

# Conversion from VB6 to VB.NET

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*Source:*

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Hi,

My conversion seems from VB6 to VB.Net of an interface to an API seem to have gone OK, but when I look at the output from the Debug.Print("Active server is " & xmlServerActive) statement, xmlServerActive only contains one character(the first one). I suspect it is being truncated. I am pretty much a novice at this sort of thing so any advice would be welcome.

Here is the old VB6 code:

Listening for Servers and System Status using VB

Declare the functions

```
Public Declare Function RCA_listenForServersBstr Lib "clientapi.dll" _
```

```
(ByVal serverActiveCallback As Long, _
```

```
ByVal serverShutdownCallback As Long) As Integer
```

```
Public Declare Function RCA_listenForSystemStatusBstr Lib "clientapi.dll" _
```

```
(ByVal systemStatusCallback As Long, _
```

```
ByVal clusterCreatedCallback As Long, _
```

```
ByVal clusterDeletedCallback As Long, _
```

```
ByVal systemExceptionCallback As Long) As Integer
```

Declare callback functions

```
Public Function serverActiveCallback(ByVal xmlServerActive As String) As Long
```

```
Debug.Print "Active server is " & xmlServerActive
```

```
End Function
```

```
Public Function serverShutdownCallback(ByVal server As String) As Long
```

```
Debug.Print "Shutdown server is " & server
```

```
End Function
```

```
Public Function systemExceptionCallback(ByVal error As String) As Long
```

```
MsgBox "Error : " & error
```

```
End Function
```

```
Public Function systemStatusCallback(ByVal systemStatus As String) As Long
```

```
Debug.Print "System status is " & systemStatus
```

```
End Function
```

```
Public Function clusterCreatedCallback(ByVal cluster As String) As Long
```

```
Debug.Print "Created cluster is " & cluster
```

```
End Function
```

```
Public Function clusterDeletedCallback(ByVal cluster As String) As Long
```

```
Debug.Print "Deleted cluster is " & cluster
```

```
End Function
```

## Conversion from VB6 to VB.NET

```
Set up to listen for servers
ret = RCA_listenForServersBstr(AddressOf serverActiveCallback, _
AddressOf serverShutdownCallback)
Set up to listen for system status
ret = RCA_listenForSystemStatusBstr(AddressOf systemStatusCallback, _
AddressOf clusterCreatedCallback, _
AddressOf clusterDeletedCallback, _
AddressOf systemExceptionCallback)
```

The new VB.NET (It has some other pieces I have added)

```
Option Strict Off
Option Explicit On
Module RimagesAPI
```

```
Public Structure RCA_production_order_description
<VBFixedString(128),
System.Runtime.InteropServices.MarshalAs(System.Runtime.InteropServices.UnmanagedType.ByValArray,
SizeConst:=128)> Public orderId() As Char ' This field cannot be NULL
<VBFixedString(128),
System.Runtime.InteropServices.MarshalAs(System.Runtime.InteropServices.UnmanagedType.ByValArray,
SizeConst:=128)> Public clientId() As Char ' This field is optional and can
be NULL
<VBFixedString(128),
System.Runtime.InteropServices.MarshalAs(System.Runtime.InteropServices.UnmanagedType.ByValArray,
SizeConst:=128)> Public originator() As Char ' This field is optional and can
be NULL
<VBFixedString(128),
System.Runtime.InteropServices.MarshalAs(System.Runtime.InteropServices.UnmanagedType.ByValArray,
SizeConst:=128)> Public targetCluster() As Char ' This field cannot be NULL
<VBFixedString(128),
System.Runtime.InteropServices.MarshalAs(System.Runtime.InteropServices.UnmanagedType.ByValArray,
SizeConst:=128)> Public targetServer() As Char ' This field is optional, if
null then any
<VBFixedString(32),
System.Runtime.InteropServices.MarshalAs(System.Runtime.InteropServices.UnmanagedType.ByValArray,
SizeConst:=32)> Public priority() As Char ' Default for this field is
PRIORITY_MEDIUM
<VBFixedString(32),
System.Runtime.InteropServices.MarshalAs(System.Runtime.InteropServices.UnmanagedType.ByValArray,
SizeConst:=32)> Public action() As Char ' Default for this field is
ACTION_RECORD
<VBFixedString(32),
System.Runtime.InteropServices.MarshalAs(System.Runtime.InteropServices.UnmanagedType.ByValArray,
SizeConst:=32)> Public mediaType() As Char ' Default for this field is MT_CDR
<VBFixedString(32),
System.Runtime.InteropServices.MarshalAs(System.Runtime.InteropServices.UnmanagedType.ByValArray,
SizeConst:=32)> Public mediaSize() As Char ' Default for this field is MS_120
<VBFixedString(32),
System.Runtime.InteropServices.MarshalAs(System.Runtime.InteropServices.UnmanagedType.ByValArray,
SizeConst:=32)> Public targetLine() As Char ' Default for this field is TL_ANY
```

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```
<VBFixedString(32),
System.Runtime.InteropServices.MarshalAs(System.Runtime.InteropServices.UnmanagedType.ByValArray,
SizeConst:=32)> Public copies() As Char ' Default for this field is 1
<VBFixedString(32),
System.Runtime.InteropServices.MarshalAs(System.Runtime.InteropServices.UnmanagedType.ByValArray,
SizeConst:=32)> Public inOutInputBin() As Char ' Default for this field is
IOB_ANY
<VBFixedString(32),
System.Runtime.InteropServices.MarshalAs(System.Runtime.InteropServices.UnmanagedType.ByValArray,
SizeConst:=32)> Public outputMailslot() As Char ' Default for this field is 0
End Structure
```

```
Public Declare Function RCA_connect Lib "clientapi.dll" (ByVal clientId As
String) As Short
Public Declare Function RCA_connectEx Lib "clientapi.dll" (ByVal clientId
As String, ByVal host As String, ByVal port As String) As Short
Public Declare Function RCA_listenForServersBstr Lib "clientapi.dll"
(ByVal serverActiveCallback As serverActiveCallbackDelegate, ByVal
serverShutdownCallback As serverShutdownCallbackDelegate) As Short
Public Declare Function RCA_listenForSystemStatusBstr Lib
"clientapi.dll" (ByVal systemStatusCallback As systemStatusCallbackDelegate,
ByVal clusterCreatedCallback As clusterCreatedCallbackDelegate, ByVal
clusterDeletedCallback As clusterDeletedCallbackDelegate, ByVal
systemExceptionCallback As systemExceptionCallbackDelegate) As Short
Public Declare Function RCA_submitProductionOrderBstr Lib
"clientapi.dll" (ByRef orderDesc As RCA_production_order_description, ByVal
xmlOrder As String, ByVal orderStatusCallback As orderStatusCallbackDelegate)
As Short
Public Declare Function RCA_cancelProductionOrder Lib "clientapi.dll"
(ByRef orderDesc As RCA_production_order_description, ByVal abortCurrent As
Boolean) As Short
Public Declare Function RCA_stopListeningForProductionOrder Lib
"clientapi.dll" (ByRef orderDesc As RCA_production_order_description) As Short
```

```
Delegate Function serverActiveCallbackDelegate(ByVal xmlServerActive As
String) As Integer
Public Function serverActiveCallback(ByVal xmlServerActive As String) As
Integer
Debug.Print("Active server is " & xmlServerActive)
End Function
Delegate Function serverShutdownCallbackDelegate(ByVal server As String)
As Integer
Public Function serverShutdownCallback(ByVal server As String) As Integer
Debug.Print("Shutdown server is " & server)
End Function
Delegate Function systemExceptionCallbackDelegate(ByVal wError As
String) As Integer
Public Function systemExceptionCallback(ByVal wError As String) As Integer
MsgBox("Error : " & wError)
End Function
```

## Conversion from VB6 to VB.NET

```
Delegate Function systemStatusCallbackDelegate(ByVal systemStatus As String) As Integer
Public Function systemStatusCallback(ByVal systemStatus As String) As Integer
Debug.Print("System status is " & systemStatus)
End Function
Delegate Function clusterCreatedCallbackDelegate(ByVal cluster As String) As Integer
Public Function clusterCreatedCallback(ByVal cluster As String) As Integer
Debug.Print("Created cluster is " & cluster)
End Function
Delegate Function clusterDeletedCallbackDelegate(ByVal cluster As String) As Integer
Public Function clusterDeletedCallback(ByVal cluster As String) As Integer
Debug.Print("Deleted cluster is " & cluster)
End Function
Delegate Function orderStatusCallbackDelegate(ByVal orderStatus As String) As Integer
Public Function orderStatusCallback(ByVal orderStatus As String) As Integer
On Error Resume Next
Debug.Print(orderStatus)
orderStatusCallback = 0
End Function
```

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