

# IBM Director 4.22 Hardware and Software Compatibility

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## Overview

This document provides the following information:

- Supported IBM hardware for IBM® Director 4.22
- Supported operating systems for IBM Director 4.22
- Supported workgroup and enterprise systems-management software for IBM Director 4.22
- IBM Director 4.22 limitations and performance considerations

## Supported hardware

IBM Director Agent is licensed for use and supported on the following IBM systems and products:

- IBM eServer™ xSeries® and Netfinity® servers
- IBM eServer BladeCenter™ and BladeCenter T chassis
- IBM eServer blade servers
- IBM IntelliStation® workstations
- IBM ThinkCentre, NetVista, and PC desktop computers
- IBM TotalStorage® Network Attached Storage (NAS) products
- IBM ThinkPad mobile computers
- IBM SurePOS™ point-of-sale systems

IBM Director Agent is supported on non-IBM systems with SMBIOS 2.1 or later that meet the Intel® Wired for Management (WfM) 2.0 specification.

### Notes:

1. Some models might not be available in your area.
2. The IBM TotalStorage NAS products come with IBM Director Agent installed.
3. The support for the BladeCenter T chassis includes discovery, inventory, chassis events, and chassis status. While you can use the BladeCenter Assistant task to manage and configure the chassis, blade servers, and switches, the BladeCenter Deployment wizard cannot be run against the BladeCenter T chassis.

For information about the specific models that IBM Director supports, see the following lists.

Some systems and products are supported only in *compatibility mode*. Compatibility mode means that IBM Director only provides basic systems-management capabilities, such as system discovery, inventory collection, and the display of basic system information. Hardware-specific features are not supported, although they might be included in a later release of IBM Director. Hardware-specific features can include the following IBM Director tasks:

- Alert Standard Format (ASF)
- Asset ID™
- Hardware Status
- Management Processor Assistant (MPA)
- Rack Manager
- ServeRAID™ Manager

Hardware-specific features also include Predictive Failure Analysis® (PFA) alerts for memory and processors, as well as environmental sensor monitoring, such as temperature, fan, voltage, power-supply status, and chassis-intrusion detection.

## IBM eServer products

- IBM eServer BladeCenter HS20<sup>1</sup>, HS40<sup>1</sup>, LS20<sup>1</sup>, and JS20
- IBM eServer 325, 326<sup>1</sup>

## xSeries servers

- xSeries 200
- xSeries 200VL
- xSeries 205<sup>1</sup> (no ASF support, no fan monitoring)
- xSeries 206<sup>1</sup> (no ASF support on AMD64 or EM64T operating systems)
- xSeries 220
- xSeries 225<sup>1</sup> (no ASF support, no fan monitoring)
- xSeries 226
- xSeries 230
- xSeries 232 (no Alert on LAN™ support)
- xSeries 235<sup>1</sup>
- xSeries 236<sup>1</sup>
- xSeries 240
- xSeries 250
- xSeries 255<sup>1</sup>
- xSeries 300
- xSeries 305<sup>1</sup> (no ASF support)
- xSeries 306<sup>1</sup> (no ASF support on AMD64 or EM64T operating systems)
- xSeries 330
- xSeries 335<sup>1</sup>
- xSeries 336<sup>1</sup>
- xSeries 340
- xSeries 342 (no Alert on LAN support)
- xSeries 343 (compatibility-mode support only)
- xSeries 345<sup>1</sup>
- xSeries 346<sup>1</sup>
- xSeries 350
- xSeries 360<sup>1</sup>
- xSeries 365<sup>1</sup>
- xSeries 366<sup>1</sup>
- xSeries 370
- xSeries 440<sup>1</sup>
- xSeries 445<sup>1</sup>
- xSeries 450
- xSeries 455
- xSeries 460<sup>1</sup>

Footnote 2 applies to all the supported xSeries servers.

### Notes:

<sup>1</sup> System Health Monitoring is supported for these servers running Linux®.

<sup>2</sup> (Management servers running Microsoft® Windows®) To avoid generating an error message when IBM Director Server is stopped, install the IBM ASM Service Processor Device Driver, Version 5.24b or later. See the IBM Director 4.20 readme file (dir4.20\_readme.txt) for more information. You can ignore the error message.

## Nefinity servers

- Netfinity 1000
- Netfinity 3000
- Netfinity 3500
- Netfinity 3500 M10
- Netfinity 3500 M20
- Netfinity 4000R
- Netfinity 4500
- Netfinity 4500R
- Netfinity 5000
- Netfinity 5100
- Netfinity 5500
- Netfinity 5500 M10
- Netfinity 5500 M20
- Netfinity 5600
- Netfinity 6000
- Netfinity 6000R
- Netfinity 7000 (compatibility-mode support only)
- Netfinity 7000 M10
- Netfinity 7100
- Netfinity 7600
- Netfinity 8500R

### Note:

(Management servers running Windows) To avoid generating an error message when IBM Director Server is stopped, install the IBM ASM Service Processor Device Driver, Version 5.24b or later. See the IBM Director 4.20 readme file (dir4.20\_readme.txt) for more information. You can ignore the error message.

## IntelliStation workstations

- A-Pro – 6224, 6217
- E-Pro – 6204, 6214, 6216, 6226, 6836, 6846, 6867, 6893
- M-Pro – 6219, 6220, 6225, 6229, 6230, 6231, 6233, 6849, 6850, 6868, 6878, 6889, 6898
- R-Pro – 6851
- Z-Pro – 6221, 6222, 6223, 6227, 6865, 6866

## IBM ThinkCentre, NetVista, and PC desktop computers

- ThinkCentre A30 – 2296, 8191, 8198, 8199, 8316, 8434
- ThinkCentre A50 – 8320, 8419
- ThinkCentre A50p – 8192, 8193, 8194, 8195, 8196, 8197, 8432, 8433
- ThinkCentre A51 – 8424, 8425, 8428
- ThinkCentre A51p – 8420, 8421, 8422, 8423, 8426, 8427
- ThinkCentre M50 – 8185, 8186, 8187, 8188, 8189, 8190, 8413, 8414, 8415
- ThinkCentre M51 – 8141, 8142, 8143, 8144, 8145, 8146
- ThinkCentre S50 – 8183, 8184, 8416, 8417, 8418, 8429
- ThinkCentre S51 – 8171, 8172, 8173
- NetVista A20 – 6266, 6269, 6270, 6279, 6286
- NetVista A21 and A22 – 6339, 6341, 6342, 6346, 6347, 6348

- NetVista A22p – 6343, 6349, 6350, 6825
- NetVista A30 – 8313, 8314, 8315
- NetVista A30 – 6826
- NetVista A30p – 8309, 8310, 8311, 8312
- NetVista A40 – 6058, 6568, 6578, 6648, 6830, 6831, 6840, 6841, 6842, 6881
- NetVista A40p – 6579, 6837, 6847
- NetVista A60 – 6838, 6833
- NetVista S40 – 6644, 6645
- NetVista M41 – 6790, 6791, 6792, 6793, 6794, 6795
- NetVista M41 Slim – 6843, 6844
- NetVista M42 – 6290, 8301, 8303, 8304, 8305, 8306, 8307, 8308
- NetVista M42 Slim – 6290
- NetVista S40p – 6646
- NetVista S42 – 8317, 8318, 8319
- NetVista X40 – 6643
- NetVista X41 – 6274
- PC 300 – 6344, 6345
- PC 300GL – 6263, 6268, 6272, 6275, 6277, 6278, 6282, 6284, 6285, 6287, 6288, 6338, 6561, 6563, 6564, 6574, 6591
- PC 300PL – 6562, 6565, 6584, 6592, 6594, 6595, 6862, 6871, 6892
- PC 300XL – 6588
- PC 710 – 6870

### **IBM TotalStorage Network Attached Storage products**

- IBM NAS 100 – 5190 NAS Model R12 (no ASF support)
- IBM NAS 200 – 5194 NAS Models 200, 201, 225, 226
- IBM NAS 300 – 5195 NAS Models 325, 326
- IBM NAS 300G – 5196 NAS Model G00, G01, G25, G26

### **ThinkPad mobile computers**

- A2x – 2628, 2629, 2633, 2655
- A3x – 2652, 2653, 2654
- G4x – 2384, 2387, 2388, 2389
- R3x – 2656, 2657, 2658, 2659, 2676, 2677
- R4x – 2681, 2682, 2683, 2684, 2722, 2723, 2724
- R5x – 1829, 1830, 1831, 1832, 1833, 1834, 1836, 1840, 1841, 1842, 1843, 1844, 1845, 1858, 1859, 1860, 1861, 1862, 1863, 2687, 2688, 2689
- S3x – 2639
- T2x – 2647, 2648
- T3x – 2366, 2367
- T4x – 2373, 2374, 2375, 2376, 2378, 2379, 2668
- X2x – 2660, 2661, 2662, 2881, 2884, 2885, 2890
- X3x – 2672, 2673
- X4x – 2369, 2370, 2371, 2372, 2381, 2382, 2386
- TransNote – 2675
- 240
- 380XD, 380Z
- 390, 390X, 390E
- 560X, 560Z

- 570, 570E
- 600, 600E, 600X
- 770, 770E, 770ED, 770X, 770Z

### **SurePOS point-of-sale systems**

- SurePOS 4694
- SurePOS 500 / 600 – 4840
- SurePOS 700 – 4800

All SurePOS point-of-sale systems are supported in compatibility mode only.

## Supported operating systems and software

This section lists the operating systems on which IBM Director Server, IBM Director Console, and IBM Director Agent can be installed. It also provides information about supported workgroup and enterprise systems-management software.

Consider the following restrictions concerning operating-system support:

- To install IBM Director Agent or IBM Director Server on i5/OS™ (formerly OS/400®), you must use IBM Director Multiplatform, which is installed using the IBM Virtualization Engine™.
- To install IBM Director Agent on the following operating systems, you can use either IBM Director Multiplatform or the IBM Director software that came with your BladeCenter chassis:
  - AIX® 5L, Version 5.2
  - Red Hat® Enterprise Linux AS, version 3.0, for IBM Power PC® (iSeries™ and pSeries®)
  - SUSE LINUX Enterprise Server 8 for IBM pSeries and IBM iSeries

The software for these installations also can be downloaded from the IBM Support Web site.

### IBM Director Server

IBM Director Server, which installs all IBM Director components, requires TCP/IP. You can install IBM Director Server on the following operating systems:

- i5/OS, Version 5 Release 3
- Red Hat Linux Advanced Server, version 2.1 (Update 3 required)
- Red Hat Enterprise Linux AS, version 2.1 (Update 3 required)
- Red Hat Enterprise Linux AS, version 3.0, for Intel x86 (through Update 5)
- Red Hat Enterprise Linux ES, versions 2.1 and 3.0 (through Update 5)
- SUSE LINUX Enterprise Server 8 for x86 (Service Pack 3 required)
- SUSE LINUX Enterprise Server 9 for x86
- Windows 2000, Advanced Server and Server Editions (Service Pack 3 required)
- Windows Server 2003, Standard, Enterprise, and Web Editions (through Service Pack 1)

### IBM Director Console

IBM Director Console requires TCP/IP. You can install IBM Director Console on the following operating systems:

- Red Hat Linux Advanced Server, version 2.1 (Update 3 required)
- Red Hat Enterprise Linux AS, version 2.1 (Update 3 required)
- Red Hat Enterprise Linux AS, version 3.0, for Intel x86 (through Update 5)
- Red Hat Enterprise Linux ES, versions 2.1 and 3.0 (through Update 5)
- SUSE LINUX Enterprise Server 8 for x86 (Service Pack 3 required)
- SUSE LINUX Enterprise Server 9 for x86
- Windows 2000, Advanced Server, Professional, and Server Editions (Service Pack 3 required)
- Windows XP Professional Edition (Service Pack 1 or 1a recommended)
- Windows Server 2003, Standard, Enterprise, and Web Editions (through Service Pack 1)

## IBM Director Agent

You can install IBM Director Agent on the following operating systems:

- AIX 5L, Version 5.2 (Recommended Maintenance Package 5.2.00-03 or later required)
- AIX 5L, Version 5.3
- i5/OS, Version 5 Release 3
- Novell NetWare, versions 6.0 and 6.5
- Red Hat Linux Advanced Server, version 2.1 (Update 3 required)
- Red Hat Enterprise Linux AS, version 2.1 (Update 3 required)
- Red Hat Enterprise Linux, ES and WS, version 2.1
- Red Hat Enterprise Linux AS, ES, and WS, version 3.0, for AMD64 & Intel EM64T (through Update 5)
- Red Hat Enterprise Linux AS, ES, and WS, version 3.0, for Intel x86 (through Update 5)
- Red Hat Enterprise Linux AS, version 3.0, for IBM Power PC (iSeries and pSeries) (through Update 5)
- Red Hat Enterprise Linux AS, version 3.0, for Intel Itanium (64-bit) (through Update 5)
- Red Hat Enterprise Linux AS, ES, and WS, version 4.0, for AMD64 & Intel EM64T (limited support)
- Red Hat Enterprise Linux AS, ES, and WS, version 4.0, for Intel x86 (limited support)
- SUSE LINUX Enterprise Server 8 for AMD64 (Service Pack 3 required)
- SUSE LINUX Enterprise Server 8 for IBM pSeries and IBM iSeries (Service Pack 3 required)
- SUSE LINUX Enterprise Server 8 for Itanium Processor Family (Service Pack 3 required)
- SUSE LINUX Enterprise Server 8 for x86 (Service Pack 3 required)
- SUSE LINUX Enterprise Server 9 for AMD64 and Intel EM64T (through SP1)
- SUSE LINUX Enterprise Server 9 for IBM POWER™ (through SP1)
- SUSE LINUX Enterprise Server 9 for Itanium Processor Family (through SP1)
- SUSE LINUX Enterprise Server 9 for x86 (through SP1)
- VMware ESX Server, version 1.5.2 (Patch 3 required)<sup>1</sup>
- VMware ESX Server, version 2.0<sup>1</sup>
- VMware ESX Server, version 2.0.1<sup>1</sup>
- VMware ESX Server, version 2.1<sup>1</sup>
- VMware ESX Server, version 2.5<sup>1</sup>
- VMware ESX Server, version 2.5.1<sup>1</sup>
- VMware GSX Server, version 3.1<sup>1</sup>
- VMware GSX Server, version 3.2<sup>1</sup>
- Windows NT® 4.0 Workstation (Service Pack 6a or later required)
- Windows NT 4.0 Server, Standard, Enterprise, and Terminal Server Editions (Service Pack 6a or later required)
- Windows NT 4.0 Server with Citrix MetaFrame (Service Pack 6a or later required)
- Windows 2000, Advanced Server, Datacenter Server, Professional, and Server Editions (Service Pack 3 or later required)
- Windows XP Professional Edition (Service Pack 1 or 1a recommended, Service Pack 2 supported)
- Windows Server 2003, Standard, Enterprise, Datacenter, and Web Editions (through Service Pack 1)
- Windows Server 2003, Standard, Enterprise, and Datacenter, x64 Editions
- Windows Server 2003, Datacenter and Enterprise Editions, 64-bit versions (Itanium only systems)
- Microsoft Virtual Server 2005 Standard and Enterprise Editions, with the following guest operating systems:
  - o Windows NT Server 4.0 (Service Pack 6a required)
  - o Windows 2000, Advanced Server and Server Editions (Service Pack 3 or later required)
  - o Windows Server 2003, Enterprise, Standard, and Web Editions (through Service Pack 1)



IBM Director Agent can use the following network protocols:

- TCP/IP
- NetBIOS
- IPX
- SNA
- HTTP

If you choose to install the Web-based Access feature for IBM Director Agent, the following Web browsers are supported:

- Microsoft Internet Explorer, Version 4.1 or later
- Netscape Navigator, Version 4.x or 7.01

**Notes:**

<sup>1</sup> Supported guest operating systems are those supported by *both* IBM Director 4.22 and the specified version of VMware. See the VMware product documentation for a list of supported operating systems.

## Workgroup and enterprise systems-management software

Using Upward Integration Modules, IBM Director Agent can be integrated with robust workgroup and enterprise management software from IBM (such as Tivoli® software), Computer Associates, Hewlett-Packard, Microsoft, NetIQ, and BMC Software.

For more information, see the *IBM Director 4.20 Upward Integration Modules Installation Guide* and the IBM Director Upward Integration Web page at <http://www.ibm.com/pc/support/site.wss/document.do?Indocid=MIGR-55433>.

## IBM Director limitations and performance considerations

IBM Director 4.22 can manage up to 5000 systems with one management server.

The number of systems that IBM Director 4.22 can manage efficiently depends on the existing network load and the functions you want to perform. System discovery, frequent presence checks, and alert usage can increase network traffic. Precise performance information must be ascertained in each individual environment.

When installing the default configuration for IBM Director Agent on a managed system, 64 MB of system memory is sufficient. However, if you choose to install additional IBM Director Agent features, 128 MB of system memory is recommended.

For more information about IBM Director limitations and performance considerations, see the *IBM Director 4.20 Installation and Configuration Guide*.

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