

Compared: UEM Vendors 2023

Unified endpoint management (UEM) is a strategic IT approach that consolidates how enterprises secure and manage an array of deployed devices including phones, tablets, PCs, and even IoT devices. UEM tools incorporate several existing enterprise mobility management (EMM) technologies, including mobile device management (MDM) and mobile application management (MAM), with tools used to manage desktop PCs and laptops.

With the ability to create policies that can be deployed to many devices and operating systems, UEM products reduce both manual work and risk for IT. They also deliver insights into how devices and apps are used by employees, which can be used to improve cross-functional workflows.

Our in-depth chart compares the features and functions offered by major UEM vendors including BlackBerry, Google, IBM, Ivanti, ManageEngine, Microsoft, Sophos, and VMware. You can scroll through the whole chart or click on a topic in the bulleted list below to go to that specific section of the chart. ♦



- **Deployment Options** (*on-premises, cloud*)
- **Platforms Supported**
- **Device Management**
(*automated provisioning, selective device wipe, etc.*)
- **Application Management**
(*managed app provisioning, containerization, etc.*)
- **Security**
(*app deny/allow lists, secure web browser, firewall, etc.*)
- **Document/Content Management**
(*encrypted document container, secure email, etc.*)
- **Network Management**
(*roaming cost control, device diagnostics, usage monitoring, etc.*)
- **Service Management**
(*help desk support management, remote control of device, etc.*)
- **Reporting** (*alerts, real-time dashboards, app-level analytics, etc.*)

This chart was originally published in May 2013 and most recently updated in February 2023. We chose the vendors and products listed here based on conversations with independent analysts; all have significant market share or are important to include for other reasons such as features and functions. All information in the chart about the products and services comes from the respective vendors.



UNIFIED ENDPOINT MANAGEMENT VENDORS COMPARED

Deployment Options

	BlackBerry	Google	IBM	Ivanti	ManageEngine	Microsoft	Sophos	VMware
Product Name(s)	BlackBerry UEM	Google Endpoint Management	IBM Security MaaS360 with Watson	Ivanti Unified Endpoint Management (UEM)	ManageEngine Endpoint Central, ManageEngine Mobile Device Manager Plus	Microsoft Endpoint Manager	Sophos Mobile	VMware Workspace ONE
On-premises	YES	NO	NO (but on-premises access gateway available for email, VPN, and other applications)	YES (Ivanti Endpoint Manager, Ivanti Endpoint Manager Mobile)	YES	YES (ConfigMgr)	NO	YES
Cloud/SaaS	YES	YES	YES	YES (Ivanti Neurons for UEM)	YES	YES	YES	YES



UNIFIED ENDPOINT MANAGEMENT VENDORS COMPARED

Platforms Supported

	BlackBerry	Google	IBM	Ivanti	ManageEngine	Microsoft	Sophos	VMware
Product Name(s)	BlackBerry UEM	Google Endpoint Management	IBM Security MaaS360 with Watson	Ivanti Neurons for UEM	ManageEngine Endpoint Central, ManageEngine Mobile Device Manager Plus	Microsoft Endpoint Manager	Sophos Mobile	VMware Workspace ONE
iOS	YES	YES	YES	YES	YES	YES	YES	YES
Android	YES	YES	YES	YES	YES	YES	YES	YES
Android Enterprise	YES	YES	YES	YES	YES	YES	YES	YES
Extended Android APIs	YES	YES	YES (Samsung Knox, Android-based OEMs)	YES	YES	YES	YES	YES (Samsung Knox, Zebra MX, Android Enterprise OEMConfig, custom settings via XML)
Windows 10	YES	YES	YES	YES	YES	YES	YES	YES
Windows 11	YES	NO	YES	YES	YES	YES	YES	YES
macOS	YES	NO	YES	YES	YES	YES	YES	YES
ChromeOS	YES	YES	YES	YES (Q1-2 2023)	YES	YES (in preview; GA in Q1-2 2023)	YES	YES
Other	tvOS; QNX; Android Things	Linux	Linux; Windows 7; Amazon Fire OS; Android Wear; Android Things; Microsoft Holographic; watchOS; Windows IOT Platform; AOSP devices; Vuzix; Realware	Linux; IoT; Raspberry Pi OS; tvOS; HoloLens; AOSP; Zebra; Oculus	12+ Linux flavors; Windows XP, 7, 8.x; Windows Server; Google Glass; HoloLens; watchOS; tvOS; OEM support (Samsung Knox, Zebra, Honeywell, Lenovo, Datalogic, Nokia, Kyocera, Ascom, Spectralink, Seuic, Unitech, CipherLab, Aquos, Rhino, BOS, Archos, Huawei, LGE, Borqs, Toughbook, FCNT)	Zebra, Realwear, AOSP; Windows Mobile and Phone (via ConfigMgr); Linux (in preview)	Linux; tvOS; Windows 7, 8, 8.1, RT; Windows CE 7; Symbian; QNX 6.5; Tizen; Raspberry Pi OS	



UNIFIED ENDPOINT MANAGEMENT VENDORS COMPARED

Device Management

	BlackBerry	Google	IBM	Ivanti	ManageEngine	Microsoft	Sophos	VMware
Product Name(s)	BlackBerry UEM	Google Endpoint Management	IBM Security MaaS360 with Watson	Ivanti Neurons for UEM	ManageEngine Endpoint Central, ManageEngine Mobile Device Manager Plus	Microsoft Endpoint Manager	Sophos Mobile	VMware Workspace ONE
Integrated console for PC and mobile management	YES	YES	YES	YES	YES	YES	YES	YES
Automated provisioning/enrollment	YES	YES	YES	YES	YES	YES	YES	YES
OS update/patch management	YES (via partner)	NO	YES	YES	YES	YES	NO	YES
Password protection	YES	YES	YES	YES	YES	YES	YES	YES
Password reset	YES	YES	YES	YES	YES	YES	YES	YES
Remote device wipe	YES	YES	YES	YES	YES	YES	YES	YES
Selective wipe	YES	YES	YES	YES	YES	YES	YES	YES
Remote lock	YES	YES (except iOS)	YES	YES	YES	YES	YES	YES



UNIFIED ENDPOINT MANAGEMENT VENDORS COMPARED

Device Management *(continued)*

	BlackBerry	Google	IBM	Ivanti	ManageEngine	Microsoft	Sophos	VMware
Product Name(s)	BlackBerry UEM	Google Endpoint Management	IBM Security MaaS360 with Watson	Ivanti Neurons for UEM	ManageEngine Endpoint Central, ManageEngine Mobile Device Manager Plus	Microsoft Endpoint Manager	Sophos Mobile	VMware Workspace ONE
Set VPN, Wi-Fi, APN, proxy/gateway settings	YES	YES	YES	YES	YES	YES	YES	YES
Disable Wi-Fi	YES	YES	YES	YES	YES	YES	YES	YES
Disable carrier data connection	YES	YES	YES	YES	YES	YES	YES	YES
Configuration monitoring/auditing	YES	YES	YES	YES	YES	YES	YES	YES
Disable camera	YES	YES	YES	YES	YES	YES	YES	YES
Disable Bluetooth	YES	YES	YES	YES	YES	YES	YES	YES
Manage desktop-attached devices (e.g., printers, scanners)	NO	YES (via Windows custom settings)	YES	YES	YES	YES	NO	YES



UNIFIED ENDPOINT MANAGEMENT VENDORS COMPARED

Device Management *(continued)*

	BlackBerry	Google	IBM	Ivanti	ManageEngine	Microsoft	Sophos	VMware
<i>Product Name(s)</i>	BlackBerry UEM	Google Endpoint Management	IBM Security MaaS360 with Watson	Ivanti Neurons for UEM	ManageEngine Endpoint Central, ManageEngine Mobile Device Manager Plus	Microsoft Endpoint Manager	Sophos Mobile	VMware Workspace ONE
<i>Manage mobile-attached devices (e.g., printers, scanners)</i>	YES (via ISV partners)	NO	YES	YES	YES	NO (but can block removable storage)	YES	YES
<i>Support multiple users per device (auto-configure device settings based on the currently logged-in user)</i>	YES (supports multi-user/shared device support for iOS)	NO	YES	YES	YES	YES	NO	YES
<i>Offers GPO or other policy migration from legacy PC management systems</i>	YES (via partner)	YES (via Windows custom settings)	YES	YES	YES	YES	NO	YES
<i>Supports legacy Windows systems (XP, 7, 8.x)</i>	NO	NO	YES	YES	YES	YES	NO	YES



UNIFIED ENDPOINT MANAGEMENT VENDORS COMPARED

Application Management

	BlackBerry	Google	IBM	Ivanti	ManageEngine	Microsoft	Sophos	VMware
<i>Product Name(s)</i>	BlackBerry UEM	Google Endpoint Management	IBM Security MaaS360 with Watson	Ivanti Neurons for UEM	ManageEngine Endpoint Central, ManageEngine Mobile Device Manager Plus	Microsoft Endpoint Manager	Sophos Mobile	VMware Workspace ONE
<i>User self-service app delivery</i>	YES	YES	YES	YES	YES	YES	YES	YES
<i>Managed app provisioning</i>	YES	YES	YES	YES	YES	YES	YES	YES
<i>Integrated enterprise app store for desktop and mobile app deployment</i>	YES	YES (mobile only)	YES	YES	YES	YES	YES	YES
<i>App update/patch management</i>	YES	NO	YES	YES	YES	YES (ConfigMgr)	YES	YES
<i>Containerization/sandboxing</i>	YES	NO	YES	YES	YES	YES	YES	YES
<i>App containerization using developer SDK/toolkit</i>	YES	NO	YES	YES	NO	YES	YES	YES
<i>App containerization using app wrapping</i>	YES (via ISV partner)	NO	YES	YES	NO	YES	NO	YES
<i>Block copy/paste between apps</i>	YES	YES	YES	YES	YES	YES	YES	YES
<i>Block copy/paste from email</i>	YES	YES	YES	YES	YES	YES	YES	YES



UNIFIED ENDPOINT MANAGEMENT VENDORS COMPARED

Application Management *(cont.)*

	BlackBerry	Google	IBM	Ivanti	ManageEngine	Microsoft	Sophos	VMware
<i>Product Name(s)</i>	BlackBerry UEM	Google Endpoint Management	IBM Security MaaS360 with Watson	Ivanti Neurons for UEM	ManageEngine Endpoint Central, ManageEngine Mobile Device Manager Plus	Microsoft Endpoint Manager	Sophos Mobile	VMware Workspace ONE
<i>Restrict which apps can open a given file</i>	YES	YES	YES	YES	YES	YES	YES	YES
<i>App inventory tracking</i>	YES	YES	YES	YES	YES	YES	YES	YES
<i>App usage monitoring</i>	YES	YES	YES	YES	YES	YES	YES	YES
<i>Apple volume purchase program integration</i> (decrements volume purchase agreement quantity available as users download apps from store)	YES	NO	YES	YES	YES	YES	YES	YES
<i>Remote desktop access</i> (access to apps and data on desktop from smartphone or tablet)	YES	NO	YES	YES	NO	YES	NO	YES
<i>Supports native iOS app controls</i>	YES	NO	YES	YES	YES	YES	YES	YES
<i>Supports native Android Enterprise app controls</i>	YES	YES	YES	YES	YES	YES	YES	YES
<i>Can deploy apps to unmanaged devices</i>	YES	YES (Android only)	YES	YES	YES	YES	YES	YES



UNIFIED ENDPOINT MANAGEMENT VENDORS COMPARED

Security

	BlackBerry	Google	IBM	Ivanti	ManageEngine	Microsoft	Sophos	VMware
<i>Product Name(s)</i>	BlackBerry UEM	Google Endpoint Management	IBM Security MaaS360 with Watson	Ivanti Neurons for UEM	ManageEngine Endpoint Central, ManageEngine Mobile Device Manager Plus	Microsoft Endpoint Manager	Sophos Mobile and Sophos Intercept X for Mobile	VMware Workspace ONE
<i>Secure web browser</i>	YES	YES	YES	YES	YES	YES	YES	YES
<i>Application deny/allow lists</i>	YES	YES (allow list)	YES	YES	YES	YES	YES	YES
<i>Data loss prevention (DLP)</i>	YES	YES	YES	YES	YES	YES	YES	YES
<i>Email attachment DLP</i>	YES	YES	YES	YES	YES	YES	YES	YES
<i>Device compromise detection (jailbreak/rooting)</i>	YES	YES	YES	YES	YES	YES	YES	YES
<i>Device-level encryption</i>	YES	YES	YES	YES	YES	YES	YES	YES
<i>Encrypted folders</i>	YES	NO	YES	YES	NO	YES	YES	YES
<i>Encrypted email attachments</i>	YES	YES	YES	YES	YES	YES	YES	YES
<i>Encrypted email message body</i>	YES	YES	YES	YES	YES	YES	YES	YES



UNIFIED ENDPOINT MANAGEMENT VENDORS COMPARED

Security (continued)

	BlackBerry	Google	IBM	Ivanti	ManageEngine	Microsoft	Sophos	VMware
Product Name(s)	BlackBerry UEM	Google Endpoint Management	IBM Security MaaS360 with Watson	Ivanti Neurons for UEM	ManageEngine Endpoint Central, ManageEngine Mobile Device Manager Plus	Microsoft Endpoint Manager	Sophos Mobile and Sophos Intercept X for Mobile	VMware Workspace ONE
Geofencing	YES (via ISV partners)	YES (via Context-Aware Access)	YES	YES (via partner)	YES	YES	YES	YES
Time fencing	YES (via ISV partners)	YES (via Context-Aware Access)	YES	YES	YES	NO	YES	YES
VPN	NO (non-VPN secure connectivity via CylanceGATEWAY)	YES	YES	YES	YES	YES	NO	YES
Mobile VPN	NO (non-VPN secure connectivity via CylanceGATEWAY)	YES	YES	YES	YES	YES	YES	YES
App-level micro VPN	YES (via CylanceGATEWAY)	NO	YES	YES	YES	YES (in preview)	YES (in combination with Sophos XG Firewall)	YES
Zero Trust Network Access (ZTNA)	YES (via CylanceGATEWAY)	YES (via Context-Aware Access)	YES	YES	NO	YES	NO	YES
Multifactor device/app authentication (token-based, facial recognition, client access card support, etc.)	YES	YES	YES	YES	YES	YES	YES	YES



UNIFIED ENDPOINT MANAGEMENT VENDORS COMPARED

Security *(continued)*

	BlackBerry	Google	IBM	Ivanti	ManageEngine	Microsoft	Sophos	VMware
<i>Product Name(s)</i>	BlackBerry UEM	Google Endpoint Management	IBM Security MaaS360 with Watson	Ivanti Neurons for UEM	ManageEngine Endpoint Central, ManageEngine Mobile Device Manager Plus	Microsoft Endpoint Manager	Sophos Mobile and Sophos Intercept X for Mobile	VMware Workspace ONE
<i>Malware detection</i>	YES	YES	YES	YES	YES	YES	YES	YES
<i>Includes firewall</i>	YES	NO	YES	YES	NO	YES	NO	YES
<i>Single sign-on support</i>	YES	YES	YES	YES	YES	YES	YES	YES
<i>Risk-based authentication</i>	YES	YES	YES	YES	YES	YES	NO	YES
<i>Behavioral biometric authentication</i>	YES	YES	YES	YES	YES (via Zoho Directory)	YES	NO	YES
<i>Identity-based policy enforcement across multiple devices</i>	YES	YES	YES	YES	YES	YES	NO	YES



UNIFIED ENDPOINT MANAGEMENT VENDORS COMPARED

Document/Content Management

	BlackBerry	Google	IBM	Ivanti	ManageEngine	Microsoft	Sophos	VMware
<i>Product Name(s)</i>	BlackBerry UEM	Google Workspace	IBM Security MaaS360 with Watson	Ivanti Neurons for UEM	ManageEngine Endpoint Central, ManageEngine Mobile Device Manager Plus	Microsoft Endpoint Manager	Sophos Mobile	Workspace ONE Content, Workspace ONE Boxer
<i>Encrypted document container</i>	YES	YES	YES	YES	YES	YES	YES	YES
<i>Secure email</i>	YES	YES	YES	YES	YES	YES	YES	YES
<i>File server access</i>	YES	YES	YES	YES	YES (via Zoho WorkDrive)	YES	YES	YES
<i>Secure SharePoint access</i>	YES	NO	YES	YES	YES	YES	YES	YES
<i>Integrates with enterprise content management software</i>	YES	YES	YES	YES	YES	YES	YES	YES



UNIFIED ENDPOINT MANAGEMENT VENDORS COMPARED

Network Management

	BlackBerry	Google	IBM	Ivanti	ManageEngine	Microsoft	Sophos	VMware
<i>Product Name(s)</i>	BlackBerry UEM	Google Endpoint Management	IBM Security MaaS360 with Watson	Ivanti Neurons for UEM	ManageEngine Endpoint Central, ManageEngine Mobile Device Manager Plus	Microsoft Endpoint Manager	Sophos Mobile	VMware Workspace ONE
<i>Data usage management</i> (restrict where, when and whether downloads occur over Wi-Fi or cellular)	YES	NO	YES	YES	YES	NO	YES	YES
<i>Roaming cost control</i> (such as auto disablement of data when roaming)	YES	NO	YES	YES	YES	NO	YES	YES
<i>Device diagnostics</i>	YES	NO	YES	YES	YES	YES	YES	YES
<i>Usage monitoring</i>	YES	NO	YES	YES	YES (via ManageEngine Netflow Analyzer)	YES	YES	YES
<i>Block device from accessing email if policies violated</i>	YES	YES	YES	YES	YES	YES	YES	YES
<i>Offers peer-to-peer distribution</i>	NO	NO	YES	YES	YES	YES	NO	YES
<i>Partners with third-party content delivery network</i>	NO	NO	YES	YES (via AWS and Azure storage)	YES (uses Zoho CDNs)	NO	NO	YES



UNIFIED ENDPOINT MANAGEMENT VENDORS COMPARED

Service Management

	BlackBerry	Google	IBM	Ivanti	ManageEngine	Microsoft	Sophos	VMware
<i>Product Name(s)</i>	BlackBerry UEM	Google Endpoint Management	IBM Security MaaS360 with Watson	Ivanti Neurons for UEM	ManageEngine Endpoint Central, ManageEngine Mobile Device Manager Plus	Microsoft Endpoint Manager	Sophos Mobile	VMware Workspace ONE, VMware Workspace ONE Assist
<i>Help desk support management</i>	YES	NO	YES	YES	YES	YES	NO	YES
<i>Service monitoring</i>	YES	NO	YES	YES	YES	YES	YES	YES
<i>Remote control of device</i>	YES (via ISV partner)	NO	YES	YES	YES	YES	YES	YES
<i>User self-service portal</i>	YES	YES	YES	YES	YES	YES	YES	YES
<i>Chatbot support</i>	YES	NO	YES (via MaaS360 Assistant)	YES (provided in the ITSM)	YES	NO	NO	YES



UNIFIED ENDPOINT MANAGEMENT VENDORS COMPARED

Reporting

	BlackBerry	Google	IBM	Ivanti	ManageEngine	Microsoft	Sophos	VMware
<i>Product Name(s)</i>	BlackBerry UEM	Google Endpoint Management	IBM Security MaaS360 with Watson	Ivanti Neurons for UEM	ManageEngine Endpoint Central, ManageEngine Mobile Device Manager Plus	Microsoft Endpoint Manager	Sophos Mobile	VMware Workspace ONE
<i>Alerts</i>	YES	YES	YES	YES	YES	YES	YES	YES
<i>Automated responses to alerts</i>	YES	YES (MDM rules)	YES	YES	YES	YES	YES	YES
<i>Automated, scheduled report delivery</i>	YES (also via partners)	NO	YES	YES	YES	YES	YES	YES
<i>Real-time dashboards</i>	YES	YES	YES	YES	YES	YES	YES	YES
<i>Device-level analytics</i>	YES	YES	YES	YES	YES	YES	YES	YES
<i>App-level analytics</i>	YES	NO	YES	YES	YES	YES	YES	YES
<i>Can leverage aggregate data across customer base for insights/best practices</i>	YES	NO	YES	YES	NO	YES	YES	YES