop down menu. DynIP Pro Users can use their own registered Private Domain name (yourname.com).

To re-submit your Internet Name registration, select **Modify** (if this is the first registration select Register). If the registration is successful, you can immediately start using your new Internet Name to refer to your computer. If an error occurs during the registration, you should select the **Cancel** Button and make the necessary changes, then re-submit your registration by pressing the **Modify** Button.

Your account status will be displayed at the bottom of the Internet Name tab. The following are the account status messages:

- **Registered** (registration key)  
-Your Internet Name is currently registered.
- **No Internet Name** (registration key)  
-Indicates you do not have an Internet Name registered.
- **Expired** (registration key)  
-Your DynIP Client has expired.

## Modifying Your Internet Name or Registration Information

To modify your existing Internet Name Registration you can change any of the fields in the *Internet Name* tab. Once you finish making changes, press the **Modify** Button. When the modification is complete, press the **OK** Button.

## Deleting Your Internet Name

To delete your existing Internet Name registration, press the **Delete** Button in the *Internet Name* tab. Once your Internet Name has been deleted, it is resubmitted to the name pool where it is available for others to register. Now you can now register a new Internet Name.

## Retrieving Updates To Your Registration Information

To update your DynIP Client with the current account information from the DynIP Registration Servers, press the **Reload** Button. This is necessary if payment has been applied to your account

after it has expired, or if you have purchased an upgraded service level. It is not necessary to use the **Reload** Button under normal circumstances. **The Reload Button does not update your IP Address; the DynIP Client does this automatically!**

### **Transferring An Existing Internet Name**

If you have an existing Internet Name and would like to transfer it to this computer please refer to the *Settings* tab section.

# Domain

## Overview

The *Domain* tab is available when you subscribe to the DynIP Pro or the DynIP Multiple Domain Services. The Domain Manager allows you to control aliases (CNAMEs and A records) and mail preferences (MX record) for your domain(s).

## Aliases

Each computer on the Internet must have a valid Internet Name. Your computer's Internet Name is made up of the **Hostname** and the **Domain** shown in the *Internet Name* tab.

An **alias** is *another* name for your computer's Internet Name. Traditionally, aliases are created to direct services (like *www*) for your domain and have them point to the name of the computer that is running that service (i.e. the web server). That way you do not actually need to have a computer called *www*.

For example, the Internet Name in your DynIP Client may look like *myfastpc.yourdomain.com*. You can create a 'www' alias for *myfastpc.yourdomain.com* so your computer can also be called *www.yourdomain.com*.

You can set-up an unlimited number of aliases for your computer's Internet Name.

The following information will outline how to manage the aliases for your domain(s) using the Domain Manager tool in the DynIP Client

## To Add an Alias

Select a domain from the Domain pull-down menu (if you are only using one domain it will automatically be selected). Enter the alias in the **Alias** field. Enter the name of the host that this alias will point to in the **Points To** field. Press the **Add** button to include this alias in the list for your domain. To add more aliases repeat these steps. When you are finished select the **Apply** button to upload your new domain settings to our server and make the aliases available to the Internet.

### Note:

If your hostname in the Internet Name tab is 'www' you do not need an alias for 'www'.

## Wildcard Alias

Entering a "\*" in the alias field will create a wildcard alias so *\*.yourdomain.com* (or *anything.yourdomain.com*) will point to the specified machine.

## To Remove an Alias

Select a domain from the Domain pull-down menu. Select the alias from the **Alias** field that you would like to remove from your domain record. Select the **Delete** button. You will see a prompt box to confirm that you want to remove the selection from your domain record. Press the **Yes** button to continue to remove the alias. Press the **Apply** button to upload your new domain settings to our server. The alias will no longer be available to the Internet.

## Mail Preferences

**NOTE:** If you are running a mail server the mail preference feature will allow you to receive e-mail for any user under your domain (i.e. *anyuser@yourdomain.com*). This tells other mail servers that mail for *anyuser@yourdomain.com* should be sent to *anyuser@yourhost.yourdomain.com*.

When mail is sent to an address in your domain, the sender's computer will ask our name servers for the preferred computer to handle mail for that domain (the MX record). The MX record is a pointer, which will tell it which machine to attempt to deliver the e-mail to. Mail will be delivered to the first

choice MX record (with the lowest preference number) unless that computer is not available. If that mail delivery fails, then the sender's computer would try the second MX record (next lowest number) and the process repeats. In all cases these mail exchange computers must be set up to accept mail for all users in your domain and forward it to the correct place.

### **To Add A Mail Host**

Enter the name of the preferred mail server in the **Mail Host** field (fully qualified domain name, i.e., *mail.yourdomain.com*). Select the **Add** Button. This mail hostname will automatically be assigned the first choice designation of 0 in the Mail Preference List. Select the **Apply** Button to upload your new mail preference settings to our server.

**Note:** If you specify an IP address in the **Mail Host** field, an alias called *mail.yourdomain.com* is automatically created and inserted in your alias list. The alias name (*mail.yourdomain.com*) is then used as a mail host instead of the IP address.

### **To Remove A Mail Host**

Select the name of the Mail Host that you want to remove from the list. Select the **Delete** Button. You will see a prompt box to confirm that you want to remove the selection from your domain record. Select the **Yes** Button to continue to remove the mail host. Select the **Apply** Button to upload your new mail preference settings to our server.

# Connection

Your connection type identifies how your computer is connected to the Internet. You can test your connection and specify the address to use when your computer is not connected as well.

## Dial-up Modem (most users)

Select this option if you use a modem and telephone line to connect to your Internet Service Provider (ISP).

## Cable Modem (ISDN, ADSL)

Select this option if you use a cable modem or ISDN router to connect to the Internet. If you have a Local Area Network running DHCP or if you are using ADSL, you should also select this option.

## Dial-up Modem (Static IP Address)

Select this option if you use a dial-up modem but have a static IP Address. Enter your static IP Address in the address field.

## Local Area Network (LAN, Static IP Address)

Select this option if you are connected to a corporate or campus Local Area Network (LAN) through an Ethernet or token ring card. If you are connected to a Wide Area Network (WAN) through a router and network card you may also select this option. If your Local Area Network runs DHCP you should select the Cable Modem option.

## Update Packets (any connection type)

The default way to send update packets to DynIP's name servers is Type 1. If your DynIP Client is active (red ball) and you are still showing offline, then you should change the Update Packet type as directed by DynIP Technical Support.

## Note To AOL Customers

The DynIP Client looks for a Microsoft dialer. AOL does not use a standard dialer so the DynIP Client does not detect that you are connected to the Internet. To activate the DynIP Client change your connection type to Cable Modem.

## Offline IP Address

Specify the IP address that the DynIP Servers should return when you are offline (not connected). You could specify a backup computer to use if your main computer failed for example. The default offline IP address is set to DynIP's offline server, currently 204.225.44.11.

## Testing Your Internet Name

To test the IP Address that the DynIP Servers are supplying for your Internet Name, press the **Test** Button. If your DynIP Client is working normally, your own address, or that of your cable modem or ISDN router is displayed. If the Client is shutdown, your offline address should be displayed.

The following are the status messages you may receive:

- You are online at (IP Address)
  - the DynIP Name Servers are receiving updates from your computers (or cable modem or ISDN routers) IP Address.
- You are offline at (IP Address)
  - the DynIP Servers are not receiving updates and returned the offline IP Address specified in the *Connection* Tab.

**Changes may take up to two minutes before they are visible.**

# Clock

The DynIP Client includes a real-time clock to display on your desktop. The clock can also display connection charges and the total connection time to your Internet Service Provider (ISP).

## Clock Options

The DynIP Client includes a real-time clock that can also display total connection time to your ISP. You can change the time format by selecting the **24-hour**, **12-hour**, or **Online** option in the *Clock* tab. If you do not wish to display a clock on your desktop, select the **No Clock** option. To remove the floating window from your desktop, you also need to disable the **Display Charge Counter** option. Press the **Apply** Button to update any changes.

You can change the color of the clock to Red, Green, Blue or White. You can select these color schemes in the *Clock* tab. Press the **Apply** Button to update the changes.

## Charge Counter

The charge counter allows you to display your connection charges. To enable the charge counter click on the **Display Charge Counter** option in the *Clock* tab. Enter the hourly charge for your Internet Service Provider (ISP) in the **ISP Connection Charge** field. If you have a flat-rate monthly plan enter zero (0) in this field.

Indicate any per-minute local or long-distance telephone costs in the **Phone Charge** field that may apply when you are connected to your ISP. If no phone charges are incurred enter zero (0) in this field. Press the **Apply** Button to update the changes.

The **Reset Counter** Button resets the current online time and charge counter to zero.

## Clock Window Options

You can move the desktop clock window by dragging it by its title bar. If the title bar is not visible, click once anywhere on the digits of the clock or the charge counter. This will reveal the title bar, then drag the clock window to the desired position. To hide the title bar again, click once anywhere on the digits of the clock or the charge counter. The new clock window position will be saved, so that it reappears at exactly the same place where you left it, the next time you start up the DynIP Client.

You can keep the clock window above every window on your desktop by checking the **Always on top** option in the *Clock* tab. Press the **Apply** Button to update the change.

# Time Set

The DynIP Client program allows you to set your computer's internal clock with a *daytime server* on the Internet. This ensures that your computer's clock is always up-to-date. Ask your ISP for the hostname or IP address of the nearest machine that supports TCP port 37 daytime services. An example list of servers is provided in the initial configuration.

## Time Set

To enable synchronization of your PC clock to a time server on the Internet, select the **Automatically set my clock** option in the *Time Set* tab. Next, place a check mark in front of the time server address that is closest to your geographical location. You can determine which time server is closest to you by looking at the description for each time server entry.

You can check more than one time server; this is useful in the event that a selected time server is down. The time servers are contacted in the order in which they appear in the **Server Address** list until an answer is obtained. Your PC clock is synchronized every time a new connection to the Internet is established and every 24 hours after that.

## Adding A Daytime Server

To add a daytime server, enter its complete hostname or IP address in the **Hostname or IP Address** field. Then, press the **Add** button to add it the list. New servers are automatically placed at the top of the list.

## Deleting A Daytime Server

To delete a daytime server, highlight it in the server list and press the **Delete** Button.

## Modifying A Daytime Server

You can only modify the description of an existing time server. To modify a time server's address, you must delete the entry that you wish to modify and then re-add it to the list. To modify the description, select the address of the time server you wish to modify. The time server's address and optional description will appear in the **Hostname or IP Address** and **Description** fields respectively. You can then make changes to the description. When you have finished, press the **Add** Button to update the existing time sever entry in the list with the new description.

**DynIP does not maintain the default daytime servers provided. If you cannot connect to a daytime server in this list, it is possible the service is no longer available from that server. We suggest that you obtain a hostname from your ISP that provides daytime services.**

# Settings

## Language

Select the desired language. English is the default language.

## DynIP Server

This entry specifies the hostname of the DynIP Server that this machine's Client should connect to. Select the DynIP Dynamic DNS Server. This should only be changed if you have access to a private DynIP Server on a corporate LAN.

## Registration Key Transfer

If you have an existing Internet Name registration and would like to activate it on this computer, enter your existing registration key in the **Key** fields of the *Settings* tab. Next, press the **Activate** Button to retrieve your existing registration information from the DynIP server and re-activate your Internet Name. When the activation has been successful, press the **OK** Button.

You can also copy the *DYNIP.CFG* file from the computer that has the Internet Name registration to the new computer. This file is compatible between DynIP Clients for different operating systems and can be copied without a problem.

Note: The activation of the registration key does not remove the Internet Name registration from the computer that you are transferring from. This allows you to use the DynIP Client on two different operating systems (but not at the same time!). For example, under Linux or FreeBSD UNIX and Windows 95/98 operating on the same computer using a dual-boot feature.

## Show Tips At Start Up

The Tip of the Day can be activated by clicking the box to the left of the **Show tips at start up** field.

# Keep Alive

The *Keep Alive* tab is available when you subscribe to the DynIP Plus or Pro Service. Selecting the Keep My Connection Alive check box activates the Keep Alive feature.

**Note:** Your connection to the Internet may still be dropped due to line noise or line resets. The Keep Alive feature cannot prevent disconnects caused by these interruptions.

## ISP Web Address

Specify your Internet Service Provider's (ISP) World Wide Web (www) address in the **Address**. You can specify either a hostname or IP address. It is not necessary to include the *http://* part of the web site address.

## Connect Time

Specify how many minutes you can remain idle before your ISP disconnects you from the Internet. The majority of ISP's drop your connection after 20 minutes of inactivity. To determine the idle time that your ISP uses, connect to the Internet and close down all Internet applications but make sure you remain connected to the Internet. Then measure the elapsed time in minutes until your connection is closed. Move the **Idle time** slider to indicate this elapsed time.

## How Is Your Connection Monitored?

In this area indicate if your service provider monitors your connection by **Connections Made** or **Data Received** to see if it is active. Most ISP's monitor the amount of data transferred between your computer and the Internet over a certain time span to determine if your connection is still *alive*. If you are not sure what scheme your ISP uses, select the **Data Received** option. If your ISP monitors the number of connections that you make to www hosts, select the **Connection Made** options. This is the preferred option because it uses the least bandwidth.

The **Data Received** option causes the DynIP Client to transfer 8KB of data over the period of time specified in the **Idle time** setting. It is possible that your ISP uses a higher or lower value for the amount of data that needs to be transferred. If this is the case, you will have to modify the **Idle time** setting to be less or greater than actual.

# Script

The *Script* tab is available when you subscribe to the DynIP Plus or Pro Service. This feature can be used to start an external script when you connect or disconnect to the Internet. You can rotate log files and then start your web server, for instance.

## Connect Script

Use this field to run an external file when you connect to the Internet. The scripts must be BASIC programs (\*.scr) or DOS Batch (\*.bat) files.

The **Browse** Button allows you to look for script files. Samples scripts are provided.

The **Edit** Button is enabled when a valid filename is specified in the script field.

The **Test** Button will allow you to test your script as if you are connecting to the Internet.

To activate the script select the Execute Script Files upon Connect or Disconnect check box.

## Disconnect Script

Use this field to run an external file when you disconnect from the Internet. The scripts must be BASIC programs (\*.scr) or DOS Batch (\*.bat) files.

The **Browse** Button allows you to look for script files. Samples scripts are provided.

The **Edit** Button is enabled when a valid filename is specified in the script field.

The **Test** Button will allow you to test your script as if you are connecting to the Internet.

To activate the script select the **Execute Script Files upon Connect or Disconnect** check box.

## Basic Language Reserved Words

See Appendix in *Contents Help* for command list.

# DynIP Client Operation

The DynIP Client consists of two parts, the Client itself, which runs in the background (the 'Ball' Icon) and a Control Panel. The Client runs all the time managing your Internet Name. The Control Panel is only used to make changes to your settings.

## To Start the DynIP Client

To start the DynIP Client, Select Start->Programs->Dynip Client for Windows 4.0->DynIP Client. If the default options are used, this program is also placed in the Startup folder during the installation. This automatically starts the DynIP Client each time the computer starts. Once the Client program is running no other settings need to be made for your Internet Name to work. The DynIP Client is completely automatic!

## To Start the DynIP Client Control Panel

To access any of the DynIP Client Menus, *double-click* on the DynIP logo (the 'ball' icon) in the Windows 95/98 or Windows NT Task Bar (system tray) to open the Control Panel. The DynIP Control Panel icon is also available in the systems control panel folder (Start->Settings->Control Panel).

## DynIP Client Logo 'Ball' Icon

The DynIP Client Logo Icon (the ball) on the task bar indicates the state of the Client. The icon appears on your computers Task Bar (in the System Tray, at the right) whenever the DynIP Client is loaded. The ball turns red when your computer is connected to the Internet and DynIP is keeping your Internet Name up to date with your current address. A grey ball means that your Internet connection is down and DynIP is waiting for your computer to be reconnected. If you have *Time Set* enabled, you may occasionally see a small 'hour glass' beside the ball. This means that the DynIP Client is checking the time with an Internet Time Server and setting your clock.

You can see the current state of the DynIP Client by holding the mouse pointer over the 'ball' icon until the pop-up box appears. The following messages may appear:

- DynIP Client Initializing - the DynIP Client is starting up
- DynIP Client Not Connected - waiting for your dial-up connection to start
- DynIP Client Active - DynIP is keeping your Internet Name up to date
- DynIP Client Expired - The DynIP Client has expired
- DynIP Client No Internet Name - you do not have an Internet Name registered

# NT Service

The DynIP Client can be installed as a Windows NT service. This allows the Client to run when no one is logged into the NT Server console screen. The *NT Service* tab is only displayed in the Windows NT Client.

## Install NT Service

Press the **Install Service** Button to add the DynIP Client as an NT service. The DynIP Client should be removed from the Startup Group if this is done. If you change your connection type you will need to uninstall and reinstall the service.

## Uninstall NT Service

Press the **Uninstall Service** Button to remove the DynIP Client if it was previously installed as an NT service. The DynIP Client should be added to the Startup Group to continue automatic operation.

## Service Status

The Server Status area shows the current state of the DynIP Client as an NT Service. Possible messages here are:

- DynIP Client service not installed
- DynIP Client service installed; service running
- DynIP Client service installed; service not running

An installed Client can be started without rebooting the NT Server by selecting it in the Service Control Panel and pressing Start.

## Command Line Options

The DynIP Client program accepts a number of command-line options. Some of these have an effect on an already running copy of DYNIP.EXE. This allows you to modify the behavior of the client program without having to restart it.

- R** Reset the connection time and charge counter to zero. If the client program is not already running, then this option has no effect.
- C** Terminate (Close) the client program. The client first notifies the DynIP Server that you are disconnecting from the Internet. This is useful in your logout script. If the client program is not already running, then this option has no effect.
- I** Specify an alternate configuration file. This is required if you are executing the client program from a different directory than where the client program is installed in. For example;

```
c:\> DYNIP.EXE -lc:\dynip\dynip.cfg
```

# Appendix

## Glossary of Terms

Address	- see IP Address
Client	- a small computer that obtains services from a larger computer, see Server
Daytime server	- a computer that provides time services
Dial-Up	- a connection made with a modem through phone lines
DNS	- Domain Name System
Domain	- the organization part only of a Internet Name (i.e. dynip.com)
Dynamic	- changing, opposite of static
e-mail	- electronic mail
FTP	- File Transfer Protocol, a method of transferring files on a network
Hostname	- the name of a computer on the Internet (i.e. discovery.dynip.com)
Internet	- the global network of connected computers
Internet Name	- the name of a computer (i.e. myfastpc.dynip.com)
IP Address	- the numbers that describe a particular computer on the Internet
IP	- Internet Protocol
ISP	- Internet Service Provider
LAN	- Local Area Network
MB	- megabyte, 1 million (approx.) bytes
Modem	- a device that allows computers to talk through phone lines
Network	- a collection of computers connected together
Server	- a large computer that provides services to many smaller computers, see Client
Static	- fixed, permanent, opposite of dynamic
TCP	- Transmission Control Protocol
TCP/IP	- Transmission Control Protocol/Internet Protocol
UDP	- User Datagram Protocol
UTC	- Universal Coordinated Time, Greenwich Mean Time

## Basic Language Reserved Words

end	run	goto	rem	list	let
print	stop	delete	edit	input	clear
save	old	new	noop	resume	if
random	dim	for	next	gosub	return
on	error	?	'	auto	read
data	cls	restore	base	open	close
merge	quit	bye	exit	chain	def
cont	poke	linput	repeat	until	while
wend	renumber	fnend	fn	lset	rset
field	put	get	mid\$	defint	defstr
defdbl	defproc	deffn	opt	lprint	else
then	tab	step	to	and	or
xor	mod	<=	<>	>=	as
output	append	not	==	using	imp
eqv	right\$	left\$	string\$	erm\$	chr\$
str\$	space\$	xlate	mkis\$	mkds\$	hex\$
oct\$	bin\$	dec\$	upper\$	lower\$	date\$
sgn	len	abs	val	asc	instr
eof	posn	sqrt	log	exp	eval
int	peek	sin	cos	atan	mksi
mk\$	system	log10	tan	fix	bval

sinh	cosh	tanh	asinh	acosh	atanh
asin	acos	varptr	launch	max	min
cint	creal	rinstr	rnd	pi	erl
err	tim	syserr	date	sysvar	rad
deg	grad				

Options for non-standard (added) functions:

```
launch("Program filename", code)
```

code:

- 0 hide the window
- 1 Show Normal (let Windows determine position/ placement of Window)
- 2 Maximize Window
- 3 Minimize Window

sysvar(CONNECTSTATUS) = 1 If connected/ 0 Disconnected

sysvar(INTERNETNAME) = String variable equal to the FQDN of the registered Internet Name .

sysvar(IPADDRESS) = String of current IP Address of this host.

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