IBM Tivoli Application Dependency Discovery Manager
Version 7.3

Sensors and supported target systems

Contents

Chapter 1. Sensors and supported target systems

This document lists the IBM® Tivoli Application Dependency Discovery Manager (TADDM) 7.3 sensors and the supported versions of target systems that they can discover.

The sensors are organized primarily according to sensor type (for example, application sensor or database sensor) and secondarily in alphabetical order according to the sensor name.

For additional information about each sensor, see the TADDM sensor documentation in Tivoli Documentation Central at https://www.ibm.com/support/knowledgecenter/SSPLFC_7.3.0/com.ibm.taddm.doc_7.3/welcome_page/kc_welcome-444.html.

*** Important**

As the sensors have been maintained and updated in order to discover new releases of the targets, it is possible that for any system or technology withdrawn from support, the discovery run by the affected sensors may fail. The targets that are withdrawn from support are marked with an asterisk (*).

Application sensors

This matrix lists the application sensors and the supported versions of target systems that they can discover.

Note: As this sensor has been maintained and updated in order to discover new releases of the targets, it is possible that for any system or technology withdrawn from support, the discovery run by the sensor may fail.

Table 1. Application sensors and supported target systems

This sensor:	Discovers this software:	Running on this operating system:
Active Directory sensor	Microsoft Active Directory 2003	Windows Server 2003 *
	Microsoft Active Directory 2008 (through Release 2)	Windows Server 2008
	Microsoft Active Directory 2012	Windows Server 2012
	Fix Pack 7 Microsoft Active Directory 2016	Fix Pack 7 Windows Server 2016, Windows Server 2019
Apache sensor	Apache 1 and 2 **Note:** The sensor discovers the IBM HTTP Server (IHS) and the Oracle HTTP Server (OHS), which are both based on the Apache HTTP Server.	• AIX® 5 *, 6.1 and 7.1 • HP-UX 11.0 and 11i • Red Hat Enterprise Linux® 4, 5, 6, and 7 • Solaris 8 *, 9 *, and 10 • SUSE LinuxÂ Enterprise Server 9, and 10 • Windows Server 2003 *, Server 2008, Server 2008 R2, Server 2012, and Server 2012 R2 • Fix Pack 7 Windows Server 2016
	Apache 2 **Note:** The sensor discovers the IBM HTTP Server (IHS) and the Oracle HTTP Server (OHS), which are both based on the Apache HTTP Server.	Fix Pack 7 Windows Server 2019
Citrix server sensor	• Citrix Presentation Server Enterprise 3 and 4 • Citrix XenApp Enterprise version 5	Windows Server 2003 *
	Citrix XenApp Enterprise version 6	Windows Server 2008 Release 2

Table 1. Application sensors and supported target systems (continued)		
This sensor:	**Discovers this software:**	**Running on this operating system:**
Citrix 7 server sensor	• Citrix XenApp Enterprise version 7.6 • Fix Pack 7 Citrix XenApp Enterprise version 7.15	Fix Pack 7 Windows Server 2012 Release 2
Fix Pack 4 Docker Host Sensor	Docker Host: 17.06.0	• Ubuntu 16.04.2 LTS • Fix Pack 6 Red Hat Enterprise Linux 7.3, 7.4, and 7.5
Fix Pack 4 Docker Swarm Cluster Sensor	Docker Swarm Cluster:17.06.0	• Ubuntu 16.04.2 LTS • Fix Pack 6 Red Hat Enterprise Linux 7.3, 7.4, and 7.5
DNS sensor	Domain Name System (DNS) servers	Not applicable
HIS sensor	Microsoft Host Integration Server 2006 (build 7.0.2758.0)	Windows Server 2003 Service Pack 2 *
	Microsoft Host Integration Server 2010 (build 8.5.4224.0)	Windows Server 2008
	Microsoft Host Integration Server 2009 (build 8.0.3608.00)	Windows Server 2008
IBM Cluster Systems Management sensor	IBM Cluster Systems Management (CSM) High Performance Computing (HPC) cluster nodes: • 1.4.1.3 • 1.4.1.10 • 1.4.1.15 • 1.5.0.1 • 1.5.1.3 • 1.6.0.11 • 1.7.0	• AIX 5.3 *, 6.1 and 7.1, but only if the CSM HPC cluster node software is at one of the following levels on IBM POWER® processor-based systems: – 1.4.1.15 – 1.6.0.11, or later • Red Hat Enterprise Linux 4, or later • SUSE Linux Enterprise Server 8, or later
IBM High-Availability Cluster Multi-Processing (HACMP) sensor	IBM HACMP 6.1	AIX 5.3 ML 11 and 12 *, and 6.1
	IBM HACMP 7.1	AIX 7.1
IBM Lotus® Domino® server sensor	IBM Lotus Domino: • 6.0 • 6.5 • 7.0.2 • 8.0	• AIX 5 *, 6, and 7 • Red Hat Enterprise Linux 5, and 6 • Windows Server 2003 *, and Server 2008
	IBM Lotus Domino 8.5	• AIX 5 *, 6, and 7 • Red Hat Enterprise Linux 5, and 6 • Windows Server 2003 *, and Server 2008 • SUSE Linux Enterprise Server 11
	Fix Pack 6 IBM Lotus Domino 9.0.1	• AIX 7.1 • Red Hat Enterprise Linux 7 • Windows Server 2008, Server 2012, and Server 2016 • SUSE Linux Enterprise Server 11

Table 1. Application sensors and supported target systems (continued)

This sensor:	Discovers this software:	Running on this operating system:
IBM Tivoli Monitoring Scope sensor	The sensor supports Tivoli Enterprise Portal Server, Tivoli Enterprise Monitoring Server, and Tivoli Monitoring agents for IBM Tivoli Monitoring Version 6.2.1-TIV-ITM-FP0001, 6.2.2-TIV-ITM-FP0002, or a later level. **Note:** These fix pack levels resolve APAR IZ63983, which improves IBM Tivoli Monitoring performance during TADDM discoveries. The sensor provides the basic discovery of the Tivoli Enterprise Portal Server and Tivoli Monitoring endpoints, similar to a standard TADDM Level 1 discovery. IP addresses, MAC addresses, and the operating system type for each computer that is reported by IBM Tivoli Monitoring are discovered. For detailed information about discovered attributes, see the TADDM *Sensor Reference*.	
IBM WebSphere® sensor	IBM WebSphere Application Server 7.0	• AIX 5.3 *, 6.1, and 7.1 • HP-UX 11i • Red Hat Enterprise Linux 4, 5, and 6 • Solaris 8 *, 9 *, 10 • SUSE Linux Enterprise Server 9, and 10 • Windows Server 2003 *, and 2008 • z/OS®
	IBM WebSphere Application Server 8.0	• AIX 6.1 • Red Hat Enterprise Linux 6 • Solaris 10 • SUSE Linux Enterprise Server 11 • Windows Server 2008 • z/OS
	IBM WebSphere Application Server 8.5	• AIX • Red Hat Enterprise Linux 5, and 6 • SUSE Linux Enterprise Server 11 • Windows Server 2008 • z/OS
	Fix Pack 4 IBM WebSphere Application Server 9.0	• AIX 7.1 • Red Hat Enterprise Linux 7 • SUSE Linux Enterprise Server 11 • Windows Server 2012 R2 Standard and Server 2016 Standard
	IBM WebSphere Virtual Enterprise Version 6.1.1	• AIX 6.1 • Red Hat Enterprise Linux 5 • z/OS
	Java™ Database Connectivity (JDBC) drivers: • DB2® Universal JDBC Driver • Informix® JDBC Driver • Oracle JDBC Driver	Not applicable
IBM WebSphere eXtreme Scale cache sensor	IBM WebSphere eXtreme Scale: • 6.1.0 • 7.1	• AIX • Red Hat Enterprise Linux

Table 1. Application sensors and supported target systems (continued)

This sensor:	Discovers this software:	Running on this operating system:
IBM WebSphere Message Broker sensor / IBM Integration Bus sensor	IBM WebSphere Message Broker 7	• SUSE Linux Enterprise Server 9, 10, and 11 • Windows Server 2003 * and Server 2008
	IBM WebSphere Message Broker 8	• Fix Pack 1 Solaris 10 • Windows
	Fix Pack 4 IBM Integration Bus 9	• Red Hat Enterprise Linux 7 • Windows Server 2012
	Fix Pack 4 IBM Integration Bus 10	• AIX *7.1 • Red Hat Enterprise Linux 7 • Windows * Server 2012
IBM WebSphere MQ Server sensor	IBM WebSphere MQ Server: • 6.0 • 7.0	• AIX 5.3 *, 6.1, and 7.1 • Red Hat Enterprise Linux 4, 5, and 6 • Solaris 8 *, 9 *, and 10 • SUSE Linux Enterprise Server 9 • Windows XP *, Server 2003 *, and Server 2008
	IBM WebSphere MQ Server: • 7.1 • 7.5 • 8.0	• AIX 7.1 • Red Hat Enterprise Linux 5 and 6 • Windows Server 2008 R2
iPlanet server sensor	iPlanet 4 and 6	• AIX 5 *, and 7.1 • HP-UX 11.0, and 11i • Red Hat Enterprise Linux 4, and 6 • Solaris 8 *, 9 *, and 10 • SUSE Linux Enterprise Server 9, and 10
JBoss server sensor	• JBoss Application Server 4 • JBoss Application Server 5.0 • JBoss Application Server 5.1	• Red Hat Enterprise Linux 4, 5, and 6 • Solaris 8 *, 9 *, and 10 • SUSE Linux Enterprise Server 9, and 10 • Windows Server 2003 *
	• JBoss Application Server 6.0 • JBoss Application Server 6.1	• Red Hat Enterprise Linux 5, and 6 • Windows Server 2008, and Server 2008 R2
JBoss Application Server 7 sensor	JBoss Application Server 7 (alone, or as a part of JBoss Enterprise Application Platform 6)	• Red Hat Enterprise Linux 5 and 6 • Windows Server 2008 and Server 2008 R2
	Fix Pack 3 • WildFly 8 • WildFly 9	• Red Hat Enterprise Linux 7 • Windows Server 2012
KVM sensor	• Libvirt 0.8, or later • Qemu 0.12, or later	• Red Hat Enterprise Linux 5.4, or later • SUSE Linux Enterprise Server 11 SP1 and SP2

Table 1. Application sensors and supported target systems (continued)		
This sensor:	**Discovers this software:**	**Running on this operating system:**
Microsoft Cluster sensor	Clusters in Windows Server 2003 and 2008	• Windows Server 2003 Datacenter Edition * and Server 2008 Datacenter Edition • Windows Server 2003 Enterprise Edition * and Server 2008 Enterprise Edition
	Clusters in Windows Server 2012	Windows Server 2012
	Fix Pack 8 Clusters in Windows Server 2019	Fix Pack 8 Windows Server 2019
Microsoft Exchange sensor **Note:** In TADDM releases prior to TADDM 7.2.2, this sensor was named *Microsoft Exchange 2007 Server sensor*.	• Microsoft Exchange Server 2007 • Microsoft Exchange Server 2010 • Microsoft Exchange Server 2013	Windows Server 2003 *, Server 2008, Server 2008 R2, Server 2012, and Server 2012 R2 **Note for Exchange Server 2007 running on Windows Server 2003 64-bit:** For this sensor, you must install Microsoft hotfix 942589 (which is available at http://support.microsoft.com/kb/942589) for any Exchange Server 2007 that is running on a 64-bit version of Windows Server 2003. The hotfix allows 32-bit applications to start 64-bit applications. TADDM discovery is a 32-bit process, and the Microsoft Exchange sensor must run the 64-bit version of Windows PowerShell, which then runs the 64-bit version of the Exchange management tools. This problem does not apply to Windows Server 2008 because the `%WinDir%\SysNative` folder on a 64-bit version of Windows Server 2008 is already accessible to a 32-bit process.
	Fix Pack 3 Microsoft Exchange Server 2016	Windows Server 2012
Microsoft Exchange 2003 sensor **Note:** In TADDM releases prior to TADDM 7.2.2, this sensor was named *Microsoft Exchange Server sensor*.	Microsoft Exchange Server 2003	Windows Server 2003 *, and later
Microsoft HyperV sensor	• Hyper-V 6.1 • Hyper-V 6.2 • Fix Pack 6 Hyper-V 6.3 • Fix Pack 6 Hyper-V 10.1	• Windows Server 2008 x64 Edition with Hyper-V server role enabled • Windows Server 2012 with Hyper-V server role enabled • Microsoft Hyper-V Server 2008 x64 Edition • Microsoft Hyper-V Server 2012 • Fix Pack 6 Microsoft Hyper-V Server 2016
Microsoft IIS Web server sensor	Microsoft Internet Information Services (IIS) 6.0	Windows Server 2003 * , and Windows XP Professional x64 Edition *
	Microsoft Internet Information Services (IIS) 7.0	Windows Vista, and Windows Server 2008
	Microsoft Internet Information Services (IIS) 7.5	Windows 7, and Windows Server 2008 R2
	Microsoft Internet Information Services (IIS) 8.0	Windows 8, and Windows Server 2012
	Fix Pack 6 Microsoft Internet Information Services (IIS) 10.0	Fix Pack 6 Windows Server 2016, and Fix Pack 7 Windows Server 2019
NFS sensor	Network File System (NFS) servers	Not applicable

Table 1. Application sensors and supported target systems (continued)		
This sensor:	**Discovers this software:**	**Running on this operating system:**
Oracle Application Server sensor	Oracle Application Server 10g Release 3 (10.1.3.*x*)	• Red Hat Enterprise Linux 4 • Solaris 8 *, 9 *, and 10 • SUSE Linux Enterprise Server 9, and 10 • Windows Server 2003 *
Fix Pack 8 Pacemaker Cluster sensor	Pacemaker Clusters	Red Hat Enterprise Linux 7.7
SAP CCMS server sensor	SAP Computing Center Management System (CCMS): • 4.6C • 4.6D • 6.x • 7.x	• AIX 5 *, 6.1, and 7.1 • HP-UX 11.0 and 11i on PA-RISC systems • Red Hat Enterprise Linux 4, 5, and 6 • SUSE Linux Enterprise Server 9, 10, and 11 • Solaris 8 *, 9 *, and 10 • Windows Server 2003 *, Server 2008, and Server 2008 R2
SAP SLD server sensor	SAP System Landscape Directory (SLD): • 6.40 and later • 7.0 • 7.1	• AIX 5 *, 6.1, and 7.1 • HP-UX 11.0 and 11i on PA-RISC systems • Red Hat Enterprise Linux 4, 5, and 6 • SUSE Linux Enterprise Server 9, 10, and 11 • Solaris 8 *, 9 *, and 10 • Windows Server 2003 *, Server 2008 and Server 2008 R2
	SAP System Landscape Directory (SLD) 7.4	Red Hat Enterprise Linux 6
SMB server sensor	Server Message Block (SMB) file servers	Not applicable
SMS server sensor	Microsoft Systems Management Server (SMS) 2003	Windows Server 2003 *
SysImager sensor	SystemImager cluster nodes: • 3.4.1 • 3.5.4 • 3.7.5 • 4.0.2	• Red Hat Enterprise Linux 4 or later • SUSE Linux Enterprise Server 8 or later
Veritas cluster sensor	Veritas Cluster Server: • 3.5 • 4.0 • 4.1 • 4.3 • 5.0 • 6.0	• AIX 5L 5.3 * • HP-UX 11.0 and 11i v1 (B.11.11) • Red Hat Enterprise Linux 4, 5, and 6 • Solaris 8 *, 9 *, and 10 • SUSE Linux Enterprise Server 9, and 10 • Windows Server 2003 Service Pack 1 (32-bit edition) *, and Server 2008 R2

Table 1. Application sensors and supported target systems (continued)		
This sensor:	**Discovers this software:**	**Running on this operating system:**
VMware Virtual Center server sensor	VMware vCenter Server: • 2.5 • 4.0 • 4.1 • 5.0 • 5.1 • 5.5 • Fix Pack 3 6.0 • 6.5	Windows
	VMware vCenter Server Appliance: • 5.0 • 5.5 • Fix Pack 3 6.0	SUSE Linux Enterprise Server 11
	Fix Pack 4 VMware vCenter Server Appliance: • 6.5 • Fix Pack 8 6.7	VMware Photon / Linux version 1.0
WebLogic sensor	Oracle WebLogic Server: • 9 • 10.0 • 10.1 • 10.3	• AIX 5 * • HP-UX 11.0, and 11i on PA-RISC systems • Red Hat Enterprise Linux 4, and 5 • Solaris 8 *, 9 *, and 10 • SUSE Linux Enterprise Server 9, and 10
WebLogic SSH sensor	Oracle WebLogic Server: • 7 • 8.1 • 9 • 10.0 • 10.1 • 10.3 • 11	• AIX 5 *, 6.1, and 7.1 • HP-UX 11.0 and 11i on PA-RISC systems • Red Hat Enterprise Linux 4, 5, and 6 • Solaris 8 *, 9 *, and 10 • SUSE Linux Enterprise Server 9, and 10 • Windows Server 2003 *, and Server 2008
	Oracle WebLogic Server 12	Red Hat Enterprise Linux 5, 6, and 7.x

Database sensors

This matrix lists the database sensors and the supported versions of target systems that they can discover.

Table 2. Database sensors and supported target systems

This sensor:	Discovers this software:	Running on these operating systems:
IBM DB2 sensor	IBM DB2 Database: • 7 • 8 • 9.1 • 9.5 • 9.7	• AIX 5 *, 6.1, and 7.1 • HP-UX 11i v2 (B.11.23) • Red Hat Enterprise Linux 4, 5, and 6 • Solaris 8 *, 9 *, and 10 • SUSE Linux Enterprise Server 9, and 10 • Windows Server 2003 * • Windows Server 2008 (through Release 2)
	IBM DB2 Database 10.1	• Red Hat Enterprise Linux • Windows Server 2003 * • AIX
	IBM DB2 Database 10.5	• Red Hat Enterprise Linux • AIX • Windows
	IBM DB2 Database 11.1	• Red Hat Enterprise Linux • AIX • Windows
	Fix Pack 8 IBM DB2 Database 11.5	Fix Pack 8 • Red Hat Enterprise Linux • AIX • Windows
IBM Informix sensor	IBM Informix Dynamic Server 10	Red Hat Enterprise Linux 4
	• IBM Informix Dynamic Server 11 • IBM Informix Java Database Connectivity (JDBC) Driver Version 3.50	• AIX 7.1 • Red Hat Enterprise Linux 4 and 5
	IBM Informix Dynamic Server 12	• AIX 6.1 • Red Hat Enterprise Linux 6
Microsoft SQL Server sensor	Microsoft SQL Server: • 2005 • 2008 (through Release 2)	• Windows Server 2003 * • Windows Server 2008 (through Release 2)
	Microsoft SQL Server 2012	Windows Server 2008 SP2, Server 2008 R2 SP1, and Server 2012
	Fix Pack 3 Microsoft SQL Server 2014	Windows Server 2012

Table 2. Database sensors and supported target systems (continued)		
This sensor:	**Discovers this software:**	**Running on these operating systems:**
Oracle sensor	Oracle Database: • 8i • 9i • 10g • 11g **Note:** If Oracle Real Application Clusters (RAC) and Oracle Automatic Storage Management (ASM) are installed, the sensor discovers Oracle database instances and RAC and ASM instances.	• AIX 5 *, 6.1, and 7.1 • HP-UX 11.0, 11i v1(B.11.11), 11i v2 (B.11.23), and 11i v3 (B.11.31) • OpenVMS for FDA • Red Hat Enterprise Linux 4, 5, and 6 • Solaris 8 *, 9 *, and 10 • SUSE Linux Enterprise Server 9, and 10 • Windows Server 2003 * • Windows Server 2008 (through Release 2)
	Oracle Database 12c	• AIX 6.1, and 7.1 • Red Hat Enterprise Linux 6
	Fix Pack 8 Oracle Database 18c and 19c	Fix Pack 8 • AIX 7.2 • Red Hat Enterprise Linux 7 • Windows Server 2016 **Note:** Oracle Database 18C and 19C RAC are not supported on AIX platform
Sybase sensor	Sybase Adaptive Server Enterprise 12 **Note:** This version is supported only in TADDM 7.3.0, and 7.3.0.1.	• Solaris 8 *, 9 *, and 10
	Sybase Adaptive Server Enterprise 15	• AIX 5.3 *, 6.1, and 7.1 • Red Hat Enterprise Linux 5, 6, and 7 • SUSE Linux Enterprise Server • Solaris 10
	Sybase Adaptive Server Enterprise 16	• Fix Pack 2 Red Hat Enterprise Linux 6 • Windows Server 2008 R2
Sybase IQ sensor	Sybase IQ 12.5	Solaris 8 *, 9 *, and 10

Generic sensors

This matrix lists the generic sensors and the supported versions of target systems that they can discover.

Table 3. Generic sensors and supported target systems		
This sensor:	**Discovers this software:**	**Running on these operating systems:**
Anchor sensor	This sensor is used for discovery behind a firewall.	Operating system requirements for anchor servers are the same as operating system requirements for TADDM servers. See the TADDM *Installation Guide* for information about the TADDM server software and hardware requirements.
	Fix Pack 1 This sensor is also used for discovery of Remotely Anywhere 11.3.	Windows Server 2012
Asynchronous discovery sensor	This sensor is required for asynchronous discovery. IP addresses that are unreachable (cannot be pinged) are candidates for asynchronous discovery. The asynchronous discovery sensor attempts to determine which of the unreachable IP addresses are valid.	Not applicable

Table 3. Generic sensors and supported target systems (continued)

This sensor:	Discovers this software:	Running on these operating systems:
Asynchronous discovery ping sensor	This sensor retrieves the first valid IP address from a discovery archive file. This IP address is used to seed the asynchronous discovery sensor.	Not applicable
Custom application server sensor	This sensor creates a custom application server that is based on template and runtime process information that is discovered by the generic server sensor.	Not applicable
Custom MIB2 computer system sensor	This sensor creates a custom computer system that is based on template information.	Not applicable
Custom template sensor	This sensor can be used with custom scripts to analyze and enhance the information that is collected by other sensors.	Not applicable
Generic computer system sensor	This sensor discovers the type of a computer system. The results of this sensor are used to start a specific computer system sensor, such as the Linux computer system sensor.	Not applicable
Generic server sensor	This sensor discovers the application servers that are running on a host computer system.	Not applicable
IBM Tivoli Utilization sensor	This sensor gathers basic metrics from a target system. The sensor supports the following TADDM databases: • IBM DB2 8.2 Fix Pack 10 or later • IBM DB2 9.1 Fix Pack 2 or later • Oracle 9i and 10g	The sensor supports a TADDM server that runs any of the following operating systems: • AIX • Linux (including on System z®) • Solaris • Windows The sensor supports the gathering of data from target systems that run the following operating systems: • AIX • HP-UX • Linux • Solaris • Windows Server 2003 *
IP device sensor	This sensor creates a lightweight computer system that represents an IP device on the network.	Not applicable
IP interface sensor	This sensor discovers IP interfaces.	Not applicable
Ping sensor	This sensor discovers reachable IP addresses. It gathers information from devices and systems that support TCP/IP.	Not applicable
Port sensor	This sensor discovers open ports on a host system.	Not applicable
Session sensor	This sensor creates a session between the TADDM server and the target computer system.	Not applicable

Table 3. Generic sensors and supported target systems (continued)		
This sensor:	**Discovers this software:**	**Running on these operating systems:**
Solaris zones generic sensor	The sensor discovers applications running on Solaris local zone systems, but it starts by discovering the following versions of the Solaris Global Zone operating system: • Solaris 5.10 Generic_127111-10 • Solaris 5.10 Generic_127111-03 • Solaris 5.10 Generic • Fix Pack 2 Solaris 5.11 Generic On local zones, it discovers the following operating systems: • Solaris 5.8 Generic 117350-49 * • Solaris 5.10 Generic • Fix Pack 2 Solaris 5.11 Generic	Not applicable
Stack Scan sensor	This sensor provides credential-less discovery (less intrusive discovery) of the installed operating system and open ports on a computer system.	
WPAR generic sensor	This sensor discovers applications that run on WPAR systems.	Not applicable
zEnterprise sensor	zEnterprise hardware	ECC version 1.1.0

Network sensors

This matrix lists the network sensors and the supported versions of target systems that they can discover.

Note about SNMP discovery: Because all systems that implement SNMP V2 also use SNMP V1. TADDM uses SNMP V1 to discover both SNMP V1 and V2 systems.

Table 4. Network sensors and supported target systems		
This sensor:	**Discovers this software:**	**Running on these operating systems:**
Alteon port sensor	Alteon devices	Not applicable
Alteon SNMP sensor	Alteon load balancer devices	Not applicable
Alteon VLAN sensor	Alteon devices	Not applicable
BIG-IP port sensor	F5 BIG-IP: • 4 • 9 • 10 • 11	Not applicable
BIG-IP SNMP sensor	F5 BIG-IP: • 4 • 9 • 10 • 11	Not applicable
BIG-IP VLAN sensor	F5 BIG-IP: • 4 • 9 • 10 • 11	Not applicable
Bridge SNMP sensor	Supports the discovery of SNMP 1, 2, and 3 systems	Not applicable

Table 4. Network sensors and supported target systems (continued)		
This sensor:	**Discovers this software:**	**Running on these operating systems:**
Bridge SNMP 2 sensor	Supports the discovery of SNMP 1, 2, and 3 systems	Not applicable
Check Point sensor	Check Point FireWall-1(R) NGX (R65), Build 430	• Check Point IPSO • Solaris 10
Check Point SNMP sensor	SNMP information that is associated with Check Point FireWall-1 firewalls	Not applicable
Cisco Adaptive Security Appliance sensor	Cisco Adaptive Security Appliance (ASA) firewall: • 5510 • 5520 • 5540 • 5550 • 5580	Not applicable
Cisco Discovery Protocol sensor	Cisco devices	Not applicable
Cisco IOS sensor	• Cisco IOS version 10.3 • Cisco NX-OS **Note:** The protocols used are the SSH1 protocol, SSH2 protocol or Telnet protocol.	Not applicable
Cisco port sensor	Cisco devices	Not applicable
Fix Pack 2 **Cisco UCS SNMP sensor**	Cisco NX-OS version 5.2(3)	Not applicable
Cisco VLAN sensor	Cisco devices	Not applicable
CiscoWorks sensor	• CiscoWorks LMS 4.0 • Cisco Prime LMS 4.1 • Cisco Prime LMS 4.2	Not applicable
Entity MIB sensor	Supports the discovery of SNMP 1, 2, and 3 systems	Not applicable
Extreme VLAN sensor	Extreme Networks switches	Not applicable
IBM BladeCenter SNMP sensor	IBM BladeCenter: • E (8677) • H (8852)	Not applicable
	Fix Pack 3 IBM Flex System® Enterprise Chassis 8721 A1G	Not applicable
LAN Manager SNMP sensor	LAN Manager 2.2 or earlier	Not applicable
LDAP sensor	LDAP 2 and 3 **Note:** The sensor support is based on Java support for these versions in the Java Naming and Directory Interface (JNDI).	Not applicable
Link Layer Discovery Protocol sensor	SNMP 1 system	Not applicable
NetScreen SNMP sensor	Juniper Networks NetScreen firewall devices	Not applicable
Nokia SNMP sensor	Nokia firewall devices	Not applicable
PIX sensor	• CiscoPIX 7.2 • CiscoPIX 8.0	Not applicable

Table 4. Network sensors and supported target systems (continued)		
This sensor:	**Discovers this software:**	**Running on these operating systems:**
SNMP Light sensor SNMP MIB2 sensor	Supports the discovery of SNMP 1, 2, and 3 systems	Although these sensors are used to discover non-operating system-based network devices, they can also discover the following operating systems if the session sensor fails and valid SNMP credentials have been entered: • AIX • HP-UX • Linux • OpenVMS • Solaris • Windows

Operating system sensors

This matrix lists the operating system sensors and the supported versions of target systems that they can discover.

Limitation: If the United States Government Configuration Baseline (USGCB) is enabled for an operating system, the sensor cannot discover that operating system.

Table 5. Operating system sensors and supported target systems	
This sensor:	**Discovers this software:**
Citrix XenServer sensor	XenServer 6.2
DataPower® sensor	IBM WebSphere DataPower SOA Appliances: • XI50 • XI52 • XS40
FreeBSD computer system sensor	FreeBSD: • 7.3 • 8.1 • 9.2 • 9.3 • Fix Pack 3 10.2 • Fix Pack 8 12.1
HP BladeSystem SNMP sensor	Onboard Administrator firmware: • 3.60 • 3.70 • 4.21
HP NonStop computer system sensor	J06.13.00

Table 5. Operating system sensors and supported target systems (continued)	
This sensor:	**Discovers this software:**
HP-UX computer system sensor	• PA-RISC systems: – HP-UX 11.0 – HP-UX 11i v1 (B.11.11) – HP-UX 11i v2 (B.11.23) – HP-UX 11i v3 (11.31) • Itanium systems: – HP-UX 11i v2 (B.11.23) – HP-UX 11i v3 (11.31) **Note:** HP-UX support is available only for non-partitioned and non-virtualized systems. If you are using virtual systems such as Superdome, unexpected merging can occur.
IBM AIX computer system sensor	IBM AIX: • 5 * • 6.1 • 7.1 • 7.2
IBM Hardware Management Console sensor	IBM Hardware Management Console (HMC): • 5.2 • 6.1 • 7.1 • 7.3 • 7.6 • 8
IBM Integrated Virtualization Manager sensor	IBM Integrated Virtualization Manager (IVM): • 1.2 • 1.3 • 1.4 • 1.5 • 2.2
IBM i computer system sensor	IBM i: • 5.3 • 5.4 • 6.1 • 7.1 • Fix Pack 4 7.2 • Fix Pack 4 7.3
IPSO computer system sensor	Nokia firewall devices running the IPSO operating system

Table 5. Operating system sensors and supported target systems (continued)	
This sensor:	**Discovers this software:**
Linux computer system sensor	Linux: • CentOS Linux 5 • CentOS Linux 6 • CentOS Linux 7 • Red Hat Enterprise Linux 4 • Red Hat Enterprise Linux 5 • Red Hat Enterprise Linux 6 • Red Hat Enterprise Linux 7 – Fix Pack 2 Little Endian on Power® – Fix Pack 2 Big Endian on Power • Fix Pack 8 Red Hat Enterprise Linux 8 – x86-64 • SUSE Linux Enterprise Server 9 • SUSE Linux Enterprise Server 10 • SUSE Linux Enterprise Server 11 • SUSE Linux Enterprise Server 12 • Fix Pack 7 SUSE Linux Enterprise Server 15 • Fix Pack 2 Ubuntu 14 – x86-64 – Little Endian on Power
OpenVMS computer system sensor	OpenVMS: • 7 • 8.3 • 8.4
Solaris computer system sensor	Solaris: • 8 * • 9 * • 10 • 11
Sun Fire SysControl (SC) sensor	System Management Services (SMS) 1.5 or later on the Sun Fire system controller running Solaris 9 *, or 10
Fix Pack 2 **Sun Sparc Virtualization sensor**	Solaris: • 10 • 11
Tru64 computer system sensor	Tru64 UNIX 5.1
VMware ESX computer system sensor	VMware ESX: • 2.5 • 3.0 • 3.5 • 4.0 • 4.1

Table 5. Operating system sensors and supported target systems (continued)	
This sensor:	**Discovers this software:**
VMware ESXi computer system sensor	VMware ESX: • 3.5 • 4.0 • 4.1
	VMware ESXi: • 3.5 • 4.0 • 4.1 • 5.0 • 5.1 • 5.5 • 6.0
Windows computer system sensor	Microsoft Windows: • NT 4.0 (using SNMP) • Server 2003 Service Pack 1 (with hotfix 913538) * • Server 2003 Service Pack 2 * • Server 2003 R2 (64-bit edition) * • Server 2008 • Server 2008 Service Pack 2 (64-bit edition) • Server 2008 R2 Enterprise (64-bit edition) • Server 2012 • Server 2012 R2 • Server 2016 Standard Edition • Server 2016 Datacentre Edition • Fix Pack 6 Server 2019 Standard Edition • Vista Business (32-bit edition) • Vista Enterprise (32-bit edition) • Vista Ultimate (32-bit edition) • XP Service Pack 2 and later (32-bit edition) * • Windows 7 and 8

Storage sensors

This matrix lists the storage sensors and the supported versions of target systems that they can discover.

Table 6. Storage sensors and supported target systems		
This sensor:	**Discovers this software:**	**Running on these operating systems:**
EMC Storage Scope sensor	EMC Storage Scope server: • 6.0 • 6.1	• Windows
Fibre Channel switch sensor	Fibre Channel (FC) switches and information about FC ports: • Brocade switches: AP7420, DCX, 200E, 2000, 3000, 3250, 3850, 3900, 4100, 5000, 12000, 24000, and 48000 • Cisco switches: 9000	Not applicable
Host resources sensor	SNMP 1, 2, and 3	Not applicable

Table 6. Storage sensors and supported target systems (continued)

This sensor:	Discovers this software:	Running on these operating systems:
Host storage sensor	Storage that is attached to a host computer system	• AIX • HP-UX • Linux • Solaris • Windows **Note for Windows operating systems:** The host bus adapter (HBA) API library of the vendor must be installed and configured correctly on the host system. **Note:** The sensor uses the HBA API library, which is dependent on the installed HBA for discovery. However, because a system that runs in a virtual machine (such as a VM Guest or an LPAR) probably does not have direct access to the HBA, a system that runs in a virtual machine is not supported. **Note:** HP-UX PA-RISC and Itanium (rx2620) architecture reached End of Life a few years ago and the sensor is provided as-is going forward.
IBM Tivoli® Storage Productivity Center sensor	Tivoli Storage Productivity Center: • 3.3 or later • 4.1 • 4.2 • 5.1.1 • 5.2.1.0 • 5.2.4	• AIX • Linux • Windows
	Fix Pack 4 IBM Spectrum Control 5.2.14	• AIX • Linux • Windows
NetApp sensor	NetApp Release 8.1.4	Not applicable.
Snap Drive sensor	SnapDrive: • 6.4.1 • 7.0.2	Windows Server 2008, and Server 2012
Storage sensor	Storage that is attached to a computer system	• AIX • HP-UX • Linux • OpenVMS • Solaris
Fix Pack 1 SVC storage sensor	Fix Pack 6 **SVC 7.7 to 8.1**	Not applicable.
	Fix Pack 4 **SVC 7.6**	Not applicable.
	Fix Pack 2 **IBM Storwize V7000 (code_level 7.2.0.1)**	Not applicable.
Veritas Storage Foundation sensor	Veritas Storage Foundation: • HA 4.0 • HA 5.0 • 4.1 • 4.3	• AIX 5L 5.3 * • HP-UX 11.0, and 11i v1 (B.11.11) • Red Hat Enterprise Linux 4 • Solaris 8 *, 9 *, and 10 • SUSE Linux Enterprise Server 9, and 10 • Windows Server 2003 Service Pack 1 *

Table 6. Storage sensors and supported target systems (continued)		
This sensor:	**Discovers this software:**	**Running on these operating systems:**
Fix Pack 1 XIV® storage sensor	XIV 11.4.2	Not applicable.