

Universal CMDB

Software Version: 10.33

Support Matrix

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Document Changes

Publication Date	Summary of Changes
10.33 (2nd Edition, August 2017)	Added supportability certification for high availability mode (AlwaysOn) of Microsoft SQL Server version 2016 SP1
10.33 (3rd Edition, August 2017)	 Added support for Microsoft Azure for UCMDB server (with the standalone version of Microsoft SQL Server installed on Azure virtual machines) Added supported upgrade paths for Configuration Manager version 10.23 in "Supported Upgrade Paths"
10.33 (4th Edition, February 2018)	 Added clarification about recommended Operating System, Virtualization products, and Web browsers. Added clarification that data flow probes installed on Linux platform are for integration purpose only.
10.33 (5th Edition, May 2018)	Added clarification that Windows Server 2008 R2 SP1 is supported for UCMDB server
10.33 (6th Edition, May 2018)	 Added clarification that Oracle version 12c R2(Standard/Enterprise Editions) is supported for UCMDB server and UCMDB Integration Service Added support for Oracle version 12c R2 RAC (Enterprise Edition) is supported for UCMDB server and UCMDB Integration Service

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Requirements

This section provides information about the supported hardware and software that you must have to successfully install and run Universal CMDB 10.33.

Supported Upgrade Paths

The table below describes supported upgrade paths for the CMS products:

Supported Upgrade Paths

	CMS product supporting upgrades					
Supported Upgrade Paths	UCMDB 10.33	Data Flow Probe 10.33	Configuration Manager 10.23 ^[1]	UCMDB Browser 4.14 ^{[2][3]}		
10.11 (with or without a CUP) \rightarrow 10.33	Yes	No	Yes ^[5]	No		
10.20 (with or without a CUP) \rightarrow 10.33	Yes	No	Yes ^[5]	No		
10.21 (with or without a CUP) \rightarrow 10.33	Yes	No	Yes ^[5]	No		
10.22 (with or without a CUP) \rightarrow 10.33	Yes	Yes ^[4]	Yes ^[5]	No		
10.2x FIPS → 10.33 FIPS	Yes	No	Yes	No		
$10.30 \rightarrow 10.33$	Yes	Yes ^[4]	Yes	No		
10.31 → 10.33	Yes	Yes ^[4]	Yes	No		
$10.32 \rightarrow 10.33$	Yes	Yes ^[4]	Yes	No		
10.3x FIPS \rightarrow 10.33 FIPS	Yes	No	Yes	No		
10.33 full installer	Yes	Yes	Yes (CM version is 10.23)	Yes (Browser version is 4.14)		

Note:

 Version 10.33 of the Configuration Management System does not include a new release for UCMDB Configuration Manager (CM). Version 10.23 of CM is released one month after UCMDB version 10.33. You can use CM 10.23 in tandem with UCMDB 10.33.

For documentation about Configuration Manager, see Universal CMDB Configuration Manager User Guide of version 10.23.

- UCMDB Browser does not support upgrades. You need to deploy the HPE-Browser-<version_ number>.<build_number>-all-in-one-standalone.zip package for UCMDB Browser version 4.14 in order to perform a fresh deployment.
- 3. (Embedded UCMDB Browser only) UCMDB 10.33 requires version 4.14 of the embedded UCMDB Browser. It does not support embedded UCMDB Browser version 4.13 (or earlier). If you are using UCMDB Browser version 4.13 (or earlier), make sure you move the UCMDB Browser embedded to UCMDB Browser Standalone. For more details, see "Micro Focus Software Coexistence" in the Universal CMDB Support Matrix.
- Automatic upgrade of Data Flow Probe to version 10.33 is supported on Windows platform only. For details, see "Data Flow Probe Auto Upgrade" in the Universal CMDB Data Flow Management Guide.

Note that automatic upgrade of Data Flow Probe to version 10.33 is not applicable to the following:

- FIPS mode probes
- Separate mode probes
- Probes on Linux machine
- Integration service
- Two probes installed on a same Windows machine
- If you have any version of Configuration Manager earlier than 10.01 installed, you must upgrade to version 10.01, then to 10.10, then to 10.20, then to 10.22, and then apply 10.22 CUP6 (or a later CUP) before upgrading to version 10.23. For details on upgrading Configuration Manager to version 10.01 and later, see the interactive *Universal CMDB Deployment Guide* for version 10.01 and later, available from the Micro Focus Software Support site (https://softwaresupport.softwaregrp.com).
- 6. Downgrade of any of the above products is not supported.

Hardware

Universal CMDB 10.33 is supported on the following hardware:

Component	Requirement				
Computer/processor	Windows/Linux:	Windows/Linux:			
	To fulfill the CPU rec	quirements, you mi	ust have one	of the following:	
	Intel Dual Core X	Keon Processor 2.4	GHz or late	r	
	AMD Opteron Du	ual Core Processor	2.4 GHz or	later	
	Recommended: Th recommended.	e latest generation	of Intel/AMI	D processors are	
	In addition to the abo number of CPU Core				
	CPU Cores:				
	Deployment	Minimum	Recomm	ended	
	Small	1 Core	4 Cores		
	Standard	4 Cores	8 Cores		
	Enterprise	8 Cores	24 Cores		
Memory	processor speed, t performance, it is possible processo	recommended that	you use the		
	Deployment	Minimum Recommended			
	Small	4 GB RAM		8 GB RAM	
	Standard	8 GB RAM		16 GB RAM	
	Enterprise	16 GB RAM	16 GB RAM		
Memory Swap File	Windows: The virtual memory for Windows should be at least 1.5 times the size of the physical memory.				
	Linux: The Linux swap file size should be equal in size to the physical memory.				
Free hard disk space	• Small/Standard/Enterprise: At least 120 GB (for logs, memory dumps, and so on)				
	 If the search functionality is enabled, more hard disk space is required. 				
			, 11010 11010	uisk space is	

Component	Requirement			
	 14M CIs + relationships: 30G or more space would be needed for SOLR index files 			
	 20M CIs + relationships: Almost 50G space would be needed 			
Display	Windows: Color palette setting of at least 256 colors (recommended: 32,000 colors)			

Operating System

Universal CMDB 10.33 runs on the following operating systems:

Hardware Platform	OS Type	OS Version and Edition	Supported	Recommended
x86-64	Windows Server 2016	Datacenter and Standard, 64-bit (without the Nano Server installation option)	Yes	Yes
x86-64	Windows Server 2012 R2	Datacenter and Standard, 64-bit	Yes	
x86-64	Windows Server 2012	Datacenter and Standard, 64-bit	Yes	
x86-64	Windows Server 2008 R2	Enterprise/Standard, SP1, 64-bit	Yes	
x86-64	Red Hat Linux Server 5.10 and 5.11	Enterprise/Advanced 64-bit	Yes	
x86-64	Red Hat Enterprise Linux Server 6.4, 6.5, 6.6, 6.7, 6.8, 6.9, 7.0, 7.1, 7.2, and 7.3	64-bit	Yes	
x86-64	Oracle Enterprise Linux Server with Red Hat Compatible Kernel v6.4, v6.5, v6.6, v6.7, v6.8, v6.9, v7.0, v7.1, v7.2, and v7.3	Enterprise/Advanced 64-bit	Yes	
x86-64	Oracle Enterprise Linux Server with Unbreakable Enterprise Kernel v6.4, v6.5, v6.6, v6.7, v6.8, v6.9, v7.0, v7.1, v7.2, and v7.3	Enterprise/Advanced 64-bit	Yes	
x86-64	CentOS 7.0 and 7.1	x86-64	Yes	
x86-64	Red Hat Enterprise Linux Server 6.2, 6.3	x86-64	No	
x86-64	Oracle Enterprise Linux Server with Unbreakable Enterprise Kernel v6.3,	Enterprise/Advanced 64-bit	No	

Hardware Platform	OS Type	OS Version and Edition	Supported	Recommended
x86-64	Oracle Enterprise Linux Server with Red Hat Compatible Kernel v6.3,	Enterprise/Advanced 64-bit	No	
x86-64	Windows Server 2003		No	
x86-64	Windows Server 2008	Any edition, with or without service pack	No	
Any	SUSE Linux Server 9, 10, 11	Enterprise	No	
Sun SPARC	Solaris 8, 9, or 10		No	
Any	Red Hat Linux Server 3, 4	Enterprise	No	
Itanium 64	Red Hat Linux Server 5	Enterprise/Advanced	No	
Itanium 64	Windows Server 2008	Enterprise/Standard, SP2, 64-bit	No	

- CMS 10.30 release (and later) does not include Universal CMDB Configuration Manager. For information about operating systems supported for CM 10.22, check the Universal CMDB Support Matrix document for version 10.22.
- Unsupported configurations are listed to ensure that there is no ambiguity on the scope of the Support Matrix.
- Windows Server 2003 is no longer supported as of UCMDB 10.01.
- Installation of Universal CMDB is not supported on 32-bit machines.

Databases

One of the following supported databases is required to run Universal CMDB 10.33:

- Oracle Server
- Microsoft SQL Server
- PostgreSQL Server

The table below describes hardware requirements for database server:

Deployment	CPU	Memory	Linux Swap	Windows Virtual Memory	Free Disk Space
Enterprise	24 Cores	64 GB	64 GB	96 GB	300 GB

 It is strongly recommended to host database server (Oracle, Microsoft SQL, or PostgreSQL) on a physical machine, and it should be an independent server without other applications (including the UCMDB server) running on it.

Also, if the database server machine is a virtual machine, the resource MUST be dedicated for the database server.

- Apart from the embedded PostgreSQL database server, installing UCMDB server and database server (Oracle, Microsoft SQL, or PostgreSQL) together on the same machine is not supported.
- The hardware requirements could be the same as those for UCMDB server, but the DB SPACE depends on the data scale. For example, for a data scale of 30 millions CIs, we recommend 500 GB or more space for data files and 200 GB or more space for log files.

Oracle System Requirements

The following table lists the Oracle Servers supported for working with Universal CMDB. A supported option means that Micro Focus quality assurance personnel have successfully performed basic tests on that option.

Database Version	Edition	System Type	Supported Products
Oracle 12.2 (12c R2) * (With or without the Oracle Advanced	StandardEnterpriseRAC Enterprise	64-bit	UCMDBUCMDB Integration ServiceUCMDB
Security Option enabled) Oracle 12c * (With or without the Oracle Advanced Security Option enabled)	StandardEnterprise	64-bit	 UCMDB UCMDB Integration Service Note: Oracle 12c must be installed without container database (CDB). UCMDB does not support Oracle 12c with CDB.

Database Version	Edition	System Type	Supported Products
	RAC Enterprise		• UCMDB
Oracle 11.2 (11g R2) * (With or without the Oracle Advanced Security Option enabled)	StandardEnterprise	64-bit	UCMDBConfiguration ManagerUCMDB Integration Service
	RAC Enterprise	64-bit	UCMDBConfiguration Manager

- It is strongly recommended to apply the latest critical Oracle patches per your operating system. For details, consult the Oracle documentation.
- The UCMDB server(s) should be located in the same LAN with the database servers (without a proxy and firewalls between them). Otherwise, your system's performance may be impacted.
- For information about how to configure UCMDB to support the Oracle Advanced Security Option (ASO), see the *Universal CMDB Hardening Guide*.
- * Consult the Oracle documentation for supported platforms.

Examples of Tested Deployments

The following table details the deployment environments that have been rigorously tested by Micro Focus quality assurance personnel.

Database Release Version	Edition	System Type	Operating System
Oracle 12.1.0.2.0	Enterprise	64-bit	Windows Server 2012 Standard Edition (64- bit)
Oracle 11.2.0.1.0	Enterprise	64-bit	Windows Server 2012 Datacenter Edition (64-bit)
Oracle 11.2.0.1.0	Enterprise	64-bit	Red Hat Enterprise Linux Server 6.4

Microsoft SQL System Requirements

The following table lists the Microsoft SQL Servers supported for working with Universal CMDB. A supported option means that Micro Focus quality assurance personnel have successfully performed basic tests on that option.

Database Version	Edition	System Type	Service Packs	Supported Products
Microsoft SQL Server 2016	StandardEnterprise	64-bit	SP1 (incl. high availability mode (AlwaysOn))	 UCMDB UCMDB Integration Service
Microsoft SQL Server 2014	StandardEnterprise	64-bit	SP1, SP2	UCMDB UCMDB Integration Convice
	 High availability mode (AlwaysOn) 	64-bit		Service
Microsoft SQL Server 2012	StandardEnterprise	64-bit	SP1, SP2, SP3	 UCMDB UCMDB Integration Service
Microsoft SQL Server 2012 Failover Cluster	Enterprise	64-bit	SP1	 UCMDB UCMDB Integration Service

- Only supported service packs should be installed, with latest patches.
- Consult the Microsoft documentation for supported platforms.
- The UCMDB server(s) should be located in the same LAN with the database servers (without a proxy and firewalls between them). Otherwise, your system's performance may be impacted.

Examples of Tested Deployments

The following table details the deployment environments that have been rigorously tested by Micro Focus quality assurance personnel.

Database Release Version	Edition	System Type	Service Packs	Operating System
Microsoft SQL Server 2016	Enterprise	64-bit		Windows Server 2012 R2 Datacenter Edition (64-bit)
Microsoft SQL Server 2014	Enterprise	64-bit	SP2	Windows Server 2012 Standard Edition (64-bit)

Database Release Version	Edition	System Type	Service Packs	Operating System
Microsoft SQL Server 2012	Enterprise	64-bit	SP1	Windows Server 2012 Standard Edition (64-bit)
Microsoft SQL Server 2012	Enterprise	64-bit	SP1	Windows Server 2012 Datacenter Edition (64-bit)
Microsoft SQL Server 2012	Standard	64-bit	SP1	Oracle Enterprise Linux Server 6.5
Microsoft SQL Server 2012	Standard	64-bit	SP1	Windows Server 2012 Datacenter Edition (64-bit)
Microsoft SQL Server 2012	Standard	64-bit	SP1	Windows Server 2012 Standard Edition (64-bit)
Microsoft SQL Server 2012 Cluster	Enterprise	64-bit	SP1	Windows Server 2012 Datacenter Edition (64-bit)
Microsoft SQL Server 2012 Cluster	Enterprise	64-bit	SP1	Windows Server 2012 Standard Edition (64-bit)

PostgreSQL System Requirements

The following table lists the PostgreSQL Servers supported for working with Universal CMDB. A supported option means that Micro Focus quality assurance personnel have successfully performed basic tests on that option.

Database Version	Edition	System Type	Supported Products
PostgreSQL 9.6	Enterprise	64-bit	UCMDBUCMDB Integration Service
PostgreSQL 9.5	Enterprise	64-bit	UCMDB UCMDB Integration Service
PostgreSQL 9.4.8	Embedded *	64-bit	UCMDB UCMDB Integration Service
PostgreSQL 9.4	Enterprise	64-bit	UCMDB UCMDB Integration Service
PostgreSQL 9.3	Enterprise	64-bit	• UCMDB

Database Version	Edition	System Type	Supported Products
			UCMDB Integration Service
PostgreSQL Server 9.22	Enterprise	64-bit	• UCMDB

- Only supported service packs should be installed, with latest patches
- The UCMDB server(s) should be located in the same LAN with the database servers (without a proxy and firewalls between them). Otherwise, your system's performance may be impacted.
- Embedded PostgreSQL is not supported on Enterprise deployments of UCMDB.
- * Embedded PostgreSQL is supported on Linux systems after the local PostgreSQL is uninstalled. Therefore, to be able to use embedded PostgreSQL, make sure you uninstall the local PostgreSQL that comes with the Linux installation.
- To use PostgreSQL 9.6 with UCMDB 10.32, follow the upgrade path below:
 - a. Install UCMDB version 10.30 with a supported database (for example, embedded PostgreSQL 9.4.8).
 - b. Upgrade UCMDB to version 10.32.
 - c. Reconfigure UCMDB to connect to PostgreSQL 9.6.

For detailed instructions, see "How to Reconfigure UCMDB to Use Another Schema/Database" in the *Universal CMDB Database Guide*.

Examples of Tested Deployments

The following table details the deployment environments that have been rigorously tested by Micro Focus quality assurance personnel.

Database Release Version	Deployment	System Type	Operating System
PostgreSQL Server 9.4.8	Embedded	64-bit	Windows Server 2008 R2 Enterprise Edition Service Pack 1
PostgreSQL Server 9.4	Enterprise	64-bit	Windows Server 2012 Standard Edition
PostgreSQL Server 9.22	External	64-bit	Windows Server 2012

Database Release Version	Deployment	System Type	Operating System
			Standard Edition
PostgreSQL Server 9.22	Standalone	64-bit	Red Hat Enterprise Linux Server 6.4
PostgreSQL Server 9.22	Standalone	64-bit	Red Hat Enterprise Linux Server 6.5

Application Servers

Universal CMDB 10.33 does not use an application server.

The following supported application server is required to run Universal CMDB Configuration Manager:

• Apache Tomcat, version 7.0.64

Note: The required application server is included in the Universal CMDB Configuration Manager installation.

Web Servers

The following supported web server is required to run Universal CMDB and Universal Discovery 10.33:

• Jetty, version 9.2.10

 $\label{eq:Note: The required web server is included in the Universal CMDB installation.$

Web Browsers and Plug-ins

One of the following supported web browsers is required to run Universal CMDB 10.33:

Browser	OS Version and Edition	Supported	Recommended
Windows Internet Explorer 9	Consult the Microsoft documentation	Yes	

Browser	OS Version and Edition	Supported	Recommended
	for supported platforms.		
Windows Internet Explorer 10	Consult the Microsoft documentation for supported platforms.	Yes	Yes
Windows Internet Explorer 11	Consult the Microsoft documentation for supported platforms.	Yes	Yes
Microsoft Edge	Consult the Microsoft documentation for supported platforms. JNLP is required.	Yes	Note: To launch UCMDB UI from Microsoft Edge, enable JNLP by following instructions described in "How to Launch UCMDB UI from Chrome 43+, Firefox 48+, Microsoft Edge, or Safari 10+" in the <i>Universal CMDB</i> <i>Administration Guide</i> . This is a one-time operation.
Google Chrome	Microsoft Windows JNLP is required for Chrome 43 or later.	Yes	Note: To launch UCMDB UI from Chrome 43 (or later), enable JNLP by following instructions described in "How to Launch UCMDB UI from Chrome 43+, Firefox 48+, Microsoft Edge, or Safari 10+" in the <i>Universal</i> <i>CMDB Administration</i> <i>Guide</i> . This is a one-time operation.
Firefox ESR 17 and later	Microsoft Windows JNLP is required for Firefox versions 48~51.	Yes	Firefox 31 ESR Note: To launch UCMDB UI

Browser	OS Version and Edition	Supported	Recommended
			from Firefox 48 to 51, enable JNLP by following instructions described in "How to Launch UCMDB UI from Chrome 43+, Firefox 48+, Microsoft Edge, or Safari 10+" in the Universal CMDB Administration Guide. This is a one-time operation. There is a known issue with Mozilla Firefox ESR 38.4 (JavaScript garbage collection crash with Java applet). The plug-in container for Firefox stops working and sometimes, when clicking Logout, nothing happens. In this case, use a different supported Firefox version.
Safari	 Mac OS X (for UCMDB UI and UCMDB Browser only) iPad with iOS 6 or later (for UCMDB Browser only) JNLP is required for Safari 10 or later. 	Yes	 Note: To launch UCMDB UI from Safari 10 (or later), enable JNLP by following instructions described in "How to Launch UCMDB UI from Chrome 43+, Firefox 48+, Microsoft Edge, or Safari 10+" in the Universal CMDB Administration Guide. This is a one-time operation. Only HTTP protocol is supported when

Browser	OS Version and Edition	Supported	Recommended
			launching UCMDB UI from any web browser running on Mac OS X with JNLP enabled.
Internet Explorer 6, 7, 8	Windows	No	
Firefox 10 and higher	Red Hat Enterprise Linux versions 5 and 6, 32/64-bit	No	
Firefox 3.5, 4, 5, 6, 7, 8, 9	Any	No	

The following supported plug-ins are required to run Universal CMDB 10.33:

Screen resolution	Minimal resolution: 1024x768. It is recommended that you use 1280x1024. For wide screens (for example, for 15.4" laptops) the best resolution is 1600x1050.
Java Runtime Environment (for applet viewing)	8 family Note: It is recommended to have the latest JRE version.
app.ot	To change the locally available JRE:
	 Place a new JRE deployment executable file in: C:\hp\UCMDB\UCMDBServer\deploy\ucmdb-ui\static\JRE
	2. Restart the server.
	If you are using Microsoft Internet Explorer, you can download the Oracle JRE from the Java website (http://www.java.com/download/).
	After installation, verify that the browser is using the correct Java version. To do this, open the Java Control Panel (Control Panel > Java) and then verify the following settings:
	 In the Security tab, the Enable Java content in the browser option is selected.
	 In the Java tab, click View. In both the User and System tabs of the Java Runtime Environment Settings dialog box, verify that the check box in the Enabled column for the correct product is selected.
	Note: A 32-bit version of JRE must be installed to run UCMDB on a 32-bit web browser.
Java caching	To enable Java caching on the client machine, follow these steps:

	1. Open the Java Control Panel (Control Panel > Java).
	 In the General tab, click the Settings button in the Temporary Internet Files section, and then select the Keep temporary files on my computer option.
Applet tag support	UCMDB applets support applet tag deployment only. To verify that the client machine supports applet tags, open the Java Control
	Panel. Click the Advanced tab and expand Default Java for browsers . Verify that Microsoft Internet Explorer is selected.
Adobe Flash Player (to view charts in reports)	Versions 10.x and later, up to v19
Microsoft Excel (to view exported data)	Versions 2010, 2013, and 2016
Adobe Reader (to view exported data)	Versions X and XI

Additional Requirements

Data Flow Probe Requirements

- Hardware Requirements
- Software Requirements
- Supported Databases
- Virtual Environment and Cloud Environment Requirements
- Passive Discovery Integration

Hardware Requirements

Computer/proce ssor	Recommended: The latest generation of Intel/AMD processors (Intel Xeon CPUs or compatible) and the fastest possible processor speed	
	CPU Cores:	

	Deployment	loyment Minimum Rec			Recommended			
	Small	4 Core		8 Cores				
	Standard	4 Cores		8 Co	8 Cores			
	Enterprise	8 Cores		24 C	24 Cores			
Memory		v	lindows			Linux		
	Deployment	Minimum	Recomme	nded	Minimum	Recommended		
	Small	4 GB	8 GB		4 GB	8 GB		
	Standard	8 GB	16 GB		4 GB	8 GB		
	Enterprise	12 GB	24 GB		8 GB	16 GB		
Memory swap file	Windows: The virtual mer of the physical memory. Linux: The Linux swap file	-						
Free hard disk space	Small/Standard: 100 GB files storage)	(Note : 75 o	ut of 100 G	B disk	space is r	equired for scan		
	Enterprise: 300 GB (Note: 225 out of 300 GB disk space is required for scan files storage)							
Display	Windows/Linux: Color parecommended)	alette settin	g of at least	t 256 d	colors (32,0	000 colors		

For more information about data flow probe sizing considerations, see the *Universal CMDB Sizing Guide*.

Note:

- The XML Enricher (with OOTB configuration of two threads) would use a total of 4~5 GB memory for processing scan files on the probe. If scan files are large, you need to add another 1~2 GB memory for the XML Enricher.
- The XML Enricher must be configured to match the deployment mode of the probe. For details, see How to Configure XML Enricher to Suit the Probe Deployment Mode in the *Universal CMDB Data Flow Management Guide*.

For more information about data flow probe sizing considerations, see the *Universal CMDB Sizing Guide*.

Software Requirements

Note: For Linux platforms, only integrations are supported, not discovery. For details, see How to Run Module/Job-based Discovery in the *Universal CMDB Data Flow Management Guide*.

Hardware Platform	OS Type	OS Version and Edition	Supported	Recommended
x86-64	Windows Server 2016	Datacenter and Standard, 64-bit (without the Nano Server installation option)	Yes	Yes
x86-64	Windows Server 2012 R2	Standard/Datacenter editions, 64-bit	Yes	
x86-64	Windows Server 2012	Standard/Datacenter editions, 64-bit	Yes	
x86-64	Windows Server 2008 R2	SP1, Standard/Enterprise editions, 64-bit	Yes	
x86-64	Windows Server 2008	SP2, Standard/Enterprise editions, 64-bit	Yes	
x86-64	Red Hat Linux Server 5.10 and 5.11	Enterprise/Advanced, 64-bit	Yes (for integration only)	
x86-64	Red Hat Enterprise Linux Server 6.4, 6.5, 6.6, 6.7, 6.8, 6.9, 7.0, 7.1, 7.2, and 7.3	64-bit	Yes (for integration only)	
x86-64	Oracle Enterprise Linux with Red Hat Compatible Kernel v6.4, v6.5, v6.6, v6.7, v6.8, v6.9, v7.0, v7.1, v7.2, and v7.3	Enterprise/Advanced, 64-bit	Yes (for integration only)	

Hardware Platform	OS Type	OS Version and Edition	Supported	Recommended
x86-64	Oracle Enterprise Linux with Oracle Unbreakable Enterprise Kernel v6.4, v6.5, v6.6, v6.7, v6.8, v6.9, v7.0, v7.1, v7.2, and v7.3	Enterprise/Advanced, 64-bit	Yes (for integration only)	
x86-64	CentOS 7.0 and 7.1	64-bit	Yes (for integration only)	
x86-64	Red Hat Enterprise Linux Server 6.2, 6.3	x86-64	No	
x86-64	Oracle Enterprise Linux Server with Unbreakable Enterprise Kernel v6.3,	Enterprise/Advanced 64-bit	No	
x86-64	Oracle Enterprise Linux Server with Red Hat Compatible Kernel v6.3,	Enterprise/Advanced 64-bit	No	
	Windows Server 2003	SP2 and R2 SP2, Standard/Enterprise editions, 32-bit or 64-bit	No	
	Windows 7	Professional/Enterprise	No	
	Windows 2000		No	

- Windows Server 2003 is no longer supported as of UCMDB 10.00.
- As of UCMDB 10.00, the Data Flow Probe only supports 64-bit platforms.

Supported Databases

Database	Version and Edition	Recommended	Comments
PostgreSQL	• 9.4.8, Embedded		This database comes bundled with the Probe installation

Platform	OS Version and Edition	Supported	Recommended	
Amazon Web Services (AWS)	All platforms	Yes	Yes	
Microsoft Azure	All platforms	Yes	Yes	
VMware ESXi ESXi 6.0 and 6.5	 Windows Server 2016 Datacenter and Standard, 64-bit (without the Nano Server installation option) 	Yes		
	 Windows Server 2012, 2012 R2, Standard/DataCenter, 64-bit 			
	Windows Server 2008 Standard R2 and R2 SP1 64-bit			
	 Red Hat Enterprise Linux Server 6.x, 7.x, 64-bit 			
	 Red Hat Linux Server 5.x Enterprise/Advanced, 64-bit 			
VMware ESXi ESXi 5.5	Windows Server 2016 Datacenter and Standard, 64-bit (without the Nano Server installation option)	Yes	Yes	
	 Windows Server 2012, 2012 R2, Standard/DataCenter, 64-bit 			
	Windows Server 2008 Standard R2 and R2 SP1 64-bit			
	 Red Hat Enterprise Linux Server 6.x, 7.x, 64-bit 			
	 Red Hat Linux Server 5.x Enterprise/Advanced, 64-bit 			
VMware ESXi 5.1	Windows Server 2012, 2012 R2, Standard/DataCenter, 64-bit	Yes		
	Windows Server 2008 Enterprise SP2, R2, and R2 SP1 64-bit			
	Windows Server 2008 Standard R2 and R2 SP1 64-bit			
	 Red Hat Linux 5.x Enterprise/Advanced, 64-bit 			
	• Red Hat Enterprise Linux Server 6.x, 64-bit			

Virtual Environment and Cloud Environment Requirements

Platform	OS Version and Edition	Supported	Recommended
VMware ESXi 5.0, 5.0 update 1	• Windows Server 2008 Enterprise SP2, R2, and R2 SP1 64-bit	Yes	
	Windows Server 2008 Standard R2 and R2 SP1 64-bit		
	 Red Hat Linux 5.x Enterprise/Advanced, 64-bit 		
	• Red Hat Enterprise Linux Server 6.x, 64-bit		
Microsoft Hyper-V	• Windows Server 2012 and 2012 R2, 64-bit	Yes	
Server 2012, 2012 R2	Windows Server 2008 Enterprise SP2, R2, and R2 SP1 64-bit		
	Windows Server 2008 Standard R2 and R2 SP1 64-bit		
	• Red Hat Enterprise Linux Server 6.x, 64-bit		
	 Red Hat Linux 5.x Enterprise/Advanced, 64-bit 		
Microsoft Hyper-V Server 2008 R2	• Windows Server 2008 Standard/Enterprise SP2, R2, and R2 SP1, 64-bit	Yes	
SP1	• Red Hat Enterprise Linux Server 6.x, 64-bit		
	 Red Hat Linux Server 5.x Enterprise/Advanced, 64-bit 		
Oracle VM 3.2	See Oracle VM 3.2 Release Notes	Yes	Yes
VMware ESX 4.1 or earlier	All platforms	No	
VMware ESXi 4.1 and earlier	All platforms	No	
Xen Hypervisor 3.x	All platforms	No	

Passive Discovery Integration

Micro Focus Real User Monitor (Micro Focus RUM) version 9.20 or later must be installed on a separate server, and must be running and configured to integrate with a Data Flow Probe to run passive Just-In-Time discovery.

The Micro Focus RUM Installation can be downloaded from the Micro Focus Software Support Online Portal (https://softwaresupport.softwaregrp.com/). Search for **Real User Monitor** under **Application Performance Management (BAC)**.

Universal Discovery Client Inventory Tools Software Requirements

The following table displays the software requirements for the Universal Discovery Client Inventory tools:

- SAI editor
- Viewer
- Analysis Workbench

Hardware Platform	OS Type	OS Version and Edition	Supported
x86 or x86-64	Windows Server 2008	any	Yes
x86-64	Windows Server 2008 R2	any	Yes
x86 or x86-64	Windows Server 2012	any	Yes
x86 or x86-64	Windows Server 2012 R2	any	Yes
x86 or x86-64	Windows Vista	any	Yes
x86 or x86-64	Windows 7	any	Yes
x86 or x86-64	Windows 8	any	Yes
x86 or x86-64	Windows 10	any	Yes
x86 or x86-64	Windows Server 2016	any	Yes

Note:

- It is not recommended to install the Inventory tools on the same computer that is running the Data Flow Probe due to potential file locking issues.
- When installing the Inventory Tools on a separate machine, the hardware requirements are a dual core CPU with a minimum speed of 1.5 Ghz and 4 GB of RAM

Store and Forward Server Support

The Store and Forward server is supported on the following operating systems and platforms:

Windows

Operating System	Version	Platform
Server	2008	x86-64
Server	2008 R2	
Server	2012	

Linux

Operating System	Version	Platform
Red Hat Enterprise Linux Server/Desktop	5	x86-64
Red Hat Enterprise Linux Server/Workstation	6	
Oracle Linux	4,5,6	

Compatibility

This section provides information about software and configurations that are not required, but which are compatible with Universal CMDB 10.33.

Languages

Documentation

Deliverable	Japanese	Simplified Chinese	Korean	German	French	Spanish	Russian	Italian	Brazilian Portuguese
UCMDB Online Help	Yes	No	No	No	No	No	No	No	No
Administration Guide	Yes	No	No	No	No	No	No	No	No
Configuration Manager User Guide	Yes	No	No	No	No	No	No	No	No
Data Flow Management Guide	Yes	No	No	No	No	No	No	No	No
Deployment Guide	Yes	No	No	No	No	No	No	No	No
What's New	Yes	No	No	No	No	No	No	No	No

Product User Interface

Deliverable	Japanese	Simplified Chinese	Korean	German	French	Spanish	Russian	Italian	Brazilian Portuguese
Universal CMDB	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
UCMDB Browser	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Internationalization Variances

Universal CMDB 10.33 runs on all locales described in this document. There are no known variances.

Virtualization and Cloud Products

Universal CMDB and Universal Discovery 10.33 can be used with the following virtualization products:

Virtual Environment	OS Version and Edition	Supported	UCMDB Deployments	Recommended
Microsoft Azure	All platforms	Yes	SmallStandardEnterprise	Yes
Amazon Web Services (AWS)	All platforms	Yes	SmallStandardEnterprise	Yes
VMware ESXi 6.0 and 6.5	 Windows Server 2016 Datacenter and Standard, 64-bit (without the Nano Server installation option) 	Yes	SmallStandardEnterprise	Note: In case of conflict, the VMware Compatibili ty Guide
	 Windows Server 2012, 2012 R2, Standard/DataCenter, 64-bit 			shall prevail.
	 Windows Server 2008 Standard R2 and R2 SP1 64-bit 			
	 Red Hat Enterprise Linux Server 6.x, 7.x, 64-bit 			
	 Red Hat Linux Server 5.x Enterprise/Advanced, 64-bit 			
VMware ESXi 5.5	Windows Server 2016 Datacenter and Standard, 64-bit (without the Nano Server installation option)	Yes	SmallStandardEnterprise	Yes Note: In case of conflict, the VMware Compatibili

Virtual Environment	OS Version and Edition	Supported	UCMDB Deployments	Recommended
	 Windows Server 2012, 2012 R2, Standard/DataCenter, 64-bit 			ty Guide shall prevail.
	 Windows Server 2008 Standard R2 and R2 SP1 64-bit 			
	 Red Hat Enterprise Linux Server 6.x, 7.x, 64-bit 			
	 Red Hat Linux Server 5.x Enterprise/Advanced, 64-bit 			
VMware ESXi 5.1	Windows Server 2012, 2012 R2, Standard/DataCenter, 64-bit	Yes	Standard Case of conflict Mwall Compare ty Guid shall	Note: In case of conflict, the VMware
	Windows Server 2008 Enterprise SP2, R2, and R2 SP1 64-bit			
	 Windows Server 2008 Standard R2 and R2 SP1 64-bit 			prevail.
	 Red Hat Linux 5.x Enterprise/Advanced, 64-bit 			
	 Red Hat Enterprise Linux Server 6.x, 64-bit 			
VMware ESXi 5.0, 5.0 update 1	Windows Server 2008 Enterprise SP2, R2, and R2 SP1 64-bit	Yes	Standard	Note: In case of conflict, the
	Windows Server 2008 Standard R2 and R2 SP1 64-bit	Enterprise	VMware Compatibili ty Guide	
	 Red Hat Linux 5.x Enterprise/Advanced, 64-bit 			shall prevail.
	Red Hat Enterprise Linux Server 6.x, 64-bit			

Virtual Environment	OS Version and Edition	Supported	UCMDB Deployments	Recommended
Microsoft Hyper-V Server 2012 R2	 Windows Server 2012 and 2012 R2, 64-bit Windows Server 2008 Enterprise SP2, R2, and R2 SP1 64-bit Windows Server 2008 Standard R2 and R2 SP1 64-bit Red Hat Linux 5.x Enterprise/Advanced, 64-bit Red Hat Enterprise Linux Server 6.x, 64-bit 	Yes	 Small Standard Enterprise 	For more details, see Hyper-V overview.
Microsoft Hyper-V Server 2012	 Windows Server 2012 and 2012 R2, 64-bit Windows Server 2008 Enterprise SP2, R2, and R2 SP1 64-bit Windows Server 2008 Standard R2 and R2 SP1 64-bit Red Hat Enterprise Linux Server 6.x, 64-bit 	Yes	SmallStandardEnterprise	For more details, see Hyper-V overview.
Microsoft Hyper-V Server 2008 R2 SP1	 Windows Server 2008 Enterprise SP2, R2, and R2 SP1 64-bit Windows Server 2008 Standard R2 and R2 SP1 64-bit Red Hat Linux 5.x Enterprise/Advanced, 64-bit Red Hat Enterprise Linux Server 6.x, 64-bit 	Yes	SmallStandardEnterprise	
Oracle VM 3.2	See Oracle VM 3.2 Release Notes	Yes		
Xen Hypervisor 3.x	Any	No		

Virtual Environment	OS Version and Edition	Supported	UCMDB Deployments	Recommended
VMware ESX version 4.x or earlier	Any	No		
VMware ESXi 4.x or earlier	Any	No		

The following product has been tested to perform live migration of VMware ESXi virtual machines:

• VMware vSphere 5.5 vMotion

Recommendations for Deploying CMS System on the Virtual Machines

If virtual servers are being used for a production CMS system:

- 1. It is strongly recommended that you use physical hardware for UCMDB Database in production environments where performance is a concern. Deploying the UCMDB database on a virtual environment might run into performance issue.
- 2. Assign dedicated resources (such as vCPU, memory, and disk I/O) to a guest operating system that acts as a UCMDB and Probe Server.
- 3. Deploy all UCMDB Server HA deployment in the same virtualization resource pool.
- 4. Use the high performance storage (such as 3PAR) for UCMDB server (If the I/O is not good enough, with some user scenarios, such as SOLR full indexing, it might cause CPU high usage).

Hardware recommendations:

- 1. It is recommended to use the same number of vCPU and memory as recommended for physical deployment.
- 2. A Gigabit network card should be used.

High-Availability Products

Universal CMDB 10.33 is compatible with the following high-availability products:

• The F5 BIG-IP version 10.x load balancer. (F5 BIG-IP version 11.x is also supported.)

For details on configuring the load balancer, refer to the High Availability section in the interactive *Universal CMDB Deployment Guide*.

If you are using a different load balancer, the configuration should be performed by a network administrator who has a wide knowledge about how to configure your load balancer, and similar principles should be applied.

Note: The load balancer used for High Availability must have the ability to insert cookies and must be able to do health checks ("keepalive").

Micro Focus Software Integrations

Information about Micro Focus software that integrates with Universal CMDB 10.33 can be found at the Software Support site. See Software Integrations Catalog.

Micro Focus Software Coexistence

UCMDB servers must be installed on dedicated host systems which must not run other Micro Focus applications.

Installing UCMDB servers together with most other Micro Focus products on the same host system may result in port conflicts, performance issues, or other unexpected behavior.

Coexistence of UCMDB servers with Micro Focus Data Flow Probes (including UCMDB Integration Service) and UCMDB Browser is supported. For details about UCMDB Server compatibility with UCMDB Browser, see the table below.

On the same Windows machine, you can have two Data Flow Probes (including UCMDB Integration Service) at most.

Caution: When you have both Data Flow Probe and UCMDB Integration Service installed on the same Windows machine where UCMDB Server is installed, you cannot start the Data Flow Probe and UCMDB Integration Service at the same time.

UCMDB Server Compatibility with UCMDB Browser

Product Name	Supported UCMDB Server Version	Comments
UCMDB Browser standalone 4.10 and later	10.01 and later	For details about UCMDB server coverage, see "UCMDB Server Coverage" in the Universal CMDB Browser Support Matrix.
UCMDB Browser embedded 4.10 and later	10.30 and later	All functionality listed in the "UCMDB Server coverage" table in the <i>Universal CMDB Browser Support Matrix</i> are also available in the UCMDB Server 10.30 or later versions.

Note: (Embedded UCMDB Browser only) UCMDB 10.33 requires version 4.14 of the embedded UCMDB Browser. It does not support embedded UCMDB Browser version 4.13 (or earlier). If you are using UCMDB Browser version 4.13 (or earlier), make sure you move the UCMDB Browser embedded to UCMDB Browser Standalone.

Other Software Coexistence

No coexistence information for Universal CMDB 10.33 is available.

Server / Client Compatibility

No compatibility information for older versions of Universal CMDB 10.33 clients or servers is available.

Performance and Sizing

When planning capacity, among other issues, you should consider the ratio of managed nodes in your CMDB to node-related CIs. Node-related CIs include all CIs of types that are subclasses of Application Resource, Node Element, or Running Software.

The following table lists the number of node-related CIs you can discover for each managed node in your environment. This number depends on the size of your deployment and the number of managed

nodes—the more managed nodes you maintain in the CMDB, the fewer node-related CIs you can discover for each managed node.

For example, in an Enterprise deployment, if you are running 134,400 managed nodes, you can discover 160 node-related CIs for each managed node. If you are running only 43,200 managed nodes, you can discover 500 resource CIs for each managed node.

Deployment	Number of Managed Nodes/Node-Related CIs	
Enterprise	134400/160 - 43200/500	
Standard	9000/160 – 3000/500	
Small	4500/160 – 1000/500	

Note: The numbers in the table include only CIs and not relationships.

For more details about performance and sizing, see the Universal CMDB Sizing Guide.

Transparent Technology and Virtualization Support

In recent years, a number of "transparent" hardware and software technologies and virtualization solutions (such as Citrix, Microsoft Cluster Software, and VMware) have become increasingly prevalent. These solutions operate in the technology layers adjacent to the operating systems or, in some cases, as extensions of the operating systems. Similarly, database solutions offer transparent components as supported elements.

Micro Focus supports Universal CMDB running on operating systems and databases on particular platforms as described in the matrix above, not specific hardware and software configurations. Micro Focus will support Universal CMDB customers who run Micro Focus software products on supported operating systems and databases, irrespective of whether they are running transparent or virtualization solutions in their environment. Micro Focus does not support these transparent or virtualization technologies directly. Since the providers of these technologies support a set of certified operating systems and hardware, the customer and the providers of these technologies will be responsible for any interactions or issues that arise at the hardware or operating system layer as a result of their use.

Micro Focus will not require customers to re-create and troubleshoot every issue in a non-transparent environment; however, Micro Focus does reserve the right to request that its customers diagnose certain issues in a native certified operating system environment without the transparent technology. Micro Focus will only make this request when there is reason to believe that the environment is a contributing factor to the reported issue.

While Universal CMDB is expected to function properly with these transparent technologies in place, there may be performance implications, which can invalidate Micro Focus's typical sizing and recommendations. Analysis must be performed within the context of the specific application to be hosted in a virtual environment to minimize potential resource overload, which can have significant impact on performance and scalability, particularly under peak load.

Obsolescence Plans

As of August 2018 (Sixth Edition), there are no plans to end support for any currently supported version of Universal CMDB.

To learn the obsolescence plans for previously released versions of Universal CMDB, go to:

https://softwaresupport.softwaregrp.com/web/softwaresupport/obsolescence-migrations

Change Log

The table below lists the changes to this document since the release of UCMDB version 10.01.

Document Date (product version)	Change
July 2017	Operating Systems:
(10.33)	 Added support for Red Hat Enterprise Linux Server 6.7, 6.8, and 6.9 for both UCMDB server and Data Flow Probe
	 Added support for Oracle Enterprise Linux with Red Hat Compatible Kernel v6.7, v6.8, and v6.9 for both UCMDB server and Data Flow Probe
	 Added support for Oracle Enterprise Linux with Oracle Unbreakable Enterprise Kernel v6.7, v6.8, and v6.9 for both UCMDB server and Data Flow Probe
	Database:
	 Added support for Microsoft SQL Server version 2016 SP1 (including high availability mode (AlwaysOn)) for UCMDB server and UCMDB Integration Service
	 Added clarification that Oracle version 12c R2(Standard/Enterprise Editions) is supported for UCMDB server and UCMDB Integration Service
	 Added support for Oracle version 12c R2 RAC (Enterprise Edition) is supported for UCMDB server and UCMDB Integration Service
	Virtualization:
	 Added support for Microsoft Azure for UCMDB server (with the standalone version of Microsoft SQL Server installed on Azure virtual machines)
	• Plug-in
	 Added support for Microsoft Excel 2016
	Removed support for the following
	 Character set WE8ISO8859P1 for Oracle databases
March 2017	Operating Systems:
(10.32)	 Added support for Red Hat Enterprise Linux Server 7.3 for both UCMDB server and Data Flow Probe
	 Added support for Oracle Enterprise Linux with Red Hat Compatible Kernel v7.3 for both UCMDB server and Data Flow Probe
	 Added support for Oracle Enterprise Linux with Oracle Unbreakable Enterprise Kernel v7.3 for both UCMDB server and Data Flow Probe

Document Date (product version)	Change
	 Added support for Microsoft Windows Server 2008, SP2, R2, and R2 SP1 (Enterprise and Standard editions, 64-bit) for Data Flow Probe
	 Added support for Microsoft Windows Server 2008 R2 SP1 (Enterprise and Standard editions, 64-bit) for UCMDB server
	Databases:
	 Added support for Microsoft SQL Server versions 2014 SP2 and 2016 for UCMDB server and UCMDB Integration Service
	 Added support for PostgreSQL versions 9.5 and 9.6 for UCMDB server and UCMDB Integration Service
	Virtualization:
	 Added support for VMware ESXi 6.5
	• Other
	 Added Windows Server 2016 support for the Universal Discovery Client Inventory Tools
	 Added clarification that Windows Server 2012 R2 is supported for the Universal Discovery Client Inventory Tools
	 Removed support for the UCMDB Browser embedded in Configuration Manager
December 2016	Operating Systems:
(10.31)	 Added support for Microsoft Windows Server 2016, Datacenter and Standard editions, 64-bit (without the Nano Server installation option)
	Cloud Environment:
	 Added support for Amazon Web Services for both UCMDB Server and Data Flow Probe
	 Added support for Microsoft Azure for Data Flow Probe
September 2016	Databases:
(10.30)	 Added support for Microsoft SQL Server 2012 SP3 and 2014 SP1 on UCMDB server side
	 Added support for Microsoft SQL Server 2014 high availability mode (AlwaysOn)
	 Upgraded the embedded PostgreSQL to version 9.4.8 for both UCMDB Server and Data Flow Probe
	Operating Systems:
	$\circ~$ Added support for Red Hat Enterprise Linux Server 7.2 on UCMDB server

Document Date (product version)	Change	
	side, and versions 7.0, 7.1, and 7.2 on probe side	
	 Added support for Oracle Enterprise Linux with Red Hat Compatible Kernel v7.2 for UCMDB server, and versions 7.0, 7.1, and 7.2 for Data Flow Probe 	
	 Added support for Oracle Enterprise Linux with Oracle Unbreakable Enterprise Kernel v7.2 on UCMDB server side, and versions 7.0, 7.1, and 7.2 for Data Flow Probe 	
	 Added support for CentOS versions 7.0 and 7.1 on both of the UCMDB server and for Data Flow Probe 	
	Web Browsers:	
	 Added support for Firefox 38 ESR 	
	Plug-ins:	
	 Added support for Adobe Flash Player versions up to v19 	
	Removed Support for the following:	
	 Microsoft Windows Server 2008 	
	Enterprise SP2, R2, and R2 SP1, 64-bit	
	Standard R2 and R2 SP1, 64-bit	
	 Microsoft SQL Server 2008 	
	• 32-bit or 64-bit, SP3	
	• 64-bit, R2 SP1, R2 SP2	
	 Microsoft SQL Server 2008 Failover Cluster, Enterprise, 64-bit, SP2, SP3, R2 SP1, R2 SP2 	
	 Red Hat Enterprise Linux Server 6.2 and 6.3 	
	 Oracle Enterprise Linux with Red Hat Compatible Kernel v6.3 	
	 Oracle Enterprise Linux with Oracle Unbreakable Enterprise Kernel v6.3 	
	 VMware ESX 4.0 and 4.1 	
December 2015	Databases:	
(10.22)	Added support for PostgreSQL 9.4	
	Added support for Microsoft SQL Server 2012 SP2	
	Operating Systems:	
	 Added support for Red Hat Enterprise Linux Server versions 6.6, 7.0, and 7.1 on UCMDB server side, and version 6.6 on probe side 	

Document Date (product version)	Change		
	 Added support for Oracle Enterprise Linux with Red Hat Compatible Kernel versions 6.6, 7.0, and 7.1 for UCMDB server, and v6.6 for Data Flow Probe 		
	 Added support for Oracle Enterprise Linux with Oracle Compatible Kernel versions 6.6, 7.0, and 7.1 for UCMDB server, and v6.6 for Data Flow Probe 		
	Virtualization:		
	Added support for VMware ESXi 6.0		
	Web Browsers:		
	Added support for Windows Internet Explorer 11 (for Configuration Manager)		
	Universal Discovery Client Inventory Tools:		
	Added support for Windows 10		
	Application Server:		
	Updated Apache Tomcat version to 7.0.64		
	Removed Support for the following:		
	Safari on Windows platform		
March 2015 (10.21)	Plug-ins:		
(10.21)	 Added support for JRE 8 family. The recommended JRE version is changed from 7u65 to 8u45. 		
	Databases:		
	Added support for PostgreSQL 9.3		
	Web Browsers:		
	Added support for Safari on iPad with iOS 6 or 7 (for UCMDB Browser only)		
	De-supported:		
	Java Runtime Environment 1.6 family		
January 2015 (10.20)	Operating Systems:		
(10.20)	 Added support for Oracle Enterprise Linux with Red Hat Compatible Kernel v6.4, v6.5 		
	 Added support for Oracle Enterprise Linux with Oracle Unbreakable Kernel v6.4, v6.5 		
	Virtualization:		

Document Date (product version)	Change
	Added support for Microsoft Hyper-V Server 2012 R2
	Added support for Oracle VM 3.2
	Databases:
	Added support for Oracle 12c, Standard/Enterprise Editions
	Added support for Oracle 12c RAC, Enterprise Edition
	Added support for Microsoft SQL Server 2014, Standard/Enterprise Editions
	Web Browsers:
	 Added support for Safari on Windows for UCMDB UI, CM UI, and UCMDB Browser; on Mac OS X for UCMDB UI and UCMDB Browser
	Added support for Firefox 31 ESR
	Plug-ins:
	 Added support for Adobe Flash Player versions up to v15
	Added support for Adobe Reader X and XI
June 2014	Operating Systems:
(10.11)	 Added support for Windows Server 2012 R2, Datacenter and Standard Editions, for UCMDB and the Data Flow Probe
	 Added support for Red Hat Enterprise Linux Server 6.5, for UCMDB and the Data Flow Probe
	Virtualization:
	Added support for VMware ESXi 5.5
	 Added support for VMware vSphere 5.5 vMotion to perform live migration of VMware ESXi virtual machines
	Web Browsers:
	Added support for Windows Internet Explorer 11, for UCMDB UI
	Added support for Firefox ESR 24, for UCMDB UI
November 2012	Hardware:
(10.01)	 For Enterprise deployments of UCMDB with more than 40 million CIs and relationships, the required memory is 32 GB RAM
	Operating Systems:
	Added support for Windows 2012, Datacenter and Standard Editions, for

Document Date (product version)	Change		
	UCMDB and the Data Flow	Probe	
	Added support for Red Hat Enterprise Linux Server 6.4, for UCMDB and the Data Flow Probe		
	Databases:		
	Discontinued support for Oracle Database 10.2.0.4		
	Added support for Microsoft Standard/Enterprise Edition	SQL Server Database 2012 SP1, s, 64-bit	
	Added support for Microsoft SP1, Enterprise Edition, 64-	SQL Server Database 2012 Failover Cluster bit	
	Added support for PostgreSQL Server Database 9.2.2, Enterprise Edition, 64- bit in the following modes:		
	• Embedded mode (for Sm	all and Standard UCMDB deployments only)	
	• External mode (for Small, Standard and Enterprise UCMDB deployments)		
	Web Browsers:		
	Added support for Windows Internet Explorer 10		
	 Discontinued support for Firefox 10 and higher using Red Hat Enterprise Linux, versions 5 and 6, 32/64-bit 		
	Plug-ins:		
	The recommended JRE version was changed from 1.7u05 to 1.7u25		
	Added support for Adobe Flash Player 11.5		
	Added support for Microsoft	Excel 2013	
	Data Flow Probe:		
	Introduced a Small deploym Standard and Enterprise dep	ent for the Data Flow Probe (in addition to the ployments)	
	The Memory requirements for the Data Flow Probe deployment using Windows changed as follows:		
	UCMDB 10.01 • Standard: 4 GB RAM		
		Enterprise: 8 GB RAM	
	UCMDB 10.10	Small: 4 GB RAM	
		Standard: 8 GB RAM	
		Enterprise: 12 GB RAM	

Document Date (product version)	Change	
	 The Memory Swap File requirements for the Data Flow Probe deployment using Windows changed as follows: 	
	UCMDB 10.01	Standard: 6 GB RAMEnterprise: 12 GB RAM
	UCMDB 10.10	 Small: 6 GB RAM Standard: 12 GB RAM Enterprise: 18 GB RAM
	 The free hard disk space requirements for Enterprise deployments of the Data Flow Probe changed as follows: 	
	UCMDB 10.01	200 GB Note: 150 out of 200 GB disk space is required for scan files
	UCMDB 10.10	300 GB Note: 225 out of 300 GB disk space is required for scan files
	 Discontinued support for MySQL and MySQL Driver for the Data Flow Probe Added support for PostgreSQL Server Database 9.2.2 for the Data Flow Probe 	
	Virtualization:Added support for VMware ESXi 5.1	
	Added support for Microsoft Hyper-V Server 2012	
	 Added support for Microsoft Hyper-V Server 2008 R2 SP1 for Enterprise deployments of UCMDB 	

Send documentation feedback

If you have comments about this document, you can contact the documentation team by email. If an email client is configured on this system, click the link above and an email window opens with the following information in the subject line:

Feedback on Support Matrix (Universal CMDB 10.33)

Just add your feedback to the email and click send.

If no email client is available, copy the information above to a new message in a web mail client, and send your feedback to cms-doc@microfocus.com.

We appreciate your feedback!