

**ARIS**

# FUNCTIONAL PRODUCT MATRIX



**ARIS 10.0 SR6**

October 2018

<b>ARIS Architect/ARIS Designer/ARIS Connect</b>				
	<b>ARIS Architect</b>	<b>ARIS Designer</b>	<b>ARIS Connect Designer</b>	<b>ARIS Connect Viewer</b>
<b>Product architecture</b>				
Desktop client or download client (Java®)	X	X		
Browser-based client (HTML 5)			X	X
Central server and shared data repository	X	X	X	X
Stand-alone application	X			
Single sign on for user authentication and authorization	X	X	X	X
User help	X	X	X	X
Product documentation	X	X	X	X
<b>Modeling</b>				
Multi-language support	X	X	X	X
EPC and BPMN™ support	X	X	X	X
Customer journey maps for customer experience management	X	X	X	X
Business Strategy	2	2	X	X
Document links	X	X	X	1
Database management	X			
Create, manage and navigate content structures	X	X	X	X
Content merge from different sources	X			
Bookmark content within the application	X	X	X	X
Access content via search	X	X	X	X
Copy and paste models	X	X	X	
Define and change properties of models and objects	X	X	1	
End-to-end process generation	X			
Table-based modeling	X	X	X	
Model comparison	X			
Variant creation and management	X			
Versioning and change history	X	X	X	
Write protection content	X	X	X	
Hide model content	X	X		
Templates for graphic representation settings	X	X	X	
Pre-defined modeling patterns	X	X		
Layout mechanisms and modeling grid	X	X	X	
Formatting options and format painter	X	X	X	
Creating layouts	X	X	X	
Graphic import and export	X	X	X	
XML import and export	X			
1 - Reduced number of options or reduced functionality available 2 - Made available through EP Business Strategy X - Functionality is available				

## ARIS Architect/ARIS Designer/ARIS Connect

	ARIS Architect	ARIS Designer	ARIS Connect Designer	ARIS Connect Viewer
BPMN2 import and export	X		X	
Change request management	X	X	X	X
Use ARIS Process Governance workflows	X	X	X	X
Import functions from PPM	X	X	X	
Map PPM functions to ARIS functions	X	X	X	
<b>Evaluation &amp; reporting</b>				
Semantic check execution	X	X	X	
Semantic check definition	X			
Pre-defined semantic checks	X	X	X	
Macro execution	X	X	1	
Macro definition	X			
Pre-defined macros	X	X		
Query execution	X	X		
Query definition	X			
Pre-defined queries	X	X		
Individual ad-hoc queries	X			
Report execution	X	X	X	X
Report definition	X			
Pre-defined reports	X	X	X	X
Process manual report	X	X	X	X
RA(S)CI overview report	X	X	X	X
Create job descriptions	X	X	X	X
Spreadsheet for calculation and data maintenance	X	X		
Feeding MashZone dashboards	X	1		
Generate solution design	X			
Report configuration	X			
<b>Administration &amp; setup</b>				
Standards management for formats and designs	X			
User management (function and access privileges)	X			
Method configuration and filter management	X			
<b>Documents integration</b>				
Upload, download, delete and manage documents	X	X	X	
Version documents	X	X	X	
Search	X	X	X	X
Share a document			X	X
Approve a document			X	X
Submit change requests for a document			X	X

1 - Reduced number of options or reduced functionality available

2 - Made available through EP Business Strategy

X - Functionality is available

<b>ARIS Connect/ARIS Viewer</b>			
	<b>ARIS Connect Designer</b>	<b>ARIS Connect Viewer</b>	<b>ARIS Viewer</b>
<b>Portal</b>			
Access content via search	X	X	X
Recently changed content	X	X	
Role-based access	X	X	
Dynamic publishing without add. publishing server	X	X	
Diagram viewer	X	X	X
Process steps viewer	X	X	
Table viewer	X	X	X
Overview fact-sheet viewer	X	X	
RACI viewer	X	X	
Document overview for a model	X	X	
Related objects and connections of objects	X	X	X
Attribute-based content highlighting	X	X	
Model views (e.g. swimlane)	X	X	
Custom Portal plug-ins	X	X	
Reporting	X	X	1
Change or add attributes within views	X	2	
Add objects and object relationships within views	X	2	
Advanced filters	X	X	
Self-service configuration	X	X	
SAP® transactions viewer	X	X	
Multi-media content publication	X	X	
Favorites	X	X	
User profiles	X	X	
Highlighting of properties (e.g. roles or functions of a role)	X	X	
Highlighting of process paths	X	X	
Integrate embed view in Third-party systems (e.g. wiki)	X	X	
<b>Governance</b>			
Share a model	X	X	
Approve a model	X	X	
Submit change requests	X	X	
My task overview	X	X	
Edit, view or delegate tasks	X	X	
Propose document to be linked to a model	X	X	

## ARIS Connect/ARIS Viewer

	ARIS Connect Designer	ARIS Connect Viewer	ARIS Viewer
<b>Collaboration</b>			
Comment on models and objects	X	X	
Tag and tag filters	X	X	
Subscribe to content and user streams	X	X	
Public and private collaboration groups	X	X	
Notifications on collaboration updates	X	X	
My activities overview	X	X	
Email digests	X	X	
Export & archiving	X	X	
1 - Reduced number of options or reduced functionality available 2 - Made available through ARIS Connect Viewer EP Contribution X - Functionality is available			

## ARIS Cloud

Functionalities	ARIS Cloud Basic			ARIS Cloud Advanced			ARIS Cloud Enterprise			
	Viewer	Designer	Admin	Viewer	Designer	Admin	Viewer	Designer	Architect	Admin
<b>Generic</b>										
Software-as-a-Service (SaaS)	X			X			X			
Maximum databases allowed	5 (100 MB)			20 (500 MB)			unlimited			
Maximum document storage allowed	250 MB			1 GB			unlimited			
Community support	X			X			X			
Premium support				X			X			
Shared cloud environment	X			X						
Private cloud environment							X			
Multi-language support (user interface)	X			X			X			
Multi-language support (content)							X			
<b>Design, reporting &amp; analysis</b>										
Standard modeling (browser)		X			X			X		
Advanced modeling (Java® client)									X	
Central repository	X			X			X			
Reference templates for different project types	X			X						
Run standard reports (e.g., process manual)	X	X		X	X		X	X	X	
Run custom reports (WYSIWYG-based)	X	X		X	X		X	X	X	
Run custom reports (script-based)							X	X	X	
Create custom reports (WYSIWYG-based)						X			X	X
Create custom reports (script-based)									X	X
Set permissions to content access						X			X	X
Cost & time calculation based on spreadsheet & analysis									X	
Multi-language modeling with designers		X			X			X		

ARIS Cloud										
Functionalities	ARIS Cloud Basic			ARIS Cloud Advanced			ARIS Cloud Enterprise			
	Viewer	Designer	Admin	Viewer	Designer	Admin	Viewer	Designer	Architect	Admin
<b>Design, reporting &amp; analysis</b>										
Vertical and horizontal space insertion		X			X			X		
“Go to explorer” feature		X			X			X		
Implicit relationships/connections		X			X			X		
<b>View &amp; consume</b>										
Dynamic publishing	X	X		X	X		X	X		
Standard views for easy consumption (steps view, table view)	X	X		X	X		X	X		
Consume with custom views							X	X		
Create and maintain custom views (e.g., different logic)										X
<b>Collaboration, governance &amp; document storage</b>										
Advanced collaboration with creation of groups, like, etc.	X	X		X	X		X	X		
Comment on models	X	X		X	X		X	X		
Versioning for models								X	X	
Versioning for documents		X			X			X	X	
Upload documents	X	X		X	X		X	X	X	
Release-cycle management (approval workflow, change requests, etc.)							X	X	X	
Adaption of workflows										X
Tags filtering	X	X		X	X		X	X		
<b>Administration</b>										
Custom modeling guidelines (custom filters, templates, etc.)						X			X	X
Restore database from ARIS 7.2 or 9.x			X			X			X	X
Self-service: Repository backup and restore						X			X	X
Paid-service: Repository backup and restore			X			X				X
Active Directory/LDAP connectivity									X	
Single sign-on									X	
New users video introduction	X	X	X	X	X	X				
User group management						X				X

ARIS Cloud											
Functionalities	ARIS Cloud Basic			ARIS Cloud Advanced			ARIS Cloud Enterprise				
	Viewer	Designer	Admin	Viewer	Designer	Admin	Viewer	Designer	Architect	Admin	
<b>Extensions</b>											
Enterprise architecture management: ARIS-Alfabet connectivity									X		
SAP synchronization										X	
SAP transactions views							X	X			
Microsoft® SharePoint® connectivity									X		
Simulation										X	
webMethods Integration										X	
ARIS Business Strategy										X	
ARIS Access										X	
ARIS API/Mobile										X*	
ARIS Aware							X	X			
<small>* - Availability of ARIS API Mobile/Read/Full Access X - Functionality is available</small>											

ARIS Architect/ARIS Designer Extension Pack SAP			
	ARIS Architect Extension Pack SAP (YAA + YAAPD)	ARIS Designer Extension Pack SAP (YAD + YADPD)	ARIS Connect Designer Extension Pack SAP (YCSDC + YCSPD)
<b>Connectivity to SAP Solution Manager</b>			
Synchronization with SAP Solution Manager 7.1	X		
Synchronization with SAP Solution Manager 7.2	X		
Migration of existing ARIS projects synchronized with Solution Manager 7.1 to support Solution Manager 7.2	X		
Central administration to manage SAP connectivity	X		
Configurable synchronization method	X		
Synchronization of scoped solution documentations	X		
<b>Process design and blueprinting</b>			
Synchronization of Branches from SAP Solution Manager 7.2	X		
Wizard-based support for using and maintaining the Process Step Library	2	2	2
Automatic creation of process step elements in the Process Step Library via synchronization	2		
Aggregated view on library objects	2	2	
Open solution documentation in SAP Solution Manager	2	2	
Open business blueprints in SAP Solution Manager	3	3	
Synchronization of BPMN™ 2.0, E-BPMN <sup>2</sup> , EPC models and value-chain diagrams	X		

<b>ARIS Architect/ARIS Designer Extension Pack SAP</b>			
	<b>ARIS Architect Extension Pack SAP (YAA + YAAPD)</b>	<b>ARIS Designer Extension Pack SAP (YAD + YADPD)</b>	<b>ARIS Connect Designer Extension Pack SAP (YCSDC + YCSPD)</b>
Synchronization of master and non-master process diagrams (BPMN 2.0, E-BPMN, EPC) from ARIS to BPMN Process Diagrams (system-based and role-based) in SAP Solution Manager	2		
Download BPMN Process Diagrams from SAP Solution Manager to E-BPMN Collaboration Diagrams in ARIS	2		
Bi-directional synchronization of folder elements	2		
Bi-directional synchronization of scenario elements	X		
Bi-directional synchronization of process elements	X		
Bi-directional synchronization of process step elements	X		
Bi-directional synchronization of the Process Step Library	X		
Bi-directional synchronization of the Executable Library	2		
Bi-directional synchronization of transactions	X		
Bi-directional synchronization of customer attributes	X		
Bi-directional synchronization of documents and end user roles	X		
Support for change documents	X		
Update synchronized documents	2		
Delete documents managed by ARIS	2		
Bi-directional synchronization of keywords	3		
Bi-directional synchronization of global attributes	3		
Synchronization of technical names at documents	3		
Define and synchronize order of process steps sequence	3		
Usage of shortcuts	3	3	
Usage of shadow symbols in EPC and E-BPMN models	X	X	X
Use document links from ADS and Microsoft SharePoint	X	X	X
Transfer model links to SAP Solution Manager	X		
Consistent renaming of group, model and object with changes in ARIS	X	X	X
SAP synchronization consistency check	3		
Supporting roll-out process	4		
Supporting roll-out by one-click consolidation	3		
Supporting release cycle management	4		
Maintain different languages for SAP Business Process Repositories (BPR)	3		



<b>ARIS Architect/ARIS Designer Extension Pack SAP</b>			
	<b>ARIS Architect Extension Pack SAP (YAA + YAAPD)</b>	<b>ARIS Designer Extension Pack SAP (YAD + YADPD)</b>	<b>ARIS Connect Designer Extension Pack SAP (YCSDC + YCSPD)</b>
<b>Training and go-live</b>			
Start transactions	3	3	
Start executables of type transaction and URLs	2	2	
Execute SAP customizing activities	X	X	
Open transaction-specific R/3 help	3	3	
Open SAP Solution Manager documents	X	X	
<b>Testing</b>			
ARIS Test Designer	X	1	
Automatic test path capturing	X	1	
Capturing of end-to-end test scenarios	X	1	
Navigation in the ARIS Test Designer	X	1	
Transaction scoping during test path capturing	X	1	
<b>Communication</b>			
Connect server administration	X		
Start executables of type transaction, Fiori Apps and URLs and show documents from published models		requires ARIS Connect	
Open process model from SAP systems ("F1" help)		requires ARIS Connect	
Open process models from SAP Solution Manager		requires ARIS Connect	
<b>SAP NetWeaver® specific functionalities</b>			
BPMN 2.0 import und export	X	X	X
SAP NetWeaver business client support	X	X	
1 - Made available through ARIS Designer Extension Pack Test Design (YADTD); also available as a stand-alone Extension Pack (EP) for ARIS Architect (YAATD) 2 - Only supported in combination with SAP Solution Manager 7.2 3 - Only supported in combination with SAP Solution Manager 7.1 4 - Requires customized scripts X - Functionality is available			

## ARIS Architect/ARIS Design Server/ ARIS Connect Server Extension Pack Process Governance

Functionalities	ARIS Architect (YAA) & ARIS Designer (YAD)	ARIS Architect Extension Pack Process Governance (YAA + YAAPG)	ARIS Connect Viewer (YCSCC)	ARIS Connect Designer (YCSDC)	ARIS Viewer (YBU)	ARIS Connect Server (YCS)	ARIS Connect Server Extension Pack Process Governance (YCSPG)	ARIS Design Server Extension Pack Process Governance (YDSPG)
Designing governance processes		X						
Governance process modeling		X						
Graphical data flow designer		X						
Dialog designer		X						
Model organizational structures (roles)		X						
Usage of predefined services		X						
Deploy governance processes		X				(X)*	X	
Monitor governance processes							X	
Monitor human tasks						X	X	
Monitor process instances						X	X	
Simulate governance processes							X	
Manage process instances						X	X	
MashZone integration						X	X	
PPM export							X	
Participate in governance processes								
Initiate governance workflow	X	X	X	X	X			
Organize tasks in personal process board		X	X	X	X			
Delegate task		X	X	X	X			
Specify substitute		X	X	X	X			
Predefined reference content, reports & macros		X						
Predeployed, built-in mini workflows		X				X	X	X

\* - Mini workflows can be adapted and deployed if there is an Architect EP Process Governance  
X - Functionality is available

<b>ARIS Connect Server Extension Pack Aware</b>	
<b>Functionalities</b>	<b>ARIS Connect Server Extension Pack Aware (YCSAW) + ARIS Connect Viewer Ext. Aware (YCSCA) / ARIS Connect Designer Ext. Aware (YCSDA)</b>
Designing data feeds	X
Mash up different data sources (queries, spreadsheets, ARIS Process Governance, ARIS Governance Risk & Compliance Manager, ARIS Process Performance Manager, Excel®, CSV, XML, JSON, JDBC)	X
Designing dashboards	X
Visualize process logs as function flow	X
Assign dashboards to ARIS content	X
Interactive dashboards	X
Content-based filtering	X
Context-sensitive dashboard refresh	X
Drill-down to models and details	X
Profile-based configuration of dashboarding areas	X
View dashboards in fact sheet, dashboard tab, side by side with a model and on home page	X
Predefined ready-to-use reference content (feeds and dashboards)	X
Predefined generic and use-case-specific templates (feeds and dashboards)	X
Predefined configurable data acquisition reports	X
Dashboard-specific access privileges for users and user groups	X
Import & export data feeds	X
Import & export dashboards	X
Jump from dashboards to PPM	X

## ARIS Architect/ARIS Designer Extension Pack for Enterprise Architecture Management (EAM)

Functionalities	ARIS Architect Extension Pack EAM (YAA + YAAIT)	ARIS Designer Extension Pack EAM (YAD + YADIT)	ARIS Alfabet Interoperability for ARIS Connect Server (YCSAL)	ARIS Alfabet Interoperability for ARIS Design Server (YDSAL)
<b>Basic functionality</b>				
ARIS Architect functionalities and methods	X			
ARIS Designer functionalities and methods		X		
<b>Enterprise Architecture (EA) specific functionalities</b>				
EA-specific method extensions (architecture matrix, process support maps, etc.)	X	X		
Create and maintain IT system registers	X	X		
Document IT portfolios	X	X		
Document IT infrastructure	X	X		
Document technology and architecture standards	X	X		
Describe reference architectures and solutions	X	X		
Maintain lifecycle information for systems, technologies and standards	X	X		
Maintain and plan IT landscapes (using process support maps)	X	X		
Integration of IT landscape planning information with project and requirements management	X	X		
ARIS-Alfabet interface	1	1	X	X
Create system fact sheets	X	X		
Analyze system redundancies	X	X		
Evaluate system portfolios	X	X		
Create system lists (users, supported processes, technologies, standards, etc.)	X	X		
Evaluation and display of interfaces and data flows	X	X		
Evaluation of lifecycle information	X	X		
Evaluation, generation and management of landscape planning views (as-is, plan, to-be)	X	X		
Import changes from ARIS IT Inventory	X	X		
Analyze system landscape in terms of system consolidation	X	X		
<b>Service specific functionalities</b>				
Create/edit/delete service	X	X		
Show service view	X	X		
CentraSite integration	X			
1 - This capability requires for ARIS 9.8 SR6 or newer versions to replace the product code with YCSAL/YDSAL X - Functionality is available				

<b>ARIS Design Server Extension Pack for ArchiMate® and TOGAF®</b>		
<b>Functionalities</b>	<b>ARIS Extension Pack Design Server ArchiMate® (YDS + YDSAR)</b>	<b>ARIS Extension Pack Design Server TOGAF® (YDS + YDSTO)</b>
Methodological enhancements according to ArchiMate framework (required to make full use of the ArchiMate content package)	X	
Methodological enhancements according to TOGAF framework (required to make full use of the TOGAF content package)		X

<b>ARIS Architect/ARIS Designer Extension Pack for Business Strategy</b>		
<b>Functionalities</b>	<b>ARIS Architect Extension Pack Business Strategy (YAA + YAABS)</b>	<b>ARIS Designer Extension Pack Business Strategy (YAD + YADBS)</b>
Set up a Balanced Scorecard	X	<b>Business Strategy functionalities for ARIS Designer are the same as for ARIS Architect</b>
Business Motivation Model (BMM)	X	
Strategy & tactics modeling	X	
Business Model Canvas®	X	
KPI modeling	X	
SWOT analysis	X	
Business segment matrix	X	
SIPOC (Supplier Input Process Output Customer) diagram	X	
RASCI chart	X	
Highlighting of critical factors, input and output	X	
Priority matrix for input and output	X	
Fishbone (cause-effect) diagram	X	
Fishbone layout	X	

ARIS Architect Extension Pack for Simulation	
Functionalities	ARIS Architect Extension Pack ARIS Simulation (YAA + YAASI)
ARIS model types	X
BPMN model types	X
Process instantiation plans	X
Shift calendars	X
Warm-up phase	X
Object animation	X
Attribute animation	X
Statistics	X
Charts	X
Experiments	X
Tiled user interface	X
BPMN 2.0 simulation	X
E-BPMN simulation	X

ARIS Architect Extension Pack for webMethods Integration		
Functionalities	ARIS Architect (YAA)	ARIS Architect Extension Pack webMethods Integration (YAA + YAAME)
System check		X
Process roundtripping		X
Validate for BPMN (semantic check)	X	X
EPC-to-BPMN transformation	X	X
EBPMN-to-BPMN transformation	X	X
Share with IT (process roundtrip)		X
Validate for IT (semantic check)		X
Align solution process (BPMN) with business process (EPC/EBPMN)		X
Go to between solution process (BPMN) and business process (EPC/EBPMN)		X
Bottom-up process import		X
BPM workflow table		X
Implementation documentation report		X
XPDL file export		X
CentraSite connectivity		X
Service request to CentraSite		X
Service import from CentraSite		X
Service update from CentraSite		X
Schedulable service import script for CentraSite		X
OpenBPM/service management	X	X

## ARIS Architect Extension Pack for webMethods Integration

Functionalities	ARIS Architect (YAA)	ARIS Architect Extension Pack webMethods Integration (YAA + YAAME)
Find software service (for capability)	X	X
Find service type (for capability)	X	X
Service views	X	X
New business service (guided modeling)	X	X
Edit business service (guided modeling)	X	X
XSD data export	X	X
BPMN file export	X	X
BPMN file import	X	X
Solution design sharing	X	X
Solution design method	X	X
Solution design report	X	X
Data modeling for M2E—modeling conventions & consistency checks	X	X
Data modeling for M2E—solution design export/import for webMethods Designer		X
UI modeling for M2E—modeling conventions & consistency checks	X	X
UI modeling for M2E—solution design export/import for webMethods Designer		X
Solution design—process roundtrip		X
Solution design—CS services		X

## ARIS Risk & Compliance Manager

Functionalities*	ARIS Risk & Compliance Manager	ARIS Risk & Compliance Manager Ext. Pack Risk Management	ARIS Risk & Compliance Manager Ext. Pack Internal Control System	ARIS Risk & Compliance Manager Ext. Pack Audit Management
Whistle blow	X			
Administration base objects (incl. hierarchies)	X	X	X	X
Administration generated objects	X	X	X	X
Administration database/clients	X	X		
Administration user/user groups	X			
Administration offline objects	X	X	X	X
Administration news	X			
Import and exports databases / clients	X			
Monitoring (user, objects, application, jobs, actions)	X			
Initiate actions (create, check, update forms, synchronize, link types, event types)	X	X	X	X
Administration subscriptions (events) per client	X			

\* - Available elements partly depending on extension pack  
 X - Functionality is available

<b>ARIS Risk &amp; Compliance Manager</b>				
<b>Functionalities*</b>	<b>ARIS Risk &amp; Compliance Manager</b>	<b>ARIS Risk &amp; Compliance Manager Ext. Pack Risk Management</b>	<b>ARIS Risk &amp; Compliance Manager Ext. Pack Internal Control System</b>	<b>ARIS Risk &amp; Compliance Manager Ext. Pack Audit Management</b>
Administration of dimensions for risk assessment		X		
Administration of heat matrices for risk assessment		X		
Filtering lists (base and generated objects)	X	X	X	X
Configuring filters	X	X	X	X
Access lists (base and generated objects)	X	X	X	X
Access forms (base and generated objects)	X	X	X	X
Access task lists	X	X	X	X
Access messages/Inbox	X	X	X	X
Access hierarchies (business elements)	X	X	X	X
PDF/XLS export of lists	X	X	X	X
PDF export of forms	X	X	X	X
Automated start/close of scheduled workflows	X	X	X	X
Notification/reminding/escalation (Email)	X	X	X	X
Workflow for issue management	X	X	X	X
Workflow for survey management	X			
Incident documentation	X	X	X	X
Workflow for risk assessment		X		
Workflow for incident and loss management		X		
Workflow for control testing			X	
Workflow for control execution			X	
Workflow for policy approval			X	
Workflow for policy confirmation			X	
Workflow for policy review			X	
Exceptions documentation for policies			X	
Workflow for regulatory change management			X	
Workflow for deficiency management			X	
Workflow for sign-off management			X	
Workflow for audit management				X
Filtering elements for evaluations	X	X	X	X
Evaluations survey management	X			
Evaluations incident	X			
Evaluations risk management		X		
Evaluations incident and loss management		X		
Evaluations test management			X	
Evaluations control management			X	



<b>ARIS Risk &amp; Compliance Manager</b>				
<b>Functionalities*</b>	<b>ARIS Risk &amp; Compliance Manager</b>	<b>ARIS Risk &amp; Compliance Manager Ext. Pack Risk Management</b>	<b>ARIS Risk &amp; Compliance Manager Ext. Pack Internal Control System</b>	<b>ARIS Risk &amp; Compliance Manager Ext. Pack Audit Management</b>
Evaluations policy management			X	
Evaluations audit management				X
Evaluation survey/questionnaire	X			
Evaluations risks		X		
Evaluations controls			X	
Evaluations policies			X	
Evaluations deficiencies			X	
Evaluations audit/audit steps				X
Audit plan (structure/Gantt)				X
Charts for evaluations	X	X	X	X
PDF/XLS export of evaluations	X	X	X	X
Forecast for planned generation of forms	X	X	X	X
Access log information and version comparison	X	X	X	X
PDF/XLS export of version information	X	X	X	X
Execute ARCM reports (defined in ARIS Architect)**	X	X	X	X
Create Dashboard URL	X	X	X	X
Enable event processing for Apama	X	X	X	
<small>* - Available elements partly depending on extension pack                      ** - ARIS Report Server required                      X - Functionality is available</small>				

<b>ARIS—IoT-driven Business Transformation</b>		
<b>Functionalities*</b>	<b>ARIS Connect Designer (YCSDC) &amp; ARIS Architect (YAA) &amp; ARIS Designer (YAD)</b>	<b>ARIS Connect/ Design Server EP IoT (YCSOT/YDSOT)</b>
IoT modeling method (new model types: IoT object definition & IoT object context, new symbols: IoT object, IoT sensor component, IoT actuator component, Data protocol, Connectivity, Security)	X	
IoT object fact sheet	X	
Import IoT object types		X

## ARIS RESTful API

The ARIS API grants external applications, in particular mobile apps, access to the contents of the ARIS repository and ARIS Document Storage. The API requires a server-side license for ARIS Design Server (EP Access Infrastructure) as well as a per-user license (ARIS API Mobile Access resp. ARIS Connect Viewer/Designer, ARIS API Read Access or ARIS API Full Access).

In addition to licenses, the API requires a certification of the application, available at ARIS Community:

<http://www.ariscommunity.com/aris-access-certification-inquiry-form>

A complete ARIS API reference available online via <http://localhost/apidocs> including a technical introduction to the ARIS API.

ARIS RESTful APIs	API Method	ARIS Item Type	ARIS API Light Access (YCSMA/YDSMA) & ARIS Connect Contributor (YCSCO)	ARIS API Read Access (YDSRA/YCSRA) & ARIS Connect Viewer (YCSCC)	ARIS API Full Access (YDSFA/YCSFA) & ARIS Connect Designer (YCSDC) & ARIS Architect (YAA) & ARIS Designer (YAD)	ARIS API System Access (YDSSA/YDSSA)
<b>ARIS User Management API</b>						
Encapsulates all functionality related to authentication, authorization & user management						
Generate new API token	POST	User	1	1	1	1
Invalidate API token	DELETE	User	X	X	X	X
Retrieve users	GET	User	X	X	X	X
Retrieve users by name	GET	User	X	X	X	X
Retrieve licenses of the user	GET	User	X	X	X	X
Retrieve user picture	GET	User	X	X	X	X
<b>ARIS Repository API</b>						
Encapsulates all functionality related to the ARIS repository						
Get list of databases	GET	Database		2	2	2
Get details of database	GET	Database	X	X	X	X
Find items in database	GET	Database	3	2	2	2
Create a group	POST	Group	X		X	X
Delete a group	DELETE	Group	X		X	X
Retrieve group by GUID	GET	Group	X	X	X	X
Update a group	PUT	Group	X		X	X
Delete attributes of a group	DELETE	Group	4		X	X
Get children of a group	GET	Group	3	2	2	2
Get parent group of a group by group-GUID	GET	Group	X	X	X	X
Generic query starting on model	POST	Model	3		2	2
Delete a model	DELETE	Model	X		X	X
Retrieve model by GUID	GET	Model	X	X	X	X
Update a model	PUT	Model	5		X	X
Delete attributes of a model	DELETE	Model	4		X	X
Delete model connections	DELETE	Model	4		X	X
1 - Requires a certificate, to be requested via <a href="http://www.ariscommunity.com/aris-access-certification-inquiry-form">http://www.ariscommunity.com/aris-access-certification-inquiry-form</a> 2 - Max. 5000 items per call with max. 500 items/page 3 - Max. 5000 items per call with max. 100 items/page 4 - Max. 1 item can be deleted per request with ARIS API Mobile Access 5 - Max. 1 model object/connection can be created per request with ARIS API Mobile Access X - Functionality is available						

ARIS APIs	API Method	ARIS Item Type	ARIS API Light Access (YCSMA/ YDSMA) & ARIS Connect Contributor (YCSCO)	ARIS API Read Access (YDSRA/ YCSRA) & ARIS Connect Viewer (YCSCC)	ARIS API Full Access (YDSFA/ YCSFA) & ARIS Connect Designer (YCSDC) & ARIS Architect (YAA) & ARIS Designer (YAD)	ARIS API System Access (YDSSA/ YCSSA)
Get PNG graphic of model by GUID	GET	Model	X	X	X	X
Get group of a model-by-model GUID	GET	Model	X	X	X	X
Delete model objects	DELETE	Model	4		X	X
Create a new object definition	POST	Object	X		X	X
Generic query starting on object	POST	Object	3		2	2
Delete an object definition	DELETE	Object	X		X	X
Retrieve definition object by GUID	GET	Object	X	X	X	X
Update a definition object	PUT	Object	X		X	X
Delete assignment from definition object to model	DELETE	Object	X		X	X
Create assignment from definition object to model	POST	Object	X		X	X
Delete attributes of definition object	DELETE	Object	4		X	X
Get group of a definition object	GET	Object	X	X	X	X
<b>ARIS Document Storage API</b>						
Encapsulates all functionality related to document management						
Create new document	POST	Document	X		X	X
Retrieve documents linked to ARIS model or object	GET	Document	X	X	X	X
Retrieve document by ID	GET	Document	X	X	X	X
Retrieve document content by ID	GET	Document	X	X	X	X
Link document to ARIS model or object	POST	Document	X		X	X
<b>ARIS Collaboration API</b>						
Get activities of streams of followed items of group	GET	Activity	X	X	X	X
Get person	GET	Person	X	X	X	X
Get read notifications of logged-in user	GET	Notification	X	X	X	X
Get unread notifications of the logged-in person	GET	Notification	X	X	X	X
Get count of read notifications of logged-in user	GET	Notification	X	X	X	X
Get count of unread notifications of logged-in user	GET	Notification	X	X	X	X
Get all notifications (read and unread) of the given person	GET	Notification	X	X	X	X
Mark list of notifications as read	POST	Notification	X	X	X	X
Delete list of notifications	DELETE	Notification	X	X	X	X
Get notification settings of logged-in user	GET	Notification	X	X	X	X
Update notification settings of logged-in user	POST	Notification	X	X	X	X
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Retrieves all groups	GET	Group	X	X	X	X
Create group	POST	Group	X	X	X	X
Delete group	DELETE	Group	X	X	X	X
Update group	PUT	Group	X	X	X	X
Get activities of group stream	GET	Activity	X	X	X	X
Create activity for group stream	POST	Activity	X	X	X	X
Delete activity of group stream	DELETE	Activity	X	X	X	X
Change activity of group stream	PUT	Activity	X	X	X	X
To follow a group	POST	Follower	X	X	X	X
Get list of followers of a group	GET	Follower	X	X	X	X
Get count of followers of a group	GET	Follower	X	X	X	X
Get followed items of group	GET	Follower	X	X	X	X
Create followed item for group	POST	Follower	X	X	X	X
Delete followed item of group	POST	Follower	X	X	X	X
Get tag assignments of activity of group stream	GET	Tag	X	X	X	X
Create tag assignment for activity of group stream	POST	Tag	X	X	X	X
Delete tag assignment from activity of group stream	DELETE	Tag	X	X	X	X
Retrieve comment(s) for an activity	GET	Comment	X	X	X	X
Creation of comment	POST	Comment	X	X	X	X
Delete a comment	DELETE	Comment	X	X	X	X
Updating an existing comment	PUT	Comment	X	X	X	X
Flag an activity	POST	Activity	X	X	X	X
Get activities of streams of observed items of group	GET	Activity	X	X	X	X
Create external item	POST	Model (External item)	X	X	X	X
Delete external item	DELETE	Model (External item)	X	X	X	X
Follow an external item	POST	Follower	X	X	X	X
Is user following external item	GET	Follower	X	X	X	X
Unfollow an external item	POST	Follower	X	X	X	X

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Create follower for external item	POST	Follower	X	X	X	X
Delete follower of external item	DELETE	Follower	X	X	X	X
Get group followers of external item	GET	Follower	X	X	X	X
Get count of group followers of external item	GET	Follower	X	X	X	X
Get person followers of external item	GET	Follower	X	X	X	X
Get count of person followers of external item	GET	Follower	X	X	X	X
Get external item activities	GET	Activity	X	X	X	X
Create activity for external item stream	POST	Activity	X	X	X	X
Delete activity of external item stream	DELETE	Activity	X	X	X	X
Change activity of external item stream	PUT	Activity	X	X	X	X
Flag an activity	POST	Activity	X	X	X	X
Get tags assignments of activity of external item stream	GET	Tag	X	X	X	X
Create tag assignment for activity of external item stream	POST	Tag	X	X	X	X
Delete tag assignment from activity of external item stream	DELETE	Tag	X	X	X	X
Retrieve comment(s) for an activity	GET	Comment	X	X	X	X
Creation of comment	POST	Comment	X	X	X	X
Delete a comment	DELETE	Comment	X	X	X	X
Updating an existing comment	PUT	Comment	X	X	X	X

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## ARIS Process Performance Manager 10.2

Functionalities	ARIS PPM Server (YPI)
<b>Flexible Ad-Hoc Analysis</b>	
Easy-to-use and powerful graphical user interface showing several charts at one time	X
Multi-analysis concept allowing multiple analyses at one time	X
Flexible ad-hoc queries based on dynamic filtering	X
Specify multiple filters	X
Drill-down analysis	X
Slice-and-dice analysis	X
Represent analysis in various business charts (e.g. column, bar, 2D and 3D line, pie charts, speedometer)	X
Distribution charts (with optional statistics such as percentiles and standard deviation)	X
Filter interactively within charts and overlay comparison values	X
Define step-width for axis values (e.g. year, month, day)	X
Tabular views (list table, pivot tables)	X
<b>Process Analysis</b>	
Process Discovery to reconstruct process models from numerous process execution instances	1
Graphical visualization of discovered process models (e.g. EPC or BPMN-like representation)	1
Discovery of process variants, i.e. the aggregation of identical process executions that represent e.g. the standard execution of a business process	1
Export of discovered process models as well as individual process instances to ARIS design clients	1
List of all process instances	1
Aggregate multiple process instances and visualize the result	1
Hiding of least-frequent branches in aggregated processes	1
Visualize process sequences as function flow graphs	1
Display process executions in Gantt-like flow charts	1
URL in attributes for navigating to 3rd party systems (process link)	1
<b>Dashboard integration with ARIS Aware and MashZone NextGen</b>	
Easy comprehensible analysis dashboards	4
Web application for generating HTML 5-based front-end	4
Flexible layout and arrangement of widgets (e.g. function flows, analysis charts and tables)	4
Support for interactive ad-hoc analysis, e.g. drill-down functionalities via flexible filtering	4
End-user friendly WYSIWYG dashboard editor	4
Jump from ARIS Aware Dashboard to ARIS PPM (incl. SSO)	5
Jump from PPM to MZNG (incl. SSO)	6
PPM Edition of MashZone NextGen (incl. PPM as well as CSV and XML data connectors)	7
Direct access to ARIS PPM data based on data source "Process Mining context"	4
Interactive filter panel in dashboards to flexibly add filters during run time	4
Add filters to filter panel during design time	4
Automatic configuration of filters based on Process Mining context	4
Visualization of discovered process variants incl. their frequency and a selected KPI	4
Root Cause Miner: Automatic identification of root causes leading to the occurrence of a symptom that is interactively specified in dashboards during run time	4

All footnotes are listed on page 25.

<b>ARIS Process Performance Manager 10.2</b>	
<b>Functionalities</b>	<b>ARIS PPM Server (YPI)</b>
<b>Process Conformance Checking</b>	
Bi-directional interaction between ARIS design clients and ARIS PPM	3
Calculation of conformance level	3
Calculation of root causes for non-compliance	3
<b>Interaction Analysis</b>	
Displays interactions between processes, organizations and employees	1
Visualize and analyze organization structures and their collaboration and communication patterns	1
Usage of data and document relationships to discover how they are used in processes	1
Identifies who is performing which task, how often, and with whom	1
Flexible customizing of relations, relation KPIs and dimension	1
<b>Cross Analysis</b>	
Combine process with non-process data	2
Import data directly from databases	2
Link data tables	2
Use any imported field as a measure or dimension and query every combination of these	2
Easily measure and monitor performance from data-driven, process-driven and collaboration-driven points of view	1 & 2
<b>Process Instance Monitoring &amp; Controlling</b>	
Early alert of critical process instances	X
Deviations of critical process instances from alarm values	X
E-mail notification on critical process instances	X
Search for process instances	X
Outlier analysis	X
Visualization of planned values	X
Graphical user-interface for input for defining planned values	X
Distinct planned values for different filters	X
<b>Advanced features for analysis</b>	
Automatic detection of weak points, anomalies and root causes for process deviations	X
User-defined KPIs	X
Ranking analysis	X
ABC analysis	X
Top-flop analysis	X
User-defined dimensions (filter dimensions depending on a KPI value)	X
Search functionality for all available dimension/measures independent of process type	X
All footnotes are listed on page 25.	

<b>ARIS Process Performance Manager 10.2</b>	
<b>Functionalities</b>	<b>ARIS PPM Server (YPI)</b>
<b>Personalization</b>	
Favorites for bookmarking interesting analyses and queries	X
Personal access permissions for favorite folders	X
Shared Favorites for common usage of important bookmarks by different users	X
Usage of favorites in dashboards (e.g. ARIS Aware, MashZone NextGen)	X
Formatting charts and table views	X
Saving filter, formats, step width in favorite templates	X
Single Sign-On	X
Activities and Comments on analyses	X
<b>Publishing</b>	
Printing in graphical front-end (chart, tables)	X
Ad-hoc reports as PDF output via PPM clipboard functionality	X
WYSIWYG editor for off-line reports	X
Generating off-line reports (PDF, HTML, RTF, XLS, XLSX)	X
User administration	X
Assign users to user groups	X
Grant functional privileges	X
Grant process access rights	X
Grant data access rights	X
LDAP integration	X
<b>Data import and administration</b>	
Automation of data import incl. scheduling options	X
Data import in XML format	X
Data import from SAP	8
Data import from databases (JDBC)	9
Data import from CSV	10
Data import from webMethods EDA events, e.g. webMethods BPMS	11
Pre-configured data import from SAP SD and MM	12
Import of non-process related KPIs	X
Anonymization of employees	X
Manual input of non-process data in graphical front-end	X
Deletion of data	X
Permanent aggregation of data	X
All footnotes are listed on page 25.	



<b>ARIS Process Performance Manager 10.2</b>	
Functionalities	ARIS PPM Server (YPI)
<b>Customizing</b>	
Predefined generic KPIs (metrics)	<b>X</b>
Predefined SAP KPIs and dimensions of modules SD and MM	<b>12</b>
Flexible, customer-specific configuration of KPIs (metrics)	<b>X</b>
Flexible, customer-specific configuration of dimensions	<b>X</b>
Mashing/Mixing data from different sources	<b>X</b>
Web access to data sources	<b>X</b>
Configuration in XML	<b>X</b>
Graphical user interface for configuration	<b>X</b>
Multi-language support of process types	<b>X</b>
1 = requires ARIS PPM Server Process Instances (YPPPR) 2 = requires ARIS PPM Server Data Instance Package (YPIDI) 3 = requires ARIS Designer (YAD) or Architect (YAA) or Connect Designer (YCSDC) 4 = requires ARIS Aware (YCSAW) or MashZone NextGen (JBP) 5 = requires ARIS Aware (YCSAW) 6 = requires MashZone NextGen (JBP) 7 = requires MashZone NextGen PPM Edition (JBPPM) 8 = requires ARIS PPM Process Extractor SAP-2-PPM (YPISP) 9 = requires ARIS PPM Process Extractor JDBC-2-PPM (YPIJP) 10 = requires ARIS PPM Process Extractor CSV-2-PPM (YPICP) 11 = requires ARIS PPM Content Package for BPMS (YPIBP) 12 = requires ARIS PPM Content Package for SAP MM (YPIISM) or ARIS PPM Content Package for SAP SD (YPIISD)	

<b>ARIS Administration</b>		
<b>Functionalities</b>	<b>ARIS Design Server</b>	<b>ARIS Connect Server</b>
<b>ARIS User Management</b>		
Central management of user and user groups	X	X
Central assignment of privileges (functional, license, content)	X	X
License pooling	X	X
Usage reporting	X	X
LDAP import	X	X
Single-sign on via Kerberos	X	X
Single-sign on via SAML™ 2.0 (web clients only)	X	X
Support of multiple parallel LDAP system	X	X
<b>Document Storage</b>		
Restrict folder privileges for users and user groups	X	X
Enable local folder administrators	X	X
Change history	X	X
Upload new versions	X	X
Integration with ARIS modeling clients	X	X
Integration with ARIS Process Governance	X	X
Connectivity to Microsoft® SharePoint®	1	1
Out-of-the-box workflows (change request, approval)		X
<b>Tenant Management</b>		
Administrate tenants in a GUI	X	X
Backup and restore tenants	X	X
Schedule tenant backups	X	X
Copy, delete and lock tenants	X	X
Retrieve tenant status and license usage	X	X
Asset roll out (databases, reports, filters, templates)	X	X
Asset import and export (databases, reports, filters, templates)	X	X
<b>ARIS Connect Portal</b>		
Adapt UI according to corporate design (e.g., logo, colors)		X
Develop own publication items, fact sheets and views		X
Self-service capabilities for simple configurations		X
XML changes for advanced configurations		X
<small>1 - Requires additional product license: Extension Pack SharePoint  X - Functionality is available</small>		

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## ABOUT SOFTWARE AG

Software AG (Frankfurt TecDAX: SOW) helps companies with their digital transformation. With Software AG's Digital Business Platform, companies can better interact with their customers and bring them on new 'digital' journeys, promote unique value propositions, and create new business opportunities. In the Internet of Things (IoT) market, Software AG enables enterprises to integrate, connect and manage IoT components as well as analyze data and predict future events based on Artificial Intelligence (AI). The Digital Business Platform is built on decades of uncompromising software development, IT experience and technological leadership. Software AG has more than 4,500 employees, is active in 70 countries and had revenues of €879 million in 2017. To learn more, visit [www.softwareag.com](http://www.softwareag.com).

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