

SKWhois

ActiveX Control

**WHOIS ActiveX Control for Microsoft® Windows™
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1 WHOIS Overview

1.1 Introduction

SkWHOIS ActiveX Control is a powerful, intelligent, flexible, and lightweight WHOIS ActiveX control. It allows developers to integrate the WHOIS/NICNAME protocol message sending capability into their applications.

SkWHOIS ActiveX Control can be used to retrieve information about a specific domain, such as the registrant's company name, address, or contact information.

In Autodetect mode it can intelligently query the right remote database based on the query type (host IP address, host name, or domain name) and on the corresponding designated WHOIS server.

In many countries different subdomains have different designated WHOIS databases, SkWHOIS ActiveX control can easily handle that.

It can also query any WHOIS server with any request necessary.

SkWHOIS has an extensive database that contains all existing Top Level Domain information and many second-level and even third level domains. This information can be accessed, modified, added to, or customized as necessary.

It can be used from any 32-bit Windows development environment, including Visual Basic, Visual C++, and Delphi.

SkWHOIS ActiveX Control is capable of processing multiple WHOIS requests simultaneously.

It is fully compliant with RFC 954.

SkWHOIS ActiveX Control comes with a full documentation, sample code, and working demo programs.

Additional information about WHOIS Protocol can be found at this location:

[RFC 954 - NICNAME/WHOIS](#)

1.2 Usage

SkWHOIS ActiveX Control can retrieve remote user information by performing a WHOIS lookup.

It is capable of performing multiple WHOIS lookups simultaneously.

1.3 Property Summary

[optDefWhoIsIpAddressServer](#)

Default WHOIS server to process queries in IP address format in <Auto> mode.

[optDefWhoIsServer](#)

Default WHOIS server to process queries in arbitrary format in <Auto> mode.

[optPortNumber](#)

WHOIS service port on server

[optTimeout](#)

Specify timeout value in milliseconds to wait for replies.

[optUseDefWhoIsServerForGenTLD](#)

Specify whether to use the default WHOIS server to process queries regarding generic Top Level Domains.

1.4 Event Summary

[WhoIsCompleted](#)

Indicate that SKWHOIS.OCX has stopped processing WHOIS requests.

[WhoIsQueryCompleted](#)

Indicate that SKWHOIS.OCX has stopped processing a single WHOIS request.

1.5 Method Summary

[AboutBox](#)

Display a dialog box with SkWHOIS ActiveX Control license and version information.

[DomainListAddDomain](#)

Add a domain to the domain database.

[DomainListDeleteDomain](#)

Delete a domain from the domain database.

[DomainListGetDomainInfo](#)

Retrieve information about domain.

[DomainListGetDomainInfo2](#)

Retrieve information about domain.

[DomainListModifyDomainInfo](#)

Modify domain-related information.

[ResetWhoIsSettings](#)

Reset all WHOIS settings back to default values.

[WhoIsGetReply](#)

Get a WHOIS reply.

[WhoIsReset](#)

Stop WHOIS messages.

[WhoIsSendRequest](#)

Send a WHOIS request.

1.6 Error codes

The following provides a complete listing of error codes returned by SkWHOIS ActiveX Control.

ERROR_SUCCESS (0)	No errors.
ERROR_ACCESS_DENIED (5)	Access is denied.
ERROR_NO_MORE_ITEMS (259)	No more data is available.
ERROR_CANCELLED (1223)	User canceled the operation.
ERROR_TIMEOUT (1460)	This operation returned because the timeout period expired.

WSAEFAULT (10014)	The <i>name</i> or the <i>namelen</i> parameter is not a valid part of the user address space, the <i>namelen</i> parameter is too small, or the <i>name</i> parameter contains incorrect address format for the associated address family.
WSAEINVAL (10022)	An invalid argument was supplied.
WSAEPFNOSUPPORT (10046)	The protocol family has not been configured into the system or no implementation for it exists.
WSAEADDRNOTAVAIL (10049)	The remote address is not a valid address (such as ADDR_ANY).
WSAENETDOWN (10050)	The network subsystem has failed.
WSAENETUNREACH (10051)	The network cannot be reached from this host at this time.
WSAENOBUFS (10055)	No buffer space is available. The socket cannot be connected.
WSAENOTCONN (10057)	The socket is not connected.
WSAETIMEDOUT (10060)	Attempt to connect timed out without establishing a connection.
WSAECONNREFUSED (10061)	The attempt to connect was forcefully rejected.

2 Properties

2.1 *optWhoIsIpAddressServer*

Summary

Default WHOIS server to process queries in IP address format.

Description

This property specifies the default remote WHOIS server to process query in IP address format in <Auto> mode.

This property is of type String.

The default value is "whois.arin.net".

VB Example

```
Dim strWhoIsIpServer As String
strWhoIsIpServer = "whois.apnic.net"
SKWHOIS.optWhoIsIpAddressServer = strWhoIsIpServer
```

2.2 optWhoIsServer

Summary

This property specifies the default remote WHOIS server to process query in arbitrary format in <Auto> mode.

Description

This property specifies the remote port on the server on which the WHOIS service resides.

This property is of type String.

The default value is “whois.networksolutions.com”.

VB Example

```
Dim strWhoIsServer As String
strWhoIsServer = “whois.networksolutions.com”
SKWHOIS.optWhoIsServer = strWhoIsServer
```

2.3 optPortNumber

Summary

WHOIS service port on server

Description

This property specifies the remote port on the server on which the WHOIS service resides.

This property is of type int.

The default value is 43.

VB Example

```
Dim Port As Int
```

```
Port = 43
```

```
SKWHOIS.optPortNumber = Port
```

2.4 optTimeout

Summary

Timeout value to wait for replies, in milliseconds.

Description

This property specifies the timeout value in milliseconds that is used to wait for a reply when a request packet is sent.

The default value is 3 seconds (3000 milliseconds)

This property is of type long.

VB Example

```
Dim Time As Long
```

```
Time = 3000
```

```
SKWHOIS.optTimeout = Time
```

2.5 optUseDefWhoIsServerForGenTLD

Summary

Specify whether to use the default WHOIS server to process queries regarding generic Top Level Domains.

Description

This property specifies whether to use the default WHOIS server to process queries regarding generic Top Level Domains.

The default value is 0.

This property is of type short.

VB Example

```
Dim UseDefServerForGenTLD As Integer
```

```
UseDefServerForGenTLD = 1
```

```
SKWHOIS.optUseDefWhoIsServerForGenTLD = UseDefServerForGenTLD
```

3 Events

3.1 WhoIsCompleted

Summary

Indicate that SKWHOIS.OCX has stopped processing WHOIS requests.

Syntax

WhoIsCompleted (void);

Description

Indicate that SKWHOIS.OCX has stopped processing WHOIS requests.

Parameters

None.

3.2 WhoIsQueryCompleted

Summary

Indicate that SKWHOIS.OCX has stopped processing a single WHOIS request.

Syntax

```
WhoIsQueryCompleted(BSTR bstrWhoIsServerName, bstrOriginalWhoIsQuery, BSTR  
                    bstrActualWhoIsQuery, long lStatus, BSTR bstrReplyMessage);
```

Description

Indicate that SKWHOIS.OCX has stopped processing a single WHOIS request.

Parameters

bstrWhoIsServerName is the name of the remote server that was queried,

bstrOriginalWhoIsQuery is the query used by the caller,

bstrActualWhoIsQuery is the actual query that was sent to the server (it is almost always the same as the *bstrOriginalWhoIsQuery*, except cases in <Auto> mode, when qualified host name is used to query on of Regional Internet Registries, like *whois.arin.net*).

lStatus is the return status of each individual reply. See section [1.6 Error Codes](#) the complete list of supported error codes,

strReplyMessage is the response from the remote server.

4 Methods

4.1 AboutBox

Summary

Display a dialog box with SkWHOIS ActiveX Control license and version information.

Syntax

```
void AboutBox();
```

Description

This method could be used to display version license information or to register SKWHOIS.OCX control.

Parameters

None.

4.2 DomainListAddDomain

Summary

Add a domain to the domains' database.

Syntax

```
long DomainListAddDomain(BSTR bstrParentLeafInfo, BSTR bstrDomain,  
                        BSTR bstrDomainDescription, BSTR bstrWhoIsServer);
```

Description

This method is used to add a domain into the domains' database.

It returns a long, which is set to 0 (ERROR_SUCCESS) if the method is successfully executed, otherwise it will be set to the error code from section [1.6 Error Codes](#).

Parameters

bstrParentLeafInfo is the name of the parent leaf in the domain hierarchy tree. If domain needs to be a Top Level Domain, this parameter should be passed as an empty string.

bstrDomain is the domain name to add.

bstrDomainDescription is the domain description. This argument is optional and can be left as an empty string.

bstrWhoIsServer is the WHOIS server designated for the new domain. This argument is can be left as an empty if *bstrDomain* is not a Top Level Domain. If the value is not an empty string, then it will be used for all queries about *bstrDomain*. Otherwise, the WHOIS server from the higher-level domain will be used.

4.3 DomainListDeleteDomain

Summary

Delete a domain from the domains' database.

Syntax

```
long DomainListAddDomain(BSTR bstrParentLeafInfo, BSTR bstrDomain);
```

Description

This method is used to delete a domain from the domains' database.

It returns a long, which is set to 0 (ERROR_SUCCESS) if the method is successfully executed, otherwise it will be set to the error code from section [1.6 Error Codes](#).

Parameters

bstrParentLeafInfo is the name of the parent leaf in the domain hierarchy tree. If domain is a Top Level Domain, this parameter should be passed as an empty string.

bstrDomain is the domain name to delete.

4.4 DomainListGetDomainInfo

Summary

Retrieve information about a domain.

Syntax

```
long DomainListGetDomainInfo(short nPrevSiblingIndex, BSTR bstrParentLeafInfo, BSTR*  
                             pbstrDomain, BSTR* pbstrDomainDescription, BSTR* pbstrWhoIsServer);
```

Description

This method is used to retrieve information about a domain from the domains' database.

It returns a long, which is set to 0 (ERROR_SUCCESS) if the method is successfully executed, otherwise it will be set to the error code from section [1.6 Error Codes](#).

Parameters

nPrevSiblingIndex – is the index of the previous item that was retrieved. It should be set to -1 for the first item to be retrieved on each level of domain hierarchy tree.

bstrParentLeafInfo is the name of the parent leaf in the domain hierarchy tree. If domain is a Top Level Domain, this parameter should be passed as an empty string.

bstrDomain will contain a domain name, if method is successfully completed.

pbstrDomainDescription will contain a domain description, if method is successfully completed.

pbstrWhoIsServer will contain a WHOIS server designated to the domain *bstrDomain*, if method is successfully completed.

4.5 DomainListGetDomainInfo2

Summary

Retrieve information about a domain.

Syntax

```
long DomainListGetDomainInfo(short nPrevSiblingIndex, BSTR bstrParentLeafInfo, VARIANT *  
    pvarDomain, VARIANT * pvarDomainDescription, VARIANT*  
    pvarWhoIsServer);
```

Description

This method is the same as [DomainListGetDomainInfo](#), except that pvarDomain, pvarDomainDescription, and pvarWhoIsServer are VARIANTS. This allows ASP scripts to use DomainListGetDomainInfo2 to get information about a domain.

Parameters

nPrevSiblingIndex – is the index of the previous item that was retrieved. It should be set to -1 for the first item to be retrieved on each level of domain hierarchy tree.

bstrParentLeafInfo is the name of the parent leaf in the domain hierarchy tree. If domain is a Top Level Domain, this parameter should be passed as an empty string.

bstrDomain will contain a domain name, if method is successfully completed.

pbstrDomainDescription will contain a domain description, if method is successfully completed.

pbstrWhoIsServer will contain a WHOIS server designated to the domain *bstrDomain*, if method is successfully completed.

4.6 DomainListModifyDomainInfo

Summary

Modify domain-related information.

Syntax

```
long DomainListModifyDomainInfo(BSTR bstrParentLeafInfo, BSTR bstrOldDomainName, BSTR  
bstrNewDomainName, BSTR bstrDomainDescription, BSTR bstrWhoIsServer);
```

Description

This method is used to modify domain-related information and to rename a domain.

It returns a long, which is set to 0 (ERROR_SUCCESS) if the method is successfully executed, otherwise it will be set to the error code from section [1.6 Error Codes](#).

Parameters

bstrParentLeafInfo is the name of the parent leaf in the domain hierarchy tree. If domain is a Top Level Domain, this parameter should be passed as an empty string.

bstrOldDomain is a current domain name.

bstrNewDomain is a new domain name. If this value differs from *bstrOldDomain*, the domain *bstrOldDomain* will be renamed to *bstrNewDomain*.

bstrDomainDescription is a domain description.

bstrWhoIsServer is a WHOIS server designated to the domain *bstrDomain*.

4.7 ResetWhoIsSettings

Summary

Reset all WHOIS settings back to default values.

Syntax

```
void ResetWhoIsSettings(void)
```

Description

All WHOIS related settings would be reset to defaults.

Parameters

None.

4.8 WhoIsGetReply

Summary

Get a WHOIS reply.

Syntax

```
long WhoIsGetReply(BSTR bstrWhoIsServerName, BSTR bstrOriginalWhoIsQuery, VARIANT*  
                  pvarActualWhoIsServer, VARIANT* pvarActualWhoIsQuery, VARIANT*  
                  pvarStatus, VARIANT* pvarReplyMessage)
```

Description

Retrieves a WHOIS reply.

Note that this method should be used only when SkWHOIS control is used as a COM server, not an ActiveX control, for instance, when SkWHOIS is instantiated from ASP page or Windows Scripting Host. When SkWHOIS is used as regular ActiveX control, notification event [WhoisQueryCompleted](#) should be used instead.

Parameters

bstrWhoIsServerName is the name of the remote server that was queried, in most cases is set to "<Auto>".

bstrOriginalWhoIsQuery is the query used by the caller,

pvarActualWhoIsServer is the actual name of the remote server that was queried,

pvarActualWhoIsServer is the actual query that was sent to the server (it is almost always the same as the *pvarActualWhoIsQuery*, except cases in <Auto> mode, when qualified host name is used to query on of Regional Internet Registries, like *whois.arin.net*).

pvarStatus is the return status of each individual reply. See section [1.6 Error Codes](#) the complete list of supported error codes,

pvarReplyMessage is the response from the remote server.

Return value

Return value indicates current state.

Possible values:

997 (ERROR_IO_PENDING), control is still processing WHOIS request.

234 (ERROR_MORE_DATA), a WHOIS reply is received.

259 (ERROR_NO_MORE_ITEMS), there is no more data to retrieve.

4.9 WhoIsReset

Summary

Stop WHOIS messages.

Syntax

void WhoIsReset (void)

Description

The WhoIsReset method terminates any pending WHOIS requests.

Parameters

None.

4.10 WhoIsSendRequest

Summary

Send a WHOIS request.

Syntax

long WhoIsSendRequest(BSTR *bstrWhoIsServerName*, BSTR *bstrWhoIsQuery*)

Description

The WhoIsSendRequest method sends a WHOIS request to the host specified by *bstrWhoIsServerName*. It returns a long, which is set to 0 (ERROR_SUCCESS) if the method is successfully executed, otherwise it will be set to the error code from section [1.6 Error Codes](#).

Parameters

bstrWhoIsServerName is the name of the remote host to query.

bstrWhoIsQuery is the WHOIS query.