

ARIS REPORT SCRIPT CHANGES



FROM 7.2.4 TO 9.8 SR4

This document describes the report script language differences between ARIS 7.2.4 and ARIS 9.8 SR4.

(In most cases) the removed methods can still be called, but they have no function any more and should be removed/replaced from/in the script.

The deprecated methods should not be used any more. They are replaced by functions which are more suitable in ARIS 9.

For a description of the added methods please refer to the online help for ARIS Script.

Some attributes that exist for the most items Creator, time of creation, last modifier, time of last modification are now directly accessible via methods as item properties.

Please note, that the report scripts themselves do not exist on the server's file system any more. Instead they are stored in a database. So all script import/export/delete operations have only an effect on the (system) database content and do not touch the file system any more.

New constants:

Additionally, there are new attribute/model/cxn/lane/symbol type constants in ARIS metamodel.

FMT_STRIKETHROUGH - the output objects supports "strikethrough" text format

MODEL_CXN_DISTANCE - model flag (have distance between cxn and object)

SAVE_AUTO - the new standard save mode in ARIS report.

Please read the details here:

<http://www.ariscommunity.com/users/thaase/2015-11-24-slow-reports-aris-9-how-improve-save-performance-when-modifying-data>

For new link functionality in ARIS 9 (so far used only by UML2):

LINKRULE_NONE

LINKRULE_SOURCE_DELETES_TARGET

LINKRULE_SOURCE_RENAMES_TARGET

LINKRULE_TARGET_DELETES_SOURCE

LINKRULE_TARGET_RENAMES_SOURCE

LINKTYPE_DIAGRAM_ASSIGNMENT

LINKTYPE_OMF_TAGREFERENCE

LINKTYPE_REUSE_OBJECT_LINK

New / removed / deprecated / changed methods:	New	Changed	Removed	Deprecated
signature change ABOCubeProxy.getLocale(DbSession) -> Locale changed return type ABOGroup.getGroup() -> ABOGroupInst ABOGroup.getInstance() -> ASetInstanceDTO		X		
ABOSubject.createGUIDandOID() -> void ABOSubject.createGUIDandOIDNew() -> void	X			X
removed AExcelAccessException			X	
ArisMetaModel.getAPIName(int,int) -> String (also available in Publisher) ArisMetaModel.getMetamodellItems(int,int) -> int[] (also available in Publisher) ArisMetaModel.getMetamodelName(int) -> String (also available in Publisher) ArisMetaModel.getMetamodels() -> int[] (also available in Publisher) ArisMetaModel.isUniqueCxn(int,int,int) -> int (also available in Publisher)	X			
AttrDateDef.getValueGMT0() -> long (also available in Publisher) AttrDateDef.setValueGMT0(long) -> boolean AttrTimeDef.getValueGMT0() -> long AttrTimeDef.setValueGMT0(long) -> boolean AttrTimeStampDef.getValueGMT0() -> long AttrTimeStampDef.setValueGMT0(long) -> boolean	X			
AttrOcc.getOrderNum() -> int (also available in Publisher) AttrOcc.getRotation() -> short (also available in Publisher) AttrOcc.setOrderNum(short) -> boolean	X			
BOReportRoot.assignSmartinputPermission(ABOUser) -> void	X			
BPExportData.getDbName() -> String BPExportData.getPaletteGUID() -> String BPExportData.getServerName() -> String BPExportData.getTenantID() -> String BPExportData.setDbName(String) -> void BPExportData.setPaletteGUID(String) -> void BPExportData.setServerName(String) -> void BPExportData.setTenantID(String) -> void removed BPExportData.getSelectedMethodFilters() -> GUID[] removed BPExportData.getSelectedMethodFiltersAsString() -> String[] removed BPExportData.setSelectedMethodFilters(GUID[]) -> void removed BPExportData.setSelectedMethodFiltersAsStringArray(String[]) -> void removed BPExportResult.getMsgs() -> List	X			X

New / removed / deprecated / changed methods:	New	Changed	Removed	Deprecated
BPLayoutInfo.getOEMProfile() -> String BPLayoutInfo.setOEMProfile(String) -> void	X			
BusinessPublisher.editExport(Database,BPExportData) -> BPExportResult BusinessPublisher.getLocaleId(Locale) -> int BusinessPublisher.getLocaleId(String) -> int BusinessPublisher.removeSpecialCharacters(String) -> String removed BusinessPublisher.uploadKey(String) -> boolean		X		
ComObjOcc.getIncomingLinks() -> Link[] ComObjOcc.getLinks() -> Link[] ComObjOcc.getOptionalBitmap() -> byte[] ComObjOcc.getOutgoingLinks() -> Link[] removed ComObjOcc.ObjectID(int) -> String (also available in Publisher)	X			X
ConnectableDef.getCreator() -> String ConnectableDef.getIncomingLinks() -> Link[] ConnectableDef.getLastModifier() -> String ConnectableDef.getLinks() -> Link[] ConnectableDef.getOutgoingLinks() -> Link[] ConnectableDef.getTimeOfCreation() -> ATimeStamp ConnectableDef.getTimeOfLastModification() -> ATimeStamp ConnectableDef.OID() -> int[] removed ConnectableDef.CreateExtCxnDef(ConnectableDef,int) -> ExtCxnDef removed ConnectableDef.fromExtCxnDefs() -> ExtCxnDef[] removed ConnectableDef.toExtCxnDefs() -> ExtCxnDef[]		X		X
ConnectableOcc.getIncomingLinks() -> Link[] ConnectableOcc.getLinks() -> Link[] ConnectableOcc.getOutgoingLinks() -> Link[] removed ConnectableOcc.ObjectID(int) -> String (also available in Publisher) removed ConnectableOcc.fromExtCxnOccs() -> ExtCxnOcc[] removed ConnectableOcc.toExtCxnOccs() -> ExtCxnOcc[]	X			X
ConsolidateSet.add(ObjDef,ObjDef[]) -> void	X			

New / removed / deprecated / changed methods:	New	Changed	Removed	Deprecated
This interface is used for „virtual“ connections created by an assignment:	X			
CxnAssign.ActiveType() -> String (also available in Publisher) CxnAssign.AssignedModels() -> Model[] CxnAssign.AssignedModels(int) -> Model[] CxnAssign.AssignedModels(int[]) -> Model[] CxnAssign.AttrList(int) -> Attr[] (also available in Publisher) CxnAssign.AttrList(int,boolean) -> Attr[] (also available in Publisher) CxnAssign.AttrList(int,int[]) -> Attr[] (also available in Publisher) CxnAssign.AttrList(int,int[],boolean) -> Attr[] (also available in Publisher) CxnAssign.AttrMap(int) -> Map (also available in Publisher) CxnAssign.AttrMap(int,boolean) -> Map (also available in Publisher) CxnAssign.AttrMap(int,int[]) -> Map (also available in Publisher) CxnAssign.AttrMap(int,int[],boolean) -> Map (also available in Publisher) CxnAssign.Attribute(int,int) -> Attr (also available in Publisher) CxnAssign.Attribute(int,int,boolean) -> Attr (also available in Publisher) CxnAssign.CompareAttributes(Item) -> Map (also available in Publisher) CxnAssign.CompareAttributes(Item,int[]) -> Map (also available in Publisher) CxnAssign.CreateAssignment(Model) -> boolean CxnAssign.CreateAssignment(Model,boolean) -> boolean CxnAssign.Database() -> Database (also available in Publisher) CxnAssign.Delete() -> boolean CxnAssign.Delete(boolean) -> boolean CxnAssign.DeleteAssignment(Model) -> boolean CxnAssign.GUID() -> String (also available in Publisher) CxnAssign.GetReorgMark() -> int CxnAssign.AreEqual(ArisObject) -> boolean (also available in Publisher) CxnAssign.IsValid() -> boolean (also available in Publisher) CxnAssign.KindNum() -> int (also available in Publisher) CxnAssign.Name(int) -> String (also available in Publisher) CxnAssign.Name(int,boolean) -> String (also available in Publisher) CxnAssign.OID() -> int[] CxnAssign.ObjectID() -> String (also available in Publisher) CxnAssign.OccList() -> CxnOcc[] (also available in Publisher) CxnAssign.OccList(Model[]) -> CxnOcc[] (also available in Publisher) CxnAssign.PassiveType() -> String (also available in Publisher) CxnAssign.RefGUID() -> String	X			

New / removed / deprecated / changed methods:	New	Changed	Removed	Deprecated
CxnAssign.SetReorgMark(int) -> boolean				
CxnAssign.SourceObjDef() -> ObjDef (also available in Publisher)				
CxnAssign.TargetModel() -> Model (also available in Publisher)				
CxnAssign.TargetObjDef() -> ObjDef (also available in Publisher)				
CxnAssign.Touch() -> void				
CxnAssign.TypeNum() -> int				
CxnAssign.WriteAttributes(Map,int) -> Attr[]				
CxnAssign.getCreator() -> String				
CxnAssign.getIncomingLinks() -> Link[]	X			
CxnAssign.getLastModifier() -> String				
CxnAssign.getLinks() -> Link[]				
CxnAssign.getOutgoingLinks() -> Link[]				
CxnAssign.getReorgMark() -> int				
CxnAssign.getTimeOfCreation() -> ATimeStamp				
CxnAssign.getTimeOfLastModification() -> ATimeStamp				
CxnAssign.isImplicitCxn() -> boolean (also available in Publisher)				
CxnAssign.setReorgMark(int) -> boolean				
CxnDef.getCreator() -> String				
CxnDef.getIncomingLinks() -> Link[]				
CxnDef.getLastModifier() -> String				
CxnDef.getLinks() -> Link[]	X			
CxnDef.getOutgoingLinks() -> Link[]				
CxnDef.getTimeOfCreation() -> ATimeStamp				
CxnDef.getTimeOfLastModification() -> ATimeStamp				
removed CxnDef.CreateExtCxnDef(ConnectableDef,int) -> ExtCxnDef				
removed CxnDef.fromExtCxnDefs() -> ExtCxnDef[]		X		
removed CxnDef.toExtCxnDefs() -> ExtCxnDef[]				
CxnDef.OID() -> int[]				X
CxnLineStyle.getColor() -> Color				
CxnLineStyle.getStyle() -> int				
CxnLineStyle.getWidth() -> int				
CxnLineStyle.isDefault() -> boolean				
CxnLineStyle.setColor(Color) -> void	X			
CxnLineStyle.setColorValue(int) -> void				
CxnLineStyle.setDefault() -> void				
CxnLineStyle.setStyle(int) -> void				
CxnLineStyle.setWidth(int) -> void				

New / removed / deprecated / changed methods:	New	Changed	Removed	Deprecated
CxnOcc.getDefinition() -> CxnDef (also available in Publisher)				
CxnOcc.getIncomingLinks() -> Link[]				
CxnOcc.getLineStyle() -> CxnLineStyle (also available in Publisher)				
CxnOcc.getLinks() -> Link[]	X			
CxnOcc.getOutgoingLinks() -> Link[]				
CxnOcc.getPoints() -> Point[] (also available in Publisher)				
CxnOcc.getSource() -> ObjOcc (also available in Publisher)				
CxnOcc.getTarget() -> ObjOcc (also available in Publisher)				
CxnOcc.setLineStyle(CxnLineStyle) -> boolean				
CxnOcc.setPoints(Point[]) -> boolean				
CxnOcc.CxnDef() -> CxnDef (also available in Publisher)				
CxnOcc.GetLine() -> int[] (also available in Publisher)				
CxnOcc.PointList() -> Point[] (also available in Publisher)				X
CxnOcc.SetPointList(Point[]) -> boolean				
CxnOcc.SourceObjOcc() -> ObjOcc (also available in Publisher)				
CxnOcc.SetPointList(Point[]) -> boolean				
CxnOcc.SourceObjOcc() -> ObjOcc (also available in Publisher)				
removed CxnOcc.ObjectID(int) -> String (also available in Publisher)				
removed CxnOcc.fromExtCxnOccs() -> ExtCxnOcc[]			X	
removed CxnOcc.toExtCxnOccs() -> ExtCxnOcc[
removed class DMSCredentials				
removed class DMSFileItem				
removed class DMSIntegration				
removed class DMSLock				
removed class DMSLockOptions				
removed class DMSObject				X
removed class DMSProvider				
removed class DMSResultEntry				
removed class DMSSearchQuery				
removed class DMSVersion				
removed class DMSVersionCreationOptions				
removed class DTD				

New / removed / deprecated / changed methods:	New	Changed	Removed	Deprecated
Database users are no longer stored in the ARIS database, but in the UserManagement (UMC). The corresponding report methods consequently manage the users in the UMC, so they still work „as expected“. The term „AssignedUser“ is used for a user having the right to (at least) view the database content. Non-assigned user do not even see the database in the explorer.	X			
Database.AssignedUserGroups() -> UserGroup[] Database.AssignedUsers() -> User[] Database.CreateUser(String, String, int[], boolean, int) -> User Database.CreateUserGroup(String, int[], int) -> UserGroup Database.getArisData() -> ArisData Database.getCreator() -> String Database.getDefaultFilter() -> String Database.getLastModifier() -> String Database.getPaletteGUID() -> String Database.getReturnSystemAttributes() -> boolean Database.getTimeOfCreation() -> ATimeStamp Database.getTimeOfLastModification() -> ATimeStamp Database.setDefaultFilter(String) -> boolean Database.setPaletteGUID(String) -> boolean Database.setReturnSystemAttributes(boolean) -> void Database.OID() -> int[]	X			
DblInfo.getCount(int) -> long	X			
DeployResult.getMessages() -> List DeployResult.getState() -> boolean	X			
removed class DiagramType				X
DialogTemplate.SetProperties(String[]) -> void	X			
removed class DisplayOption				X
Visio import component API: var vImport = Context. getComponent(„VisioImport“); DrawingImport.getBPMNSupport() -> ReportBPMNSupport DrawingImport.getMapping(byte[], byte[], MethodFilter) -> Mapping DrawingImport.loadDrawingFile(String, byte[]) -> VisioLoader DrawingImport.loadDrawingFile(String, byte[], String) -> VisioLoader	X			
removed class EdgeSymbol				
removed class ExtCxnDef				X
removed class ExtCxnOcc				

New / removed / deprecated / changed methods:	New	Changed	Removed	Deprecated
FontStyle.getCreator() -> String				
FontStyle.getLastModifier() -> String	X			
FontStyle.getTimeOfCreation() -> ATimeStamp				
FontStyle.getTimeOfLastModification() -> ATimeStamp				
FontStyle.OID() -> int[]				X
FontStyle.remove() -> boolean [9.8 SR4]	X			
GfxObj.get3DEffect() -> boolean (also available in Publisher)	X			
GfxObj.set3DEffect(boolean) -> boolean				
„Group“ is now derived from „ObjDef“, so it has some more members. Classic ARIS groups have TypeNum()==Constants.OT_GROUP				
Group.AssignedModels() -> Model[]				
Group.AssignedModels(int) -> Model[]				
Group.AssignedModels(int[]) -> Model[]				
Group.ChangeGroup(Group) -> boolean				
Group.Consolidate(ObjDef[]) -> boolean				
Group.Consolidate(ObjDef[],boolean) -> boolean				
Group.Consolidate(ObjDef[],boolean,boolean) -> boolean				
Group.Consolidate(ObjDef[],boolean,boolean,boolean) -> boolean				
Group.CreateAssignment(Model) -> boolean				
Group.CreateAssignment(Model,boolean) -> boolean				
Group.CreateCxnDef(ObjDef,int) -> CxnDef				
Group.CxnList() -> CxnDef[] (also available in Publisher)				
Group.CxnList(Model[]) -> CxnDef[] (also available in Publisher)	X			
Group.CxnList(int) -> CxnDef[] (also available in Publisher)				
Group.CxnList(int,Model[]) -> CxnDef[] (also available in Publisher)				
Group.CxnListFilter(int) -> CxnDef[] (also available in Publisher)				
Group.CxnListFilter(int,String,int) -> CxnDef[] (also available in Publisher)				
Group.CxnListFilter(int,String,int,int) -> CxnDef[] (also available in Publisher)				
Group.CxnListFilter(int,String,int,int,int) -> CxnDef[] (also available in Publisher)				
Group.CxnListFilter(int,int) -> CxnDef[] (also available in Publisher)				
Group.CxnListFilter(int,int[]) -> CxnDef[] (also available in Publisher)				
Group.DeleteAssignment(Model) -> boolean				
Group.GetDefaultSymbolNum() -> int (also available in Publisher)				
Group.GetReorgMark() -> int				
Group.Group() -> Group (also available in Publisher)				
Group.HasVariants() -> boolean (also available in Publisher)				

New / removed / deprecated / changed methods:	New	Changed	Removed	Deprecated
Group.Identifier(int) -> String (also available in Publisher)				
Group.IsVariant() -> boolean (also available in Publisher)				
Group.LinkVariant(ObjDef) -> boolean	X			
Group.Master() -> ObjDef (also available in Publisher)				
Group.OccList() -> ObjOcc[] (also available in Publisher)				
Group.OccList(Model[]) -> ObjOcc[] (also available in Publisher)				
Group.OccListInModel(Model) -> Occ[] (also available in Publisher)				
Group.OID() -> int[]				X
Group.SetDefaultSymbolNum(int,boolean) -> boolean				
Group.SetReorgMark(int) -> boolean				
Group.Type() -> String (also available in Publisher)				
Group.Type(boolean) -> String (also available in Publisher)				
Group.TypeNum() -> int				
Group.UnlinkVariant(ObjDef) -> boolean				
Group.Variants() -> ObjDef[] (also available in Publisher)				
Group.Variants(Group[]) -> ObjDef[] (also available in Publisher)				
Group.getConnectedObjs(int) -> ObjDef[] (also available in Publisher)				
Group.getConnectedObjs(int[]) -> ObjDef[] (also available in Publisher)				
Group.getConnectedObjs(int[],int) -> ObjDef[] (also available in Publisher)				
Group.getConnectedObjs(int[],int,int[]) -> ObjDef[] (also available in Publisher)				
Group.getCreator() -> String				
Group.getDefaultSymbolGUID() -> String (also available in Publisher)				
Group.getDefaultSymbolNum() -> int (also available in Publisher)	X			
Group.getDuration(int,Date,int) -> Date (also available in Publisher)				
Group.getEnd Date(int,int,int) -> Date (also available in Publisher)				
Group.getIncomingLinks() -> Link[]				
Group.getLastModifier() -> String				
Group.getLinks() -> Link[]				
Group.getLockOwner() -> String				
Group.getNextWorkingDate(int,int) -> Date (also available in Publisher)				
Group.getOutgoingLinks() -> Link[]				
Group.getReorgMark() -> int				
Group.getSubTypeNum() -> int (also available in Publisher)				
Group.getTimeOfCreation() -> ATimeStamp				
Group.getTimeOfLastModification() -> ATimeStamp				
Group.setDefaultSymbolGUID(String,boolean) -> boolean				
Group.setDefaultSymbolNum(int,boolean) -> boolean				
Group.setReorgMark(int) -> boolean				
Group.setSubTypeNum(int) -> boolean				

New / removed / deprecated / changed methods:	New	Changed	Removed	Deprecated
Item.getCreator() -> String Item.getLastModifier() -> String Item.getTimeOfCreation() -> ATimeStamp Item.getTimeOfLastModification() -> ATimeStamp Item.OID() -> int[]	X			
Label.Database() -> Database (also available in Publisher) Label.IsValid() -> boolean (also available in Publisher) Label.getDefiningOccurrence() -> Occ Label.getFontStyleSheet() -> FontStyle Label.getHeight() -> int Label.getRotation() -> short Label.getTypeNum() -> int Label.getWidth() -> int Label.getX() -> int Label.getY() -> int	X			
Lane.getCreator() -> String Lane.getLastModifier() -> String Lane.getTimeOfCreation() -> ATimeStamp Lane.getTimeOfLastModification() -> ATimeStamp Lane.OID() -> int[]	X			
Link.Database() -> Database Link.IsValid() -> boolean Link.ObjectID() -> String Link.getLinkDataGUID() -> String Link.getLinkKind() -> int Link.getLinkRules() -> LinkRule[] Link.getLinkSource() -> ArisObject Link.getLinkTarget() -> ArisObject Link.getLinkType() -> LinkType	X			
Used by Visio import component				
Mapping.findDrawingTypeByAlias(String) -> String Mapping.getAllUsedSymbols() -> int[] Mapping.getCxnType(String, String) -> int Mapping.getDrawingTypeNameMap(String) -> HashMap Mapping.getFallbackCxnType(ObjOcc, ObjOcc, int) -> int Mapping.getModelTypeByVisioTemplate(String) -> int Mapping.getSourceType() -> String Mapping.getSymbolByNameU(String) -> int Mapping.initMapping(String) -> boolean	X			

New / removed / deprecated / changed methods:	New	Changed	Removed	Deprecated
Matrix.Graphic(boolean,boolean,int,boolean) -> ModelPicture (also available in Publisher)				
Matrix.ObjDefListBySymbols(int[]) -> ObjDef[] (also available in Publisher)				
Matrix.getCreator() -> String				
Matrix.getIncomingLinks() -> Link[]	X			
Matrix.getLastModifier() -> String				
Matrix.getLinks() -> Link[]				
Matrix.getLockOwner() -> String				
Matrix.getOutgoingLinks() -> Link[]				
Matrix.getTimeOfCreation() -> ATimeStamp				
Matrix.getTimeOfLastModification() -> ATimeStamp				
Matrix.OID() -> int[]	X			
removed Matrix.AddBusinessCase(Model) -> boolean				
removed Matrix.CreateExtCxnOcc(ConnectableOcc, ConnectableOcc, ExtCxnDef, Point[]) -> ExtCxnOcc			X	
removed Matrix.CreateExtCxnOcc(ConnectableOcc, ConnectableOcc, ExtCxnDef, Point[], boolean) -> ExtCxnOcc				
removed Matrix.removed Matrix.OriginalModel() -> Model				
MatrixCxnDef.getCreator() -> String				
MatrixCxnDef.getIncomingLinks() -> Link[]				
MatrixCxnDef.getLastModifier() -> String	X			
MatrixCxnDef.getLinks() -> Link[]				
MatrixCxnDef.getOutgoingLinks() -> Link[]				
MatrixCxnDef.getTimeOfCreation() -> ATimeStamp				
MatrixCxnDef.getTimeOfLastModification() -> ATimeStamp				
MatrixCxnDef.OID() -> int[]			X	
removed MatrixCxnDef.CreateExtCxnDef(ConnectableDef, int) -> ExtCxnDef				
removed MatrixCxnDef.fromExtCxnDefs() -> ExtCxnDef[]		X		
removed MatrixCxnDef.toExtCxnDefs() -> ExtCxnDef[]				
removed MergeBaseOptions			X	

New / removed / deprecated / changed methods:	New	Changed	Removed	Deprecated
<p>MethodFilter.AttrGroupChildren(int,boolean) -> int[] (also available in Publisher)</p> <p>MethodFilter.AttrGroupChildren(int,int,int,boolean) -> int[] (also available in Publisher)</p> <p>MethodFilter.AttrGroupParents(int) -> int[] (also available in Publisher)</p> <p>MethodFilter.AttrSymbols(int) -> int[]</p> <p>MethodFilter.AttrTypesOfAttrGroup(int,boolean) -> int[] (also available in Publisher)</p> <p>MethodFilter.AttrTypesOfAttrGroup(int,int,int,boolean) -> int[] (also available in Publisher)</p> <p>MethodFilter.AttrValueSymbol(int,int) -> Integer</p> <p>MethodFilter.SymbolGraphic(int,String,boolean) -> PictureBase</p> <p>MethodFilter.fromAPIName(String) -> int</p> <p>MethodFilter.getMetamodellItems(int,int) -> int[] (also available in Publisher)</p> <p>MethodFilter.getMetamodelName(int) -> String (also available in Publisher)</p> <p>MethodFilter.getMetamodels() -> int[] (also available in Publisher)</p> <p>MethodFilter.getMethodLocale() -> int (also available in Publisher)</p> <p>MethodFilter.getMethodLocales() -> MethodLocale[]</p> <p>MethodFilter.isUniqueCxn(int,int,int) -> int (also available in Publisher)</p>		X		
<p>Model.Graphic(boolean,boolean,int,boolean) -> ModelPicture (also available in Publisher) (additional last parameter)</p> <p>Model.ObjDefListBySymbols(int[]) -> ObjDef[] (also available in Publisher)</p> <p>Model.getCreator() -> String</p> <p>Model.getIncomingLinks() -> Link[]</p> <p>Model.getLastModifier() -> String</p> <p>Model.getLinks() -> Link[]</p> <p>Model.getLockOwner() -> String</p> <p>Model.getOutgoingLinks() -> Link[]</p> <p>Model.getTimeOfCreation() -> ATimeStamp</p> <p>Model.getTimeOfLastModification() -> ATimeStamp</p> <p>Model.OID() -> int[]</p> <p>removed Model.AddBusinessCase(Model) -> boolean</p> <p>removed Model.OriginalModel() -> Model</p> <p>removed Model.</p> <p>CreateExtCxnOcc(ConnectableOcc,ConnectableOcc,ExtCxnDef,Point[]) -> ExtCxnOcc</p> <p>removed Model.</p> <p>CreateExtCxnOcc(ConnectableOcc,ConnectableOcc,ExtCxnDef,Point[],boolean) -> ExtCxnOcc</p>	X			X

New / removed / deprecated / changed methods:	New	Changed	Removed	Deprecated
ModelGenerationOptions.hideProcessInterfacesSpecial(boolean) -> void ModelGenerationOptions.setOnlyOneSatelliteTypeInHeader(long) -> void	X			
ModelPicture.getPictureTiled(int,int,String) -> PictureBase[] (also available in Publisher)	X			
ModelShortcut.getCreator() -> String ModelShortcut.getLastModifier() -> String ModelShortcut.getTimeOfCreation() -> ATimeStamp ModelShortcut.getTimeOfLastModification() -> ATimeStamp ModelShortcut.OID() -> int[]		X		
MultiDefCxnOcc.AttrOcc(int) -> AttrOcc (also available in Publisher) MultiDefCxnOcc.AttrOccList() -> AttrOcc[] (also available in Publisher) MultiDefCxnOcc.Database() -> Database (also available in Publisher) MultiDefCxnOcc.AreEqual(ArisObject) -> boolean (also available in Publisher) MultiDefCxnOcc.IsValid() -> boolean (also available in Publisher) MultiDefCxnOcc.KindNum() -> int (also available in Publisher) MultiDefCxnOcc.Model() -> Model (also available in Publisher) MultiDefCxnOcc.ObjectID() -> String (also available in Publisher) MultiDefCxnOcc.Remove() -> boolean MultiDefCxnOcc.Remove(boolean) -> boolean MultiDefCxnOcc.getActive() -> boolean MultiDefCxnOcc.getDefinition() -> ConnectableDef MultiDefCxnOcc.getFontStyleSheet() -> FontStyle MultiDefCxnOcc.getIncomingLinks() -> Link[] MultiDefCxnOcc.getLabels() -> Label[] MultiDefCxnOcc.getLineStyle() -> CxnLineStyle MultiDefCxnOcc.getLinks() -> Link[] MultiDefCxnOcc.getMultiDefCxnOccs(boolean,boolean) -> MultiDefCxnOcc[] MultiDefCxnOcc.getOutgoingLinks() -> Link[] MultiDefCxnOcc.getParticipants() -> ConnectableDef[] MultiDefCxnOcc.getPoints() -> Point[] MultiDefCxnOcc.getSource() -> Occ MultiDefCxnOcc.getSymbolNum() -> int MultiDefCxnOcc.getTarget() -> Occ MultiDefCxnOcc.getZOrder() -> int (also available in Publisher) MultiDefCxnOcc.setActive(boolean) -> boolean MultiDefCxnOcc.setZOrder(int) -> boolean		X		

New / removed / deprecated / changed methods:	New	Changed	Removed	Deprecated
removed class NodeSymbol			X	
ObjDef.getCreator() -> String				
ObjDef.getIncomingLinks() -> Link[]				
ObjDef.getLastModifier() -> String	X			
ObjDef.getLinks() -> Link[]				
ObjDef.getLockOwner() -> String				
ObjDef.getOutgoingLinks() -> Link[]				
ObjDef.getTimeOfCreation() -> ATimeStamp				
ObjDef.getTimeOfLastModification() -> ATimeStamp		X		
changed result type ObjDef.Shortcuts() -> Item[]				
ObjDef.OID() -> int[]				X
removed ObjDef.CreateExtCxnDef(ConnectableDef,int) -> ExtCxnDef				
removed ObjDef.fromExtCxnDefs() -> ExtCxnDef[]			X	
removed ObjDef.toExtCxnDefs() -> ExtCxnDef[]				
ObjDefShortcut.getCreator() -> String				
ObjDefShortcut.getLastModifier() -> String	X			
ObjDefShortcut.getTimeOfCreation() -> ATimeStamp				
ObjDefShortcut.getTimeOfLastModification() -> ATimeStamp				
ObjDefShortcut.OID() -> int[]				X
ObjOcc.getEmbeddedObjOccs(int[]) -> ObjOcc[]				
ObjOcc.getIncomingLinks() -> Link[]				
ObjOcc.getLabels() -> Label[]	X			
ObjOcc.getLinks() -> Link[]				
ObjOcc.getMultiDefCxnOccs(boolean,boolean) -> MultiDefCxnOcc[]				
ObjOcc.getOutgoingLinks() -> Link[]				
removed ObjOcc.AddBusinessOcc(ObjOcc) -> boolean				
removed ObjOcc.BusinessOccs() -> ObjOcc[]				
removed ObjOcc.ObjectID(int) -> String (also available in Publisher)			X	
removed ObjOcc.OriginalOcc() -> ObjOcc				
removed ObjOcc.fromExtCxnOccs() -> ExtCxnOcc[]				
removed ObjOcc.toExtCxnOccs() -> ExtCxnOcc[]				
removed exception ObjectException			X	
Occ.getIncomingLinks() -> Link[]				
Occ.getLinks() -> Link[]	X			
Occ.getOutgoingLinks() -> Link[]				
removed Occ.ObjectID(int) -> String (also available in Publisher)				

New / removed / deprecated / changed methods:	New	Changed	Removed	Deprecated
removed OutputObjectException			X	
PCA_DATA.assignSmartinputPermission(ABOUser) -> void changed signature PCA_DATA. createSystemUser(String, String, String, AUserGroupDTO) -> ABOUser	X			
changed signature PCA_DATA. createUser(String, String, int, String, AUserGroupDTO) -> ABOUser		X		
Picture.Insert(Picture, int, int) -> boolean Picture.getImageData(String) -> byte[] Picture.Save(String) -> boolean	X			X
Polygon.get3DEffect() -> boolean (also available in Publisher) Polygon.set3DEffect(boolean) -> boolean	X			
Process.deployOrgchart(Database, String) -> DeployResult	X			
Part of Visio import API:				
ReportBPMNSupport.getBPMNModelTypes() -> int[] ReportBPMNSupport.isBPMNModelType(int) -> boolean ReportBPMNSupport.postProcessBPMN(Model, boolean, boolean) -> boolean	X			
removed exception ReportExecutionException removed exception ReportObjectException	X			
ReportScheduler.deleteSchedules(ArisObject, String[]) -> boolean ReportScheduler.getSchedules(ArisObject) -> String[] ReportScheduler.getSchedulesForDatabaseUser(Database, boolean) -> String[] ReportScheduler.setScheduleActivation(Database, String[], boolean) -> void		X		
RoundedRectangle.get3DEffect() -> boolean (also available in Publisher) RoundedRectangle.set3DEffect(boolean) -> boolean	X			
RunResult.getMessage() -> List	X			

New / removed / deprecated / changed methods:	New	Changed	Removed	Deprecated
<p>ScriptAdmin report API:</p> <p>ScriptAdmin.createCategory(int,int,String) -> String ScriptAdmin.deleteCategory(int,String) -> boolean ScriptAdmin.deleteScript(int,String) -> boolean ScriptAdmin.exportFile(int,String,String) -> ZipEntry ScriptAdmin.exportScript(int,String,String[]) -> byte[] ScriptAdmin.getCategories(int,int) -> ScriptCategoryRI[] ScriptAdmin.getCategoryNames(int,String) -> Map ScriptAdmin.getScriptComponents() -> ScriptComponentInfoRI[] ScriptAdmin.getScriptInfos(int,String,int) -> ScriptInfoRI[] ScriptAdmin.importFile(int,String,String,byte[]) -> String ScriptAdmin.importScript(int,String,byte[],String[]) -> String ScriptAdmin.renameCategory(int,String,int,String) -> boolean ScriptAdmin.unzip(byte[]) -> byte[] ScriptAdmin.zip(byte[]) -> byte[] ScriptCategory.getCategoryID() -> String ScriptCategory.getComponentID() -> int ScriptCategory.getName() -> String ScriptComponentInfo.getComponentID() -> int ScriptComponentInfo.getComponentName() -> String ScriptInfo.getDescription() -> String ScriptInfo.getID() -> String ScriptInfo.getImports() -> String[] ScriptInfo.getName() -> String ScriptInfo.isSimpleFile() -> boolean </p>	X			
<p>ServerAdmin.backupDatabase(Database) -> byte[] ServerAdmin.backupDatabase(Database,File) -> boolean ServerAdmin.countDblItems(Database,int[]) -> DblInfo !!!last parameter was removed!! ServerAdmin. createArisDatabase(String,boolean) -> boolean ServerAdmin.reorganiseArisDatabase(Database,String) -> int ServerAdmin.reorganiseArisDatabase(Database,String,Collection) -> int ServerAdmin.restoreDatabase(File,String) -> boolean ServerAdmin.restoreDatabase(byte[],String) -> boolean </p>	X	X		
removed class Symbol				X

New / removed / deprecated / changed methods:	New	Changed	Removed	Deprecated
TextDef.getCreator() -> String				
TextDef.getLastModifier() -> String	X			
TextDef.getTimeOfCreation() -> ATimeStamp				
TextDef.getTimeOfLastModification() -> ATimeStamp				
TextDef.OID() -> int[]				X
TextOcc.getIncomingLinks() -> Link[]				
TextOcc.getLinks() -> Link[]	X			
TextOcc.getOutgoingLinks() -> Link[]				
changed result type TextOcc.setDisplayAsPostIt(boolean) -> boolean		X		
removed TextOcc.ObjectID(int) -> String (also available in Publisher)			X	
UML2 scripting:				
Omf*				
OmfScripting*	X			
Uml2Scripting*				
UML 1.x scripting				
removed class UmlEdgePresentation				
removed class UmlNodePresentation				
removed class UmlPresentation				X
removed class UmlReport				
removed class UmlScripting				
removed class UmlScriptingException				

New / removed / deprecated / changed methods:	New	Changed	Removed	Deprecated
UMC report component interface:				
UMC.getAllLicenses() -> List				
UMC.getAllPrivileges(boolean,boolean) -> List				
UMC.getAllUsergroups() -> List				
UMC.getAllUsers() -> List				
UMC.getAssignedUsergroupsForUser(UmcUser) -> List				
UMC.getAssignedUsergroupsForUserName(String) -> List				
UMC.getAssignedUsersForUsergroup(UmcUsergroup) -> List				
UMC.getAssignedUsersForUsergroupName(String) -> List				
UMC.getCurrentUser() -> UserWrapper				
UMC.getPrivilegesForUser(UmcUser,boolean,boolean,boolean) -> List				
UMC.getPrivilegesForUserName(String,boolean,boolean,boolean) -> List				
UMC.getPrivilegesForUsergroup(UmcUsergroup,boolean,boolean) -> List				
UMC.getPrivilegesForUsergroupName(String,boolean,boolean) -> List				
UMC.getSessionsForUser(UmcUser) -> List				
UMC.getSessionsForUserName(String) -> List				
UMC.getUserById(String) -> UserWrapper				
UMC.getUserByName(String) -> UserWrapper				
UMC.getUsergroupById(String) -> UsergroupWrapper				
UMC.getUsergroupByName(String) -> UsergroupWrapper				
UMC.getUsergroupsForPrivilegeQualifier(String) -> List				
UMC.getUsersForPrivilegeQualifier(String) -> List				
UmcLicense.compareTo(Object) -> int				
UmcLicense.getConsumedSeats() -> long				
UmcLicense.getExpirationDate() -> String				
UmcLicense.getFreeSeats() -> long				
UmcLicense.getName() -> String	X			
UmcLicense.getPrivilege() -> PrivilegeWrapper				
UmcLicense.getProduct() -> ProductWrapper				
UmcLicense.getQuantity() -> long				
UmcLicense.getType() -> String				
UmcPrivilege.compareTo(Object) -> int				
UmcPrivilege.getDisplayName() -> String				
UmcPrivilege.getId() -> String	X			
UmcPrivilege.getName() -> String				
UmcPrivilege.isLicensePrivilege() -> boolean				
UmcProduct.getCode() -> String	X			
UmcProduct.getName() -> String				
UmcProduct.getParent() -> ProductWrapper				

New / removed / deprecated / changed methods:	New	Changed	Removed	Deprecated
UmcSession.getCreated() -> String	X			
UmcUser.compareTo(Object) -> int				
UmcUser.getAttributes() -> Map				
UmcUser.getCreated() -> String				
UmcUser.getDescription() -> String				
UmcUser.getEmail() -> String				
UmcUser.getFirstName() -> String				
UmcUser.getId() -> String	X			
UmcUser.getLDAPDN() -> String				
UmcUser.getLastName() -> String				
UmcUser.getName() -> String				
UmcUser.getPhone() -> String				
UmcUser.isLDAP() -> boolean				
UmcUsergroup.compareTo(Object) -> int				
UmcUsergroup.getAttributes() -> Map				
UmcUsergroup.getCreated() -> String				
UmcUsergroup.getDescription() -> String				
UmcUsergroup.getId() -> String	X			
UmcUsergroup.getLDAPDN() -> String				
UmcUsergroup.getName() -> String				
UmcUsergroup.isLDAP() -> boolean				
The standard report „User“ object:				X
User.IsAssigned() -> boolean				
User.getCreator() -> String				
User.getCustomAttribute(String) -> String				
User.getCustomAttributes() -> Map				
User.getLastModifier() -> String	X			
User.getTimeOfCreation() -> ATimeStamp				
User.getTimeOfLastModification() -> ATimeStamp				
User.setCustomAttribute(String, String) -> boolean				
User.OID() -> int[]				X

New / removed / deprecated / changed methods:	New	Changed	Removed	Deprecated
The standard report „UserGroup“ object: UserGroup.IsAssigned() -> boolean UserGroup.getCreator() -> String UserGroup.getCustomAttribute(String) -> String UserGroup.getCustomAttributes() -> Map UserGroup.getLastModifier() -> String UserGroup.getTimeOfCreation() -> ATimeStamp UserGroup.getTimeOfLastModification() -> ATimeStamp UserGroup.setCustomAttribute(String, String) -> boolean UserGroup.OID() -> int[]	X			X
Part of visio import API VAnnotation.toString() -> String VConnect.getFromCell() -> String VConnect.getFromPart() -> String VConnect.getFromSheet() -> String VConnect.getToCell() -> String VConnect.getToPart() -> String VConnect.getToSheet() -> String VConnect.toString() -> String VGeometry.getElement() -> Element VGeometry.getEllipse() -> List VGeometry.getLineTo() -> List VGeometry.getMoveTo() -> List VGeometry.getNamespace() -> Namespace VGeometry.toString() -> String VIS_Master.addShapeOfMaster(String, String, String, int) -> void VIS_Master.addShapesOfMaster(List) -> void VIS_Master.getAllShapesOfMaster() -> HashMap VIS_Master.getMasterID() -> String VIS_Master.getMasterNameU() -> String VIS_Master.getMasterReadableName() -> String VIS_Master.getMasterSymbolNum() -> int VIS_Master.getMasterUniqueId() -> String VIS_Master.getShapeNameUOfMasterByShapeID(String) -> String VIS_Master.getShapeSymbolNumOfMasterShapeByShapeID(String) -> int VIS_Master.isIsHidden() -> boolean VIS_Master.toString() -> String VIS_MasterShape.getID() -> String	X			

New / removed / deprecated / changed methods:	New	Changed	Removed	Deprecated
<p>VIS_MasterShape.getName() -> String</p> <p>VIS_MasterShape.getNameU() -> String</p> <p>VIS_MasterShape.getSymbolNum() -> int</p> <p>VIS_MasterShape.toString() -> String</p> <p>VIS_PointOfReference.applyScale(double) -> double</p> <p>VIS_PointOfReference.applyScale(double, String) -> double</p> <p>VIS_PointOfReference.copy() -> VIS_PointOfReference</p> <p>VIS_PointOfReference.getArisPosition(VisioLoader, VShape) -> Point</p> <p>VIS_PointOfReference.getLinePoint(Point2D\$Double) -> Point</p> <p>VIS_PointOfReference.initPointRef(VisioLoader, VShape, boolean) -> void</p> <p>VIS_PointOfReference.toString() -> String</p> <p>VName.getName() -> String</p> <p>VName.getNameU() -> String</p> <p>VName.toString() -> String</p> <p>VPage.getName() -> String</p> <p>VPage.getNameU() -> String</p> <p>VPage.getPageElement() -> Element</p> <p>VPage.name() -> String</p> <p>VPage.toString() -> String</p> <p>VShape.getID() -> String</p> <p>VShape.getMaster() -> String</p> <p>VShape.getNameU() -> String</p> <p>VShape.getShapeElement() -> Element</p> <p>VShape.getText() -> String</p> <p>VShape.getType() -> String</p> <p>VShape.name() -> String</p> <p>VShape.toString() -> String</p> <p>VShapeSize.toString() -> String</p> <p>VisioLoader.createNewVisPointOfReference(VPage) -> VIS_PointOfReference</p> <p>VisioLoader.destroy() -> void</p> <p>VisioLoader.getAlignH(VShape) -> int</p> <p>VisioLoader.getAlignV(VShape) -> int</p> <p>VisioLoader.getChildShapes(VPage) -> VShape[]</p> <p>VisioLoader.getChildShapes(VShape) -> VShape[]</p> <p>VisioLoader.getChildrenRecursive(VPage, String) -> Map</p> <p>VisioLoader.getColor(String) -> Integer</p> <p>VisioLoader.getConnects(VPage) -> VConnect[]</p> <p>VisioLoader.getFileName() -> String</p> <p>VisioLoader.getHeight(VShape) -> double</p> <p>VisioLoader.getHyperlink(VShape) -> String</p>	X			

New / removed / deprecated / changed methods:	New	Changed	Removed	Deprecated
VisioLoader.getLinePoints(VShape,VIS_PointOfReference) -> Point[]				
VisioLoader.getMasterMapping(Mapping) -> Map				
VisioLoader.getMasterShapeRootShapes(String) -> VShape[]				
VisioLoader.getPageAnnotations(VPage) -> VAnnotation[]				
VisioLoader.getPageHeight(VPage) -> String				
VisioLoader.getPageNames() -> VName[]				
VisioLoader.getPageShapes(VPage) -> VShape[]				
VisioLoader.getPages() -> VPage[]				
VisioLoader.getPositionLocPin(VShape) -> Point2D\$Double				
VisioLoader.getPositionPin(VShape) -> Point2D\$Double				
VisioLoader.getReviewers() -> HashMap				
VisioLoader.getShapeFillBkgnd(VShape) -> String				
VisioLoader.getShapeFillForeground(VShape) -> String				
VisioLoader.getShapeFillPattern(VShape) -> String				
VisioLoader.getShapeGeometry(VShape) -> VGeometry				
VisioLoader.getShapeLineColor(VShape) -> String				
VisioLoader.getShapeLinePattern(VShape) -> String				
VisioLoader.getShapeLineRounding(VShape) -> String				
VisioLoader.getShapeProperties(VShape) -> HashMap				
VisioLoader.getShapeProperty(VShape,String) -> String				
VisioLoader.getShapeSize(VShape) -> VShapeSize				
VisioLoader.getUsedTemplate() -> String				
VisioLoader.isShapeFreeFormText(VShape) -> boolean				
VisioLoader.setUsedTemplate(String) -> void			X	
Versioning.archiveItems(ArisObject[],String,VersioningOptions,boolean) -> int			X	
removed XMLExport.createDefaultXMLExportRootOptions(Group,int[]) -> XMLExportOptionsWrapper			X	
XlsSheet.setPageSize(MediaSizeFormat) -> void	X			
ZipEntry.getData() -> byte[]	X			
ZipEntry.getName() -> String				
ArisData.GetDatabaseNames(String) -> String[]				
ArisData.getTenantName() -> String				
ArisData.openDatabase(String,String,int) -> Database				
ArisData.openDatabase(String,String,int,int) -> Database				
ArisData.openDatabaseVersion(String,String,int,int) -> Database				
ArisData.openDatabaseVersion(String,String,int,int,int,boolean) -> Database				

New / removed / deprecated / changed methods:	New	Changed	Removed	Deprecated
ArisData.createConfigurationFilter(String,int,String,String,boolean) -> ConfigurationFilterAccess				X
Context.deleteFile(String,int) -> boolean. Deletes a „file“ controlled by the report environment.	X			
removed Context.getTempPath() -> String (also available in Publisher)			X	

Useful Report hints

1. Use `Context.setProperty("model-as-emf", true)` once (before writing model graphics to the report)

- Makes PDF model graphics more brilliant
- maximum scalability
- smaller PDF files
- drawback: up to 10x time to create the image (due to a bug in an external library that will hopefully be fixed soon)

2. Open other databases using `ArisData.openDatabase()`

- you can log into the same DB as another user or with another filter
- do not forget to close them afterwards!

3. Save memory by using `Database.clearCaches()`

- use it where it makes sense (after using many objects that are not needed any more afterwards)

4. Clean up after an error! especially

- after openDatabase commands
- handle output file content in case of an error

5. Always use try / catch for error handling. You can report detailed error logs to the user using this code:

```
try {
    your code which might throw exceptions
}
catch(ex) {
    var line = ex.lineNumber
    var message = ex.message
    var filename = ex.fileName
    var exJava = ex.javaException
    if(exJava!=null)      {
        var aStackTrace = exJava.getStackTrace()
        for(var iST=0; iST<aStackTrace.length; iST++)  {
            message = message + "\n" + aStackTrace[iST].toString()
        }
    }
    Dialogs.MsgBox("Exception in file "+filename+", line "+line+":\n"+message )
}
```

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