

FLEXera

System Requirements and Compatibility

FlexNet Manager Suite 2021 R1.1



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Introduction

FlexNet Manager Suite provides software asset, hardware asset, and contract management for enterprises across more than 17,500 publishers and 300,000 applications. It reports detailed information for installed software, application usage, purchases, and reconciles these to provide a license position.

It inventories virtual environments and Oracle databases, imports inventory from Microsoft System Center Configuration Manager (SCCM) and other inventory tools through configurable adapters, and seamlessly integrates with Enterprise Resource Planning (ERP), Human Resources (HR), Active Directory (AD), and Purchase Order (PO) systems. With its built-in library of more than 1,380,000 Stock Keeping Unit numbers (SKUs), for automated reconciliation of purchases with inventory, and support for the latest license models, FlexNet Manager Suite is used by enterprises to gain control of their software estate and optimize their software spend.

This document contains information about FlexNet Manager Suite, covering:

- FlexNet Manager for Clients
- FlexNet Manager for Datacenters
- FlexNet Manager for SAP Applications
- Service Life Data Pack.

Published System Requirements information is available in English, French, German, Japanese, and Spanish.

Hardware Requirements

The tables below describe the hardware requirements for your inventory beacons, and for target inventory devices where you will deploy FlexNet inventory agent.

FlexNet Beacon

Category	Requirement
Processors	2 cores
Memory	4 GB minimum, 8 GB or higher recommended
Minimum free disk space	1 GB per 10,000 devices


FlexNet inventory agent

Category	Requirement
Processors	1 core
Memory	512 MB minimum, 2 GB or higher recommended
Minimum free disk space	25 MB installation + 100 MB workspace

Prerequisite Software

The table below describes the supported operating systems and software prerequisites of FlexNet Manager Suite 2021 R1.1 at the time of release. Unless otherwise noted, support for a release includes support for all official service packs issued against the same release.

Component	Operating System	Prerequisite Software
Web Browser	<p>The following are the minimum versions of popular web browsers that are currently supported:</p> <ul style="list-style-type: none"> • Microsoft Internet Explorer 11 • Microsoft Edge for Windows 84 • Google Chrome 80 • Mozilla Firefox 79 • Apple Safari 13. <p>Some Flexera Analytics menu options are not available in the Chrome browser.</p> <p>Support for future web browser releases cannot be verified, however there are no anticipated issues for future releases.</p>	<p>Flexera Analytics is not compatible with Microsoft Edge.</p> <p>A minimum screen resolution of 1024 horizontal pixels is required.</p>

Component	Operating System	Prerequisite Software
FlexNet inventory agent	<ul style="list-style-type: none"> Windows Server 2003 SP1 and SP2, 2008 R2 x64, 2012, 2012 R2, 2012 R2 SP1, 2016, 2019 Windows Server Core 2008, 2008 R2 x64, 2012, 2012 R2 Windows Server Standard (previously known as Windows Server Core) 2016, 2019 Windows Vista x64, 7 x64, 8 x64, 10 x64 Windows Vista, 7, 8, 10. AIX 7.1 LPARs, 7.2 Amazon Linux 2 CentOS (x86, 32-bit and 64-bit): 6-7.5; (x86 64-bit only): 7.6-7.9 (lower versions); 8.0-8.4 (higher versions) Debian Linux 7–10.9 (x86 32-bit and 64-bit) 	No prerequisites.
	<p> Note: For Debian Linux 9.4, 9.5 and 10 (both 32-bit and 64-bit), minimal installations of the OS core omit the <code>ifconfig</code> command. This prevents collection of the IP address and MAC address in inventory. The <code>root</code> user can use the following command to restore this functionality:</p> <pre>apt-get install net-tools -y</pre>	
	<ul style="list-style-type: none"> Fedora Linux 25-30 (x86, 32-bit and 64-bit); 27-34 (x86 64-bit only) HP-UX 11i v3, vPars/nPars macOS 10.6–11 	

Component	Operating System	Prerequisite Software
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Note: To run on an Apple M1 processor ("Apple silicon"), the FlexNet inventory agent requires that Rosetta 2 is installed and running. This is Apple's solution for transitioning most Intel-based applications to run on Apple silicon. There are two possible command formats for installing Rosetta 2:

- Interactive installation that asks for agreement to the Rosetta 2 license:


```
/usr/sbin/
softwareupdate
--install-rosetta
```


- Non-interactive installation:

```
/usr/sbin/
softwareupdate
--install-rosetta
--agree-to-license
```

- OpenSUSE Leap 42.2, 42.3 (x86, 32-bit and 64-bit); 15-15.3 (x86 64-bit only)
- Oracle Linux 4.5–6.10 (x86, 32-bit and 64-bit); 7.0-8.4 (x86 64-bit only)
- Photon OS 3.0-4.0
- Red Hat Enterprise Linux (RHEL) (x86, 32-bit and 64-bit) 5.0–6.10; (x86 64-bit only) 7.0-7.9 (lower versions); 8.0-8.4 (higher versions)
- Red Hat Linux 8–9 (x86 only)
- Solaris 8–11.4 (SPARC), Zones for versions 10–11
- Solaris 9–11.4 (x86), Zones for

Component	Operating System	Prerequisite Software
	<p>versions 10–11</p> <ul style="list-style-type: none"> • SuSE Linux Enterprise Server 11 (x86, 32-bit and 64-bit); 12 SP3, 12 SP4, 12 SP5, 15, 15 SP1, 15.2, 15.3 (x86 64-bit only) • Ubuntu 12–17.04 (x86, 32-bit and 64-bit); 17.10-21.04 (x86 64-bit only). 	
Flexera Kubernetes inventory agent	<ul style="list-style-type: none"> • Linux x86_64 	<p>The following implementations of Kubernetes are supported:</p> <ul style="list-style-type: none"> • Kubernetes 1.16-1.20 • Amazon EKS • Azure AKS • kind (Kubernetes in Docker) • Minikube • OKD 4.x • Red Hat OpenShift 4.x.

Component	Operating System	Prerequisite Software
FlexNet Beacon	<ul style="list-style-type: none"> Windows Server 2012, 2012 R2, 2016, 2019 Windows 8 x64, 10 x64 Windows 8, 10. 	<ul style="list-style-type: none"> .NET Framework versions 4.6.1–4.7.2 Any supported web browser. For Oracle Database inventory, Oracle OLE DB Provider (32-bit), version 10.2.0.3 or later. For connections to import data from DB2 databases, IBM OLE DB Provider (32-bit or 64-bit). Whether the driver is 32-bit or 64-bit is determined by the operating system, so that for 64-bit operating systems the 64-bit drivers are required. PowerShell 3.0+. For connection to AWS, you also require AWS Tools for PowerShell version 3.3.283.0 or later. For connection to Microsoft Azure you will require PowerShell version 5.1 or later, with Microsoft Az module version 6.1.0 and Microsoft Azure Resource Graph module version 0.11 or later highly recommended. <hr/> <p> Tip: <i>Earlier versions of the Azure module may still be used, but with reduced functionality:</i></p> <ul style="list-style-type: none"> <i>The original Microsoft Azure Resource Manager module (version 6.8.1 or later) may still be used, provided you do not want to collect Azure Hybrid Benefit data or enjoy improved performance (and notice that this is approaching end-of-life)</i> <i>The newer Microsoft Az module (version 5.2.0 or later) is required to collect the Azure Hybrid Benefit data</i> <i>The recommended pair of Microsoft Az module (version 6.1.0 or later) and Microsoft Azure Resource Graph module (version 0.11 or later) are required for adding improved performance, especially for enterprises with large implementations within Azure.</i> <ul style="list-style-type: none"> For connection to Microsoft Office 365 Online Service, the following are also required: <ul style="list-style-type: none"> 64-bit server operating system

Component	Operating System	Prerequisite Software
		<ul style="list-style-type: none"> PowerShell 5.1 or later. <hr/> <p> Note: There are additional prerequisites if you choose to use the Microsoft Office 365 (deprecated) connector, rather than the recommended Microsoft 365 connector. For those additional prerequisites, see https://docs.flexera.com/fnms/EN/InvAdapConn/index.html#adapters/Office365/concepts/M365Prereqs.html.</p> <ul style="list-style-type: none"> For connection to Tanium Asset the following are also required: <ul style="list-style-type: none"> Tanium Server version 7.3.314.3668 PowerShell version 5.1 or later running on Windows Server 2012 or later, or Windows 7 SP1 or later.
FlexNet Manager for SAP Applications - Admin Module Transport	<ul style="list-style-type: none"> SAP Basis release from 7.0 to 7.53. 	The SAP GUI matching the SAP release must be installed.
FlexNet Manager for SAP Applications - Satellite Transport	<ul style="list-style-type: none"> SAP Basis release from 4.6C to 7.53. 	No prerequisites.

Network Requirements



Note: The three IP addresses listed in the **AWS Public IP** column represent three distinct AWS Availability Zones. Dynamic is shown when a static IP address cannot be provided. Please ensure that you add the relevant domain to your safelist.



Remember: All presentation servers for FlexNet Manager Suite require the HTTPS secure protocol for access. Any attempts to use HTTP receive a 307 redirect to HTTPS. As well, the presentation servers issue the HSTS header (HTTP Strict Transport Security), consistent with security best practice. The HSTS header tells client web browsers to access the presentation server using HTTPS only.

Environment: U.S. UAT

Service	Domain	AWS Public IP
Beacon	beacon-uat.flexnetmanager.com	52.12.141.115
	beacon.uat.flexnetmanager.com	35.160.90.103
		54.245.48.248
Inventory	data-uat.flexnetmanager.com	54.71.83.177
	data.uat.flexnetmanager.com	34.214.173.38
		54.189.34.121
Presentation - Web UI	uat.flexnetmanager.com	<i>Dynamic</i>
	app.uat.flexnetmanager.com	
AGW	agw-uat.flexnetoperations.com	<i>Dynamic</i>
	flexerasoftwareuat.flexnetoperations.com	
Reporting	bi-uat.flexnetmanager.com	<i>Dynamic</i>

Environment: U.S. Production

Service	Domain	AWS Public IP
Beacon	beacon.flexnetmanager.com	44.231.99.188
		54.189.154.85
		44.233.11.105
Inventory	data.flexnetmanager.com	44.233.232.159
		54.71.210.156
		54.201.23.92
Presentation - Web UI	www.flexnetmanager.com	<i>Dynamic</i>
AGW	agw.flexnetoperations.com	<i>Dynamic</i>
	flexerasoftware.flexnetoperations.com	
Reporting	bi.flexnetmanager.com	<i>Dynamic</i>
UI	app.flexera.com	<i>Dynamic</i>
Identity and Access Management (IAM)	login.flexera.com	<i>Dynamic</i>
	secure.flexera.com	
	api.flexera.com	
	my.rightscale.com	
Flexera Analytics	embeddedanalytics.flexera.com	<i>Dynamic</i>

Service	Domain	AWS Public IP
Error logging	cdn.trackjs.com capture.trackjs.com usage.trackjs.com fault.trackjs.com	<i>Dynamic</i>
Recommended	googletagmanager.com static.hotjar.com script.hotjar.com vars.hotjar.com www.google-analytics.com cdn.heapanalytics.com heapanalytics.com	<i>Dynamic</i>

Environment: E.U. UAT

Service	Domain	AWS Public IP
Beacon	beacon-uat.flexnetmanager.eu	35.156.206.151
	beacon.uat.flexnetmanager.eu	18.196.200.206
		18.157.66.250
Inventory	data-uat.flexnetmanager.eu	3.127.204.177
	data.uat.flexnetmanager.eu	18.156.19.254
		18.196.164.70
Presentation - Web UI	uat.flexnetmanager.eu	<i>Dynamic</i>
	app.uat.flexnetmanager.eu	
AGW	agw-uat.flexnetoperations.eu	<i>Dynamic</i>
	flexerasoftwareuat.flexnetoperations.eu	
Reporting	bi-uat.flexnetmanager.eu	<i>Dynamic</i>

Environment: E.U. Production

Service	Domain	AWS Public IP
Beacon	beacon.flexnetmanager.eu	18.156.184.224
		3.123.233.63
		3.121.138.111

Service	Domain	AWS Public IP
Inventory	data.flexnetmanager.eu	3.126.23.8 18.197.197.2 3.127.78.223
Presentation - Web UI	www.flexnetmanager.eu	Dynamic
AGW	agw.flexnetoperations.eu flexerasoftware.flexnetoperations.eu	Dynamic
Reporting	bi.flexnetmanager.eu	Dynamic
UI	app.flexera.eu	Dynamic
Identity and Access Management (IAM)	login.flexera.eu secure.flexera.eu api.flexera.eu my.rightscale.com	Dynamic
Error logging	cdn.trackjs.com capture.trackjs.com usage.trackjs.com fault.trackjs.com	Dynamic
Flexera Analytics	embeddedanalytics.flexera.eu	Dynamic
Recommended	googletagmanager.com static.hotjar.com script.hotjar.com vars.hotjar.com www.google-analytics.com cdn.heapanalytics.com heapanalytics.com	Dynamic


Online Certificate Status Protocol (OCSP)

- <http://ocsp.sca1b.amazontrust.com>
- <http://crt.sca1b.amazontrust.com/sca1b.crt>

Certificate Revocation List (CRL)

- <http://crl.sca1b.amazontrust.com/sca1b.crl>

General Settings

Category	Requirement	Notes
Internet Protocol version	IPv4, IPv6 and dual-stack	Remote execution (such as remote discovery and inventory collection) requires IPv4. Communication between FlexNet Manager Suite in the cloud and the top-level inventory beacon server(s) requires IPv4. Microsoft CAL device license calculations require IPv4 for CAL evidence collection and computer inventory.
Ports	Minimally, 80 (for HTTP) or 443 (for HTTPS) to access the central application server(s).	 Note: Other optional inventory sources may require additional ports. For further details, refer to the topic <i>Ports and URLs for inventory beacons in the online help</i> .
Transport Layer Security (TLS)	1.1, 1.2	Required for communication between the inventory beacon and the application server.


Compatibility with Other Products



This section describes the compatibility of FlexNet Manager Suite 2021 R1.1 with other products at the time of release.




Integration with Other Products

FlexNet Manager Suite integrates with the following products and components. Support for third-party products is based on the original software vendors' publicly stated support dates. If an environment is no longer supported by the original software producer, Flexera will provide "as is" support, meaning troubleshooting issues, without committing to any defect fixes or enhancements. This table details the currently supported versions:

Product/Component	Versions supported for imports
App Portal (before renaming)	2013 R2–2015 R2 SP5
App Portal / App Broker (after renaming)	2016 R1–2019 R1
Flexera Normalize (Data Platform)	5.0-5.5
BMC BladeLogic Client Automation (previously Marimba)	8.2
BMC Discovery (previously ADDM)	9.0, 10.0–10.2 (ADDM), 11.0–21.05 (12.2)
Citrix Virtual Apps server (previously XenApp server)	6.0, 6.5, 7.5-7.9, 7.11–7.17 (XenApp), 7.1808–7.2009 (Citrix Virtual Apps)



Product/Component	Versions supported for imports
Citrix Virtual Desktops (previously Citrix XenDesktop)	5.6, 6.0, 6.5, 7.5-7.9, 7.11-7.17 (XenDesktop), 7.1808-7.2009 (Virtual Desktops)
CyberArk	11.7
Docker	1.13, 17.03-19.03 (64-bit Linux only)
EdgeSight for Citrix Virtual Apps (previously XenApp EdgeSight)	5.4, 7.6, 7.14-7.16 (requires a Platinum license), 7.17 (XenApp), 7.1808-7.2003 (Citrix Virtual Apps)
HP Discovery and Dependency Mapping Inventory (DDMI)	9.3
HPE Universal Discovery (HP-UD)	10.10, 10.11, 10.33-11.5, 2020.05, 20.08, 20.11, 21.05
IBM BigFix platform (previously Tivoli Endpoint Manager and IBM BigFix) on Microsoft SQL Server	8.2-10.0.2.52  Tip: Do not confuse the individual IBM BigFix products. IBM BigFix platform (or Platform, often referred to as simply "BigFix") and IBM BigFix Inventory are quite distinct. You may import inventory from IBM BigFix Platform if this is your only IBM BigFix product. However, if you also have IBM BigFix Inventory, you normally need import inventory only from IBM BigFix Inventory (see below).
IBM License Metric Tool (ILMT) or IBM BigFix Inventory on IBM DB2	<ul style="list-style-type: none"> • IBM BigFix Inventory on IBM DB2: <ul style="list-style-type: none"> ◦ Was previously known as IBM Software Usage Analysis (SUA), and SUA is supported (on IBM DB2) for versions 9.0, 9.1 ◦ Rebranded from version 9.2.1, IBM BigFix Inventory on IBM DB2 is supported for versions 9.2.5-9.2.23 • IBM License Metric Tool (ILMT) on IBM DB2 is supported for versions 9.2.5-9.2.23.
IBM License Metric Tool (ILMT) or IBM BigFix Inventory on Microsoft SQL Server	<ul style="list-style-type: none"> • IBM BigFix Inventory on Microsoft SQL Server: 9.2.5-9.2.23, 10.0.0 • IBM License Metric Tool (ILMT) on Microsoft SQL Server: 9.2.5-9.2.23, 10.0.0
IBM Passport Advantage	as of November 2014

Product/Component	Versions supported for imports
Linux KVM	<p>Supported on:</p> <ul style="list-style-type: none"> CentOS 6+ (x86 64-bit only) Oracle Linux 4.5–6.10 (x86, 32-bit and 64-bit); 7.0-8.4 (x86 64-bit only) Red Hat Enterprise Linux (RHEL) 5.1–5.3 (x86, 32-bit and 64-bit), 5.4+ (x86 64-bit only) SuSE Linux Enterprise Server 11 (x86, 32-bit and 64-bit); 12 SP3, 12 SP4, 12 SP5, 15, 15 SP1, 15.2, 15.3 (x86 64-bit only) <hr/> <p> Note: <i>Linux KVM requires FlexNet Beacon 2019 R2 (14.0) or later.</i></p>
Microsoft App-V Integration Server	4.6, 5.0, 5.1.85–5.1.134
Microsoft Exchange ActiveSync	2010-2013
Microsoft Hyper-V	<p>Running on:</p> <ul style="list-style-type: none"> Windows Server 2008 x64 Windows Server 2008 x64 Server Core Windows Server 2008 R2 x64 Windows Server 2008 R2 x64 Server Core Windows Server 2012 Windows Server 2012 R2 Windows Server 2016 Windows Server 2019.
Microsoft SCCM (previously SMS)	2007, 2012, 2012 R2, 1511-1906, 1910, 2002, 2006, 2010, 2103
Oracle Database	<p>8i, 9i, 10g, 11g, 11g Release 2, 12c, 18c, 19c</p> <hr/> <p> Note:</p> <ul style="list-style-type: none"> <i>8i — requires a direct inventory beacon connection</i> <i>9i — requires a named account on Windows or a direct inventory beacon connection</i> <i>12c — the Oracle Multitenant option is not supported using a local agent.</i>
Oracle Enterprise Manager	12.1–13.5

Product/Component	Versions supported for imports
Oracle VM Server for x86	3.2–3.4.6.3
ServiceNow	<ul style="list-style-type: none"> • Kingston • London • Madrid • New York • Orlando.
	 Note: ServiceNow has <i>deprecated older versions of Transport Layer Security (TLS)</i> . Requires version 1.2.
Symantec IT Management Suite (formerly Altiris)	6.5, 7.1, 7.5, 8.5
Tanium Asset	1.8.0.0075 - 1.14.73
	 Note: Requires the Tanium adapter shipped with FlexNet Manager Suite 2020 R1.1 or later
Tanium Server	7.3.314.3668
VMware vSphere/vCenter/ESXi	5.0–6.7 u3b, 7
	 Note: Remote inventory is not possible on the free license versions of ESXi.
Workflow Manager	2014–2016

Inventory Components

The following table lists the versions of the FlexNet Beacon and FlexNet inventory agent that can be managed by FlexNet Manager Suite 2021 R1.1.

Component	Compatible versions
FlexNet inventory agent (Windows)	8.5–9.2, 2014–2021 R1.1
FlexNet inventory agent (Linux)	
FlexNet inventory agent (Solaris)	 Note: <i>Earlier versions are compatible in that they receive default policy and collect inventory on schedule. They cannot support more recent agent functionality, such as:</i>
FlexNet inventory agent (Mac OS X)	
FlexNet inventory agent (AIX)	
FlexNet inventory agent (HP-UX)	<ul style="list-style-type: none"> • <i>Internet Protocol version 6 (IPv6)</i> • <i>Control of usage tracking through UI settings (rather than .ini files and registry controls), from 2014 (R1)</i> • <i>Settings targeted by IP addresses, from 2014 (R1)</i> • <i>CAL inventory, from 2016 R1.</i>
Citrix XenApp server agent	2014 R3–2021 R1.1
FlexNet Beacon	2017 R2–2021 R1.1
	 Tip: <i>Older inventory beacons continue to function with this release, but Flexera strongly recommends that you update to at least the range shown.</i>
	<ul style="list-style-type: none"> • <i>AWS EC2 connector requires FlexNet Beacon 2018 R2 (13.1.0) or later</i> • <i>Citrix XenApp inventory requires FlexNet Beacon 2014 R2 or later</i> • <i>Linux KVM requires FlexNet Beacon 2019 R2 (14.0) or later</i> • <i>Tanium Connector requires FlexNet Beacon 2019 R2 (14.0) or later</i>

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Documentation

Documentation for FlexNet Manager Suite 2021 R1.1 is provided as online help. From the web user interface, click the question mark icon to launch the help. Additional documents are available from the title page of the online help. Note that both the online help and additional documents are customized for their different contexts, so that appropriate differences exist between the on-premises and cloud versions of all documentation. You can also access the online help and additional documents through <https://docs.flexera.com/>.

Documentation Component	Language
Online help	English
	German
	French — for FlexNet Manager for SAP Applications functionality.
Additional PDF documents	English
	German — for FlexNet Manager for SAP Applications user and installation guides.
SLO Practice Guide	English
	French
	Available in the Flexera Learning Center: https://learn.flexera.com/ .

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More Information

Item	Description
Flexera Community	The Community includes the Flexera Knowledge Base, FlexNet Manager Blog as well as providing product downloads. https://community.flexera.com
Product Documentation	The latest release of FlexNet Manager Suite documentation is available from the Flexera documentation website. https://docs.flexera.com
Flexera System Status Dashboard	Displays the current availability information for Flexera's cloud products. https://status.flexera.com
Flexera website	Information about Flexera. https://www.flexera.com https://www.reverera.com - for Software and IoT companies
Flexera Learning Center	Location for courses and best practice guides for FlexNet Manager Suite (and other Flexera products). <i>Requires a login for the Flexera Community.</i> https://learn.flexera.com/

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