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VertexFX News Server API

Introduction

VertexFX News Server API is an ActiveX DLL Component Object Model (COM) control that is supported in more development environments. Our ActiveX control and sample applications plug into all popular development environments.

When using VertexFX News Server API you can integrate an external news provider and fetch the news with your VertexFX terminals and to be reflected by any data changes in your system.

How To Use VertexFX News API

All what you have to do to start sending the News from any provider is to reference the {VertexFX News API} DLL then to define an Object of type **VertexfxNewsSvrAPI .CVertexfxNewsSvr** and to set the following properties of server **Username**, **Password**, **Port** and **Initialize Point** that is used in VertexFX Gateway to connect to your news server and start receiving news, after that call the following method **StartServer()**, and finally you can send the news through **SendNews** method.

Properties

Username

Syntax

```
Readonly property Username as String
```

This property used to set the Username of the Server which is type of String.

Parameters

No Parameters

Remarks

You can fetch the new prices by using the Bid and Ask Properties of the Symbol object.

Sample

```
Public WithEvents server As new CVertexFXNewsSvr

    Private Sub setUsername_Click (ByVal sender As
System.Object, ByVal e As System.EventArgs) Handles
SetUserName.Click

        Server.Username = "NewsServer"

End Sub
```

Password

Syntax

```
ReadOnly property Password as String
```

Set the Password of the Server which is type of String

Sample

```
Public WithEvents server As new CVertexFXNewsSvr

    Private Sub SetPassword_Click (ByVal sender As
System.Object, ByVal e As System.EventArgs) Handles
SetPassword.Click

        Server.Password = "News Password"

    End Sub
```

Port

Syntax

```
ReadOnly property Port as Integer
```

This property used to set the Port of the Server which is type of Integer.

Sample

```
Public WithEvents server As new CVertexFXNewsSvr

    Private Sub SetPort_Click( ByVal sender As System.Object,
ByVal e As System.EventArgs) Handles SetPort.Click

        Server.port = 7777

    End Sub
```

Initialize Point

Syntax

```
Readonly property InitializePoint as Integer
```

This property used to set the last sequence of the retrieved news which was saved in custom storage.

Sample

```
Public WithEvents server As new CVertexFXNewsSvr

    Private Sub InitializePoint_Click (ByVal sender As
System.Object, ByVal e As System.EventArgs) Handles
InitializePoint.Click

        Server.InitializePoint = 0

End Sub
```

Methods:

StartServer

Syntax

```
Public Function StartServer() As String
```

This Function turns the Sever On if the status of the server is Off so clients can connect to the Server. After StartServer method executes [ServerStatus](#) event fired.

Parameters

No parameters.

Sample

```
Public WithEvents server As new CVertexFXNewsSvr

    PrivateSub Start_Click(ByVal sender As System.Object,
        ByVal e As System.EventArgs) Handles Start.Click

        server.StartServer ()

    End Sub
```

StopServer

Syntax

```
Public Function StopServer() As String
```

This function turns the Sever Off if the status of the server was On so clients cannot connect to the Server. After StopServer method executes [ServerStatus](#) event fired.

Parameters

No parameters.

Sample

```
Public WithEvents server As new CVertexFXNewsSvr

    Private Sub Stop_Click (ByVal sender As System.Object,
        ByVal e As System.EventArgs) Handles Stop.Click

        server.stopServer ()

    End Sub
```

PauseServer

Syntax

```
Public Function PauseServer() As String
```

This Function turns the Sever to Pause mode. Connected clients will remain connected to the server but the process of sending news will be stopped and there will be no new clients to connect as long as the Server is paused. After PauseServer method executes, [ServerStatus](#) event is fired .

Parameters

No parameters.

Sample

```
Public WithEvents server As new CVertexFXNewsSvr

    Private Sub Pause_Click (ByVal sender As System.Object,
        ByVal e As System.EventArgs) Handles Pause.Click

        server.PauseServer ()

    End Sub
```

SendNews

Syntax

```
Public Function SendNew (News as VertexFXNewsSvrAPI.CNew)  
As Boolean
```

This Function sends the news of type **CNew** to the connected clients. After sendNew method executes with acceptance, the **NewSent** event fires.

Parameters

Returns a Boolean value representing the condition of sending process.

Sample

```
Public WithEvents server As new CVertexFXNewsSvr  
  
Private Sub SendNew_Click (ByVal sender As System.Object,  
ByVal e As System.EventArgs) Handles SendNew.Click  
  
    Dim news As New CNew  
  
    news.NewsDate = Now.ToString  
  
    news.NewsID = "1"  
  
    news.NewsSubject = "VertexFX"  
  
    news.NewsDetails = "VertexFX news API"  
  
    Server.SendNew (news)  
  
End Sub
```


AddNews

Syntax

```
Public Sub AddNews (ByRef _new As vertexFxNewsSvrAPI.CNew)
```

This sub procedure used to add news to Cnews collection.

Parameters

Key	Description
_new	New object which should be added. Value of type CNew

Sample

```
Public WithEvents server As new CVertexFXNewsSvr

    Private Sub server_onGettingNews (ByRef NewsNumber As
String, ByRef news As VertexFXNewsSvrAPI.CNews)
Handles server.onGettingNews

        Dim _new As New CNew

        _new.NewsDate = Now.ToString
        _new.NewsID = "1"
        _new.NewsSubject = "VertexFX"
        _new.NewsDetails = "VertexFX news API"

        news.AddNews (_new)

End Sub
```

Count

Syntax

```
Public Sub Count () as Integer
```

This sub procedure is used to get the news count in the Cnews Collection.

Parameters

No parameters.

Sample

```
Public WithEvents server As new CVertexFXNewsSvr

    Private Sub server_onGettingNews (ByRef NewsNumber As
String, ByRef news As VertexFXNewsSvrAPI.CNews) Handles
server.onGettingNews

        MsgBox (news.Count ())

End Sub
```

Item

Syntax

```
Public function Item (ByRef vKey as String) As  
VertexFXNewsSvrAPI.CNew
```

This method is used to get the **CNew** object by the given news number.

Parameters

Key	Description
vKey	News number to get CNew object for it, value of type String.

Sample

```
Public WithEvents server As new CVertexFXNewsSvr  
  
Private Sub server_onGettingNews (ByRef NewsNumber AsString,  
ByRef news As VertexFXNewsSvrAPI.CNews) Handles server.onGettin  
gNews  
  
Dim _new As CNew  
  
_new = news.Item (NewsNumber)  
  
MsgBox(_new.NewsDetails)  
  
End Sub
```

Remove

Syntax

```
Public Sub Remove (ByRef vkey as String)
```

This method is used to remove the news from Cnews collection by the given news number.

Parameters

Key	Description
vKey	News number to be removed, value of type String.

Sample

```
Public WithEvents server As new CVertexFXNewsSvr

    Private Sub SendNew_Click (ByVal sender As System.Object,
ByVal e As System.EventArgs) Handles SendNew.Click

        news.Remove (NewsNumber)

End Sub
```

Enum:

Server Status Enum

Description

Return Value of 1, 2, or 3 which represent the Server Status , The API ServerStatus event returns a Server Status Enum.

ServerStatus Enum

Value	Description
1	Server On
2	Server Off
3	Server Paused

Data Types:

CoSession

Description

This class represents the Session object which has all the Session information. The API [SessionConnected](#) event returns a COSession object which is the changed symbol.

Parameters

Key	Description
SID	Client ID of the connected session, value of Type Integer
LogonTime	Time of logon for the connected session, value Type of String
Username	Client Username for the connected session, Type value of String
Password	Client Password for the connected session, Type value of String
SessionData	To get Session value

CNews

Description

This class represents the news object which has all news operations.

Parameters

Key	Description
AddNews	Method used to add news collection
Count	Method used to return news count
Item	Method used to get the CNew object by given the news number
Remove	Method used to remove news from collection by given the news number

CNew

Description

This class represents News object that contain all the information about the news which is going to be sent.

Parameters

Key	Description
NewsID	The ID of News, value of Type String
NewsNumber	The number of news, value Type of long
NewsSubject	The Subject of News, Type value of String
NewsDetails	The details of News, Type value of String
NewsDate	The date of News, Type value of Date

Sample

```
Dim _news New VertexFXNewsSvrAPI.CNew
_news.NewsDate = Now.ToString
_news.NewsID = "1"
_news.NewsSubject = "VertexFX"
_news.NewsDetails = "VertexFX news API"
```

Events:

Server Status

Syntax

```
Event ServerStatus(ByRef Status As VertexFXNewsSvrAPI.ServerStatus)
```

This event is raised when the server status changed from connected to disconnected and vice versa.

Parameters

Key	Description
Status	Connection Status value of type ServerStatus Enum .

Session Connected

Syntax

```
Event SessionConnected(ByRef Count As integer, ByRef Session As HSServerDLL.CoSession)
```

This event is raised after number of connected clients to the server. You can use this event to know number of connected sessions and all information about the new connected session.

Parameters

Key	Description
Count	Number of connected clients, value of type Integer.
Session	the connected session object,value of type CoSession

NewSent

Syntax

```
Event NewSent (ByRef news As VertexFXNewsSvrAPI.CNew)
```

This event fire after calling [SendNew](#) method with news object that has been sent successfully.

Parameters

Key	Description
news	News object that had been sent successfully. Value of type CNew

onGettingNews

Syntax

```
Event onGettingNews (ByRef NewsNumber As String, ByRef news As VertexFXNewsSvrAPI.CNews)
```

This event fires when the client requests to load all news with the last news number which was received by the client.

Parameters

Key	Description
newsNumber	The number of last news that received to client, value of type String
News	CNews object, to add Cnew to collection.

SessionDisconnected

Syntax

```
Event SessionDisconnected (ByRef Sessions As Integer, ByRef  
SID As String)
```

This event raises when disconnecting the client form server and returns the disconnected client session ID.

Parameters

Key	Description
Sessions	The number of online session, value of type Integer
News	Disconnected session number, value of type String