IBM TRIRIGA Application Platform 3.6.0 Compatibility Matrix

The information in this IBM TRIRIGA Application Platform 3.6.0 Compatibility Matrix is current as of October 18, 2019. The IBM TRIRIGA Application Platform Compatibility Matrix provides a list of application servers, database servers, web servers, third party servers, third party components and operating systems (collectively "Environments") with which the IBM TRIRIGA Application Platform is currently certified as of the date hereof. New implementations are advised to install the most current versions of the supported third party software. If you are on an IBM TRIRIGA Application Platform version where a required third party product is not currently supported, you will need to upgrade to a more current IBM TRIRIGA Application Platform release in order to be in compliance with the supported Environments. This document is not a contract. This document, all information contained herein, and IBM's products and services are subject to change at any time with or without notice in IBM's sole and absolute discretion. Without limiting the foregoing, IBM reserves the right to change its support policies and to certify its IBM TRIRIGA Application Platform on new or different Environments and to de-certify its platform on any Environments. The information contained in this document does not affect or change IBM product specifications or warranties. Nothing in this document shall operate as an express or implied license or indemnity under the intellectual property rights of IBM or third parties. THE INFORMATION CONTAINED IN THIS DOCUMENT IS PROVIDED ON AN "AS IS" BASIS. In no event will IBM be liable for damages arising directly or indirectly from any use of the information contained in this document or from any changes to the information contained in this document.

For a complete list of supported versions of the IBM TRIRIGA Application Platform and IBM TRIRIGA Applications, see IBM developerWorks.

See IBM developerWorks for the most current version of the IBM TRIRIGA Application Platform Compatibility Matrix.

IBM TRIRIGA Application Version

	Supported Version	Notes
IBM TRIRIGA Applications	10.6.0, 10.5.3, 10.5.2, 10.5.1, 10.5	Language packs for the following languages are available for IBM TRIRIGA 10.6.0: Arabic, Brazilian Portuguese, British English, Czech, Danish, Dutch, Finnish, French, German, Hebrew, Hungarian, Italian, Japanese, Korean, Norwegian, Polish, Russian, Simplified Chinese, Spanish, Swedish, Traditional Chinese, and US English.

Database Compatibility

The IBM TRIRIGA Application Platform installer requires Java 8 and a 64-bit JDK for installation. See the IBM TRIRIGA Application Platform performance wiki for sizing and performance best practices.

Database Options	Supported Version	Notes
IBM DB2 Workgroup Server Edition for Linux, UNIX, and Windows	11.1.3.3	Earlier versions may be compatible but IBM TRIRIGA may require a database upgrade to be supported in the event the issue only occurs on earlier versions. IBM TRIRIGA will support future versions of the vendor's database if the vendor does not remove, or explicitly or inadvertently disable, functionality that IBM TRIRIGA products rely on. Although future versions are supported, any issue that is introduced as a result of a database upgrade might require an IBM TRIRIGA Application Platform fix pack or upgrade to be fully supported.
Oracle (Enterprise & Standard)	12.2.0.1	DB2 is only supported when DB2 is run on Linux or Windows Server 2016, 2012 R2. Also supported on Advanced Workgroup and Enterprise Server Editions.
Microsoft SQL Server	2017, 2016	Oracle is only supported when run on Red Hat Enterprise Linux, AIX, or Windows Server 2016, 2012 R2. Microsoft SQL Server requires JDBCDriver JTDS 1.3.1 and is only supported on Windows 2016, 2012 R2.

Application Servers

The IBM TRIRIGA Application Platform installer requires a 64-bit Oracle Java 8 Virtual Machine in order to launch. In addition, a 64-bit Java 8 JDK that is supported by the Application Server vendor may be required as well. Detailed Java requirements are in the following table. See the IBM TRIRIGA Application Platform performance wiki for sizing and performance best practices.

Application Server Options	Supported Version	Notes
IBM WebSphere Application Server Liberty profile	17.0.0.2	Oracle Java SE 8 Update 141 or IBM SDK Java 1.8_64 or higher is required. Future Java updates are supported but might require a platform fix pack upgrade to be fully supported. The IBM TRIRIGA Application Platform is bundled with IBM WebSphere Application Server Liberty Profile version 17.0.0.2. Future fix packs for this version are also supported.
IBM WebSphere Application Server, IBM WebSphere Application Server Network Deployment	9.0.0.7	IBM WebSphere SDK Java Technology Edition 1.8_64 or higher is required. Future fix packs are also supported. Future Java updates are supported but might require a platform fix pack upgrade to be fully supported. Important details about Network Deployment installation are here.
Oracle WebLogic Server	12c (12.2.1.3)	Oracle Sun Java 8 Update 141 or higher is required. Future Java updates are supported but might require a platform fix pack upgrade to be fully supported. JRocket is not supported. Effective August 28, 2020, IBM TRIRIGA will no longer support Oracle WebLogic Server on any new TRIRIGA versions, releases, or modifications. Oracle WebLogic Server support will continue on TRIRIGA fix packs for versions, releases, and modifications for which it is supported as of August 28, 2020.
Application Server Operating Systems	AIX 7.1	IBM TRIRIGA Application Platform is compatible with the operating systems listed to the left and provides installers for each. Only 64-bit operating systems are supported. Future fix packs for these versions are also supported.
	Red Hat Enterprise Linux 7.x, Ubuntu 16.x, SUSE Linux Enterprise 12.x, CentOS 7.x	
	Windows Server 2016, 2012 R2	

Desktop Client Compatibility

Third Party Components	Supported Version	Notes
Oracle JRE		Oracle has ended support for Java applets in a browser. The latest versions of the IBM TRIRIGA applications include HTML 5 Perceptive applications for stacking and work planner that replaced corresponding Java applets. See IBM TRIRIGA Connector for BIM and IBM TRIRIGA CAD Integrator / Publisher sections for their related Oracle JRE requirements.
Microsoft Excel Formats	.xls, .xlsx, .xlsm	Excel sheets that are saved in Microsoft Excel formatting are required if you use IBM TRIRIGA Offline forms. See the TRIRIGA offline documentation for information on supported formulas.

Third Party Components	Supported Version	Notes
Microsoft Project	2016, 2013	Used to import tasks into and export tasks from a Gantt section. TRIRIGA supports importing .mpp, .mpx, and .xml files. TRIRIGA supports exporting .mpx and .xml files. MPX, Microsoft Project File Exchange Format, is a file format developed by Microsoft for sharing project data with other project management applications. Microsoft discontinued the ability to save in the MPX format with Microsoft Project 2000, but the ability to read .mpx files was supported through Microsoft Project 2013. The MPX format is not supported in Microsoft Project 2016. MPP is Microsoft's proprietary format and is not supported for export by TRIRIGA. XML, Extensible Markup Language, is Microsoft's only supported method for interchanging project data with other project management applications.
Microsoft Internet Explorer	11	Effective January 14, 2020, Microsoft ends support for Windows 7. IBM TRIRIGA will no longer support Internet Explorer 11 on any IBM TRIRIGA versions, releases, modifications, or fix packs released on or after that date. Internet Explorer 11 support will continue on IBM TRIRIGA versions, releases, modifications, and fix packs released before January 14, 2020. With Windows 10, Microsoft Edge is included and is considered an Evergreen Browser with support for modern web technologies. Internet Explorer does not support new technologies that IBM TRIRIGA plans to adopt in future releases. For more information, see https://support.microsoft.com/en-us/help/17454/lifecycle-faq-internet-explorer and https://techcommunity.microsoft.com/t5/Windows-IT-Pro-Blog/The-perils-of-using-Internet-Explorer-as-your-default-browser/.
Microsoft Edge	42	These versions are the minimum versions that are supported for each browser. IBM TRIRIGA will support future versions of a vendor's browser if the vendor does not remove, or explicitly or inadvertently disable, functionality that IBM TRIRIGA products rely on. Although future versions are supported, any issue that is introduced as a result of a browser upgrade may require an IBM TRIRIGA Platform fix pack or IBM TRIRIGA Platform upgrade to be fully supported.
Mozilla Firefox	ESR 60	
Apple Safari	12.0, 11.1	Platform features that rely on applet technology will not work on browsers that do not support NPAPI plugins. Review the Java Applet Support wiki for more details on these features and affected browsers.
Google Chrome	75	For IBM TRIRIGA UX Framework and Perceptive Applications support requirements, see the IBM TRIRIGA UX Framework and Perceptive Applications section.
Microsoft Windows	10, 7	Minimum hardware requirements: 2 GHz CPU, 4 GB RAM, 100 Mbps NIC, 1280x1024 resolution Effective January 14, 2020, Microsoft ends support for Windows 7. IBM TRIRIGA will no longer support Windows 7 on any TRIRIGA versions, releases, modifications, or fix packs released on or after that date. Windows 7 support will continue on TRIRIGA versions, releases, modifications, and fix packs released before January 14, 2020. For more information, see https://www.microsoft.com/en-us/microsoft-365/windows/end-of-windows-7-support. For information about Microsoft's support for Windows 10, see https://support.microsoft.com/en-us/help/13853/windows-lifecycle-fact-sheet.
macOS	10.14, 10.13	Minimum hardware requirements: 2 GHz CPU, 4 GB RAM, 100 Mbps NIC, 1280x1024 resolution CAD Integrator and the Workplace Reservation Manager Outlook Add-in are not supported on macOS.
BIRT Report Designer	4.6	Required for BIRT Report development. Requires Java 8.

IBM TRIRIGA UX Framework and Perceptive Applications

Operating Systems / Browsers	Minimum Version Supported	Notes
Apple iOS (Safari, Chrome)	12.1, 11.4	Applications that are built on the IBM TRIRIGA UX Framework, including IBM TRIRIGA Perceptive Applications, support the minimum versions of the operating systems shown. For desktop support requirements, see the Desktop Client Compatibility section.

IBM TRIRIGA supports the UX Framework components that TRIRIGA delivers and documents on the component documentation page. Code added around components supplied by TRIRIGA, such as HTML, JavaScript, or third-party code, is the responsibility of the developer. |
Google Android (Chrome)	9, 8, 7	IBM TRIRIGA will support future versions of a vendor's operating system or browser if the vendor does not remove, or explicitly or inadvertently disable, functionality that IBM TRIRIGA products rely on. Although future device operating system and browser versions are supported, any issue that is introduced as a result of an upgrade to those areas might require an IBM TRIRIGA fix pack or IBM TRIRIGA Platform upgrade to be fully supported.
macOS (Safari, Chrome)	10.14, 10.13	For requirements specific to delivered Perceptive Applications built on the UX Framework, including page orientation and resolution, see the documentation for that application. For information about offline support, see the bottom of this wiki page.
Microsoft Windows tablet (Edge, Chrome)	10	IBM TRIRIGA UX components are available in Polymer version 3.1.0 and Polymer version 1.6.1. The as-delivered IBM TRIRIGA UX Applications are rendered with Polymer version 3.1.0 and Polymer version 1.6.1. For Polymer version 3.1.0, elements and components from the Polymer Catalog, such as iron and paper, are the most current versions as of February 20, 2019. For Polymer version 1.6.1, elements and components from the Polymer Catalog, such as iron, paper, gold, and platinum, are the most current versions as of October 20, 2016.
Microsoft Windows laptop/desktop (Edge, Chrome, Firefox)	10	Applications that are written on the IBM TRIRIGA UX Framework, including Perceptive Applications, might need to be updated to support the version of Polymer delivered with the IBM TRIRIGA Application Platform.

For information about Microsoft's support for Windows 10, see https://support.microsoft.com/en-us/help/13853/windows-lifecycle-fact-sheet. |
Microsoft Edge	44	These versions are the minimum versions that are supported for each browser. IBM TRIRIGA will support future versions of a vendor's browser if the vendor does not remove, or explicitly or inadvertently disable, functionality that IBM TRIRIGA products rely on. Although future versions are supported, any issue that is introduced as a result of a browser upgrade might require an IBM TRIRIGA Platform fix pack or IBM TRIRIGA Platform upgrade to be fully supported.
Mozilla Firefox	ESR 60	
Apple Safari	12.0, 11.1	IBM TRIRIGA Perceptive Applications require the support of modern web specifications to function optimally. Only evergreen browsers (Chrome, Firefox, Edge, and Safari) are supported when using Perceptive Applications or creating custom views in the IBM TRIRIGA UX Framework. Internet Explorer 11 is not supported.
Google Chrome	72	

IBM TRIRIGA CAD Integrator / Publisher

IBM TRIRIGA CAD Integrator/Publisher supports native, Basic, and NTLM technologies for providing user authentication. It does not support such technologies as SAML, OAUTH, or other Single Sign On (SSO) solutions. For more information, see Requirements and limitations for single sign-on requests in the TRIRIGA Application Platform.

	Supported Version	Notes
IBM TRIRIGA CAD Integrator / Publisher	12.6.0.1	Prior to installing IBM TRIRIGA CAD Integrator/Publisher, install Microsoft Visual C++ 2010 Redistributable Package (x86) on each workstation. Installation requires full administrator access. 64-bit operating system is required (such as Microsoft Windows 10, 64-bit). Oracle Java 8 update 141 or higher required. Future Oracle Java updates are supported but might require a fix pack.
Autodesk AutoCAD, Autodesk AutoCAD Architecture	2020, 2019, 2018	8 GB RAM recommended. AutoCAD requires a 64-bit JRE.
Bentley MicroStation	V8i (SELECTseries 10, 4)	8 GB RAM recommended. For large drawings, 16 GB RAM recommended. All operating systems require both a 32-bit JRE and a 64-bit JRE, and Microsoft .Net 3.5 SP1. Effective January 1, 2020, Bentley ends support for Microstation V8i SELECTseries versions prior to 10. IBM TRIRIGA will no longer support V8i SELECTseries versions prior to 10 effective January 1, 2020. For more information, see https://www.bentley.com/en/desktop-applications.

IBM TRIRIGA Connector for BIM

IBM TRIRIGA Connector for BIM supports native, Basic, and NTLM technologies for providing user authentication. It does not support such technologies as SAML, OAUTH, or other Single Sign On (SSO) solutions. For more information, see Requirements and limitations for single sign-on requests in the TRIRIGA Application Platform.

	Supported Version	Notes
IBM TRIRIGA Connector for BIM	3.6.0	Requires IBM TRIRIGA Application Platform version 3.6.0.5 and IBM TRIRIGA version 10.5.0 or later. For detailed information about BIM Connector 3.6.0, see the IBM TRIRIGA Building Information Models (BIM) User's Guide: BIM Connector 3.6.0 available from Developer works. For changes specific to BIM Connector 3.6.0 see the "IBM TRIRIGA Release Notes for 10.6.0.52 Connector for BIM 3.6.0 and 2.6.0.3" link on the Release Notes wiki .
IBM TRIRIGA Connector for BIM	2.6.0.3	Requires IBM TRIRIGA Application Platform version 3.5.3.5 and later and IBM TRIRIGA version 10.5.0 and later. IBM TRIRIGA Connector for BIM requires Java 8 64-bit JRE for installation. For detailed information about BIM Connector 2.6.0.3, see the IBM TRIRIGA Building Information Models (BIM) User's Guide: BIM Connector 2.6.0 available from Developer works. See the 3.6.0 Release Notes for known limitations for the IBM TRIRIGA Connector for BIM 2.6.0. For changes specific to BIM Connector 2.6.0.3 see the "IBM TRIRIGA Release Notes for 10.6.0.52 Connector for BIM 3.6.0 and 2.6.0.3" link on the Release Notes wiki .

| Autodesk Revit | 2020, 2019, 2018 | Supported by IBM TRIRIGA Connector for BIM 3.6.0 |
| | 2019, 2018, 2017 | Supported by IBM TRIRIGA Connector for BIM 2.6.0.3 |

IBM TRIRIGA Workplace Reservation Manager Outlook

IBM TRIRIGA Workplace Reservation Manager Outlook supports native, Basic, and NTLM technologies for providing user authentication. It does not support such technologies as SAML, OAUTH, or other Single Sign On (SSO) solutions. For more information, see Requirements and limitations for single sign-on requests in the TRIRIGA Application Platform.

Supported Outlook Version	Supported IBM Outlook Plugin Version	Notes
Outlook 2016 Office application running on Microsoft Windows	1.3.6	IBM TRIRIGA Workplace Reservation Manager Add-in integration with Outlook requires the following prerequisite software: ▪ Microsoft .NET Framework 4.5 (x86 or x64) ▪ Microsoft Visual Studio 2010 Tools for Office Runtime version 10.0.40820 or later (x86 or x64) Only supported on Windows 10 and Windows 8. Internet Explorer 11 is required on the client machine for the Outlook Add-in to display the Reserve tab. The prerequisite software can be downloaded from the Microsoft Download Center website: http://www.microsoft.com/en-us/download/default.aspx For more information, search *Integrating IBM TRIRIGA with Microsoft Exchange* in the IBM Knowledge Center. Microsoft Exchange support TRIRIGA supports connections to Microsoft Exchange for synchronizing meeting room requests and free/busy information. Supported versions of Exchange include Microsoft Office 365 for Enterprise Exchange and Microsoft Exchange Server 2016. Note that Office 365 Enterprise support refers to support for the TRIRIGA connections to the Exchange server; it does not refer to the Office 365 "Office Online" Outlook web app.

IBM Tivoli Directory Integrator

	Supported Version	Notes
IBM Tivoli Directory Integrator		The IBM Tivoli Directory Integrator installer must be set to Windows 7 compatibility mode to install properly. Effective April 30, 2019, IBM no longer supports IBM Tivoli Directory Integrator. While TRIRIGA Application Platform version 3.6.0 will work with TDI 7.1.1, TDI is not supported after April 30, 2019. Migrate your TDI assemblies to a supported technology, such as Pentaho. In a future release, the IBM TRIRIGA Application Platform will no longer ship with, support, or execute TDI assemblies.

IBM TRIRIGA Application Platform 3.6.0 Connectors

IBM TRIRIGA supports connections to these third party systems. For support of the third party itself, contact the vendor directly.

	Supported Version	Notes
Esri ArcGIS Server	10.3	See the 3.6.0 Release Notes for information on upgrading to the JavaScript Esri viewer for ArcGIS.
Esri ArcGIS API for JavaScript	3.17	
ENERGY STAR Portfolio Manager	7	The ENERGY STAR Portfolio Manager Web Services API is used for the IBM TRIRIGA Connector for Energy Star Benchmarking. ENERGY STAR Portfolio Manager Web Services release notes can be found at the following URL: Release Notes
IBM TRIRIGA Custom Class Loader	3.6.0	Integrations written for IBM TRIRIGA Custom Class Loader must be compatible with Oracle Java 8.
IBM TRIRIGA Connector for Business Applications	3.6.0	Integrations built for IBM TRIRIGA Connector for Business Applications must be compatible with Apache CXF 3.1.16 web service framework. More information about Apache CXF can be found at the following URL: Apache CXF IBM TRIRIGA Connector for Business Applications documentation can found at the following URL: CBA documentation

IBM TRIRIGA CMIS

	Supported Version	Notes
CMIS	1.1	IBM TRIRIGA can be configured to store documents in Enterprise Content Management systems that support the CMIS (Content Management Interoperability Services) ECM gateway Version 1.1 of the CMIS standard, as established by OASIS. These gateways are specific to the vendor of your particular ECM and should be installed accordingly if one does not already exist in your organization.

IBM TRIRIGA Anywhere

Effective April 30, 2020, IBM no longer supports IBM TRIRIGA Anywhere. While TRIRIGA Application Platform version 3.6.0 will work with IBM TRIRIGA Anywhere, IBM TRIRIGA Anywhere is not supported after April 30, 2020.

	Supported Version	Notes
IBM TRIRIGA Anywhere	10.4.3	See IBM.com for a product overview of IBM TRIRIGA Anywhere including how to install and configure.

Web Server / Third Party Server Compatibility

IBM TRIRIGA Application Platform supports the connection to these third-party systems. For support of the third party itself, contact the vendor directly. IBM has tested a number of configurations with the web servers listed and has confirmed that they are compatible with TRIRIGA as configured in our lab; however, configuration of web servers or third-party products is the responsibility of client IT teams. Technologies such as secure protocols (SSL), Single Sign On (SSO), firewalls, certificates and network configurations can have downstream impact on the TRIRIGA environment when misconfigured. IBM cannot support the configuration of these other technologies and might recommend the engagement of a services team.

		Supported Version	Notes
Virtualization Technologies	VMware ESXi Server, IBM SoftLayer, KVM, AWS EC2		The virtualization technologies listed are tested. IBM TRIRIGA might be compatible with other virtualization technologies that are compatible with the IBM TRIRIGA Application Platform supported operating systems. Issues that are found only occurring on virtualization technologies would require support tickets opened with the virtualization support vendor. Database virtualization is not recommended. If virtualization of databases is unavoidable, dedicated fast storage for the database data files must still be used, with hard performance data supplied from the virtualization technology that is used to rule out that layer.
Third Party Components	Open text Brava! for IBM Solutions	16.02 Enterprise	
	Mail (Incoming and Outgoing)		SMTP is used for outbound email. The incoming mail agent can be configured for use with IMAP, IMAPS, POP3, POP3S.
	SAP Crystal Server	2016	Only supported when run on Windows and Linux operating systems.
Single Sign On	HTTP Header		IBM TRIRIGA is compatible with Single Sign On (SSO) when SSO has been configured properly. After TRIRIGA properties are enabled for SSO, TRIRIGA authentication trusts tokens that are provided by properly configured application servers with SSO. TRIRIGA Support can assist with configuring TRIRIGA properties for SSO, but, due to the number of possible configurations and supported products/technologies, TRIRIGA Support cannot assist in the configuration of SSO with application servers. For more information refer to Requirements and limitations for single sign-on requests in the TRIRIGA Application Platform.
	Remote User		
	User Principal		In this document, Single Sign On (SSO) refers to the ability to have a single set of credentials that use a directory server for multiple applications. By definition, SSO is not the same as Seamless Sign On, which may not challenge a user for credentials during the access process.

IBM TRIRIGA Application Platform 3.6.0 Test Floor Configurations

The following operating system and application server configurations were used in IBM TRIRIGA Application Platform 3.6.0 certification efforts.

	Supported Version	Operating Systems		
		Windows Server 2016, 2012	CentOS 7	AIX 7.1
IBM WebSphere Application Server Liberty profile	17.0.0.2	✓	✓	✓
Oracle WebLogic Server	12c (12.2.1.3)	✓	✓	
IBM WebSphere Application Server	9.0.0.7	✓	✓	✓