

ARIS SYSTEM REQUIREMENTS

VERSION 10.0 - SERVICE RELEASE 27
OCTOBER 2024

This document applies to ARIS Version 10.0 and to all subsequent releases.

Specifications contained herein are subject to change and these changes will be reported in subsequent release notes or new editions.

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Supported Server Operating System Platforms										
Operating System (1) (only 64 bit) (3)			Windows Server 2019	Windows Server 2022	Windows Server 2025	Linux RedHat ES 8.x (4)	Linux RedHat ES 9.x (5)	Linux CentOS 7.x	SUSE Linux ES 12 SP5	SUSE Linux ES 15
ARIS Connect Server	10.0	YCS	✓	✓	--- (2)	✓	✓	--- (6)	--- (7)	✓
Process Extractor for ARIS Process Mining SaaS (8)	10.0	YMS	✓	✓	--- (2)	✓	✓	--- (6)	--- (7)	✓
ARIS Risk and Compliance Manager	10.0	YRC	✓	✓	--- (2)	✓	✓	--- (6)	--- (7)	---

Legend	
✓	Supported / Released
---	Not supported / Not released / Not planned
1	Including all manufacturer's service packs & updates
2	Planned for next Release
3	x86_64 platforms
4	Tested with Linux RedHat ES 8.5
5	Tested with Linux RedHat ES 9.0
6	Support ended June 30, 2024. We recommend to use other Linux versions. Rockylinux / Almalinux 8/9 can now be used as installation platform for Linux Server operating systems because they are binary compatible with RHEL but are not officially supported.
7	General end of SUSE Linux ES 12 SP5 is announced for October 2024. We recommend to use ES 15.
8	Process Extractor for ARIS Process Mining SaaS supports SAP Systems with SAP BASIS component >= 700 or S/4HANA Requires SAP connector >=JCO 3.1

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Supported Client Operating System Platforms										
Operating System (1) (only 64 bit) (4)			Windows 10 (Prof., Ent.)	Windows 11	Windows Server 2019	Windows Server 2022	Windows Server 2025	Linux RedHat ES 8.x / 9.x	SUSE Linux ES 12 / ES 15	macOS 12 (Monterey) / macOS 13 (Ventura)
ARIS Designer (6)	10.0	YAD	✓	✓	✓	✓	--- (2)	---	---	---
ARIS Architect (6)	10.0	YAA	✓	✓	✓	✓	--- (2)	---	---	---
UML Designer (6)	10.0	YUD	✓	✓	✓	✓	--- (2)	---	---	---
ARIS Connect Viewer (5) (6)	10.0	YCSCC	✓	✓	✓	✓	--- (2)	---	---	✓ (3)
ARIS Connect Designer (5) (6)	10.0	YCSDC	✓	✓	✓	✓	--- (2)	---	---	✓ (3)

Legend	
✓	Supported / Released
---	Not supported / Not released / Not planned
1	Including all manufacturer's service packs & updates
2	Planned for next Release
3	Tested with MacBook Pro
4	x86_64 platforms
5	Supported minimal resolution size: 1152 x Y or higher
6	To increase ARIS security, the TLS 1.0 protocol is not supported. TLS 1.2 is supported.

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Supported Database Systems								
Database System (1)			Standard database system	Oracle 12.2	Oracle 19.x	MS SQL Server 2017	MS SQL Server 2019	MS SQL Server 2022
ARIS Connect Server	10.0	YCS	✓ (3)	✓ (5)	✓ (6)	✓ (7)	✓ (8)	✓ (8)
ARIS Risk and Compliance Manager	10.0	YRC	✓ (3)	✓ (5)	✓ (6)	✓ (7)	✓ (8)	✓ (8)

Legend	
✓	Supported / Released
---	Not supported / Not released / Not planned
1	Including all manufacturer's service packs & updates
2	Planned for next Release
3	Only for demo scenarios or small number of users
4	Installation only with support from Software GmbH
5	Support ended May 31, 2022. We recommend to use Oracle 19.x
6	Supported JDBC driver: 19.6.0.0 and higher.
7	Mainstream support ended October 11, 2022. We recommend to use MS SQL Server 2019 or 2022.
8	Supported JDBC driver: 9.2.1 and higher. SQL Server Standard and Enterprise Editions are supported.

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Supported Web Browser & JAVA version												
Web Browser (1)			Microsoft Edge (7)	Google Chrome (8)	Safari 15 or higher	Firefox			JAVA version (64-bit) (4)	Java 8.x (5)	Java 11.x	Java 17.x (6)
ARIS Designer	10.0	YAD	✓	✓	---	---				✓ (3)	✓ (3)	✓ (3)
ARIS Architect	10.0	YAA	✓	✓	---	---				✓ (3)	✓ (3)	✓ (3)
UML Designer	10.0	YUD	✓	✓	---	---				✓ (3)	✓ (3)	✓ (3)
ARIS Connect Viewer	10.0	YCSCC	✓	✓	✓	---				n.a.	n.a.	n.a.
ARIS Connect Designer	10.0	YCSDC	✓	✓	✓	---				n.a.	n.a.	n.a.
ARIS Risk and Compliance Manager	10.0	YRC	✓	✓	---	---				n.a.	n.a.	n.a.

Legend	
✓	Supported / Released
---	Not supported / Not released / Not planned
n.a.	Not applicable
1	Including all manufacturer's service packs & updates
2	Planned for next Release
3	The download clients use Java 17 per default. The download can also be started using Java 8 or Java 11, but in that case, a JRE 17 is downloaded into the user's profile and used to start the ARIS client.
4	All download clients of all ARIS product editions since SR24 require a local 64-bit Java runtime environment (JRE) to be installed and will no longer work with a local 32-bit JRE. The reason has been a technology change in Java that forced us to do this step. Please make sure that you have a 64-bit JRE installed.
5	Minimum version for Java 8.x: 8u341
6	After upgrade of JRE to 17, Triple-DES (3DES) and RC4 won't be supported encryption types for Kerberos. Under some circumstances the older hardware is not compatible with the used JRE17 and ARIS can not be installed. In such cases we recommend to use more recent hardware.
7	Chromium-based version 128 or higher is recommended.
8	Google Chrome 129 or higher is recommended.

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Supported Mobile Platforms												
Mobile OS (1)			iOS 14.x	iOS 15.x	Android 10							
ARIS Connect Viewer	10.0	YCSCC	✓	✓	✓							

Tested Mobile Devices			iPad 9 th gen (3)	iPhone								
ARIS Connect Viewer	10.0	YCSCC	✓	--								

Legend	
✓	Supported / Released
---	Not supported / Not released / Not planned
1	Including all manufacturer's service packs & updates
2	Planned for next Release
3	Tested with iPad 9th generation (2022)

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Supported LDAP systems

Other LDAP systems have to be configured by Software GmbH Global Consulting Services (GCS).

LDAP system (1)			Active Directory Domain Services Windows 2019 Server	Active Directory Domain Services Windows 2022 Server	Net IQ eDirectory 8.8 SP8	Oracle Directory Server Enterprise Edition 11g	IBM Tivoli Directory Server 6.1						
ARIS Connect Server	10.0	YCS	✓	✓	✓	✓	✓						
ARIS Risk and Compliance Manager	10.0	YRC	✓	✓	✓	✓	✓						

Legend

✓	Supported / Released
---	Not supported / Not released / Not planned
1	Including all manufacturer's service packs & updates
2	Planned for next Release

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Supported Single Sign-On Technologie										
Single Sign-On (1, 3)			Kerberos	SAML 2.0 (4)						
ARIS Designer	10.0	YAD	✓	✓						
ARIS Architect	10.0	YAA	✓	✓						
UML Designer	10.0	YUD	✓	---						
ARIS Connect Viewer	10.0	YCSCC	✓	✓						
ARIS Connect Designer	10.0	YCSDC	✓	✓						
ARIS Risk and Compliance Manager	10.0	YRC	✓	✓						

Legend	
✓	Supported / Released
---	Not supported / Not released / Not planned
1	Including all manufacturer's service packs & updates
2	Planned for next Release
3	<p>Since ARIS 10 SR24 the download clients in the public cloud ARIS product editions (including ARIS Advanced) will by default provide single sign on. This means that the downloaded client will automatically work with the login from the portal and no login in the client itself is required any more. This has been necessary to ensure that the login to the download client also works, when SCIM/SSO is used.</p> <p>This improvement leads to the following change: If you want to start the download client (for example ARIS Advanced Architect or ARIS Administration client), you at first need to go to the Portal and press the download button to get a fresh download jar from the ARIS server. You can use this download jar only one time as it is only valid for a certain time period. Only this rather small download jar has to be downloaded every time. The respective ARIS client itself is not downloaded again.</p> <p>Further improvements that come with this change is an increased security for the download client usage:</p> <ul style="list-style-type: none"> - No user credentials are stored on your local machine anymore. - It reduces the risk that an attacker could steal your client session.
4	For more details see "ARIS SSO, LDAP, KERBEROS, SAML, SCIM" section of the ARIS Technical Help.

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Supported External Systems											
External System (1) (3)			Microsoft SharePoint 2019	Microsoft SharePoint Online		Matomo					
ARIS Connect Server	10.0	YCS	✓	✓		✓ (4)					

Legend	
✓	Supported / Released
---	Not supported / Not released / Not planned
1	Including all manufacturer's service packs & updates
2	Planned for next Release
3	Provided by the SharePoint Adapter for ARIS (SAA). Requires additional license.
4	Tested with version 4.15.1

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ARIS Compatibility with other Software GmbH Products											
Software GmbH Products	Alfabet 10.0	API Portal 10.0	ARIS 10.0	ARIS Process Performance Manager 10.5	ARIS Risk and Compliance Manager 10.0	CentraSite / webMethods 9.8	CentraSite / webMethods 9.9	CentraSite / webMethods 9.10	CentraSite / webMethods 9.12	CentraSite / webMethods 10.x	MashZone NextGen 10.15
ARIS 10.0	✓	✓		✓ (4)	✓	✓ (1)	✓ (1)	✓ (1)	✓ (1,3)	✓	---
ARIS Process Performance Manager 10.5	---	---	✓		---	---	---	---	---	---	✓ (5)
ARIS Risk and Compliance Manager 10.0	---	---	✓	---		---	---	---	---	---	✓

Legend	
✓	Supported / Released
---	Not supported / Not released / Not planned
1	M2E Use case
2	Planned for next Release
3	Support of REST service in service request szenario between ARIS and CentraSite
4	Compatible with ARIS 10.0 SR13 and higher for full functionality
5	Compatible with PPM 10.5.2 and higher for full functionality

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Languages			Arabic	Chinese (Simplified Chinese)	Czech	Danish	Dutch	English	French	German	Hungarian	Korean	Italian	Japanese	Polish	Portuguese (Brazilian Portuguese)	Russian	Spanish	Swedish	Turkish
ARIS Connect Server	10.0	YCS	✓ (1)	✓ (1)	✓ (1)	---	✓ (1)	✓	✓	✓	✓ (1)	✓ (1)	✓ (1)	✓	✓ (1)	✓ (1)	✓ (1)	✓ (1)	---	✓ (1)
ARIS Viewer	10.0	YBU	✓ (1)	✓ (1)	✓ (1)	---	✓ (1)	✓	✓	✓	✓ (1)	✓ (1)	✓ (1)	✓	✓ (1)	✓ (1)	✓ (1)	✓ (1)	---	✓ (1)
ARIS Designer	10.0	YAD	✓ (1)	✓ (1)	✓ (1)	---	✓ (1)	✓	✓	✓	✓ (1)	✓ (1)	✓ (1)	✓	✓ (1)	✓ (1)	✓ (1)	✓ (1)	---	✓ (1)
ARIS Architect	10.0	YAA	✓ (1)	✓ (1)	✓ (1)	---	✓ (1)	✓	✓	✓	✓ (1)	✓ (1)	✓ (1)	✓	✓ (1)	✓ (1)	✓ (1)	✓ (1)	---	✓ (1)
UML Designer	10.0	YUD	✓ (1)	✓ (1)	✓ (1)	---	✓ (1)	✓	✓	✓	✓ (1)	✓ (1)	✓ (1)	✓	✓ (1)	✓ (1)	✓ (1)	✓ (1)	---	✓ (1)
ARIS Connect Viewer	10.0	YSCC	✓ (1)	✓ (1)	✓ (1)	✓ (1)	✓ (1)	✓	✓	✓	✓ (1)	✓ (1)	✓ (1)	✓	✓ (1)	✓ (1)	✓ (1)	✓ (1)	✓ (1)	✓ (1)
ARIS Connect Designer	10.0	YSCDC	✓ (1)	✓ (1)	✓ (1)	✓ (1)	✓ (1)	✓	✓	✓	✓ (1)	✓ (1)	✓ (1)	✓	✓ (1)	✓ (1)	✓ (1)	✓ (1)	✓ (1)	✓ (1)
Process Extractor for ARIS Process Mining SaaS	10.0	YMS	---	---	---	---	---	✓	---	---	---	---	---	---	---	---	---	---	---	---
ARIS Risk and Compliance Manager	10.0	YRC	✓ (1,3)	✓ (1)	---	---	---	✓	✓	✓	✓ (1)	---	✓ (1)	✓	---	✓ (1)	---	✓	---	---

Legend	
✓	Supported / Released
---	Not supported / Not released / Not planned
1	Documentation and online help in English
2	Planned for next Release
3	No RTL layout, translation only

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Recommended Hardware			
Scenario	# Conc. Users	Single Server	Distributed / Fail safe
Recommended Hardware Configuration ARIS Connect Server (without Dashboarding)			
Demo scenario	only for demo	7 GB (free RAM) / 6 CPU Cores >= 50GB free HD Space	
Medium	1-50	24 GB (free RAM) / 12 CPU Cores >= 100GB free HD Space (2)	
Large (Oracle or MS SQL recommended)	50-200	36 GB (free RAM) / >= 16 CPU Cores >= 200GB free HD Space (2)	(Individual) Configuration (1)
XL, XXL, ... (Custom) (only with Oracle or MS SQL)	>200	(Individual) Configuration (1)	
Recommended Hardware Configuration ARIS Connect Server (with Dashboarding)			
Demo scenario	only for demo	8 GB (free RAM) / 6 CPU Cores >= 50GB free HD Space	
Medium	1-50	28 GB (free RAM) / 12 CPU Cores >= 100GB free HD Space (2)	
Large (Oracle or MS SQL recommended)	50-200	44 GB (free RAM) / >= 16 CPU Cores >= 200GB free HD Space (2)	(Individual) Configuration (1)
XL, XXL, ... (Custom) (only with Oracle or MS SQL)	>200	(Individual) Configuration (1)	
Recommended Hardware Configuration ARIS Connect Server (with ARIS Risk and Compliancer Manager without ARIS Aware)			
Demo scenario	only for demo	9 GB (free RAM) / 8 CPU Cores >= 50GB free HD Space	
Medium	1-50	28 GB (free RAM) / 16 CPU Cores >= 100GB free HD Space (2)	
Large (Oracle or MS SQL recommended)	50-200	44 GB (free RAM) / >= 24 CPU Cores >= 200GB free HD Space (2)	(Individual) Configuration (1)
XL, XXL, ... (Custom) (only with Oracle or MS SQL)	>200	(Individual) Configuration (1)	
Recommended Hardware Configuration ARIS Connect Server (with ARIS Risk and Compliancer Manager & ARIS Aware)			
Demo scenario	only for demo	10 GB (free RAM) / 8 CPU Cores >= 50GB free HD Space	
Medium	1-50	32 GB (free RAM) / 16 CPU Cores >= 100GB free HD Space (2)	
Large (Oracle or MS SQL recommended)	50-200	52 GB (free RAM) / >= 24 CPU Cores >= 200GB free HD Space (2)	(Individual) Configuration (1)
XL, XXL, ... (Custom) (only with Oracle or MS SQL)	>200	(Individual) Configuration (1)	
Recommended Hardware Configuration Database Server (Oracle or MS SQL)			
Large (Oracle or MS SQL recommended)	50-200	64 GB (free RAM) / >= 24 CPU Cores >= 1TB free HD Space (2)	(Individual) Configuration (1)
XL, XXL, ... (Custom) (only with Oracle or MS SQL)	>200	(Individual) Configuration (1)	
Recommended Hardware Configuration ARIS Clients			
Scenario	# Users	Hardware	Network
ARIS Client	1	4 CPU Cores / 4GB (free RAM) >= 2GB free HD Space	Recommended bandwidth: >100 Mbit/s Lower bandwidths can result in reduced performance. Recommended latency: <150ms Higher latency can result in reduced performance.
(1) Please contact ARIS Support			
(2) We recommend this disc space for a new installation. For an update, we recommend more free HD space (at least 100GB plus size of current work space). We recommend to use SSD (> 5.000 IOPS) for best performance.			
(free RAM) This is the memory required for ARIS itself. Additional memory for the operating system or other applications must be added.			
Software GmbH recommends to install ARIS 10.0 not on the same host together with ARIS 9.x. Due to additional functionality, hardware requirements are higher as ARIS 9.8.			
Software GmbH recommends to monitor utilization (of RAM & CPU Cores) in productive environment. Due to the number of users / databases, complexity of databases and other influencing factors, hardware recommendation could be higher. Software GmbH recommends to run ARIS on dedicated hardware (no other application systems than ARIS on the same host).			
The database server (MSSQL/Oracle) must be installed, configured and sized according to the manufacturer's instructions. To avoid performance issues, the following is recommended:			
<ul style="list-style-type: none"> - A dedicated Oracle database instance should be provided to host ARIS data only - ARIS Servers and the DBMS server should be on different hosts - The DBMS server should be on a physical host - ARIS servers and the DBMS server have to be connected with a high performance network (> 1Gbit/s, very low latency). Network bandwidth and latency should be monitored and have to be ensured at all times, independent from the load on the ARIS servers or other systems that might share the same network connection. 			
Concerning the sizing of an Oracle database server we recommend to set the memory_target to a minimum value of 4 GB or 10% of the total size of all segments in all schemas, whichever is higher.			
Concerning the sizing of a SQL Server instance we recommend to set the "max server memory (MB)" parameter to a minimum of 4000 or 10% of the space that is used in the SQL Server database for ARIS, whichever is higher. In case the SQL server is not dedicated to host only ARIS as application, the value has to be increased in the respective sense.			

Virtual Machine Support

Software GmbH provides for all its software the definitions of supported, documented platform configurations (referred to here just as 'supported platform') which will include specific Operating System (OS) and hardware configurations, and may include Java Virtual Machine (JVM) and database versions. Customers can use a commercially available virtualization environment for a Software GmbH production environment if it accurately and completely emulates one of the supported platforms.

Customers who use virtual environments are required to comply fully with their contractual terms and conditions for licensing.

Software GmbH tests its software for operation on the supported platforms and not specifically against all possible combinations of hardware that might be comprised that operating system (for example, file system, disk controllers, memory configuration, display devices and so on). Therefore, the correct expertise, provision and management of a hardware configuration to support the platform remain the responsibility of our customers, whether directly using physical hardware or a virtualization environment. Software GmbH recommends physical hardware or, if ARIS products are used in a virtual environment, sufficient resources must be available in order to avoid the risk of overbooking.

Software GmbH tests and supports certain products on the specific virtualized environments listed in the system requirements section of the product documentation. Customers can use a different virtualized environment that accurately and completely emulates one of the supported platforms; however, if they encounter an issue that Software GmbH judges might be caused by the virtualized environment, then the customer is responsible for reproducing the issue on an actual supported platform before further analysis can take place. Software GmbH Global Support will refer customers to the Global Consulting Services group for guidance or recommendation about the use of virtualization software, or, if required, the best approaches for copying a system to a supported platform.

Legal information

Data protection

Software AG products provide functionality with respect to processing of personal data according to the EU General Data Protection Regulation (GDPR).

Where applicable, appropriate steps are documented in the respective administration documentation.

Restrictions

ARIS products are intended and developed for use by persons. Automated processes, such as the generation of content and the import of objects/artifacts via interfaces, can lead to an outsized amount of data, and their execution may exceed processing capacities and physical limits. For example, processing capacities are exceeded if models and diagrams transcend the size of the modeling area or an extremely high number of processing operations is started simultaneously. Physical limits may be exceeded if the memory available is not sufficient for the execution of operations or the storage of data.

Proper operation of ARIS products requires the availability of a reliable and fast network connection. Networks with insufficient response time will reduce system performance and may cause timeouts.

If ARIS products are used in a virtual environment, sufficient resources must be available there in order to avoid the risk of overbooking.

The system was tested using scenarios that included 100,000 groups (folders), 100,000 users, and 1,000,000 modeling artifacts. It supports a modeling area of 25 square meters.

If projects or repositories are larger than the maximum size allowed, a powerful functionality is available to break them down into smaller, more manageable parts.

Some restrictions may apply when working with process administration, ARIS Administration ARIS document storage, and ARIS Process Board, and when generating executable processes. Process Governance has been tested and approved for 1000 parallel process instances. However, the number may vary depending on process complexity, for example, if custom reports are integrated.

Versioning: Length of a changelist description is limited to 1000 chars.

'Export user statistics' procedure: Ensure that the maximum number of entries included do not exceed 500.000.

ARIS document storage was tested with 40.000 document items. This includes documents, document versions or folders. We recommend monitoring the number and overall size of stored document items and archiving some document items if needed.

Using software or hardware that directly creates, reads, updates, or deletes data in the underlying database systems or data storage services instead of using the officially documented application level APIs is not supported. It could lead to a loss of data, malfunction of the product, or data security breaches.

Web Application Firewall (WAF) with "blocking mode" is not officially supported.

Blocking mode means that the Web Application Firewall (WAF) is actively blocking traffic (from client to server), which means ARIS will not be working correctly anymore as only the whitelisted connections would be allowed. As a software vendor, we can't provide support here. We advise using the logging mode to identify valid requests and create the corresponding exceptions in the WAF.