

# Printer Checks

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## Printer Checks

Printer checks allow you to query the status of printers and their supplies.

### Nagios Plugins

In you have a HP printer with a Jet Direct card then Nagios Plugins includes a `check_hpjd` plugin that can provide statistics on the printer.

Command:

```
./check_hpjd -H 10.25.21.1 -C public -p 161
```

Output:

```
Toner Low ("Ready")
```

Alternatively check the SNMP section below for other methods of monitoring printers via SNMP.

### NCPA

NCPA does not include a printers module.

An alternative method is to query a performance counter, for example:

```
\Print Queue(FX DocuPrint M255 z PCL 6)\Job Errors  
\Print Queue(FX DocuPrint M255 z PCL 6)\Not Ready Errors  
\Print Queue(FX DocuPrint M255 z PCL 6)\Out of Paper Errors
```

More information about performance counters can be found in the [Performance Counter Checks](#) KB article.

### NSClient++ via check\_nt

NSClient++ does not include a printers module.

An alternative method is to query a performance counter, for example:

```
\Print Queue(FX DocuPrint M255 z PCL 6)\Job Errors  
\Print Queue(FX DocuPrint M255 z PCL 6)\Not Ready Errors  
\Print Queue(FX DocuPrint M255 z PCL 6)\Out of Paper Errors
```

More information about performance counters can be found in the [Performance Counter Checks](#) KB article.

### NSClient++ via check\_nrpe

NSClient++ does not include a printers module.

An alternative method is to query a performance counter, for example:

```
\Print Queue(FX DocuPrint M255 z PCL 6)\Job Errors  
\Print Queue(FX DocuPrint M255 z PCL 6)\Not Ready Errors  
\Print Queue(FX DocuPrint M255 z PCL 6)\Out of Paper Errors
```

More information about performance counters can be found in the [Performance Counter Checks](#) KB article.

### WMI

Check WMI Plus includes the checkprint module. This example will go critical if several of the error thresholds are greater than 0.

Command:

```
./check_wmi_plus.pl -H 10.25.14.10 -u administrator -p Str0ngP@ssw0rd -m checkprint -s spooler -a 'FX DocuPrint M255 z PCL 6' -c Job
```

Output:

```
Overall Status - OK (Sample Period 50 sec) - Printer Name="FX DocuPrint M255 z PCL 6" (OK) - _BytesPrintedPersec=0, JobErrors=0, Jo  
OutofPaperErrors=0, TotalJobsPrinted=0, TotalPagesPrinted=0|'FX DocuPrint M255 z PCL 6 _BytesPrintedPersec'=0; 'FX DocuPrint M255 z  
'FX DocuPrint M255 z PCL 6 Jobs'=0; 'FX DocuPrint M255 z PCL 6 JobsSpooling'=0; 'FX DocuPrint M255 z PCL 6 NotReadyErrors'=0;0; 'FX  
'FX DocuPrint M255 z PCL 6 TotalJobsPrinted'=0; 'FX DocuPrint M255 z PCL 6 TotalPagesPrinted'=0;
```

### SNMP

SNMP is the most common method for checking the status of a printer. Due to the varying models of printers available it's not possible to provide examples of how to monitor each one. T printer model.

You can of course check specific OID's via SNMP.

A generic OID could be `hrDeviceStatus` and it is OK if it returns a `running` state:

Command:

```
./check_snmp -H 10.25.21.1 -o hrDeviceStatus.1 -C box293 -P 2c -r running
```

Output:

```
SNMP CRITICAL - *warning(3)* |
```

You could also report on a specific OID for that device. In this example I am not generating any alert, I am just using it for information gathering.

Command:

```
./check_snmp -H 10.25.21.1 -o SNMPv2-SMI::mib-2.43.18.1.1.8.1.1 -C box293 -P 2c
```

Output:

```
SNMP OK - "093-426:Check Print Cartridge Soon.(Toner Cartridge)" |
```

To be successful with SNMP checks you will need to download the MIB file from the manufacturer to understand what a "good" response is. This is why finding a plugin specific to your printer (re-inventing the wheel).

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## Final Thoughts

For any support related questions please visit the [Nagios Support Forums](#) at:

<http://support.nagios.com/forum/>

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