



Help for RAS

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Description

The RAS control gives your programs easy access to the RAS sub-system. Your program can select an Internet service from your phone book, dial and connect to the server, do any processing necessary (using our other Internet controls), and then disconnect.

File Name

MRAS1.VBX, MRAS32.OCX

ActiveX / OCX Object Name

Mabry.RASCtrl

ActiveX Compatibility

VB 4.0 (32-bit) and 5.0

ActiveX Built With

Microsoft Visual C++ v4

ActiveX - Required DLLs

MFC40.DLL (October 6th, 1995 or later)

OLEPRO32.DLL (October 6th, 1995 or later)

MSVCRT40.DLL (September 29th, 1995 or later)

VBX Object Type

mRAS

VBX Compatibility

VB 2.0, 3.0 and 4.0 (16-bit)

VBX Built With

Microsoft Visual C++ v1.5

Distribution Note When you develop and distribute an application that uses this control, you should install the control file into the user's Windows SYSTEM directory. The control file has version information built into it. So, during installation, you should ensure that you are not overwriting a newer version.

Close

RAS Properties

Properties that have special meaning for this control or that only apply to this control are marked with an asterisk (*).

- ***Action** Property
- ***Blocking** Property
- ***CallbackNumber** Property
- ***ConnectState** Property
- ***ConnectStateString** Property
- ***Domain** Property
- ***EntryConnected** Property
- ***EntryCount** Property
- ***EntryList** Property
- ***EntryName** Property
- ***Handle** Property
- ***LastError** Property
- ***LastErrorString** Property
- ***LogonName** Property
- ***LogonPassword** Property
- ***PhoneBook** Property
- ***PhoneNumber** Property
- ***RASAvailable** Property
- ***Version** Property

Close

RAS Events

Events that have special meaning for this control or that only apply to this control are marked with an asterisk (*).

***AsyncError** Event

***Done** Event

***Progress** Event

Close

RAS Methods

Methods that have special meaning for this control or that only apply to this control are marked with an asterisk (*).

*AboutBox Method

*Connect Method

*CreateEntry Method

*Disconnect Method

*EditEntry Method

*GetEntry Method

*Refresh Method

Close

Frequently Asked Questions

General Questions

I note that you can't change the dial-up networking (DUN) information as the details are held in the registry. Do you have a control that will let me change the DUN information?

Can RAS select the DUN setting to use to connect?

Is the Done event supposed to fire after I execute the Disconnect method?

How do I determine if a connection is already established?

When a "Connection Lost" dialog box pops up, I can't get RAS to re-dial. What do I do?

How can I monitor the status of a RAS connection?

Why am I still presented with the Win95 post dialup login screen, even though I've set the LogonName and Password properties?

Under NT, the modems connect but it does not authenticate. It appears to just sit there. What should I do?

I'm trying to use the RAS control in Windows 3.x but it says the file RASAPI16.DLL cannot be found. Where can I get this file?

Can I use the RAS control in Windows 3.x to access Internet Explorer's dialer?

I am using the TerminateProcess API call to allow the user to interrupt a connection attempt. However, the next time I try to establish the connection, I get an error 20602 "Port is already open". What can I do?

How can I use the RAS control to terminate a connection that it did not establish?

How can I "save Password" in the Entry? Each time I connect, I am asked for the Login and Password.

Internet Pack - General Questions

Why won't my Internet Pack VBXes load into VB?

Why do I get a GPF when I try to unload my form (or control) from the Done event?

With which TCP/IP stacks have your Internet controls been tested?

How do I enable/disable the Windows 95 Dial-Up Networking connect prompt when my application issues a Connect method?

Why won't my Internet Pack VBX load?

How do I convert my code from BLOCKING (Synchronous) to NON-BLOCKING (Asynchronous)?

How can I detect whether someone has entered an IP or host name?

What is the meaning of Error 20002 "unexpected server response"?

Can you recommend any good books that will help me understand Internet programming better?

Internet Pack - Blocking

I'm unclear on blocking. Can you explain it to me?

Should I use blocking or non-blocking calls?

Why do I keep getting the error "Busy executing asynchronous command"?

Why do I keep getting errors when using an Internet VBX control?

Internet Pack - Debugging

How do I tell what's happening when your control is talking to a server?

I note that you can't change the dial-up networking (DUN) information as the details are held in the registry. Do you have a control that will let me change the DUN information?

Frequently Asked Questions

Our RAS control's GetEntry method extracts the properties of a DUN configuration into the LogonName, LogonPassword, and Domain properties. Further, the EditEntry method brings up the Win95 property window for manual editing of additional properties.

At the present time, we do not have a control for programmatically editing registry keys directly. However, this can be accomplished through the GetSetting function and SaveSetting statement.

Can RAS select the DUN setting to use to connect?

Frequently Asked Questions

Yes. The RAS control can be used to select and connect via a particular DUN configuration, using the EntryName property and the GetEntry and Connect methods.

Is the Done event supposed to fire after I execute the Disconnect method?

Frequently Asked Questions

No, the Done event does not fire after a Disconnect because the Disconnect method executes immediately. Because the Disconnect method executes immediately, there is no need for Disconnect to be non-blocking (asynchronous).

How do I determine if a connection is already established?

Frequently Asked Questions

Set the EntryName property to the name of the connection you wish to check. After you do this, you can check the EntryConnected property. If EntryConnected is True, a connection is established for the entry specified by EntryName. Otherwise, there is no connection.

When a "Connection Lost" dialog box pops up, I can't get RAS to re-dial. What do I do?

Frequently Asked Questions

When the line is dropped, the Win95 Dialup Networking effectively "takes control" of the socket. Any attempts by the RAS to re-establish control results in an error until the DUN dialog box is either cleared or the connection restored.

You should be able re-establish the connection using the FindWindow/ShowWindow APIs and the SendKeys statement to press the "Re-connect" button.

How can I monitor the status of a RAS connection?

Frequently Asked Questions

There is a boolean property called `EntryConnected` that returns the status of the connection every time the property is read. You could add a Timer that simply checks the status at regular intervals:

```
Timer1_Timer()  
    If RAS1.EntryConnected = False Then  
        'do something  
    End If  
End Sub
```

Why am I still presented with the Win95 post dialup login screen, even though I've set the LogonName and Password properties?

Frequently Asked Questions

If the "Bring up Terminal window after/before dialing" is enabled for an entry, the OS will override the control and display the terminal window. Use the Properties of the entry to disable the terminal window.

Under NT, the modems connect but it does not authenticate. It appears to just sit there. What should I do?

Frequently Asked Questions

Make sure the entry is not configured to display a post dialup terminal window.

I'm trying to use the RAS control in Windows 3.x but it says the file RASAPI16.DLL cannot be found. Where can I get this file?

Frequently Asked Questions

The RAS control provides programatic access to the Remote Access Service (RAS) subsystem. RASAPI16.DLL is part of the RAS subsystem. Although Windows NT, Windows 95 and Windows For Workgroups offer RAS (or options to install a RAS), Windows 3.x does not.

Can I use the RAS control in Windows 3.x to access Internet Explorer's dialer?

Frequently Asked Questions

No. The dialer that comes with IE is not the same as the RAS subsystem.

I am using the TerminateProcess API call to allow the user to interrupt a connection attempt. However, the next time I try to establish the connection, I get an error 20602 "Port is already open". What can I do?

Frequently Asked Questions

Whenever the RAS control is unloaded from memory, the connection should be cleared. If the TerminateProcess is only terminating the process but not unloading your application, you could place the control on a separate form and unload the form that contains the control in the routine that terminates the process. Then, just reload this form. This way, your application can stay loaded but the connection can be cleared. This would require that all references to the control include the Form. In other words, mRas1.Connect would be changed to Form1.mRas1.Connect.

How can I use the RAS control to terminate a connection that it did not establish?

Frequently Asked Questions

You can't. The Mabry RAS control uses the RAS subsystem's DLLs to establish/terminate a connection, but like any DLL it can be called by another program and used in a separate address space. The programmers are looking into whether the control *should* terminate somebody else's connection.

How can I "save Password" in the Entry? Each time I connect, I am asked for the Login and Password.

Frequently Asked Questions

If using the VBX version, the OS will always prompt you for a logon name and password because the 16 bit version of the RAS subsystem doesn't support the GetEntry, EditEntry, or CreateEntry methods. You should be able to simply set these values, but you'll have to store them yourself in an INI file. If using the OCX version, it depends on whether or not the entry has the Save Password check box checked.

Why won't my Internet Pack VBXes load into VB?

Frequently Asked Questions

The VBXes are looking for a file called WINSOCK.DLL. This DLL should be in your Windows directory (most DLLs are located in your Windows\System directory -- this one is an exception). Look for WINSOCK.DLL. If it's not in your Windows directory, we recommend moving it there. Be sure to write down where it was, in case something goes wrong.

Also, check the date on your WINSOCK.DLL. If it's 1994 or before, you should look into getting a later version.

Why do I get a GPF when I try to unload my form (or control) from the Done event?

Frequently Asked Questions

This is not uncommon in many controls. If the form containing the control is unloaded but the control's C++ code for the event has to reference the control, the GPF will occur because the control is no longer available after it is has been unloaded. The solution is to enable a timer in the Done event and have the Timer unload the form (or control).

With which TCP/IP stacks have your Internet controls been tested?

Frequently Asked Questions

The majority of our internal testing is done on either NT's or Win95's standard stacks. We also utilize a 3.1 machine running Trumpet Winsock.

As part of our beta program, the controls wind up on a variety of stacks like Novell (known to have differences in Winsock, but should be OK with the latest patches from Novell), WFWG (also has a known problem that can cause FTP trouble, but MS has a patch for that product as well (article ID Q122544)).

The controls support the standard Winsock interface, so in general, the 16-bit environments that do not come with a default stack (i.e., Windows 3.x) may involve a bit more setup, but as long as some reputable stack is used, there shouldn't be any problems.

How do I enable/disable the Windows 95 Dial-Up Networking connect prompt when my application issues a Connect method?

Frequently Asked Questions

The fact that the DUN pops up when attempting to establish a network connection is a Win95 OS setting. To change this behavior, choose Dial Up Networking from "My Computer", and select "Settings..." from the "Connections" menu. Set the desired value in the "When establishing a network connection" frame.

Why won't my Internet Pack VBX load?

Frequently Asked Questions

Usually, the Internet VBXes won't load when the WINSOCK.DLL is missing. Make sure you have a current WINSOCK.DLL in the Windows or Windows\System sub-dir. Some versions of Windows 3.x WinSocks may actually require a TCP/IP connection.

How do I convert my code from BLOCKING (Synchronous) to NON-BLOCKING (Asynchronous)?

Frequently Asked Questions

A quick fix for converting Blocking code to non-blocking code is as follows:

```
Blocking=False
```

In the Declarations of the Form, add:

```
Private fDone as Boolean
```

In the Done event of the control set the fDone flag as shown:

```
Private Sub FTP1_Done()  
    fDone = True  
End Sub
```

Then, when invoking a method, just loop until the Done event sets the fDone flag.

```
fDone = False  
mMail1.Connect  
Do  
    DoEvents  
    'here is where your application  
    'can do other things  
Loop Until (fDone)
```

Note: you may want to set a timer in the loop so it will not loop endlessly should some problem occur. Also, depending upon your code you may want to conditionally set the fDone flag in the AsyncError event.

How can I detect whether someone has entered an IP or host name?

Frequently Asked Questions

You can use the function (below) to check for a host name or IP address.

```
' This Function receives a string argument and
' validates whether the string is a valid IP value,
' by verifying that it is in the format of w.x.y.z and
' that each octet is between 0 and 255
,
' Returns True if IP there are 4 octets and each is
' between 0 and 255.
,
' Returns False in all other cases
,
' Disclaimer -- this function will not detect certain
' values such as netmasks like 255.255.255.255,
' which meet the criteria but are not valid IPs.
,
```

```
Private Function Valid_IP(IP As String) As Boolean
    Dim i As Integer
    Dim dot_count As Integer
    Dim test_octet As String

    IP = Trim$(IP)

    ' make sure the IP long enough before
    ' continuing
    If Len(IP) < 8 Then
        Valid_IP = False
        Exit Function
    End If

    i = 1
    dot_count = 0
    For i = 1 To Len(IP)
        If Mid$(IP, i, 1) = "." Then
            ' increment the dot count and
            ' clear the test octet variable
            dot_count = dot_count + 1
            test_octet = ""
            If i = Len(IP) Then
                ' we've ended with a dot
                ' this is not good
                Valid_IP = False
                Exit Function
            End If
        Else
            test_octet = test_octet & Mid$(IP, i, 1)
            On Error Resume Next
            byte_check = CByte(test_octet)
            If (Err) Then
                ' either the value is not numeric
                ' or exceeds the range of the byte
                ' data type.
                Valid_IP = False
                Exit Function
            End If
        End If
    Next i
    Valid_IP = (dot_count = 3)
End Function
```

```
        End If
    End If
Next i
' so far, so good
' did we get the correct number of dots?
If dot_count <> 3 Then
    Valid_IP = False
    Exit Function
End If
' we have a valid IP format!
Valid_IP = True
End Function
```

What is the meaning of Error 2002 "unexpected server response"?

Frequently Asked Questions

The control has issued some command and the server did not accept it. It could be anything from an improperly formatted e-mail address to an unimplemented command on the server. You'll have to enable debugging to see what the command and reply are.

Can you recommend any good books that will help me understand Internet programming better?

Frequently Asked Questions

Any good book on TCP/IP would be helpful. From personal experience, tech support recommends "TCP/IP" by Dr. Sidnie Feit, published by McGraw-Hill . It is *not* written from a programming standpoint, but does include everything you'd want to know about the lower levels of the OSI stack (including TCP/UDP/IP, etc.).

I'm unclear on blocking. Can you explain it to me?

Frequently Asked Questions

When your application requests data from a network connection, it is hard to predict how long it will take before the data arrives and the call can complete. As a programmer, you have to determine whether to wait for the outcome of the call, or return immediately to your application and get the data *when* the data arrives.

Calls that wait, are called blocking calls. Because the call must complete before the application continues, blocking calls are also referred to as synchronous calls.

Calls that return control to your application immediately are called non-blocking calls. Since your application can perform tasks while the call is retrieving the data, non-blocking calls are also referred to as asynchronous calls.

Mabry Internet controls support both blocking and non-blocking calls.

It is important to note that even when using blocking calls, Windows can send event messages (such as Timer events, mouse clicks, etc.) to your application and it can respond to them. This can result in errors. It is the responsibility of the programmer to minimize the likelihood of these situations (such as disabling any Timers or command buttons that will interrupt the call) and handle any errors should such conditions arise.

Error handling is very important when issuing calls to a network. Always use some method of On Error handling when invoking blocking calls. For non-blocking calls, normal On Error handling is required in addition to responding to the AsyncError event.

Should I use blocking or non-blocking calls?

Frequently Asked Questions

It depends on your application. See the explanation on blocking calls for a complete description of blocking vs. non-blocking.

Why do I keep getting the error "Busy executing asynchronous command"?

Frequently Asked Questions

A call has been invoked but a previous call has not been completed yet. Either set Blocking mode to true or wait for the Done event before issuing subsequent commands.

It is important to note that even when using blocking calls, Windows can send event messages (such as Timer events, mouse clicks, etc.) to your application and it can respond to them. This can result in errors. It is the responsibility of the programmer to minimize the likelihood of these situations (such as disabling any Timers or command buttons that will interrupt the call) and handle any errors should such conditions arise.

Why do I keep getting errors when using an Internet VBX control?

Frequently Asked Questions

A call has been invoked but a previous call has not been completed yet. Either set Blocking mode to true or wait for the Done event before issuing subsequent commands.

It is important to note that even when using blocking calls, Windows can send event messages (such as Timer events, mouse clicks, etc.) to your application and it can respond to them. This can result in errors. It is the responsibility of the programmer to minimize the likelihood of these situations (such as disabling any Timers or command buttons that will interrupt the call) and handle any errors should such conditions arise.

How do I tell what's happening when your control is talking to a server?

Frequently Asked Questions

The Internet Pack controls have debugging support built-in. Simply set the Debug property on the control to 1 and then add the following code to the Debug event of the control:

```
Debug.Print Message
```

Registration Information

CREDITS

RAS was written by James Shields.

CONTACT INFORMATION

Orders, inquiries, technical support, questions, comments, etc. can be sent to mabry@mabry.com on the Internet. Our mailing address/contact information is:

Mabry Software, Inc.
Post Office Box 31926
Seattle, WA 98103-1926
Sales: 1-800-99-MABRY (U.S. Only)
Voice: 206-634-1443
Fax: 206-632-0272 or 206-364-3196
Web: <http://www.mabry.com>

COST

The price of RAS (control only) is US\$20 (US\$25 for International orders). The cost of RAS and the C/C++ source code (of the control itself) is US\$45 (US\$50 for International orders).

Prices are subject to change without notice.

DELIVERY METHODS

We can ship this software to you via air mail and/or e-mail.

Air Mail - you will receive disks, a printed manual, and printed receipt if you choose this delivery method. The costs are:

US\$5.00	US Priority Mail
US\$10.00	AirBorne Express 2nd Day (US deliveries only)
US\$15.00	AirBorne Express Overnight (US deliveries only)
US\$45.00	International AirBorne Express.

E-Mail - We can ship this package to you via e-mail. You need to have an e-mail account that can accept large file attachments (which includes CompuServe, AOL, and most Internet providers). If you choose this option, please note: a printed manual is not included. We will, however, e-mail a receipt to you.

Be sure to include your full mailing address with your order. Sometimes (on the Internet) the package cannot be e-mailed, so we are forced to send it through the normal mails.

CompuServe E-Mail - CompuServe members can use the software registration forum (GO SWREG) to register this package. RAS' SWREG ID number is 13886. The source code version's ID number is 13887. PLEASE NOTE: When you order through SWREG, we send the registered package to your CompuServe account (not your Internet or AOL account) within a few hours.

ORDER / PAYMENT METHODS

You can order this software by phone, fax, e-mail, mail. For your convenience, an order form has been provided that you can print out directly from this help file.

Please note that orders must include all information that is requested on our order form. Your shipment WILL BE DELAYED if we have to contact you for additional information (such as phone number, street address, etc.).

You can pay by credit card (VISA, MasterCard, American Express), check (U.S. dollars drawn on a U.S. bank), cash, International Money Order, International Postal Order, Purchase Order (established business entities only - terms net 30), or wire transfer.

WIRE TRANSFER INFORMATION

Here is the information you need regarding our account for a wire funds transfer:

Bank Name: SeaFirst - Stone Way Branch
Bank Address: 3601 Stone Way North
Seattle, WA 98103
Bank Phone: 206-585-4951
Account Name: Mabry Software, Inc.
Routing Number: 12000024
Account Number: 16311706

If you are paying with a wire transfer of funds, please add US\$12.50 to your order. This is the fee that SeaFirst Bank charges Mabry Software. Also, please ADD ANY ADDITIONAL FEES THAT YOUR BANK MAY CHARGE for wire transfer service. If you are paying with a wire transfer, we must have full payment deposited to our account before we can ship your order.

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RAS Order Form

Use the Print Topic... command from the File menu to print this order form.

Mail this form to: Mabry Software, Inc.
Post Office Box 31926
Seattle, WA 98103-1926
Phone: 206-634-1443
Fax: 206-632-0272 or 206-364-3196
Internet: mabry@mabry.com
Web: www.mabry.com

Where did you get this copy of RAS?

Name: _____

Ship to: _____

Phone: _____

Fax: _____

E-Mail: _____

MC/VISA/AMEX: _____ exp. _____

P.O. # (if any): _____ Signature _____

qty ordered _____ REGISTRATION
\$20.00 (\$25.00 international). Check or money order in U.S.
currency drawn on a U.S. bank. Add \$5.00 per order for shipping
and handling.

qty ordered _____ SOURCE CODE AND REGISTRATION
\$45.00 (\$50.00 international). Check or money order in U.S.
currency drawn on a U.S. bank. Add \$5.00 per order for shipping
and handling.

Error Codes

Value	Description
20601	Invalid Port Handle
20602	Port Already Open
20603	Buffer Too Small
20604	Wrong Info Specified
20605	Cannot Set Port Info
20606	Port Not Connected
20607	Event Invalid
20608	Device Does Not Exist
20609	Device Type Does Not Exist
20610	Buffer Invalid
20611	Route Not Available
20612	Route Not Allocated
20613	Invalid Compression Specified
20614	Out Of Buffers
20615	Port Not Found
20616	Async Request Pending
20617	Already Disconnecting
20618	Port Not Open
20619	Port Disconnected
20620	No Endpoints
20621	Cannot Open Phonebook
20622	Cannot Load Phonebook
20623	Cannot Find Phonebook Entry
20624	Cannot Write Phonebook
20625	Corrupt Phonebook
20626	Cannot Load String
20627	Key Not Found
20628	Disconnection
20629	Remote Disconnection
20630	Hardware Failure
20631	User Disconnection
20632	Invalid Size
20633	Port Not Available
20634	Cannot Project Client
20635	Unknown
20636	Wrong Device Attached
20637	Bad String
20638	Request Timeout
20639	Cannot Get LANA
20640	NetBIOS Error
20641	Server Out Of Resources

20642 Name Exists On Net
20643 Server General Net Failure
20645 Auth Internal
20646 Restricted Logon Hours
20647 Account Disabled
20648 Password Expired
20649 Not Dial In Permission
20650 Server Not Responding
20651 From Device
20652 Unrecognized Response
20653 Macro Not Found
20654 Macro Not Defined
20655 Message Macro Not Found
20656 DefaultOFF Macro Not Found
20657 File Count Not Be Opened
20658 Device Name Too Long
20659 Device Name Not Found
20660 No Responses
20661 No Command Found
20662 Wrong Key Specified
20663 Unknown Device Type
20664 Allocating Memory
20665 Port Not Configured
20666 Device Not Ready
20667 Reading INI File
20668 No Connection
20669 Bad Usage In INI File
20670 Reading Section Name
20671 Reading Device Type
20672 Reading Device Name
20673 Reading Usage
20674 Reading Max Connection BPS
20675 Reading Max Carrier BPS
20676 Line Busy
20677 Voice Answer
20678 No Answer
20679 No Carrier
20680 No Dialtone
20681 In Command
20682 Writing Section Name
20683 Writing Device Type
20684 Writing Device Name
20685 Writing Max Connection BPS
20686 Writing Max Carrier BPS
20687 Writing Usage

20688 Writing DefaultOFF
20689 Reading DefaultOFF
20690 Empty INI File
20691 Authentication Failure
20692 Port Or Device
20693 Not Binary Macro
20694 DCB Not Found
20695 State Machines Not Started
20696 State Machines Already Started
20697 Partial Response Looping
20698 Unknown Response Key
20699 Receive Buffer Full
20700 Command Too Long
20701 Unsupported BPS
20702 Unexpected Response
20703 Interactive Mode
20704 Bad Callback Number
20705 Invalid Auth State
20706 Writing Init BPS
20707 X25 Diagnostic
20708 Account Expired
20709 Changing Password
20710 Overrun
20711 RASMAN Cannot Initialize
20712 Bipler Port Not Available
20713 No Active ISDN Lines
20714 No ISDN Channels Available
20715 Too Many Line Errors
20716 IP Configuration
20717 No IP Addresses
20718 PPP Timeout
20719 PPP Remote Terminated
20720 PPP No Protocols Configured
20721 PPP No Response
20722 PPP Invalid Packet
20723 Phone Number Too Long
20724 IPXCP No Dialout Configured
20725 IPXCP No Dialin Configured
20726 IPXCP Dialout Already Active
20727 Accessing TCPCFGDLL
20728 No IP RAS Adapter
20729 SLIP Requires IP
20730 Projection Not Complete
20731 Protocol Not Configured
20732 PPP Not Converging

20733 PPP CP Rejected
20734 PPP LCP Terminated
20735 PPP Required Address Rejected
20736 PPP NCP Terminated
20737 PPP Loopback Detected
20738 PPP No Address Assigned
20739 Cannot Use Logon Credentials
20740 TAPI Configuration
20741 No Local Encryption
20742 No Remote Encryption
20743 Remote Requires Encryption
20744 IPXCP Net Number Conflict
20745 Invalid SMM
20746 SMM Uninitialized
20747 No MAC For Port
20748 SMM Timeout
20749 Bad Phone Number
20750 Wrong Module

See Also

[**Connect** Method](#)

[**CreateEntry** Method](#)

[**Disconnect** Method](#)

[**Done** Event](#)

[**EditEntry** Method](#)

[**GetEntry** Method](#)

[**Refresh** Method](#)

See Also

[Action Property](#)

[Done Event](#)

[LastError Property](#)

See Also

[**Action** Property](#)

[**AsyncError** Event](#)

[**Done** Event](#)

[**LastError** Property](#)

See Also

[**Action** Property](#)

[**Connect** Method](#)

[**Domain** Property](#)

[**EntryCount** Property](#)

[**EntryList** Property](#)

[**EntryName** Property](#)

[**PhoneNumber** Property](#)

[**Refresh** Method](#)

See Also

[**Action** Property](#)

[**Connect** Method](#)

[**Domain** Property](#)

[**EntryCount** Property](#)

[**EntryList** Property](#)

[**EntryName** Property](#)

[**PhoneNumber** Property](#)

[**PhoneBook** Property](#)

[**Refresh** Method](#)

See Also

[Action](#) Property

[Connect](#) Method

[ConnectStateString](#) Property

[Done](#) Event

See Also

[Action](#) Property

[Connect](#) Method

[ConnectState](#) Property

[Done](#) Event

See Also

[**Action** Property](#)

[**EditEntry** Method](#)

[**EntryCount** Property](#)

[**EntryList** Property](#)

[**EntryName** Property](#)

[**LastError** Property](#)

[**PhoneBook** Property](#)

See Also

Action Property

Connect Method

LastError Property

See Also

[**Action** Property](#)

[**CallbackNumber** Property](#)

[**Connect** Method](#)

[**EntryCount** Property](#)

[**EntryList** Property](#)

[**EntryName** Property](#)

[**PhoneNumber** Property](#)

[**Refresh** Method](#)

See Also

[**AsyncError** Event](#)

[**ConnectState** Property](#)

[**ConnectStateString** Property](#)

[**LastError** Property](#)

[**LastErrorString** Property](#)

[**Progress** Event](#)

See Also

[**Action** Property](#)

[**CreateEntry** Method](#)

[**EntryCount** Property](#)

[**EntryList** Property](#)

[**EntryName** Property](#)

[**LastError** Property](#)

[**PhoneBook** Property](#)

See Also

EntryName Property

See Also

[Action](#) Property

[EntryList](#) Property

[Refresh](#) Method

See Also

[**Action** Property](#)

[**EntryCount** Property](#)

[**EntryName** Property](#)

[**Refresh** Method](#)

See Also

[**Action** Property](#)

[**Connect** Method](#)

[**EntryCount** Property](#)

[**EntryList** Property](#)

[**PhoneNumber** Property](#)

[**Refresh** Method](#)

See Also

Action Property

CreateEntry Method

EditEntry Method

See Also

Action Property

Connect Method

Disconnect Method

See Also

[Action](#) Property

[AsyncError](#) Event

[Done](#) Event

[LastErrorString](#) Property

See Also

LastError Property

See Also

LogonPassword Property

See Also

LogonName Property

See Also

Action Property

Connect Method

CreateEntry Method

Disconnect Method

EditEntry Method

GetEntry Method

See Also

[**Action** Property](#)

[**CallbackNumber** Property](#)

[**Connect** Method](#)

[**Domain** Property](#)

[**EntryCount** Property](#)

[**EntryList** Property](#)

[**EntryName** Property](#)

[**PhoneNumber** Property](#)

[**Refresh** Method](#)

See Also

[Action](#) Property

[Connect](#) Method

[ConnectState](#) Property

[ConnectStateString](#) Property

[Done](#) Event

See Also

[**Action** Property](#)

[**EntryCount** Property](#)

[**EntryList** Property](#)

[**EntryName** Property](#)

[**LastError** Property](#)

[**PhoneBook** Property](#)

AboutBox Method

[Error Codes](#)

[Frequently Asked Questions](#)

Description

displays the About Box for the control.

Syntax

object.**AboutBox**

The syntax of the **AboutBox** method has these parts:

<u>Part</u>	<u>Description</u>
<i>object</i>	Required. A RAS control.

Remarks

This method displays the About Box for this control to display copyright information.

VBX Note: This method (and its [Action property](#) equivalent) is not available in the VBX version of this control.

Action Property

[See Also](#)

[Error Codes](#)

[Frequently Asked Questions](#)

Description

Causes control to initiate a command / method.

Syntax

object.Action [= *integer*]

The syntax of the **Action** property has these parts:

Part	Description
<i>object</i>	A RAS control.
<i>integer</i>	An integer that specifies the action to perform.

Remarks

Setting this property makes the RAS control perform an action. The action depends on the value set. RAS accepts the following:

Constant	Value	Description
RasActionNone	0	No action
RasActionConnect	1	Connect server (Connect)
RasActionGetEntry	2	Get phone book entry (GetEntry). Only available in the ActiveX / OCX version.
RasActionDisconnect	3	Disconnect from server (Disconnect)
RasActionRefresh	4	Refresh phone book list (Refresh)
RasActionCreateEntry	5	Create entry in phone book (CreateEntry) Only available in the ActiveX / OCX version.
RasActionEditEntry	6	Edit entry in phone book (EditEntry) Only available in the ActiveX / OCX version.

This property is present in VBX and OCX versions of this control. It is in the OCX version to maintain property compatibility. OCX users can use this property or the method equivalents to perform actions.

VBX Note: Methods are not available in the VBX version of this control. Methods are only in the ActiveX / OCX version. When using the VBX, you must use the [Action property](#) instead of the equivalent method.

Data Type

Integer

AsyncError Event

[See Also](#)

[Error Codes](#)

[Frequently Asked Questions](#)

Description

Fired when an error occurs during asynchronous operations

Syntax

Sub *object* **AsyncError**([*index* **As Integer**,] *errornumber* **As Integer**, *errormessage* **As String**)

The syntax of the **AsyncError** event has these parts:

Part	Description
<i>object</i>	A RAS control.
<i>index</i>	An integer that identifies a control if it's in a control array.
<i>errornumber</i>	An integer that holds the current error number.
<i>errormessage</i>	A string expression that holds text describing the current error.

Remarks

If an error occurs during the execution of asynchronous commands (only possible when [Blocking](#) is set to `False`) the program is notified by firing the `AsyncError` event.

Blocking Property

[See Also](#)

[Error Codes](#)

[Frequently Asked Questions](#)

Description

Determines if any methods or actions are blocking.

Syntax

object.**Blocking** [= *boolean*]

The syntax of the **Blocking** property has these parts:

<u>Part</u>	<u>Description</u>
<i>object</i>	A RAS control.
<i>boolean</i>	A boolean flag that determines if the control waits until a command is finished, or, returns control immediately and then fires an event when done.

Remarks

If this property is set to True, any commands using either the [Action property](#) or any of the methods will not return to your code until the command completes. In other words, the command will be handled synchronously.

If this property is false, any commands are handled asynchronously. They return to you immediately. You are notified of completion with the [Done event](#). When the user-interface requires that the user be able to cancel file transfers, it is recommended that Blocking be set to False so that your program can respond quickly to user actions.

Important Note: The Blocking property must not be changed while a connection is established. You should only change the Blocking property when the control is not connected to a server. Changing the Blocking property while connected could cause some strange behavior in the control.

Data Type

Integer (boolean)

CallbackNumber Property

[See Also](#)

[Error Codes](#)

[Frequently Asked Questions](#)

Description

Determines the number that the server will call back during the connection process.

Syntax

object.**CallbackNumber** [= *string*]

The syntax of the **CallbackNumber** property has these parts:

Part	Description
<i>object</i>	A RAS control.
<i>string</i>	A string expression that specifies a phone number.

Remarks

This property specifies a callback phone number (if one is needed). If this property is empty, callback is not used. Callbacks are only made if both the server and the local RAS sub-system are setup to do so.

Data Type

String

ConnectStateString Property

[See Also](#)

[Error Codes](#)

[Frequently Asked Questions](#)

Description

Holds the human readable string that corresponds to the value in the [ConnectState property](#).

Syntax

object.**ConnectStateString**

The syntax of the **ConnectStateString** property has these parts:

Part	Description
<i>object</i>	A RAS control.

Remarks

This property contains the human readable string that holds the current state of the connection process (dialing). It contains a string which describes the value of ConnectState.

This property is read-only and only available at run-time. This property only holds a meaningful value while RAS connects to a server.

Data Type

String

Connect Method

[See Also](#)

[Error Codes](#)

[Frequently Asked Questions](#)

Description

This method makes the RAS sub-system connect to the specified Internet server.

Syntax

object.**Connect**

The syntax of the **Connect** method has these parts:

Part	Description
<i>object</i>	Required. A RAS control.

Remarks

This method causes the RAS subsystem to dial the specified server (specified by [PhoneBook](#) and [EntryName](#) or by [PhoneNumber](#)).

The simplest way to dial is to set the [PhoneBook](#) and [EntryName](#) properties. Then, use the [GetEntry method](#) (to ensure that all of the properties are filled with their appropriate values). **Note:** It is very important to use the [GetEntry method](#) (or its [Action property](#) equivalent) -- this will ensure that the other properties, such as [LogonName](#) and [LogonPassword](#), are set properly from the phone book.

Or, you can set the [PhoneNumber](#), [LogonName](#) and [LogonPassword](#) properties. Then execute the [Connect method](#). This, however, is not the recommended method. It is far better to have a phone book entry and use it to dial.

While this method executes, your program will receive the [Progress event](#). In this event, your program can access the [ConnectState](#) and [ConnectStateString](#) properties to follow the progress of the dialing / connection. The connection process is not complete until the [ConnectState](#) property reaches either connected (8192) or disconnected (8193).

If the [Blocking property](#) is True, you can cancel a connection attempt by using the [Disconnect method](#) (or its [Action](#) equivalent).

Windows 95 Note: all phone book entries are kept in the registry. So, the [PhoneBook property](#) is ignored.

VBX Note: Methods are not available in the VBX version of this control. Methods are only in the ActiveX / OCX version. When using the VBX, you must use the [Action property](#) instead of the equivalent method.

ConnectState Property

[See Also](#)

[Error Codes](#)

[Frequently Asked Questions](#)

Description

Holds the status of dialing / connecting.

Syntax

object.**ConnectState**

The syntax of the **ConnectState** property has these parts:

Part	Description
<i>object</i>	A RAS control.

Remarks

This property contains the current state of dialing (using the [Connect method](#) or [Action property](#)). You should not rely on these values to come in any particular order during a connection.

Value	Description
0	Open Port
1	Port Opened
2	Connect Device
3	Device Connected
4	All Devices Connected
5	Authenticate
6	Authenticate Notify
7	Authenticate Retry
8	Authenticate Callback
9	Authenticate Change Password
10	Authenticate Project
11	Authenticate Link Speed
12	Authenticate Ack
13	ReAuthenticate
14	Authenticated
15	Prepare for Callback
16	Wait for Modem Reset
17	Wait for Callback
18	Projected
19	Start Authentication
20	Callback Complete
21	Logon Network
4096	Interactive
4097	Retry Authentication
4098	Callback Set By Caller
4099	Password Expired
8192	Connected
8193	Disconnected. In this case, the ConnectStateString property may contain the reason for not connecting. The string may be one of the following: Disconnected - Line Busy

Disconnected - Voice Answer
Disconnected - No Answer
Disconnected - No Carrier
Disconnected - No Dialtone
Disconnected

This property is read-only and only available at run-time. This property only holds a meaningful value while RAS connects to a server.

Data Type

Integer

CreateEntry Method

[See Also](#)

[Error Codes](#)

[Frequently Asked Questions](#)

Description

Displays dialog box which allows user to create a phone book entry.

Syntax

object.**CreateEntry**

The syntax of the **CreateEntry** method has these parts:

Part	Description
<i>object</i>	Required. A RAS control.

Remarks

The CreateEntry method (or its [Action property](#) equivalent) displays a dialog box which allows the user to create a new phone book entry. The entry ends up in the phone book specified by the [PhoneBook property](#).

After this you should execute the [Refresh method](#) (or [Action](#)) to get the list of entries in the current phone book.

Windows 95 Note: all phone book entries are kept in the registry. So, the [PhoneBook property](#) is ignored.

VBX Note: This method (and its [Action property](#) equivalent) is not available in the VBX version of this control.

Disconnect Method

[See Also](#)

[Error Codes](#)

[Frequently Asked Questions](#)

Description

Makes RAS control disconnect from the Internet server.

Syntax

object.**Disconnect**

The syntax of the **Disconnect** method has these parts:

<u>Part</u>	<u>Description</u>
<i>object</i>	Required. A RAS control.

Remarks

This method disconnects the computer from the Internet server. If there is no connection, this method does nothing.

This action executes immediately. Even when [Blocking](#) is False, this method does not fire the [Done event](#).

VBX Note: Methods are not available in the VBX version of this control. Methods are only in the ActiveX / OCX version. When using the VBX, you must use the [Action property](#) instead of the equivalent method.

Domain Property

[See Also](#)

[Error Codes](#)

[Frequently Asked Questions](#)

Description

Specifies domain where authentication should occur.

Syntax

object.**Domain** [= *string*]

The syntax of the **Domain** property has these parts:

<u>Part</u>	<u>Description</u>
--------------------	---------------------------

<i>object</i>	A RAS control.
---------------	----------------

<i>string</i>	A string expression that specifies a domain name.
---------------	---

Remarks

This property determines the domain where user authentication should occur. If this property is blank, the Internet server's domain is used to authenticate.

Normally this property should be blank.

Data Type

String

Done Event

[See Also](#)

[Error Codes](#)

[Frequently Asked Questions](#)

Description

This event procedure is fired when the control completes an action or method.

Syntax

Sub *object* **Done**([*index* **As Integer**])

The syntax of the **Done** event has these parts:

Part	Description
<i>object</i>	A RAS control.
<i>index</i>	An integer that identifies a control if it's in a control array.

Remarks

Fired when a method has finished executing without error. If an error occurs during execution of any method and Blocking is True, then an error is thrown by the control and must be handled by **On Error**.

When Blocking is False, an error may be thrown during execution of a method as it is when Blocking is True. However, errors which occur during background execution of methods when Blocking is False will result in firing of the AsyncError event.

EditEntry Method

[See Also](#)

[Error Codes](#)

[Frequently Asked Questions](#)

Description

Displays dialog box where the user can edit a phone book entry.

Syntax

object.**EditEntry**

The syntax of the **EditEntry** method has these parts:

Part	Description
<i>object</i>	Required. A RAS control.

Remarks

The EditEntry method (or its [Action property](#) equivalent) displays a dialog box which allows the user to edit an existing phone book entry. The entry ends up in the phone book specified by the [PhoneBook property](#).

Windows 95 Note: all phone book entries are kept in the registry. So, the [PhoneBook property](#) is ignored.

VBX Note: This method (and its [Action property](#) equivalent) is not available in the VBX version of this control.

EntryConnected Property

[See Also](#)

[Error Codes](#)

[Frequently Asked Questions](#)

Description

Returns whether or not the RAS entry (specified by [EntryName](#)) is connected.

Syntax

object.**EntryConnected**

The syntax of the **EntryConnected** property has these parts:

Part	Description
<i>object</i>	A RAS control.

Remarks

This property returns a boolean which is set to True if the RAS entry named by the [EntryName property](#) is connected at the time the property is checked. [Refresh](#) is not required to update this property and the connection status is checked each time the the EntryConnected property is examined.

Data Type

Integer (boolean)

EntryCount Property

[See Also](#)

[Error Codes](#)

[Frequently Asked Questions](#)

Description

Returns the number of items in the [EntryList](#) property array.

Syntax

object.**EntryCount**

The syntax of the **EntryCount** property has these parts:

Part	Description
<i>object</i>	A RAS control.

Remarks

This property returns the number of phone book entries in the [EntryList](#) property array.

This property is filled when the control first loads and when the [Refresh method](#) is executed. This property is read-only at run-time only.

Data Type

Integer

EntryList Property

[See Also](#)

[Error Codes](#)

[Frequently Asked Questions](#)

Description

Holds the list of entries from a phone book.

Syntax

object.**EntryList** [= *index*]

The syntax of the **EntryList** property has these parts:

Part	Description
-------------	--------------------

<i>object</i>	A RAS control.
---------------	----------------

<i>index</i>	An integer that identifies an entry in the property array.
--------------	--

Remarks

This property returns the names of phone book entries found in the phone book specified by the [PhoneBook property](#). The names in this list are used to fill the [EntryName property](#) when connecting to a server (via the Connect method) or editing an entry.

This property is filled when the control first loads and when the [Refresh method](#) is executed. This property is read-only at run-time only.

Data Type

String

EntryName Property

[See Also](#)

[Error Codes](#)

[Frequently Asked Questions](#)

Description

Specifies an entry in a phone book.

Syntax

object.**EntryName** [= *string*]

The syntax of the **EntryName** property has these parts:

Part	Description
-------------	--------------------

<i>object</i>	A RAS control.
---------------	----------------

<i>string</i>	A string expression that specifies a RAS phone book entry name.
---------------	---

Remarks

This property holds the name of the current phone book entry loaded (or of the phone book entry to load with the [GetEntry method](#) or [Action property](#)).

Data Type

String

GetEntry Method

[See Also](#)

[Error Codes](#)

[Frequently Asked Questions](#)

Description

Loads properties with data from a phone book entry.

Syntax

object.**GetEntry**

The syntax of the **GetEntry** method has these parts:

Part	Description
<i>object</i>	Required. A RAS control.

Remarks

This method loads an entry ([EntryName](#)) from a phone book (specified by the [PhoneBook property](#)). Before using this property, you must set the [EntryName](#) and [PhoneBook properties](#).

If the entry is found, the [LogonName](#), [LogonPassword](#), [CallbackNumber](#) and [Domain](#) properties are filled from the phone book.

General Note: This method does not load the [PhoneNumber property](#). This is due to the fact that the RAS sub-system does not return the value to the RAS Control. You do not need this property to connect to a server. In fact, since you have the [EntryName](#), you can connect to a server using just that (along with the [LogonName](#) and [LogonPassword](#) properties).

Windows 95 Note: all phone book entries are kept in the registry. So, the [PhoneBook property](#) is ignored.

VBX Note: This method (and its [Action property](#) equivalent) is not available in the VBX version of this control.

Handle Property

[See Also](#)

[Error Codes](#)

[Frequently Asked Questions](#)

Description

Returns the connection handle (if connected to a server).

Syntax

object.**Handle**

The syntax of the **Handle** property has these parts:

<u>Part</u>	<u>Description</u>
<i>object</i>	A RAS control.

Remarks

After the control has connected to a server, this property holds the connection handle.

This handle is typically for information uses only

This property is read-only and only available at run-time.

Data Type

Integer (long)

LastError Property

[See Also](#)

[Error Codes](#)

[Frequently Asked Questions](#)

Description

Holds the last error number reported.

Syntax

object.**LastError**

The syntax of the **LastError** property has these parts:

<u>Part</u>	<u>Description</u>
<i>object</i>	A RAS control.

Remarks

This property contains the result of the last method executed. It is zero if the last method completed without error. Otherwise, it contains an error code.

This property is read-only and only available at run-time.

Data Type

Integer

LastErrorString Property

[See Also](#)

[Error Codes](#)

[Frequently Asked Questions](#)

Description

Holds a description of the last error number reported.

Syntax

object.**LastErrorString**

The syntax of the **LastErrorString** property has these parts:

<u>Part</u>	<u>Description</u>
<i>object</i>	A RAS control.

Remarks

This property contains the result of the last method executed. It is zero if the last method completed without error. Otherwise, it contains an error code.

This property is read-only and only available at run-time.

Data Type

String

LogonName Property

[See Also](#)

[Error Codes](#)

[Frequently Asked Questions](#)

Description

Name to use when connecting to the server.

Syntax

object.**LogonName**

The syntax of the **LogonName** property has these parts:

<u>Part</u>	<u>Description</u>
<i>object</i>	A RAS control.

Remarks

RAS servers require a username and password. This property is sent to the server when it asks for a name.

Data Type

String

LogonPassword Property

[See Also](#)

[Error Codes](#)

[Frequently Asked Questions](#)

Description

Password to use when connecting to the server.

Syntax

object.**LogonPassword**

The syntax of the **LogonPassword** property has these parts:

<u>Part</u>	<u>Description</u>
<i>object</i>	A RAS control.

Remarks

RAS servers require a username and password. This property is sent to the server when it asks for a password.

Data Type

String

PhoneBook Property

[See Also](#)

[Error Codes](#)

[Frequently Asked Questions](#)

Description

Specifies the phone book file to use when dialing.

Syntax

object.**PhoneBook** [= *filename*]

The syntax of the **PhoneBook** property has these parts:

Part	Description
<i>object</i>	A RAS control.
<i>filename</i>	A string expression that specifies the filename of a RAS phone book.

Remarks

This property determines the phone book to use when dialing or creating/editing phone book entries. This property should contain the full path and filename of the phone book file.

Windows 95 Note: Under Windows 95 all RAS phone book entries are kept in the registry. This property is ignored under Windows 95.

Windows NT Note: The path to the default phone book can be found in the Registry. The key is HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\RAS\CurrentVersion. The value to read is PathName. The filename of the default phone book is RASPHONE.PBK.

Data Type

String

PhoneNumber Property

[See Also](#)

[Error Codes](#)

[Frequently Asked Questions](#)

Description

Internet server's phone number.

Syntax

object.**PhoneNumber** [= *string*]

The syntax of the **PhoneNumber** property has these parts:

Part	Description
<i>object</i>	A RAS control.
<i>string</i>	A string expression that specifies a phone number.

Remarks

This is the phone number that the RAS sub-system uses to dial the Internet server. Typically this property is filled in by the [GetEntry method](#) or [Action property](#).

When dialing (using the [Connect method](#) or [Action property](#) equivalent), this property is ignored if the [EntryName property](#) is not empty. In that case, the RAS sub-system retrieves the phone number from the phone book entry specified by the [EntryName property](#).

Data Type

String

Progress Event

[See Also](#)

[Error Codes](#)

[Frequently Asked Questions](#)

Description

Fires during a connection (dialing).

Syntax

Sub *object* **Progress**([*index* **As Integer**,] *connectstate* **As Integer**)

The syntax of the **Progress** event has these parts:

Part	Description
<i>object</i>	A RAS control.
<i>index</i>	An integer that identifies a control if it's in a control array.
<i>connectstate</i>	An integer that specifies the current state of dialing.

Remarks

This event fires while the RAS sub-system attempts to connect to an Internet server. The *connectstate* parameter is identical to the [ConnectState property](#).

If you want a string to display to the user, use the [ConnectStateString property](#). While the text in this property is brief, it is also accurate.

Dialing / connection is complete when the *connectstate* parameter is either 8192 (Connected) or 8193 (Disconnected). See the [ConnectState property](#) for more information on the values of *connectstate*.

RASAvailable Property

[Error Codes](#)

[Frequently Asked Questions](#)

Description

Reports if RAS services are available.

Syntax

object.**RASAvailable**

The syntax of the **RASAvailable** property has these parts:

<u>Part</u>	<u>Description</u>
<i>object</i>	A RAS control.

Remarks

This property tells your program whether RAS services are available or not. If this property is True, you can use the RAS control to connect to remote servers. If this property is False, RAS services are not available.

Data Type

Integer (boolean)

Refresh Method

[See Also](#)

[Error Codes](#)

[Frequently Asked Questions](#)

Description

Re-loads the list of phone book entries.

VBX Note: Methods are not available in the VBX version of this control. Methods are only in the ActiveX / OCX version. When using the VBX, you must use the [Action property](#) instead of the equivalent method.

Syntax

object.**Refresh**

The syntax of the **Refresh** method has these parts:

Part	Description
<i>object</i>	Required. A RAS control.

Remarks

This method makes the RAS control re-load the list of dialing entries in a phone book. You specify the phone book to scan using the [PhoneBook property](#).

Once this method completes, the [EntryCount property](#) will hold the number of entries in the phone book. And, the EntryList property array will contain the names of the servers in the phone book.

Windows 95 Note: all phone book entries are kept in the registry. So, the [PhoneBook property](#) is ignored.

VBX Note: Methods are not available in the VBX version of this control. Methods are only in the ActiveX / OCX version. When using the VBX, you must use the [Action property](#) instead of the equivalent method.

Version Property

[Error Codes](#)

[Frequently Asked Questions](#)

Description

Shows the version of the control.

Syntax

object.**Version**

The syntax of the **Version** property has these parts:

<u>Part</u>	<u>Description</u>
<i>object</i>	A RAS control.

Remarks

This property holds the current version of the control. It is read-only and available at both design-time and run-time.

Data Type

String

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