CIM_Job class

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The **CIM_Job** class represents a unit of work for a system, such as a print job. A job is distinct from a process because a job can be scheduled.

> ⓘ **Important**
>
> The DMTF (Distributed Management Task Force) CIM (Common Information Model) classes are the parent classes upon which WMI classes are built. WMI currently supports only the **CIM 2.x version schemas**.

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

Syntax

syntax   ⧉ Copy

```
[Abstract, UUID("{8502C564-5FBB-11D2-AAC1-006008C78BC7}"), AMENDMENT]
class CIM_Job : CIM_LogicalElement
{
  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;
};
```

Members

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

- Properties

Properties

The **CIM_Job** 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**.

Description

Data type: **string**

Access type: Read-only

Qualifiers: **DisplayName** ("Description")

A textual description of the object.

This property is inherited from **CIM_ManagedSystemElement**.

ElapsedTime

Data type: **datetime**

Access type: Read-only

Length of time the job has been executing.

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**.

JobStatus

Data type: **string**

Access type: Read-only

Free-form string that represents the job status.

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.

Owner

Data type: **string**

Access type: Read-only

User who submitted the job.

Priority

Data type: **uint32**

Access type: Read-only

Importance of a job's execution.

StartTime

Data type: **datetime**

Access type: Read-only

Time that the job began.

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")

TimeSubmitted

Data type: **datetime**

Access type: Read-only

Time that the job was submitted.

UntilTime

Data type: **datetime**

Access type: Read-only

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

Remarks

The **CIM_Job** class is derived from **CIM_LogicalElement**.

WMI does not implement this class. For classes derived from **CIM_Job**, see Win32 Classes.

This documentation is derived from the CIM class descriptions published by the DMTF. Microsoft may have made changes to correct minor errors, conform to Microsoft SDK documentation standards, or provide more information.

Requirements

Minimum supported client	Windows Vista
Minimum supported server	Windows Server 2008
Namespace	Root\CIMV2
MOF	CIMWin32.mof
DLL	CIMWin32.dll

See also

CIM_LogicalElement

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👍 Yes   👎 No