

Finger ActiveX Control for Microsoft® Windows™

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1 Finger Overview

1.1 Introduction

The Magneto Software Finger ActiveX control (skfinger.ocx) allows developers to integrate the Finger protocol message sending capability into their 32-Bit or 64-Bit applications.

This ActiveX control can be used to monitor users logged into a remote system by getting information about users based on the username, and tracking the amount of time they have been logged in for.

Additional information about Finger User Information Protocol can be found at this location:

[RFC1288 - The Finger User Information Protocol](#)

1.2 Usage

Skfinger ActiveX Control can retrieve remote user information by performing a Finger lookup.

It is capable of performing multiple Finger lookups simultaneously.

1.3 Property Summary

optPortNumber

Finger service port on server

optTimeout

Specify timeout value in milliseconds to wait for replies.

optVerbose

A higher level of verbosity in the user information output

1.4 Event Summary

FingerCompleted

Indicate that skfinger.ocx has stopped processing Finger requests.

FingerQueryCompleted

Indicate that skfinger.ocx has stopped processing a single Finger request.

1.5 Method Summary

AboutBox

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

FingerGetReply

Get a Finger reply.

FingerReset

Stop Finger messages.

FingerSendRequest

Send a Finger request.

ResetFingerSettings

Reset all Finger settings back to default values.

1.6 Error codes

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

ERROR_SUCCESS (0)	No errors.
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.
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 *optPortNumber*

Summary

Finger service port on server

Description

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

This property is of type int.

The default value is 79.

VB Example

```
Dim Port As Int
```

```
Port = 79
```

```
SKFINGER.optPortNumber = Port
```

2.2 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 application must set this value before the request is sent. By default this value is set to 3 seconds (3000 milliseconds).

This property is of type long.

VB Example

```
Dim Time As Long
```

```
Time = 3000
```

```
SKFINGER.optTimeout = Time
```

2.3 *optVerbose*

Summary

A higher level of verbosity in the user information output

Description

This property specifies a higher level of verbosity in the user information output

This property is of type int.

The default value is 1.

VB Example

```
SKFINGER.optVerbose = 1
```

3 Events

3.1 FingerCompleted

Summary

Indicate that skfinger.ocx has stopped processing Finger requests.

Syntax

FingerCompleted (void);

Description

Indicate that skfinger.ocx has stopped processing Finger requests.

Parameters

None.

3.2 *FingerQueryCompleted*

Summary

Indicate that skfinger.ocx has stopped processing a single Finger request.

Syntax

`FingerQueryCompleted(BSTR bstrFingerServerName, BSTR bstrUserName, long lStatus, BSTR bstrReplyMessage);`

Description

Indicate that skfinger.ocx has stopped processing a single Finger request.

Parameters

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

strUserName is the user name used to find a specific person,

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 skfinger ActiveX Control license and version information.

Syntax

```
void AboutBox();
```

Description

This method could be used to display version license information or to register skfinger.ocx control.

Parameters

None.

4.2 FingerGetReply

Summary

Get a Finger reply.

Syntax

```
long FingerSendRequest(BSTR bstrFingerServerName, BSTR bstrUserName, VARIANT* pvarStatus,  
                      VARIANT* pvarReplyMessage)
```

Description

Retrieves a Finger reply.

Note that this method should be used only when skfinger control is used as a COM server, not an ActiveX control, for instance, when skfinger is instantiated from ASP page or Windows Scripting Host.

When skfinger is used as regular ActiveX control, notification event [FingerQueryCompleted](#) should be used instead.

Parameters

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

bstrUserName is the user name used to find a specific person,

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 Finger request.

234 (ERROR_MORE_DATA), a Finger reply is received.

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

4.3 FingerReset

Summary

Stop Finger messages.

Syntax

void FingerReset (void)

Description

The FingerReset method terminates any pending Finger requests.

Parameters

None.

4.4 FingerSendRequest

Summary

Send a Finger request.

Syntax

```
long FingerSendRequest(BSTR bstrFingerServerName, BSTR bstrUserName);
```

Description

The FingerSendRequest method sends a Finger request to the host specified by *bstrFingerServerName*.

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

bstrFingerServerName is the name of the remote host to query.

strUserName is the user name used to find a specific person.

This parameter is optional. If this field is empty, remote finger service will retrieve the entire user names currently logged on to the server.

4.5 ResetFingerSettings

Summary

Reset all Finger settings back to default values.

Syntax

```
void ResetFingerSettings(void)
```

Description

All Finger related settings will be reset to defaults.

Parameters

None.