


Win32_PrintJob class

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The **Win32_PrintJob** [WMI class](#) represents a print job generated by a Windows application. Any unit of work generated by the print command of an application that is running on a computer running on a Windows operating system is a descendant or member of this class.

The following syntax is simplified from Managed Object Format (MOF) code and includes all of the inherited properties. Properties are listed in alphabetic order, not MOF order.

Syntax

syntax

 Copy

```
class Win32_PrintJob : CIM_Job
{
    string    Caption;
    string    Description;
    datetime  InstallDate;
    string    Name;
    string    Status;
    datetime  ElapsedTime;
    string    JobStatus;
    string    Notify;
    string    Owner;
    uint32    Priority;
    datetime  StartTime;
    datetime  TimeSubmitted;
    datetime  UntilTime;
    string    Color;
    string    DataType;
    string    Document;
```

```
string    DriverName;  
string    HostPrintQueue;  
uint32    JobId;  
uint32    PagesPrinted;  
uint32    PaperLength;  
string    PaperSize;  
uint32    PaperWidth;  
string    Parameters;  
string    PrintProcessor;  
uint32    Size;  
uint32    StatusMask;  
uint32    TotalPages;  
};
```

Members

The **Win32_PrintJob** class has these types of members:

- [Methods](#)
- [Properties](#)

Methods

The **Win32_PrintJob** class has these methods.

Method	Description
Pause	Pauses a print job.
Resume	Continues a print job.

Properties

The **Win32_PrintJob** class has these properties.

Caption

Data type: **string**

Access type: Read-only

Qualifiers: [MaxLen](#) (64), [DisplayName](#) ("Caption")

A short textual description of the object.

This property is inherited from [CIM_ManagedSystemElement](#).

Color

Data type: **string**

Access type: Read-only

String that indicates whether the document is printed in color or monochrome. Some color printers have the capability to print using true black instead of a combination of yellow, cyan, and magenta. True black usually creates darker and sharper text for documents. This option is only useful for color printers that support true black printing.

The values are:

"Color"

"Monochrome"

Data Type

Data type: **string**

Access type: Read-only

Format of the data for this print job. This instructs the printer driver to translate the data (generic text, PostScript, or PCL) before printing, or print in a raw format (for graphics and pictures).

Example: "TEXT"

Description

Data type: **string**

Access type: Read-only

Qualifiers: [DisplayName](#) ("Description")

A textual description of the object.

This property is inherited from [CIM_ManagedSystemElement](#).

Document

Data type: **string**

Access type: Read-only

Name of the print job. The user sees this name when viewing documents that are waiting to be printed.

Example: "Microsoft Word - Review.doc"

DriverName

Data type: **string**

Access type: Read-only

Name of the printer driver used for the print job.

ElapsedTime

Data type: **datetime**

Access type: Read-only

Length of time the job has been executing.

This property is inherited from [CIM_Job](#).

HostPrintQueue

Data type: **string**

Access type: Read-only

Name of the computer on which the print job is created.

InstallDate

Data type: **datetime**

Access type: Read-only

Qualifiers: [MappingStrings](#) ("MIF.DMTF[ComponentID]001.5"), [DisplayName](#) ("Install Date")

Indicates when the object was installed. Lack of a value does not indicate that the object is not installed.

This property is inherited from [CIM_ManagedSystemElement](#).

JobId

Data type: **uint32**

Access type: Read-only

Identifier number of the job. It is used by other methods as a handle to a job spooling to the printer.

JobStatus

Data type: **string**

Access type: Read-only

Free-form string that represents the job status.

This property is inherited from [CIM_Job](#).

Name

Data type: **string**

Access type: Read-only

Qualifiers: [DisplayName](#) ("Name")

Label by which the object is known. When subclassed, this property can be overridden to be a key property.

This property is inherited from [CIM_ManagedSystemElement](#).

Notify

Data type: **string**

Access type: Read-only

User is notified upon job completion or failure.

This property is inherited from [CIM_Job](#).

Owner

Data type: **string**

Access type: Read-only

User who submitted the job.

This property is inherited from [CIM_Job](#).

PagesPrinted

Data type: **uint32**

Access type: Read-only

Number of pages that are printed. This value may be 0 (zero) if the print job does not contain page-delimiting information.

PaperLength

Data type: **uint32**

Access type: Read-only

Qualifiers: [Units](#) (Tenths of a millimeter.)

Length of the paper.

Example: 2794

PaperSize

Data type: **string**

Access type: Read-only

Size of the paper used to print the job. The value is one of the possible paper sizes for the printer specified in the **PaperSizesSupported** property of [Win32_Printer](#) class.

PaperWidth

Data type: **uint32**

Access type: Read-only

Qualifiers: [Units](#) (Tenths of a millimeter.)

Width of the paper.

Example: 2159

Parameters

Data type: **string**

Access type: Read-only

Optional parameters to send to the print processor. For more information, see the **PrintProcessor** property.

PrintProcessor

Data type: **string**

Access type: Read-only

Print processor service used to process the print job. A printer processor works in conjunction with the printer driver to provide additional translation of printer data for the printer, and can also be used to provide special options, such as a title page for the job.

Priority

Data type: **uint32**

Access type: Read-only

Importance of a job's execution.

This property is inherited from [CIM_Job](#).

Size

Data type: **uint32**

Access type: Read-only

Qualifiers: [Units](#) (Bytes)

Size of the print job.

StartTime

Data type: **datetime**

Access type: Read-only

Time that the job began.

This property is inherited from [CIM_Job](#).

Status

Data type: **string**

Access type: Read-only

Qualifiers: [MaxLen](#) (10), [DisplayName](#) ("Status")

String that indicates the current status of the object. Operational and non-operational status can be defined. Operational status can include "OK", "Degraded", and "Pred Fail". "Pred Fail" indicates that an element is functioning properly, but is predicting a failure (for example, a SMART-enabled hard disk drive).

Non-operational status can include "Error", "Starting", "Stopping", and "Service". "Service" can apply during disk mirror-resilvering, reloading a user permissions list, or other administrative work. Not all such work is online, but the managed element is neither "OK" nor in one of the other states.

This property is inherited from [CIM_ManagedSystemElement](#).

Values include the following:

OK ("OK")

Error ("Error")

Degraded ("Degraded")

Unknown ("Unknown")

Pred Fail ("Pred Fail")

Starting ("Starting")

Stopping ("Stopping")

Service ("Service")

Stressed ("Stressed")

NonRecover ("NonRecover")

No Contact ("No Contact")

Lost Comm ("Lost Comm")

StatusMask

Data type: **uint32**

Access type: Read-only

Bitmap of the possible statuses that relate to this print job.

1 (0x1)

Paused

2 (0x2)

Error

4 (0x4)

Deleting

8 (0x8)

Spooling

16 (0x10)

Printing

32 (0x20)

Offline

64 (0x40)

Paperout

128 (0x80)

Printed

256 (0x100)

Deleted

512 (0x200)

Blocked_DevQ

1024 (0x400)

User_Intervention_Req

2048 (0x800)

Restart

TimeSubmitted

Data type: **datetime**

Access type: Read-only

Time that the job was submitted.

This property is inherited from [CIM_Job](#).

TotalPages

Data type: **uint32**

Access type: Read-only

Number of pages required to complete the job. This value may be 0 (zero) if the print job does not contain page-delimiting information.

UntilTime

Data type: **datetime**

Access type: Read-only

Time at which the job is invalid or should be stopped.

This property is inherited from [CIM_Job](#).

Remarks

The **Win32_PrintJob** class is derived from [CIM_Job](#).

Examples

The following VBScript code sample describes how to retrieve printer jobs stats from instances of **Win32_PrintJob**.

VB

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```
Set PrintJobSet = GetObject("winmgmts:").InstancesOf ("Win32_PrintJob")

If (PrintJobSet.Count = 0) Then WScript.Echo "No print jobs!"
for each PrintJob in PrintJobSet
```

```

WScript.Echo PrintJob.Name
WScript.Echo PrintJob.JobId
WScript.Echo PrintJob.Status
WScript.Echo PrintJob.TotalPages
Wscript.Echo ""
next

```

The following Perl code sample describes how to retrieve printer jobs stats from instances of **Win32_PrintJob**.

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```

use strict;
use Win32::OLE;

close (STDERR);

my ($PrintJobset, $PrintJob);
eval {$PrintJobset = Win32::OLE->GetObject("winmgmts:
{impersonationLevel=impersonate}")->
  InstancesOf ("Win32_PrintJob") };
if (!$@ && defined $PrintJobset)
{
    if ($PrintJobset->{Count} == 0 )
    {
        print "\nNo print jobs!\n";
    }

    foreach $PrintJob (in $PrintJobset)
    {
        print $PrintJob->{Name} , "\n";
        print $PrintJob->{JobId} , "\n";
        print $PrintJob->{Status} , "\n";
        print $PrintJob->{TotalPages} , "\n";
    }
}
else
{
    print Win32::OLE->LastError, "\n";
}

```

Requirements

Minimum supported client

Windows Vista

Minimum supported server

Windows Server 2008

Namespace	Root\CIMV2
MOF	Win32_Printer.mof
DLL	CIMWin32.dll

See also

[CIM_Job](#)

[Computer System Hardware Classes](#)

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