HOWTO: Console Based Scanning in DotTwain

Scanning from the console is done similarly to scanning in a winforms app with a few exceptions:

1. There is no SelectSourceDialog, another method for selecting a scanner will need to be implemented
2. The program has to be prevented from continuing after acquire. This demo accomplishes this with the ModalAcquire property being set to true.

Below is the simplest version of console based scanning. To complete the demo, implement a way to select a device from the list of devices. (The simplest solution to this is "return devices[0]")

C#

```
tatic void Main(string[] args) { Acquisition acquisition = new Acquisition();
AddEvents(acquisition); count = 0; DeviceCollection devices = acquisition.Devices; Device
selected = SelectDevice(devices); selected.HideInterface = true; selected.ModalAcquire =
true; Console.Out.WriteLine("---Beginning Scan---"); selected.Acquire();
Console.Out.WriteLine("---Ending Scan---\n Press Enter To Quit"); Console.In.Peek(); }
private static void AddEvents(Acquisition acquisition) { acquisition.ImageAcquired += new
ImageAcquiredEventHandler(acquisition_ImageAcquired); acquisition.AcquireFinished +=new
EventHandler(acquisition_AcquireFinished); acquisition.AcquireCanceled += new
EventHandler(acquisition_AcquireCanceled); } static void acquisition_AcquireCanceled(object
sender, EventArgs e) { Console.Out.WriteLine("Acqusition Canceled"); } static void
acquisition_AcquireFinished(object sender, EventArgs e) { Console.Out.WriteLine("Acquisition
Finished"); } static int count; static void acquisition_ImageAcquired(object sender,
AcquireEventArgs e) { string filename = "out"+ count++ +".tif";
e.Image.Save(filename,ImageFormat.Tiff); Console.Out.WriteLine("Frame " + count +" Acquired.
Saved At: "+filename); } private static Device SelectDevice(DeviceCollection devices) {
//TODO: Implement a Methodology for selecting a device }
```

VB.NET

```
rivate Shared Sub Main(ByVal args As String()) Dim acquisition As New Acquisition()
AddEvents(acquisition) count = 0 Dim devices As DeviceCollection = acquisition.Devices Dim
selected As Device = SelectDevice(devices) selected.HideInterface = True
selected.ModalAcquire = True Console.Out.WriteLine("---Beginning Scan---") selected.Acquire()
Console.Out.WriteLine("---Ending Scan---" & vbLf & " Press Enter To Quit")
Console.[In].Peek() End Sub Private Shared Sub AddEvents(ByVal acquisition As Acquisition)
AddHandler acquisition.ImageAcquired, AddressOf acquisition_ImageAcquired AddHandler
acquisition.AcquireFinished, AddressOf acquisition_AcquireFinished AddHandler
acquisition.AcquireCanceled, AddressOf acquisition_AcquireCanceled End Sub Private Shared Sub
acquisition_AcquireCanceled(ByVal sender As Object, ByVal e As EventArgs)
```

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```
Console.Out.WriteLine("Acqusition Canceled") End Sub Private Shared Sub
acquisition_AcquireFinished(ByVal sender As Object, ByVal e As EventArgs)
Console.Out.WriteLine("Acquisition Finished") End Sub Shared count As Integer Private Shared
Sub acquisition_ImageAcquired(ByVal sender As Object, ByVal e As AcquireEventArgs) Dim
filename As String = "out" & count & ".tif" count +=1 e.Image.Save(filename,
ImageFormat.Tiff) Console.Out.WriteLine(("Frame " & count & " Acquired. Saved At: ") +
filename) End Sub Private Shared Function SelectDevice(ByVal devices As DeviceCollection) As
Device 'TODO: CREATE METHODOLOGY FOR SELECTING DEVICE End Function
```

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