

# VBApi Module

## D2000 VBApi - VBApi module

The **VBApi** module contains the support for:

- [reading data from the archive](#)
- [user's logon](#)

### Reading data from archive

#### Declaration

```
Sub ReadArchData(ByRef objName As String, ByRef bt As Date, ByRef et As Date, ByRef step As Long, ByRef writeMethod As Long, ByRef a_data() As VBApi_TUniVal, ByRef ok As Long)
```

#### Parameters

<b>objName</b>	Name of object of <a href="#">Historical value</a> type.
<b>bt</b>	Begin time.
<b>et</b>	End time.
<b>step</b>	Time step used for oversampling values in the archive (given in seconds). If it is 0, there will be read all values within the given time interval.
<b>writeMethod</b>	Returns the <a href="#">archiving method of for writing into archive</a> . Return values: <ul style="list-style-type: none"><li>• 1 - periodically</li><li>• 2 - on value change (Filter)</li></ul>
<b>a_data</b>	Array of the result values got from the archive after the successful calling.  <b>Warning:</b> The array must not be dimensioned and must be empty before calling the procedure !
<b>ok</b>	Return value - call success.

#### Return value

Value of the parameter *ok*.

Return value	Description
0	Call successful.
1	Incorrect object name (also in case, that the object is not opened).
22	No logged on user.
3	Unexpected internal error.
4	Incorrect parameters.

### User's logon

User's logon and establishing a communication route is provided by the procedure **Connect**. It is appropriate for interactive work with the report (workbook).

It checks the status of the **VBApi** interface and executes required initialization operations, including getting the user name and password using the logon dialog box, if logon has not been performed. The logon dialog box is implemented as the **LogOnDlg** form.

#### Declaration

```
Sub Connect(ByRef server As String, ByRef procDesc As String, ByRef wdFreq As Long)
```

#### Parameters

<b>server</b>	Name of the computer with running <a href="#">D2000 Server (/S)</a> .
<b>procDesc</b>	Description of the client process, that will be stored in the log database - process start record.
<b>wdFreq</b>	Interval for sending <b>watch dog</b> messages used for verifying the communication route functionality. The parameter substitutes the parameter <a href="#">/F</a> from the command line.

**Note** User can change the parameters *server* and *procDesc* in the logon dialog box.

Logon without the user presence is allowed by the procedure **D2KernelLogon**.

#### Declaration

```
Public Property Get D2KernelLogon(name As String, pass As String, server
As String, procDesc As String, ByRef wdFreq As Long)
```

#### Parameters

<b>name</b>	User's name.
<b>pass</b>	User's password.
<b>server</b>	Name of the computer with running <a href="#">D2000 Server</a> .
<b>procDesc</b>	Description of the client process, that will be stored in the log database - process start record.
<b>wdFreq</b>	Interval for sending watch dog messages used for verifying the communication route functionality. The parameter substitutes the parameter <a href="#">/F</a> from the command line.

Call success can be checked by calling the function **IsConnectOK**.

#### Declaration

```
Function IsConnectOK() As Boolean
```



**Related pages:**

[D2000 VBApi.xla](#)