Advantech AE Technical Share Document

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Category	□FAQ■ SOP	Related OS	--
Abstract	Use API to connect remote PC and investigate in Inspector PRO		
Keyword	Inspector PRO, Remote, API		
Related Product	Inspector PRO		

■ **Problem Description**:

How to use API to connect remote PC and investigate in Inspector PRO?

```
┌── Your PC ──┐        ┌──── Remote PC ────┐
│             │        │                   │
│   Client    ├────────┤  Server running   │
│             │        │    Inspector      │
│ running API │        │ PRO investigations│
│             │        │                   │
└─────────────┘        └───────────────────┘
```
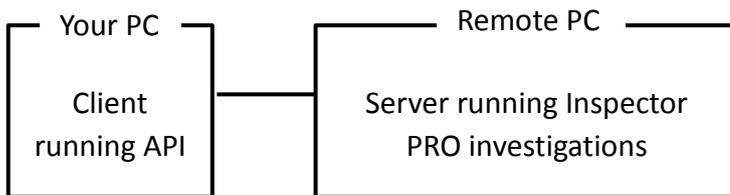
■ **Brief Solution - Step by Step**:

1. In remote PC(server), you must launch **IpeServer** before invoking the **connect** method on the client. **IpeServer.exe** can be found in **Inspector PRO\Bin** directory.
   Please open **IpeServer** from command line and type "IpeServer", IP and port number on it.

```
C:\Program Files\Advantech\Inspector PRO\Bin>IpeServer 192.168.0.100:5010
```

Picture1: Open "IpeServer" in cmd

2. Using API on client PC controling Inspector PRO running on server PC is the same as using API to control Inspector PRO on the same PC. The only necessary modification is the addition of a call to connect to server. This call is a method of the **IpeEngCrtl** object:

objIpeEngCrtl.Connect (bstrSystemName, nIpPort)

Moreover, **InvLoad** object is the Inspector Pro file you want to load.

Example:

```
Private Sub CreateVisionSystemEngine()

    objIpeEngCtrl = New IpeEngCtrlLib.Engine

    err = objIpeEngCtrl.Connect("192.168.0.100", 5010)
    err = objIpeEngCtrl.EngInitialize()
    err = objIpeEngCtrl.InvLoad("Simple0.ivs")

    VerifyReturn()
End Sub
```

Picture2: Sample code

If connecting two or more server, you can reference the following code to compile your API.

```vb
Private Sub CreateVisionSystemEngine()

    objIpeEngCtrl = New IpeEngCtrlLib.Engine
    objIpeEngCtrl1 = New IpeEngCtrlLib.Engine

    err = objIpeEngCtrl.Connect("192.168.0.100", 5010)
    err = objIpeEngCtrl.EngInitialize()
    err = objIpeEngCtrl.InvLoad("Simple0.ivs")

    err = objIpeEngCtrl1.Connect("192.168.0.99", 5010)
    err = objIpeEngCtrl1.EngInitialize()
    err = objIpeEngCtrl1.InvLoad("Simple1.ivs")


    VerifyReturn()
End Sub
```

Picture3: Sample code

Remote Management Reference

Connect (BSTR bstrSystemName, LONG nIpPort)

EngEnableRemoteEvent (I_REMOTE_EVENT nEvent, LONG nEnable)

GetRemDispCompression (BOOL *pbEnable, LONG *pnCompLevel)

SetRemDispCompression (BOOL bEnable, LONG nCompLevel)

SoGetRemDispGraphics (BSTR bstrSo, BOOL *pbEnable)

SoSetRemDispGraphics (BSTR bstrSo, BOOL bEnable)

■ **Reference:**