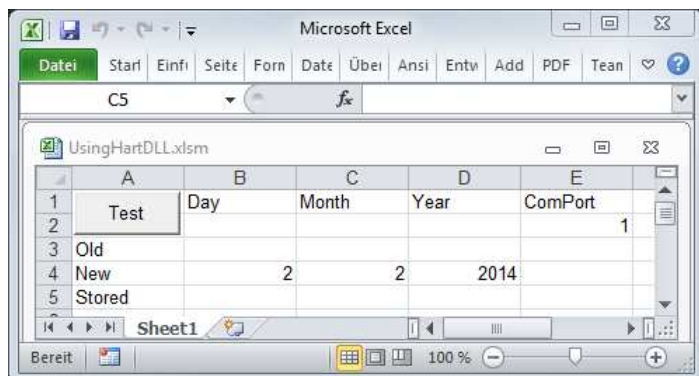


## 1 Getting Started



Double click the file UsingHartDLL.xlsm. Excel opens and appears with a button on one of the sheets. Press the button and the Visual Basic Editor will appear because the program was stopped at a breakpoint.

```

If strConnection.byError = SRV_SUCCESSFUL Then
    'Read Tag Descriptor Date
    hSrv = BHDrv_DoCommand(                                hDrv, _
                                                            13, _
                                                            DRV_WAIT, _
                                                            byReqData(0), _
                                                            0, _
                                                            0, _
                                                            ByVal strConnection.sUniqueId)
    BHDrv_FetchConfirmation hSrv, strConfirmation
    Stop
Else
    Stop
End If

```

The program stops at this point because a connection to a device could not be established. If you connect a real or a simulated device to the com port which was opened by

```

'Open Com from Cell E2
'Configuration will be default
iComPort = Range("E2")
Drv = BHDrv_OpenChannel(2)

```

the software will reach the other Stop statement providing the Tag Name of the connected device.

## 2 Modules



While the module HartTest is containing the little test program the module HartInterface contains the necessary structures and functions declarations. The following is an example of the declaration of one of the functions in the

DLL.

```

Public Declare Sub BHDrv_FetchConfirmation Lib "BaHartDrv74.dll" _
    (ByVal hService As Long, _
     strConfData As Any _
    )

```

The declaration of structures has to be done like the following.

```
Type T_strConfirmation
  byCmd           As Byte           'The Hart command which was serviced
  byResp1        As Byte           'Command response code
  byResp2        As Byte           'Device status
  byError        As Byte           'Last error
  byUsedRetries  As Byte           'Number of retries used for the service
  bDeviceInBurstMode As Byte       'Indicates if device is bursting
  iDuration      As Integer        'Duration for the service in ms
  lAppKey        As Long           'A key provided by and returned to the
                                     'application
  usExtCmd       As Integer        'Extended (16 Bit) command
  byReserved1    As Byte
  byDataLen      As Byte           'Length of productive data
  sData          As String * 255   'Productive data in the response
End Type
```

### 3 Contact

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