

Get WIA scanner features

Asked 11 years, 3 months ago Modified 4 years, 4 months ago Viewed 8k times

How do you get a scanner's available resolutions and/or dpi. Also, how to get the information that it has an automatic document feeder, etc?

3

c# wia

2

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edited Jun 18, 2011 at 17:16

asked Jun 18, 2011 at 16:49



Femi

63.9k

8

117

147



redman

2,055

4

32

59

2 Answers

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You can retrieve the features available for your scanner by navigating through the Properties object like Matthias suggested to you. Here is an enum I use with all the properties and their IDs:

5

```
public enum WiaProperty
{
    DeviceId = 2,
    Manufacturer = 3,
    Description = 4,
    Type = 5,
    Port = 6,
    Name = 7,
    Server = 8,
    RemoteDevId = 9,
    UIClassId = 10,
    FirmwareVersion = 1026,
    ConnectStatus = 1027,
    DeviceTime = 1028,
    PicturesTaken = 2050,
    PicturesRemaining = 2051,
    ExposureMode = 2052,
    ExposureCompensation = 2053,
    ExposureTime = 2054,
    FNumber = 2055,
    FlashMode = 2056,
    FocusMode = 2057,
    FocusManualDist = 2058,
    ZoomPosition = 2059,
    PanPosition = 2060,
```

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```

BatteryStatus = 2065,
Dimension = 2070,
HorizontalBedSize = 3074,
VerticalBedSize = 3075,
HorizontalSheetFeedSize = 3076,
VerticalSheetFeedSize = 3077,
SheetFeederRegistration = 3078,           // 0 = LEFT_JUSTIFIED, 1 = CENTERED,
2 = RIGHT_JUSTIFIED                      // 0 = LEFT_JUSTIFIED, 1 = CENTERED,
                                         // 0 = TOP_JUSTIFIED, 1 = CENTERED, 2
2 = RIGHT_JUSTIFIED                      // 0 = TOP_JUSTIFIED, 1 = CENTERED
                                         // = BOTTOM_JUSTIFIED
                                         // PlatenColor = 3081,
                                         // PadColor = 3082,
                                         // FilterSelect = 3083,
                                         // DitherSelect = 3084,
                                         // DitherPatternData = 3085,
                                         // DocumentHandlingCapabilities = 3086,
                                         // 0x04, DETECT_FLAT = 0x08,
                                         // 0x20, DETECT_DUP = 0x40,
                                         // DETECT_DUP_AVAIL = 0x100
                                         // DocumentHandlingStatus = 3087,
                                         // 0x02, DUP_READY = 0x04,
                                         // PATH_COVER_UP = 0x10, PAPER_JAM = 0x20
                                         // DocumentHandlingSelect = 3088,
                                         // DUPLEX = 0x004, FRONT_FIRST = 0x008
                                         // 0x020, BACK_ONLY = 0x040
                                         // 0x100, AUTO_ADVANCE = 0x200
                                         // DocumentHandlingCapacity = 3089,
                                         // HorizontalOpticalResolution = 3090,
                                         // VerticalOpticalResolution = 3091,
                                         // EndorserCharacters = 3092,
                                         // EndorserString = 3093,
                                         // ScanAheadPages = 3094,
                                         // MaxScanTime = 3095,
                                         // Pages = 3096,
                                         // PageSize = 3097,
                                         // PageWidth = 3098,
                                         // PageHeight = 3099,
                                         // Preview = 3100,
                                         // TransparencyAdapter = 3101,
                                         // TransparecnyAdapterSelect = 3102,
                                         // ItemName = 4098,
                                         // FullItemName = 4099,
                                         // ItemTimeStamp = 4100,
                                         // ItemFlags = 4101,
                                         // AccessRights = 4102,
                                         // DataType = 4103,
                                         // BitsPerPixel = 4104,
                                         // PreferredFormat = 4105,
                                         // Format = 4106,
                                         // Compression = 4107,
                                         // MediaType = 4108
                                         // 0 = NONE, JPG = 5, PNG = 8

```

```

    PixelsPerLine = 4112,
    BytesPerLine = 4113,
    NumberOfLines = 4114,
    GammaCurves = 4115,
    ItemSize = 4116,
    ColorProfiles = 4117,
    BufferSize = 4118,
    RegionType = 4119,
    ColorProfileName = 4120,
    ApplicationAppliesColorMapping = 4121,
    StreamCompatibilityId = 4122,
    ThumbData = 5122,
    ThumbWidth = 5123,
    ThumbHeight = 5124,
    AudioAvailable = 5125,
    AudioFormat = 5126,
    AudioData = 5127,
    PicturesPerRow = 5128,
    SequenceNumber = 5129,
    TimeDelay = 5130,
    CurrentIntent = 6146,
    HorizontalResolution = 6147,
    VerticalResolution = 6148,
    HorizontalStartPosition = 6149,
    VerticalStartPosition = 6150,
    HorizontalExtent = 6151,
    VerticalExtent = 6152,
    PhotometricInterpretation = 6153,
    Brightness = 6154,
    Contrast = 6155,
    Orientation = 6156, // 0 = PORTRAIT, 1 = LANDSCAPE, 2 = 180°, 3 = 270°
    Rotation = 6157, // 0 = PORTRAIT, 1 = LANDSCAPE, 2 = 180°, 3 = 270°
    Mirror = 6158,
    Threshold = 6159,
    Invert = 6160,
    LampWarmUpTime = 6161,
}

```

For the possible values of every single property you can read the MSDN documentation:

[MSDN WIA Documentation](#)

or if you want to get deeper, you can analyze the header files of the original SDK.

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edited Apr 23, 2018 at 13:15

answered Mar 24, 2014 at 17:24



Jim Ashworth

765 6 17



DarioRinaldi

53 1 5



You can use the Properties object containing a list of properties. Use the Properties object of the Device object to access scanner properties (document feeder), use the Properties object of the Item object to access page properties (resolution).

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```

DeviceManager manager = new DeviceManagerClass();
DeviceInfo scannerInfo = WiaHelper.FindFirstScanner(manager);
Device device = scannerInfo.Connect();
Item item = device.Items[1];

public static DeviceInfo FindFirstScanner(DeviceManager manager)
{
    DeviceInfos infos = manager.DeviceInfos;
    foreach (DeviceInfo info in infos)
        if (info.Type == WiaDeviceType.ScannerDeviceType)
            return info;
    return null;
}

public static Property FindProperty(WIA.Properties properties, int
propertyId)
{
    foreach (Property property in properties)
        if (property.PropertyID == propertyId)
            return property;
    return null;
}

public static void SetDeviceProperty(Device device, int propertyId, object
value)
{
    Property property = FindProperty(device.Properties, propertyId);
    if (property != null)
        property.set_Value(value);
}

public static object GetDeviceProperty(Device device, int propertyId)
{
    Property property = FindProperty(device.Properties, propertyId);
    return property != null ? property.get_Value() : null;
}

public static object GetItemProperty(Item item, int propertyId)
{
    Property property = FindProperty(item.Properties, propertyId);
    return property != null ? property.get_Value() : null;
}

public static void SetItemProperty(Item item, int propertyId, object value)
{
    Property property = FindProperty(item.Properties, propertyId);
    if (property != null)
        property.set_Value(value);
}

```

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answered Sep 29, 2011 at 13:35

 Matthias Wuttke
1,947 2 21 38