



ARIS

Platform Matrix

This document applies to ARIS Version 9.8 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			Windows Server 2008 (64 bit)	Windows Server 2008 R2(64 bit)	Windows Server 2012 (64 bit)	Windows Server 2012 R2 (64 bit)	Windows Server 2016 (64 bit)	Windows 10 (64 bit)	Linux RedHat ES 6.4 (64bit) ... (6.5, 6.6, 6.7) Linux RedHat ES 6.8 (64bit)	Linux RedHat ES 7 (64bit) Linux RedHat ES 7.1 (64bit) Linux RedHat ES 7.2 (64bit)	SUSE Linux ES 11 SP2 (64 bit) SUSE Linux ES 11 SP3 (64 bit)	SUSE Linux ES 12 (64 bit)	Ubuntu 12.04.x LTS (64 bit) Ubuntu 14.04.x LTS (64 bit) Ubuntu 16.04.x LTS (64 bit)	Oracle Linux 6.x (64 bit) Oracle Linux 7.x (64 bit)	Hosted Software (Amazon EC2 with Windows / Linux)
ARIS Connect Server	9.8	YCS	✓ (1)	✓ (1)	✓ (1)	✓ (1)	--- (2)	✓ (1)	✓	✓	✓	✓	✓	---	✓
ARIS Design Server	9.8	YDS	✓ (1)	✓ (1)	✓ (1)	✓ (1)	--- (2)	✓ (1)	✓	✓	✓	✓	✓	---	✓
ARIS Publisher Server (3)	9.8	YPS	✓ (1)	✓ (1)	✓ (1)	✓ (1)	--- (2)	✓ (1)	✓	✓	---	---	✓	---	✓
ARIS Risk and Compliance Manager	9.8	YRC	✓ (1)	✓ (1)	✓ (1)	✓ (1)	--- (2)	✓ (1)	✓	---	---	---	---	---	---

Legend	
✓	Supported / Released
---	Not supported / Not released / Not planned
1	Including all manufacturer's service packs & updates
2	Planned for next Release (April 2017)
3	For ARIS Publisher Server you need a dedicated machine. ARIS Publisher Server cannot be installed on a machine that running ARIS Connect / Design Server. Please follow instructions in Installation guideline.

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Supported Client Operating System Platforms																				
Operating System			Windows 7 (Prof., Ult.) (32/64bit)	Windows 8 (32/64bit)	Windows 8.1 (32/64bit)	Windows 10 (Prof., Ent.) (64bit)	Windows Server 2008 (64 bit)	Windows Server 2008 R2 (64 bit)	Windows Server 2012 (64 bit)	Windows Server 2012 R2(64 bit)	Windows Server 2016 (64 bit)	Linux RedHat ES 6.4 (64bit) ... (6.5, 6.6, 6.7) Linux RedHat ES 6.8 (64bit)	Linux RedHat ES 7 (64bit) Linux RedHat ES 7.1 (64bit) Linux RedHat ES 7.2 (64bit)	SUSE Linux ES 11 SP2 (64 bit) SUSE Linux ES 11 SP3 (64 bit)	SUSE Linux ES 12 (64 bit)	Ubuntu 12.04.x LTS (64 bit) Ubuntu 14.04.x LTS (64 bit) Ubuntu 16.04.x LTS (64 bit)	Oracle Linux 6.x (64 bit) Oracle Linux 7.x (64 bit)	Hosted Software (Amazon EC2 with Windows)		
			ARIS Viewer (4) (6)	9.8	YBU	✓ (1)	✓ (1)	✓ (1)	✓ (1)	✓ (1)	✓ (1)	✓ (1)	--- (2)	✓	✓	✓	✓	✓	✓	✓
			ARIS Designer (3) (6)	9.8	YAD	✓ (1)(3)	✓ (1)(3)	✓ (1)(3)	✓ (1)	✓ (1)	✓ (1)	✓ (1)	✓ (1)	--- (2)	---	---	---	---	---	✓
			ARIS Architect (3) (6)	9.8	YAA	✓ (1)(3)	✓ (1)(3)	✓ (1)(3)	✓ (1)	✓ (1)	✓ (1)	✓ (1)	✓ (1)	--- (2)	---	---	---	---	---	✓
			UML Designer (6)	9.8	YUD	✓ (1)	✓ (1)	✓ (1)	✓ (1)	✓ (1)	✓ (1)	✓ (1)	✓ (1)	--- (2)	---	---	---	---	---	✓
			ARIS Connect Viewer (5) (6)	9.8	YCSCC	✓ (1)	✓ (1)	✓ (1)	✓ (1)	✓ (1)	✓ (1)	✓ (1)	✓ (1)	--- (2)	---	---	---	---	---	✓
			ARIS Connect Designer (5) (6)	9.8	YCSDC	✓ (1)	✓ (1)	✓ (1)	✓ (1)	✓ (1)	✓ (1)	✓ (1)	✓ (1)	--- (2)	---	---	---	---	---	✓
			ARIS Business Optimizer (6)	9.8	YBO	✓ (1)	✓ (1)	✓ (1)	✓ (1)	✓ (1)	✓ (1)	✓ (1)	✓ (1)	--- (2)	---	---	---	---	---	✓

Legend	
✓	Supported / Released
---	Not supported / Not released / Not planned
1	Including all manufacturer's service packs & updates
2	Planned for next Release (April 2017)
3	ARIS Client with LOCAL only under 64bit Windows
4	A single license to view ARIS repository contents on all information in ARIS Publisher, to access and maintain IT system attributes in ARIS IT Inventory, and to manage ARIS Process Governance tasks using a browser.
5	Supported minimal resolution size: 1152 x Y or higher
6	Please be aware the user interface will be hard to read in case you are using a very high screen resolution (e.g. 4k).

Windows 32-bit environment will not be supported with Software AG products:

Please be aware that we will no longer be supporting Windows 32-bit for all Software AG server and client products starting with new releases in 2016. This update will be made in the System Requirements document starting from the 2016 releases. Please note that all existing products with versions that haven't reached their End of Maintenance (EOM) stage will be supported on Windows 32-bit. In case you have further questions, please reach out to your Account Manager regarding this.

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Supported Database Systems													
Database System			Standard database system	Oracle 11.x	Oracle 12.x	MS SQL 2008 R2	MS SQL 2012	MS SQL 2014	MS SQL 2016	IBM DB2 UDB 9.x	IBM DB2 UDB 10.5	ADABAS for Open Systems	ADABASE for Mainframes
ARIS Connect Server	9.8	YCS	✓ (3)	✓	✓	✓	✓	✓	--- (2)	---	✓ (5)	---	---
ARIS Design Server	9.8	YDS	✓ (3)	✓	✓	✓	✓	✓	--- (2)	---	✓ (5)	---	---
ARIS Publisher Server	9.8	YPS	✓ (3)	✓	✓	✓	✓	✓	--- (2)	---	---	---	---
ARIS Risk and Compliance Manager	9.8	YRC	✓ (4)	---	✓	---	✓	✓	--- (2)	---	---	---	---

Legend	
✓	Supported / Released
---	Not supported / Not released / Not planned
1	Including all manufacturer's service packs & updates
2	Planned for next Release (April 2017)
3	Only for demo scenarios or small number of users
4	Only for demo scenarios. Not for production.
5	Installation only with support from Software AG

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Supported Web Browser													
Web Browser			Internet Explorer 8 (32bit)	Internet Explorer 9 (32bit)	Internet Explorer 10	Internet Explorer 11	Microsoft Edge	Firefox 38 or higher	Google Chrome 27 or higher	Safari 6 or higher			
ARIS Viewer	9.8	YBU	---	✓	✓	✓ (7)	✓	✓	✓	---			
ARIS Designer (4)	9.8	YAD	---	✓	✓	✓ (7)	✓	✓ (6)	✓ (6)	---			
ARIS Architect (4)	9.8	YAA	---	✓	✓	✓ (7)	✓	✓ (6)	✓ (6)	---			
UML Designer (4)	9.8	YUD	---	✓	✓	✓ (7)	✓	✓ (6)	✓ (6)	---			
ARIS Connect Viewer	9.8	YCSCC	---	✓	✓ (5)	✓ (5)(7)	✓	✓	✓	---			
ARIS Connect Designer	9.8	YCSDC	---	✓	✓ (5)	✓ (5)(7)	✓	✓	✓	---			
ARIS Business Optimizer (4)	9.8	YBO	---	✓	✓	✓ (7)	✓	✓ (6)	✓ (6)	---			
ARIS Publisher Server	9.8	YPS	---	✓	✓	✓ (7)	✓ (8)	✓	✓	---			
ARIS Risk and Compliance Manager	9.8	YRC	---	✓	✓	✓ (7)	✓	✓	✓	---			

Supported JAVA versions													
JAVA version			1.7.0.x	1.8.0.x									
ARIS Viewer	9.8	YBU	✓	✓									
ARIS Designer (4)	9.8	YAD	✓	✓									
ARIS Architect (4)	9.8	YAA	✓	✓									
UML Designer (4)	9.8	YUD	✓	✓									
ARIS Business Optimizer (4)	9.8	YBO	✓	✓									
ARIS Business Publisher	9.8	YPS	✓	✓									
ARIS Risk and Compliance Manager	9.8	YRC	✓	✓									

Legend	
✓	Supported / Released
---	Not supported / Not released / Not planned
1	Including all manufacturer's service packs & updates
2	Planned for next Release (April 2017)
3	Java VM is embedded and cannot be changed in this version.
4	Download client (only JRE 32-bit)
5	Connecting to ARIS Connect Portal using IE10 + IE 11 with NON-standard Browser configuration leads to white page. Workaround: Changing the Compatibility mode or the Document mode to IE9.
6	More and more browsers are blocking Java applets due to security reasons. This causes the issue that the ARIS download clients can neither be downloaded nor started from a browser. For this reason we provide the ARIS downloader as an additional way for starting download clients. That is a JAR file executable with a local Java Runtime Environment (JRE). The ARIS downloader manages the download process the same way the Java applet does. It checks whether the ARIS download client already exists and still matches the client available on this server. If needed, it downloads a new version of the ARIS download client, and then starts ARIS. For more information read ARIS Installation and Administration Guide (Configuration → Download Client).
7	Enterprise mode of Internet Explorer 11 is not supported. (due to various control incompatibilities)
8	ARIS Publisher extension "SAP connectivity" (start SAP transactions from Publisher) is not supported with Microsoft Edge.

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Supported Web Application Server													
Web Application Server			Tomcat 5.5	Tomcat 6.0	Tomcat 7.x	WebSphere 6.1	WebSphere 7.0	SAP NetWeaver CE 7.10					
ARIS Connect Server (3)	9.8	YCS	---	---	---	---	---	---					
ARIS Publisher Server	9.8	YPS	---	---	✓	---	---	---					

Supported Web Server													
Web Server			Apache 2.2.x	II S6	II S7								
ARIS Publisher Server	9.8	YPS	✓	---	---								

Legend	
✓	Supported / Released
---	Not supported / Not released / Not planned
1	Including all manufacturer's service packs & updates
2	Planned for next Release (April 2017)
3	ARIS Connect Applications are running within Apache TomEE 1.7.3. Deployment within other Application Server is currently not supported.

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Supported Mobile Platforms													
Mobile OS			Android 4.4	Android 5.0	iOS 8.x	iOS 9.x	Windows Mobile						
ARIS Connect Viewer	9.8	YCSCC	✓	✓	✓	✓ (2)	---						

Tested Mobile Devices			Nexus 7 II	iPad 4 th generation (3)									
ARIS Connect Viewer	9.8	YCSCC	✓	✓									

Legend	
✓	Supported / Released
---	Not supported / Not released / Not planned
1	Including all manufacturer's service packs & updates
2	Planned for next Release (April 2017)
3	Model number A1458, A1459 (GSM), A1460 (MM)

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Supported LDAP systems													
Other LDAP systems have to be configured by Software AG Global Consulting Services (GCS).													
LDAP system			Active Directory Domain Services Windows 2008 Server	Active Directory Domain Services Windows 2012 Server	Net IQ eDirectory 8.8 SP8	Oracle Directory Server Enterprise Edition 11g	IBM Tivoli Directory Server 6.1						
ARIS Connect Server	9.8	YCS	✓	✓	✓	✓	✓						
ARIS Design Server	9.8	YDS	✓	✓	✓	✓	✓						
ARIS Publisher Server	9.8	YPS	✓	✓ (3)	✓ (3)	✓ (3)	✓ (3)						

Legend	
✓	Supported / Released
---	Not supported / Not released / Not planned
1	Including all manufacturer's service packs & updates
2	Planned for next Release (April 2017)
3	If Publisher authenticates against ARIS Central User Management (UMC)

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Supported Single Sign-On Technologie												
Single Sign-On			Kerberos	SAML 2.0								
ARIS Viewer	9.8	YBU	✓	✓								
ARIS Designer	9.8	YAD	✓	---								
ARIS Architect	9.8	YAA	✓	---								
UML Designer	9.8	YUD	✓	---								
ARIS Connect Viewer	9.8	YCSCC	✓	✓								
ARIS Connect Designer	9.8	YCSDC	✓	✓								
ARIS Publisher Server	9.8	YPS	✓	---								
ARIS Business Optimizer	9.8	YBO	✓	---								

Legend	
✓	Supported / Released
---	Not supported / Not released / Not planned
1	Including all manufacturer's service packs & updates
2	Planned for next Release (April 2017)

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Supported Document Management Systems												
Document Management System			Microsoft SharePoint 2010	Microsoft SharePoint 2013								
ARIS Connect Server	9.8	YCS	✓	✓								
ARIS Design Server	9.8	YDS	✓	✓								
ARIS Publisher Server	9.8	YPS	✓	✓								

Legend	
✓	Supported / Released
---	Not supported / Not released / Not planned
1	Including all manufacturer's service packs & updates
2	Planned for next Release (April 2017)

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ARIS Compatibility with other Software AG Products													
Software AG Products	Alfabet 9.12	API-Portal 9.12	ARIS Risk and Compliance Manager 9.8 SR6	CentraSite / webMethods 9.7	CentraSite / webMethods 9.8	CentraSite / webMethods 9.9	CentraSite / webMethods 9.10	CentraSite / webMethods 9.12	MashZone Legacy 9.10	MashZone NextGeneration 9.12			
ARIS 9.8 SR6	✓	✓	✓	✓ (1)	✓ (1)	✓ (1)	✓ (1)	✓ (1,3)	✓	✓			
ARIS Risk and Compliance Manager 9.8 SR6	---	---		---	---	---	---	---	✓	✓			

Legend	
✓	Supported / Released
---	Not supported / Not released / Not planned
1	M2E Use case
2	Planned for next Release (April 2017)
3	Support of REST service in service request szenario between ARIS and CentraSite

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Languages																		
Languages			Arabic	Chinese (Simplified Chinese)	Czech	Dutch	English	French	German	Hungarian	Italian	Japanese	Polish	Portuguese (Brazilian Portuguese)	Russian	Spanish	Swedish	Turkish
ARIS Connect Server	9.8	YCS	✓ (1,4)	✓ (1)	✓ (5)	✓ (1)	✓	✓	✓	✓ (1)	✓ (1)	✓	✓ (1)	✓ (1)	✓ (1)	✓ (1)	---	✓ (1,3)
ARIS Design Server	9.8	YDS	✓ (1,4)	✓ (1)	✓ (5)	✓ (1)	✓	✓	✓	✓ (1)	✓ (1)	✓	✓ (1)	✓ (1)	✓ (1)	✓ (1)	---	✓ (1,3)
ARIS Viewer	9.8	YBU	✓ (1,4)	✓ (1)	✓ (5)	✓ (1)	✓	✓	✓	✓ (1)	✓ (1)	✓	✓ (1)	✓ (1)	✓ (1)	✓ (1)	---	✓ (1,3)
ARIS Designer	9.8	YAD	✓ (1,4)	✓ (1)	✓ (5)	✓ (1)	✓	✓	✓	✓ (1)	✓ (1)	✓	✓ (1)	✓ (1)	✓ (1)	✓ (1)	---	✓ (1,3)
ARIS Architect	9.8	YAA	✓ (1,4)	✓ (1)	✓ (5)	✓ (1)	✓	✓	✓	✓ (1)	✓ (1)	✓	✓ (1)	✓ (1)	✓ (1)	✓ (1)	---	✓ (1,3)
UML Designer	9.8	YUD	✓ (1,4)	✓ (1)	✓ (5)	✓ (1)	✓	✓	✓	✓ (1)	✓ (1)	✓	✓ (1)	✓ (1)	✓ (1)	✓ (1)	---	✓ (1,3)
ARIS Connect Viewer	9.8	YCSCC	✓ (1,4)	✓ (1)	✓ (5)	✓ (1)	✓	✓	✓	✓ (1)	✓ (1)	✓	✓ (1)	✓ (1)	✓ (1)	✓ (1)	✓ (1,4)	✓ (1,3)
ARIS Connect Designer	9.8	YCSDC	✓ (1,4)	✓ (1)	✓ (5)	✓ (1)	✓	✓	✓	✓ (1)	✓ (1)	✓	✓ (1)	✓ (1)	✓ (1)	✓ (1)	---	✓ (1,3)
ARIS Business Optimizer	9.8	YBO	✓ (1,4)	✓ (1)	✓ (5)	✓ (1)	✓	✓	✓	✓ (1)	✓ (1)	✓	✓ (1)	✓ (1)	✓ (1)	✓ (1)	---	✓ (1,3)
ARIS Publisher Server	9.8	YPS	✓ (1,4)	✓ (1)	✓ (5)	✓ (1)	✓	✓	✓	✓ (1)	✓ (1)	✓	✓ (1)	✓ (1)	✓ (1)	✓ (1)	---	✓ (1,3)
ARIS Risk and Compliance Manager	9.8	YRC	---	✓ (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 (April 2017)
3	Released with ARIS 9.8 SR5
4	Released with ARIS 9.8 SR6
5	Released with ARIS 9.8 SR7

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Hardware Scenarios Design & Connect Server				
Scenario	# Conc. Users	Single Server (Minimum required HW)	Single Server (Recommended HW)	Distributed (1)
Demo "Laptop"-SingleUser Installation (not for productive usage)	1	8GB (>=6GB free RAM)	8GB (>=6GB free RAM)	
Medium	1-50	12GB 6 CPU Cores >= 50GB free HD Space	16GB 8 CPU Cores >= 50GB free HD Space	
Large (Oracle or MS SQL recommended)	50-200	24GB 12 CPU Cores >= 50GB free HD Space	32GB 16 CPU Cores >= 50GB free HD Space	2x Medium Server
XL (Custom) (only with Oracle or MS SQL)	200-400	32GB 24 CPU Cores >= 100GB free HD Space	32GB 24 CPU Cores >= 100GB free HD Space	2x Large Server
XXL (Custom) (only with Oracle or MS SQL)	400-800			2x XL Server or 4x Large Server

(1) Not: Fail safe

Please contact ARIS Support for XL, XXL or larger scenarios.
Software AG 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.

For Update Setup we recommend to increase the HD space with additional 50GB of free space.

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:

- 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.

Hardware Scenarios Client (Installed ARIS Architect)				
Scenario	# users	Minimum	Recommended	Bandwidth
without local database system	1	2GB >= 2GB free HD Space	4GB >= 2GB free HD Space	100 Mbit/s Lower bandwidths can result in reduced performance.
with local database system	1	8GB >= 20GB free HD Space (plus sufficient disk space for user databases)	>8GB >= 20GB free HD Space (plus sufficient disk space for user databases)	

Hardware Scenario Download Client				
Scenario	# users	Minimum	Recommended	Bandwidth
without local database system	1	2GB >= 200MB free HD Space	4GB >= 200MB free HD Space	100 Mbit/s Lower bandwidths can result in reduced performance.

Hardware Scenarios Publisher Server				
Scenario	# Conc. Users	Processor	(free) RAM	Controller & Hard disk
Demo	1 - 5	1 x Dual Intel® Xeon® 5.X or more current	2 GB	
Medium	5 - 100	2 x Dual Intel® Xeon® 5.X or more current (only with Oracle or MS SQL)	12 GB ⁽²⁾	SAS/SATA with RAID 0 option Rapid RAID array
Large	100 - 250	2 x Intel® Xeon® 5.X 6c or more recent (only with Oracle or MS SQL)	32 GB ⁽²⁾	SAS/SATA with RAID 0 option Rapid RAID array
XL (Custom)	250 - 750	2 x Intel® Xeon® 5.X 6c or more recent (only with Oracle or MS SQL)	>= 64 GB	SAS/SATA with RAID 0 option Rapid RAID array

(2) ARIS Publisher Server setup will configure the memory lower. To increase the memory settings, please provide additional memory for publisher runnable.
(See ARIS Server Installation and Administration Guide --> "Provide Additional Memory")

Please contact ARIS Support for XL or larger scenarios.

Software AG 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.

If you are about to use all ARIS server types in your system, ARIS Connect Server, ARIS Design Server, ARIS Publisher Server and ARIS Risk & Compliance Manager Server must be installed on different machines. You can only install one server on one machine.

Virtual Machine Support

Software AG 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 AG 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 AG 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 AG 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 AG 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 AG 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 AG 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.

Disclaimer

ARIS products are intended and released 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. Processing capacities are exceeded, for example, if models and diagrams are larger than the size of the modeling area, or when an extremely high number of processing operations is started. Physical limits may be exceeded if the memory available is not sufficient for the execution of operations and 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 in order to avoid the risk of overbooking.

This product 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 exceed the limits, a powerful functionality is available to break them down into smaller, more manageable parts.