

TIBCO Staffware Process Objects (SPO) COM Object Model

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Object Keys

Class ID's

Class:	Key:
SWAction	StepName Type
SWActiveUser	Name
SWAttribute	Name
SWAuditStep	Name (ListIndex: 1 to n)
SWAutoFwd	HostingNode ProcName StepName
SWAWorkQ	Name@HostingNode
SWCase	ComputerName ProcNode CaseReference
SWCaseDataQParam	FieldName
SWCaseDataQParamDef	FieldName
SWCasePredictQParam	FieldName
SWClientInfo	Name
SWConditional	StepName Condition
SWConfigInfo	Name
SWDeadlineValue	(Expressed in text: Minutes, Hours, Days, Weeks, Months, Years, Date, Time)
SWDurationValue	(Expressed in text: MicroSeconds, Seconds, Minutes, Hours, Days, Weeks, Months, Years)
SWDynamicSubProcStep	ProcName StepName CaseNumber
SWEAIStep	ProcName StepName CaseNumber
SWEntUser	Name
SWEventStep	ProcName StepName CaseNumber
SWExtProcess	ExtProcessName
SWFConditional	IfRow
SWField	Name
SWFMarking	Name Row Column
SWFRow	RowNumber
SWFwdItem	QName@HostingNode QueueType (QueueType: T=Test or R=Release)
SWGraftStep	ProcName StepName CaseNumber
SWGGroup	Name
SWLabel	Row Column
SWListValidation	Name
SWMarking	Name
SWNode	ComputerName NodeName IsDirector InstanceNumber
SWNodeInfo	ComputerName NodeName IsDirector InstanceNumber
SWOSUser	Name
SWOutstandingItem	WorkQName MailID
SWParticipation	"Participation"<Index + 1>
SWPredictedItem	ProcName StepName AddrToName
SWProc	HostingNode Name ProcMajorVer ProcMinorVer
SWProcAudit	Integer [ListIndex: 1 to n]
SWProcGroup	HostingNode Name
SWPublicField	Name
SWQSessionInfo	ClientName
SWRole	Name
SWSALInfo	UserName
SWSortField	FieldName
SWStep	Name
SWSubProcStep	StepName SubCaseNumber
SWTable	Name
SWTableField	Name
SWThreadInfo	ID
SWTransControlStep	ProcName StepName CaseNumber
SWUser	Name
SWWorkItem	AddrToName MailID
SWWorkQ	Name@HostingNode Mode (Mode: T=Test or R=Release)

swNodeInfoID	= 1	swAddressUserRefID	= 40
swUserID	= 2	swLogID	= 41
swRoleID	= 3	swJavaExcpID	= 42
swProcID	= 4	swFMarkingID	= 43
swAttributeID	= 5	swFConditionalID	= 44
swGroupID	= 6	swFRowID	= 45
swWorkQID	= 7	swLabelID	= 46
swBstrID	= 8	swFontID	= 47
swAutoFwdID	= 9	swListValidationID	= 48
swFwdItemID	= 10	swTableID	= 49
swFieldID	= 11	swTableFieldID	= 50
swStepID	= 12	swDateValueID	= 51
swAuditStepID	= 13	swTimeValueID	= 52
swOSUserID	= 14	swNumericValueID	= 53
swNodeID	= 15	swFormID	= 54
swConfigInfoID	= 16	swXListID	= 55
swSALInfoID	= 17	swCriteriaWIID	= 56
swClientInfoID	= 18	swCriteriaCID	= 57
swThreadInfoID	= 19	swAdminID	= 59
swQSessionInfoID	= 20	swAWorkQID	= 60
swActiveUserID	= 21	swParticipationID	= 61
swSortFieldID	= 22	swRedirectionID	= 62
swMarkingID	= 23	swCaseDataQParamDefID	= 64
swEntUserID	= 24	swCaseDataQParamID	= 65
swActionID	= 25	swPublicFieldID	= 66
swConditionalID	= 26	swOutstandingItemID	= 67
swDeadlineValueID	= 27	swSubProcStepID	= 68
swCaseID	= 28	swPredictedItemID	= 69
swWorkItemID	= 29	swCasePredictQParamID	= 70
swEnterpriseID	= 30	swDurationID	= 71
swNodeInfoExID	= 31	swDurationValueID	= 72
swViewID	= 32	swCriteriaPID	= 73
swListID	= 33	swExtWorkItemID	= 74
swLocListID	= 34	swProcAuditID	= 76
swDeadlineID	= 35	swProcGroupID	= 77
swCommandID	= 36	swGraftStepID	= 78
swPermissionID	= 37	swEAIStepID	= 79
swPriorityID	= 38	swEventStepID	= 80
swAccessUserRefID	= 39	swDynamicSubProcStepID	= 81
		swExtProcessID	= 82
		swTransControlStepID	= 83

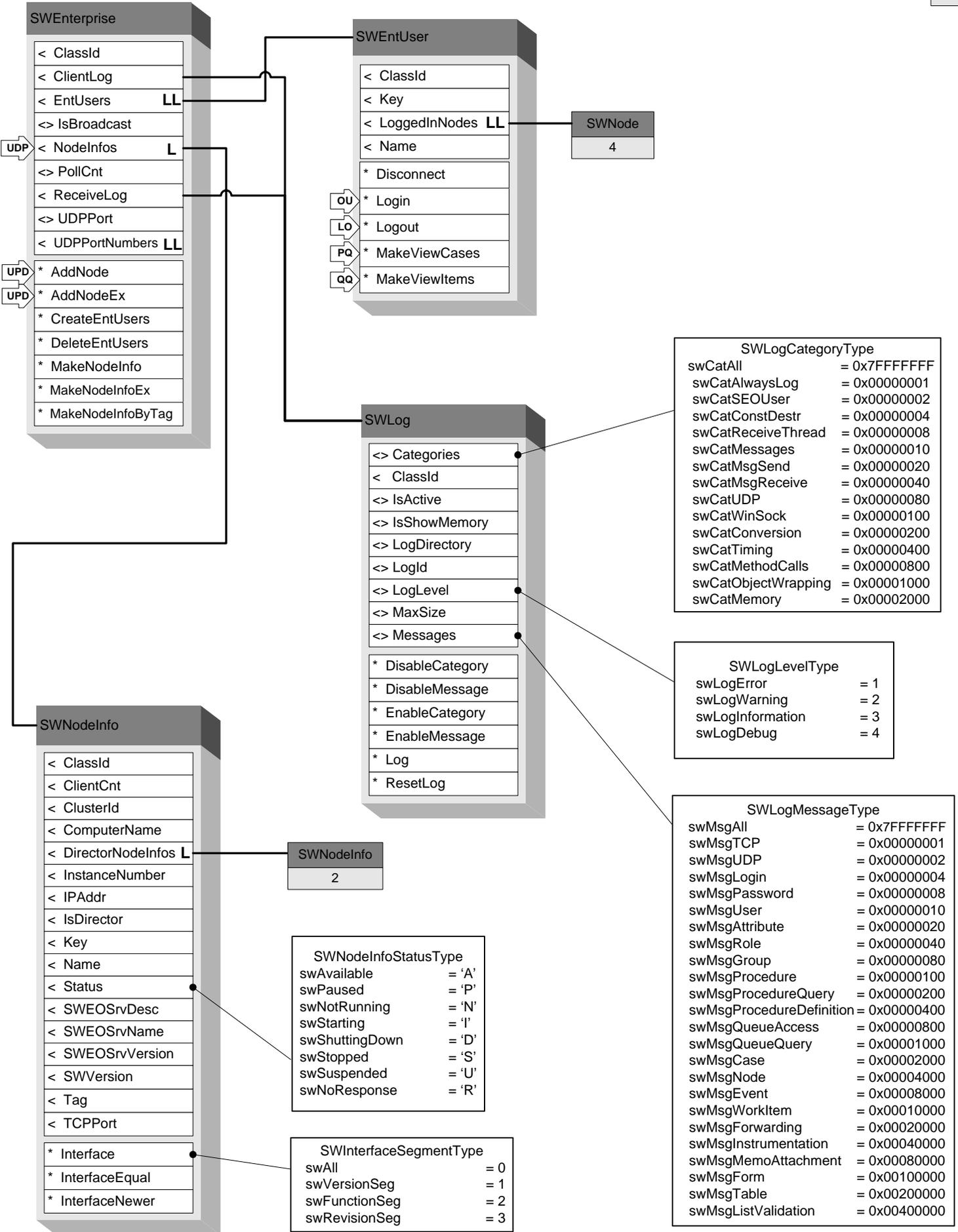
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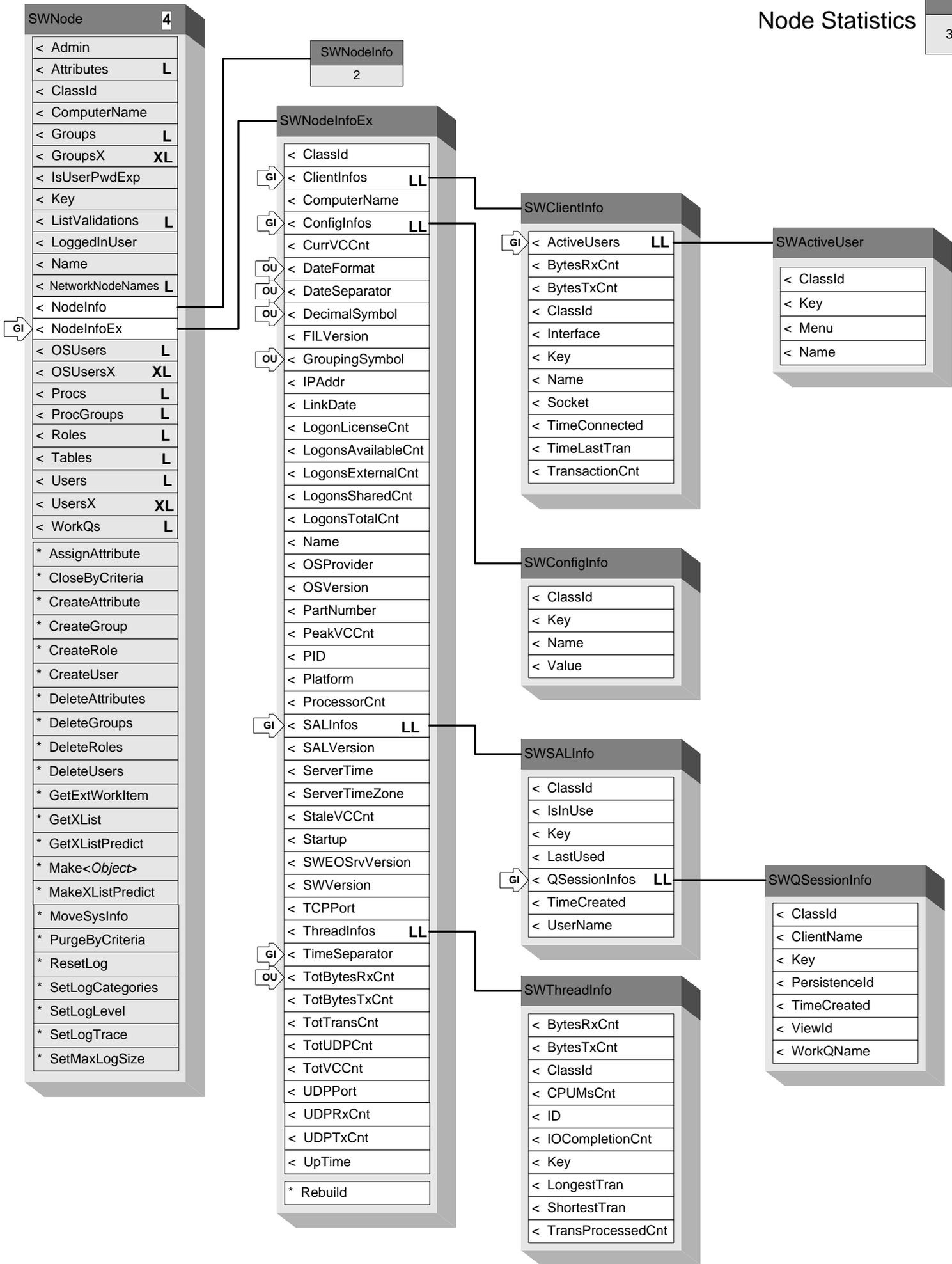
< Read-only property
<> Read/write property
* Method

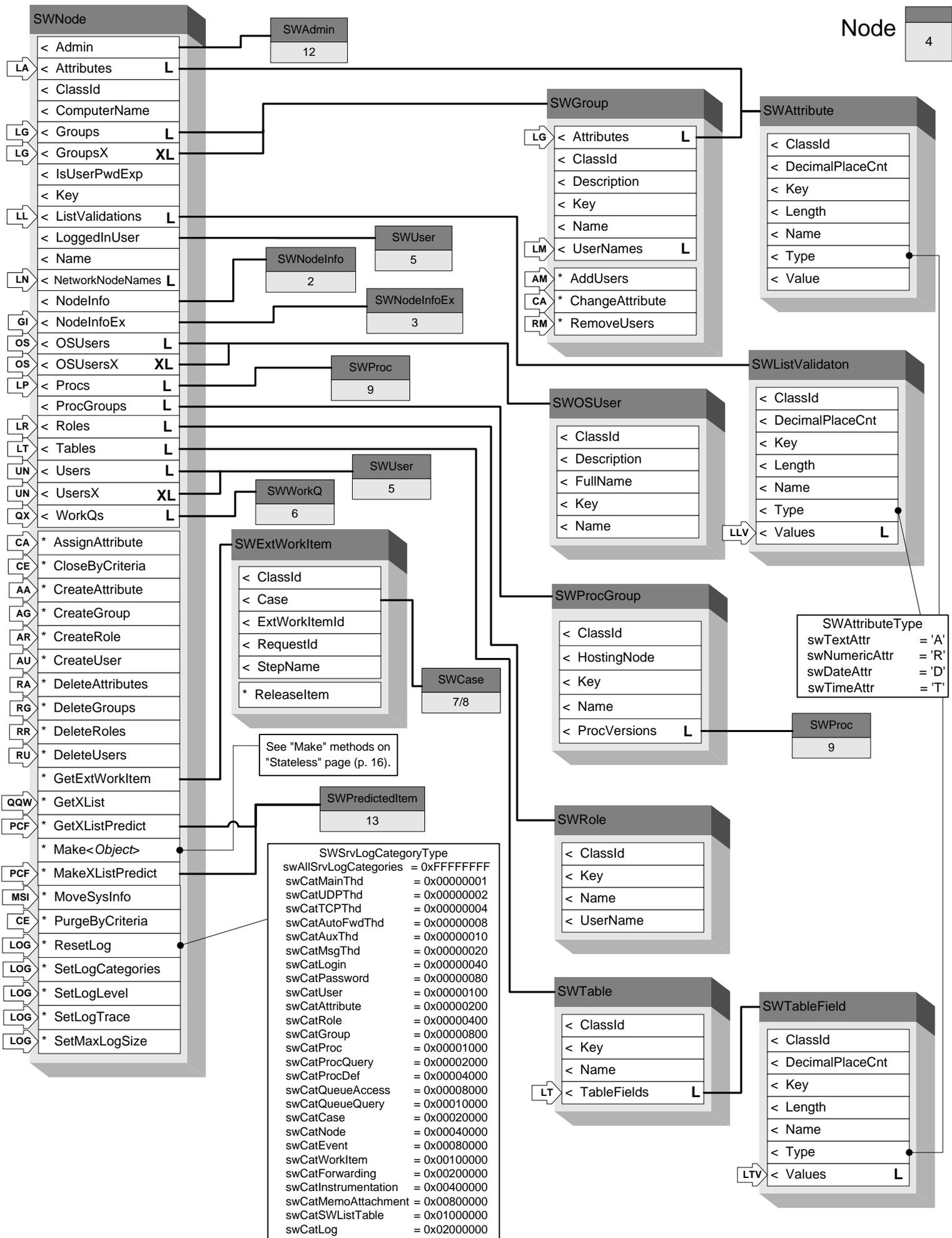
L List
LL Local List
VL View List
XL XList

SWStep Object Reference

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SWNode 4

< Admin
< Attributes L
< ClassId
< ComputerName
< Groups L
< GroupsX XL
< IsUserPwdExp
< Key
< ListValidations L
< LoggedInUser
< Name
< NetworkNodeNames L
< NodeInfo
< NodeInfoEx
< OSUsers L
< OSUsersX XL
< Procs L
< ProcGroups L
< Roles L
< Tables L
< Users L
< UsersX XL
< WorkQs L
* AssignAttribute
* CloseByCriteria
* CreateAttribute
* CreateGroup
* CreateRole
* CreateUser
* DeleteAttributes
* DeleteGroups
* DeleteRoles
* DeleteUsers
* GetExtWorkItem
* GetXList
* GetXListPredict
* Make<Object>
* MakeXListPredict
* MoveSysInfo
* PurgeByCriteria
* ResetLog
* SetLogCategories
* SetLogLevel
* SetLogTrace
* SetMaxLogSize

SWUser

LU < Attributes L
AP < AuditProcs L
LF < AutoFwds L
< ClassId
< Description
LU < Groups L
< Key
< MenuName
< Name
LR < RoleNames L
LS < StartProcs L
LAQ < SupervisedAWorkQNames L
LV < ViewOnlyQs L
LQ < WorkQs L
CA * ChangeAttribute
SP * ChangePassword
AF * CreateAutoFwd
AX * DeleteAutoFwd
PQ * MakeViewCases
QQ * MakeViewItems

SWAutoFwd

< ClassId
< FwdQName
< FwdQNode
< HostingNode
< Key
< ProcName
< StepName
< UserName

SWAttribute 4

< ClassId
< DecimalPlaceCnt
< Key
< Length
< Name
< Type
< Value

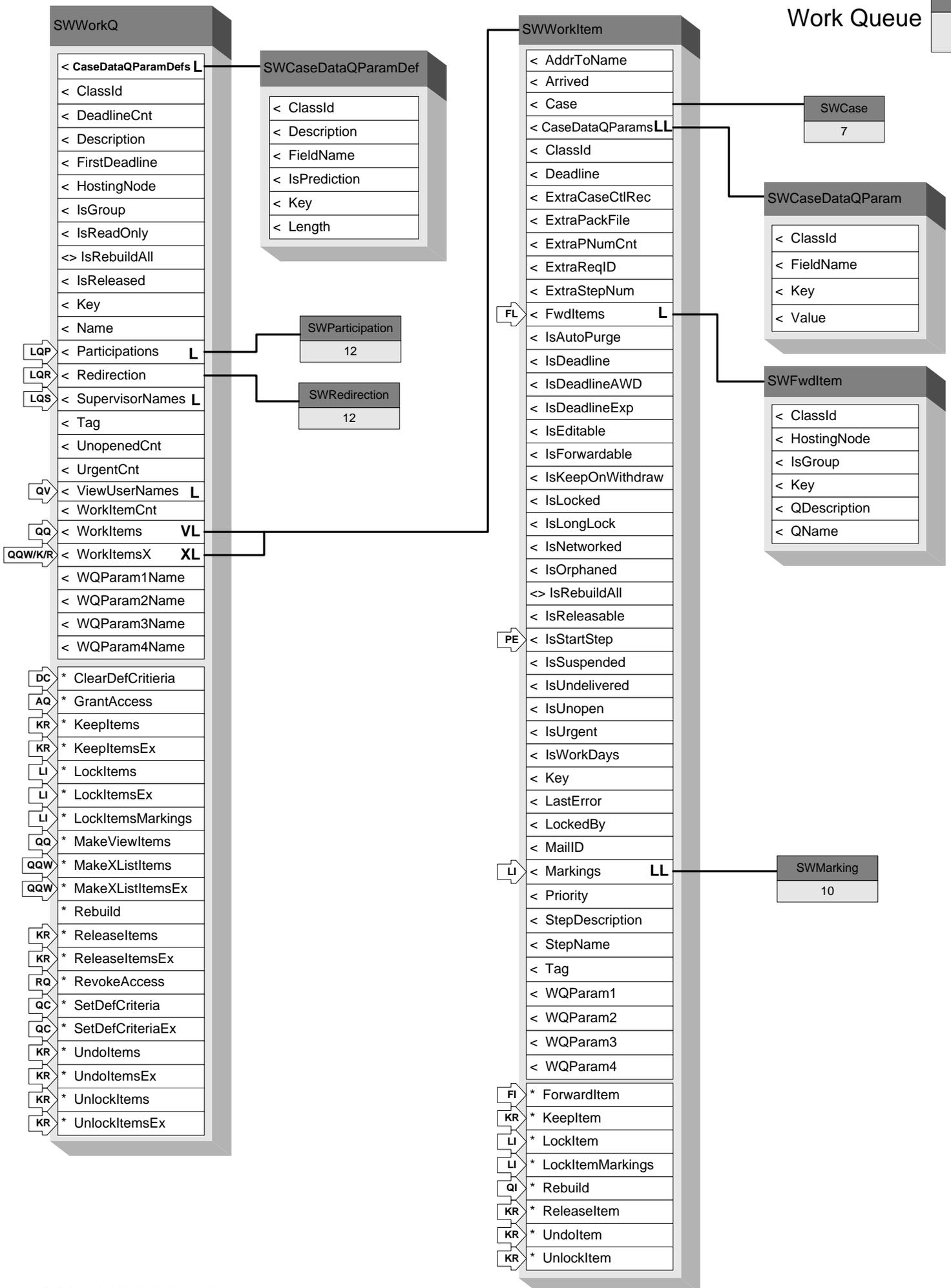
SWProc 9

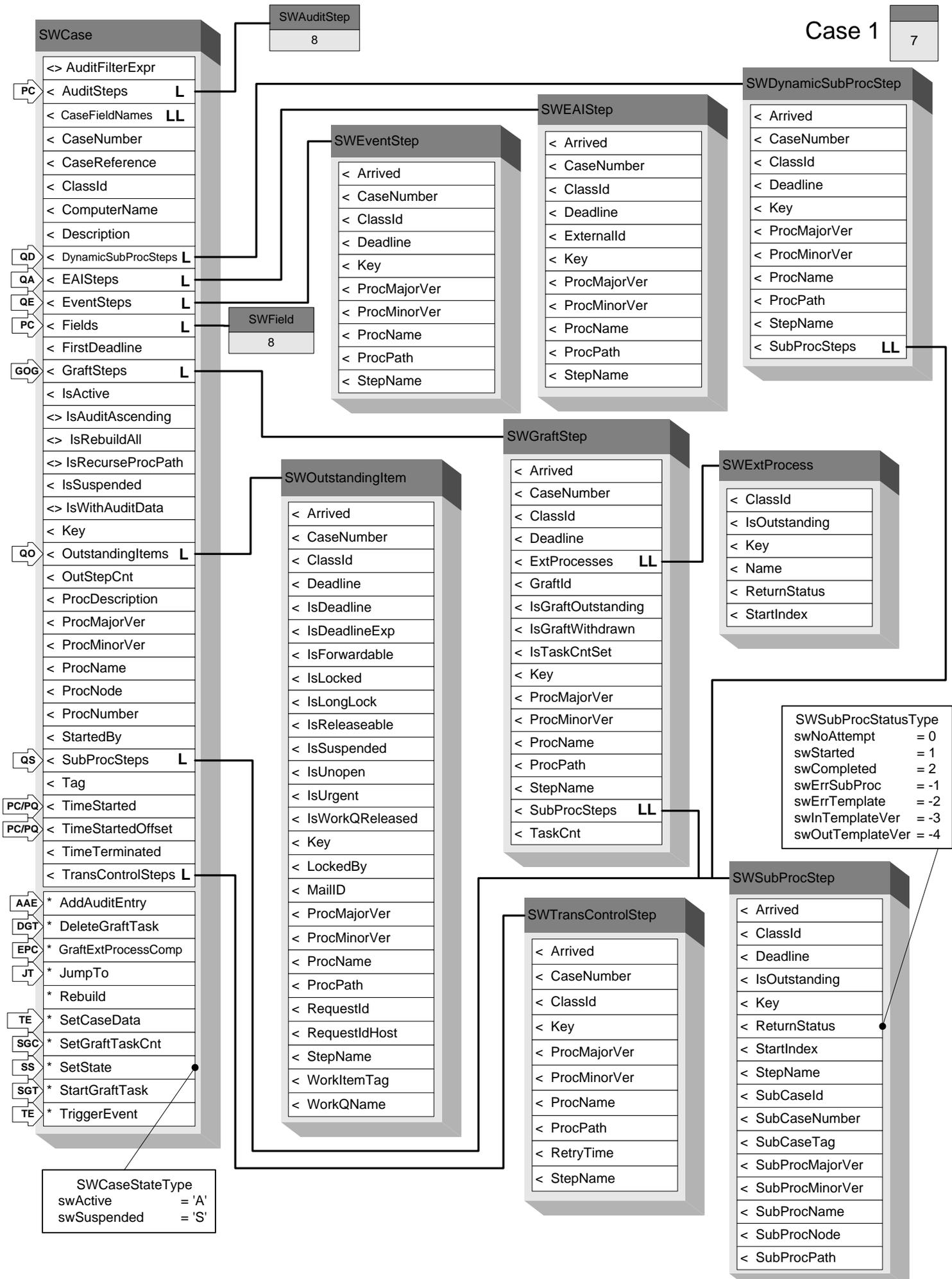
SWWorkQ 6

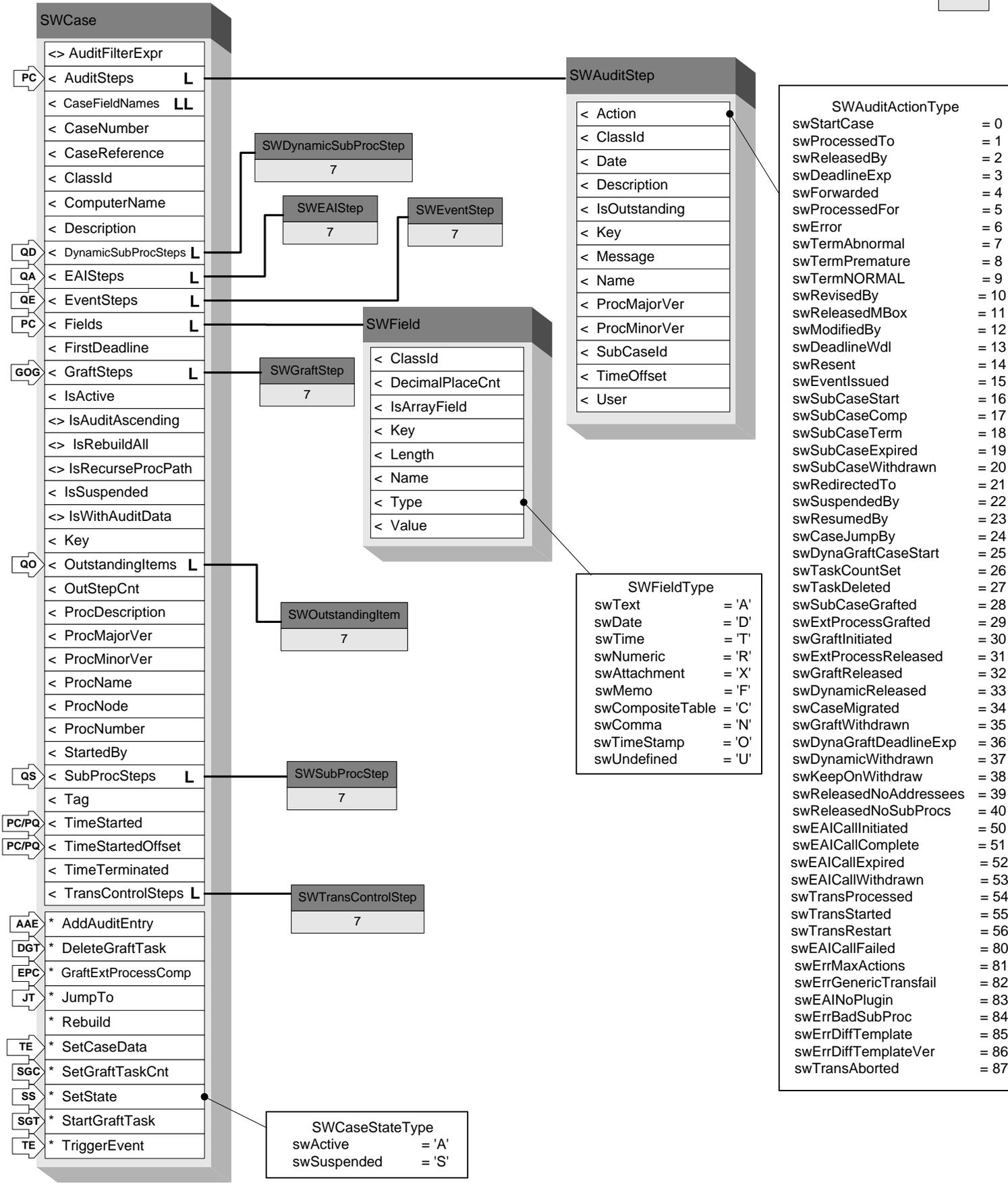
SWGroup 4

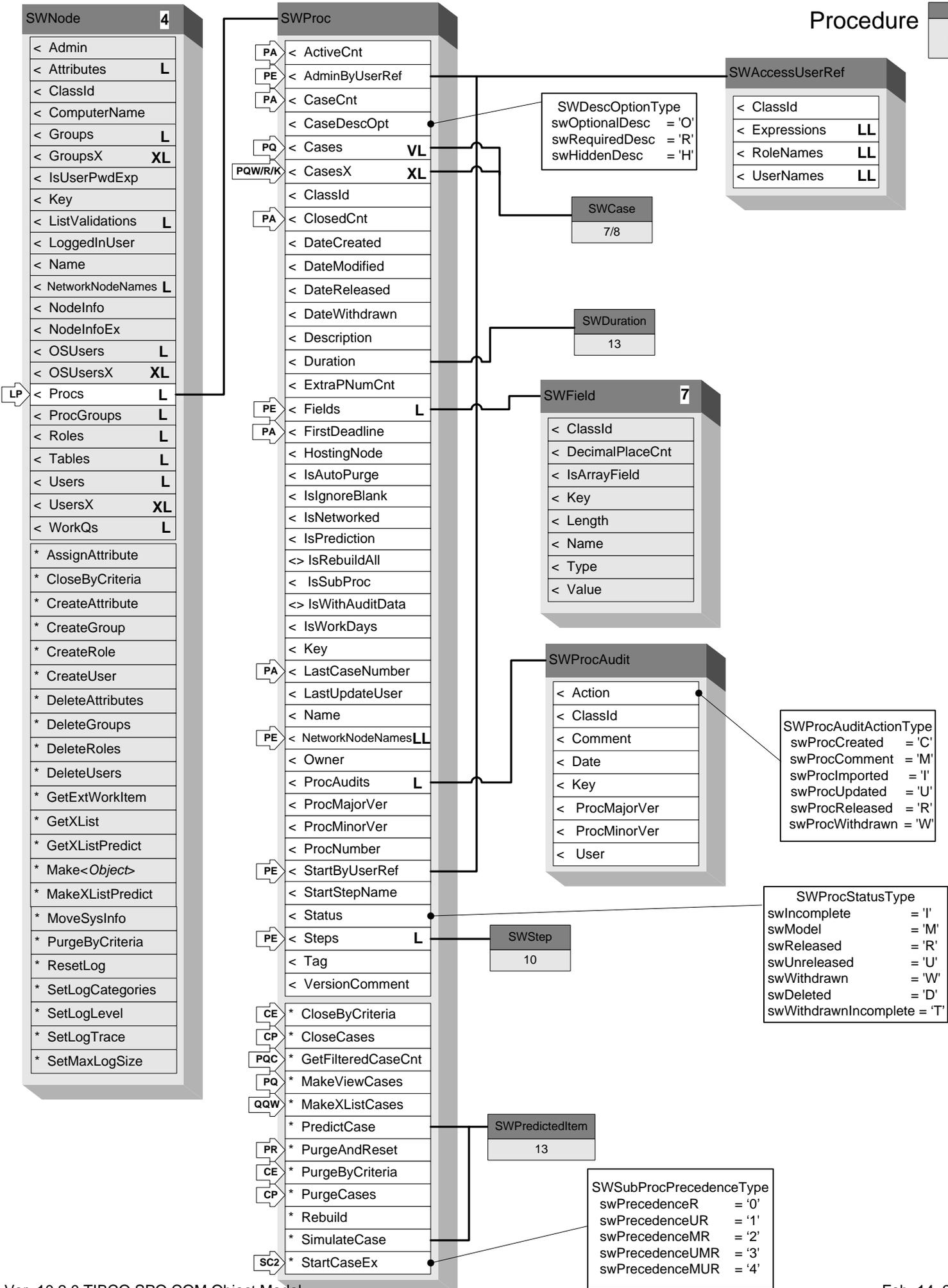
< Attributes L
< ClassId
< Desc
< Key
< Name
< UserNames L
* AddUsers
* ChangeAttribute
* RemoveUsers

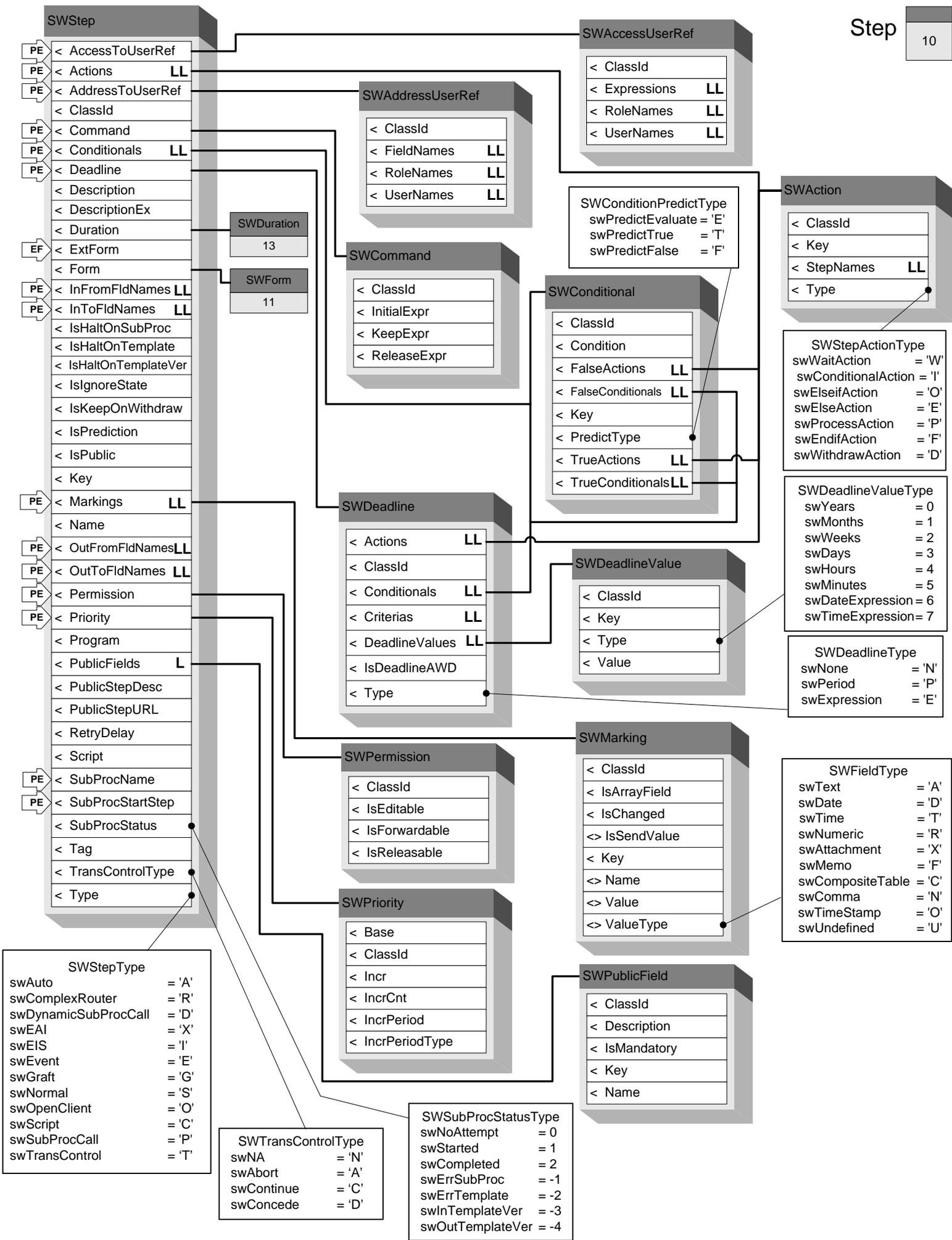
UN











- PE < AccessToUserRef
- PE < Actions LL
- PE < AddressToUserRef
- < ClassId
- PE < Command
- PE < Conditionals LL
- PE < Deadline
- < Description
- < DescriptionEx
- < Duration
- EF < ExtForm
- < Form
- PE < InFromFldNames LL
- PE < InToFldNames LL
- < IsHaltOnSubProc
- < IsHaltOnTemplate
- < IsHaltOnTemplateVer
- < IsIgnoreState
- < IsKeepOnWithdraw
- < IsPrediction
- < IsPublic
- < Key
- PE < Markings LL
- < Name
- PE < OutFromFldNames LL
- PE < OutToFldNames LL
- PE < Permission
- PE < Priority
- < Program
- < PublicFields L
- < PublicStepDesc
- < PublicStepURL
- < RetryDelay
- < Script
- PE < SubProcName
- PE < SubProcStartStep
- < SubProcStatus
- < Tag
- < TransControlType
- < Type

SWDuration	13
SWForm	11

SWTransControlType	
swNA	= 'N'
swAbort	= 'A'
swContinue	= 'C'
swConcede	= 'D'

SWSubProcStatusType	
swNoAttempt	= 0
swStarted	= 1
swCompleted	= 2
swErrSubProc	= -1
swErrTemplate	= -2
swInTemplateVer	= -3
swOutTemplateVer	= -4

SWStepType	
swAuto	= 'A'
swComplexRouter	= 'R'
swDynamicSubProcCall	= 'D'
swEAI	= 'X'
swEIS	= 'I'
swEvent	= 'E'
swGraft	= 'G'
swNormal	= 'S'
swOpenClient	= 'O'
swScript	= 'C'
swSubProcCall	= 'P'
swTransControl	= 'T'

SWAccessUserRef	
< ClassId	
< Expressions	LL
< RoleNames	LL
< UserNames	LL

SWAddressUserRef	
< ClassId	
< FieldNames	LL
< RoleNames	LL
< UserNames	LL

SWCommand	
< ClassId	
< InitialExpr	
< KeepExpr	
< ReleaseExpr	

SWDeadline	
< Actions	LL
< ClassId	
< Conditionals	LL
< Criterias	LL
< DeadlineValues	LL
< IsDeadlineAWD	
< Type	

SWDeadlineValue	
< ClassId	
< Key	
< Type	
< Value	

SWMarking	
< ClassId	
< IsArrayField	
< IsChanged	
<> IsSendValue	
< Key	
<> Name	
<> Value	
<> ValueType	

SWPriority	
< Base	
< ClassId	
< Incr	
< IncrCnt	
< IncrPeriod	
< IncrPeriodType	

SWPublicField	
< ClassId	
< Description	
< IsMandatory	
< Key	
< Name	

SWConditional	
< ClassId	
< Condition	
< FalseActions	LL
< FalseConditionals	LL
< Key	
< PredictType	
< TrueActions	LL
< TrueConditionals	LL

SWConditionPredictType	
swPredictEvaluate	= 'E'
swPredictTrue	= 'T'
swPredictFalse	= 'F'

SWAction	
< ClassId	
< Key	
< StepNames	LL
< Type	

SWStepActionType	
swWaitAction	= 'W'
swConditionalAction	= 'I'
swElseifAction	= 'O'
swElseAction	= 'E'
swProcessAction	= 'P'
swEndifAction	= 'F'
swWithdrawAction	= 'D'

SWDeadlineValueType	
swYears	= 0
swMonths	= 1
swWeeks	= 2
swDays	= 3
swHours	= 4
swMinutes	= 5
swDateExpression	= 6
swTimeExpression	= 7

SWDeadlineType	
swNone	= 'N'
swPeriod	= 'P'
swExpression	= 'E'

SWFieldType	
swText	= 'A'
swDate	= 'D'
swTime	= 'T'
swNumeric	= 'R'
swAttachment	= 'X'
swMemo	= 'F'
swCompositeTable	= 'C'
swComma	= 'N'
swTimeStamp	= 'O'
swUndefined	= 'U'

SWStep		9
< AccessToUserRef		
< Actions	LL	
< AddressToUserRef		
< ClassId		
< Command		
< Conditionals	LL	
< Deadline		
< Description		
< DescriptionEx		
< Duration		
< ExtForm		
< Form		
< InFromFldNames	LL	
< InToFldNames	LL	
< IsHaltOnSubProc		
< IsHaltOnTemplate		
< IsHaltOnTemplateVer		
< IsIgnoreState		
< IsKeepOnWithdraw		
< IsPrediction		
< IsPublic		
< Key		
< Markings	LL	
< Name		
< OutFromFldNames	LL	
< OutToFldNames	LL	
< Permission		
< Priority		
< Program		
< PublicFields	L	
< PublicStepDesc		
< PublicStepURL		
< RetryTime		
< Script		
< SubProcName		
< SubProcStartStep		
< SubProcStatus		
< Tag		
< TransControlType		
< Type		

SWForm	
< ClassId	
< FConditionals	L
< FMarkings	L
< FRows	L

SWFConditional	
< ClassId	
< Condition	
< ElseRow	
< EndIfRow	
< IfRow	
< Key	

SWFont	
< ClassId	
< FontColor	
< FontPlatform	
< FontSize	
< FontType	
< IsFontBold	
< IsFontItalic	
< IsFontUnderline	

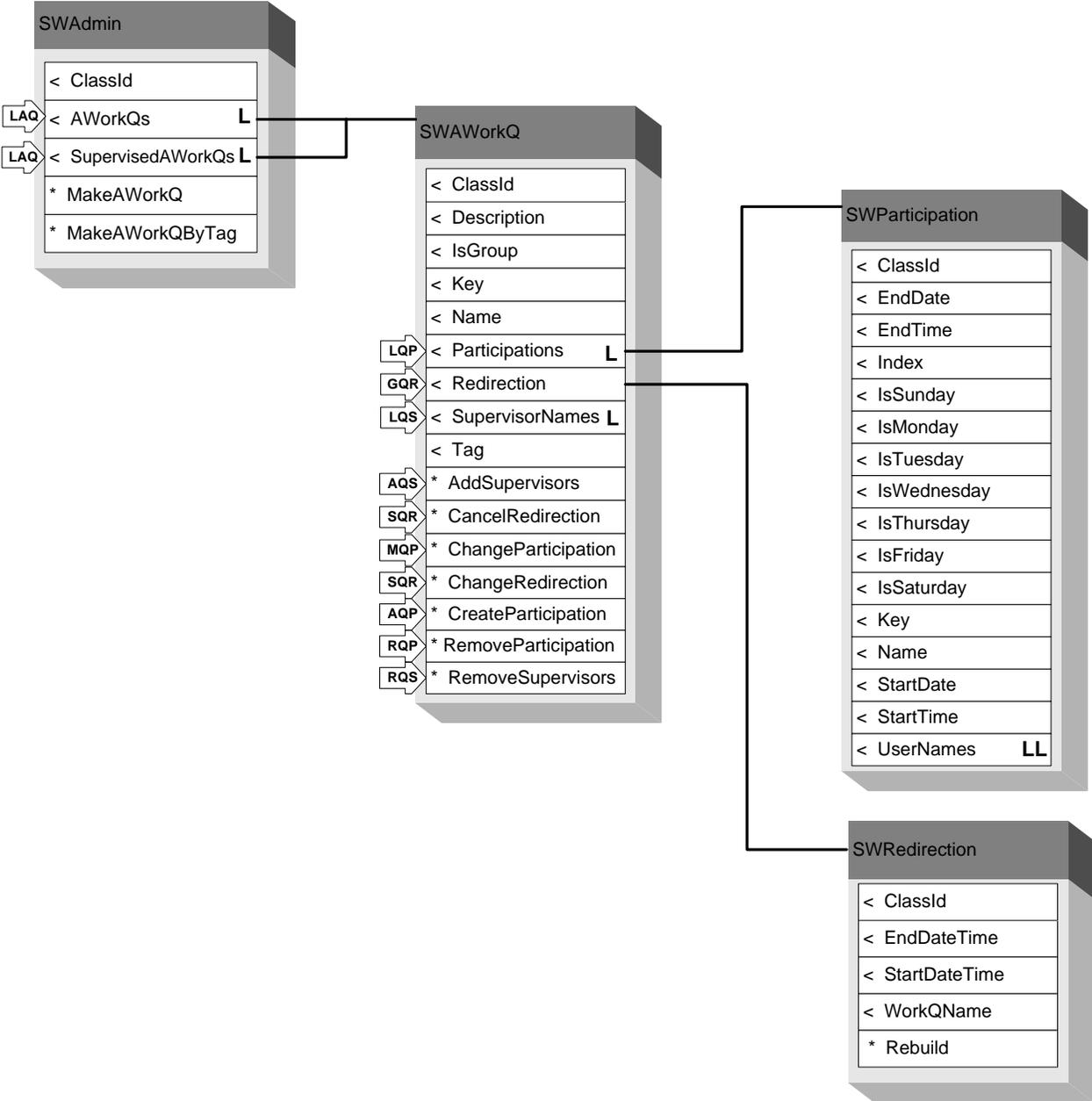
SWFMarking	
< ClassId	
< Column	
< DecimalPlaceCnt	
< ExprValidations	LL
< Font	
< Help	
< IsArrayField	
< Key	
< Length	
< ListNames	LL
< Name	
< Row	
< Type	
< ValueType	

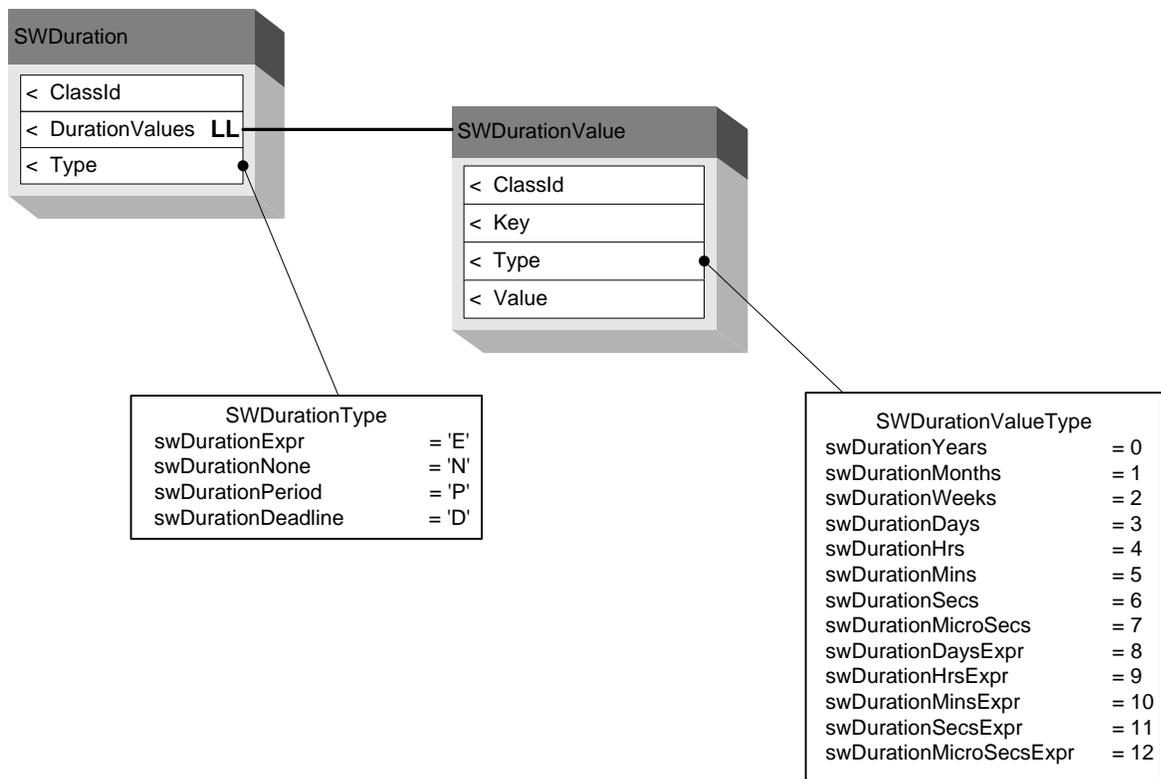
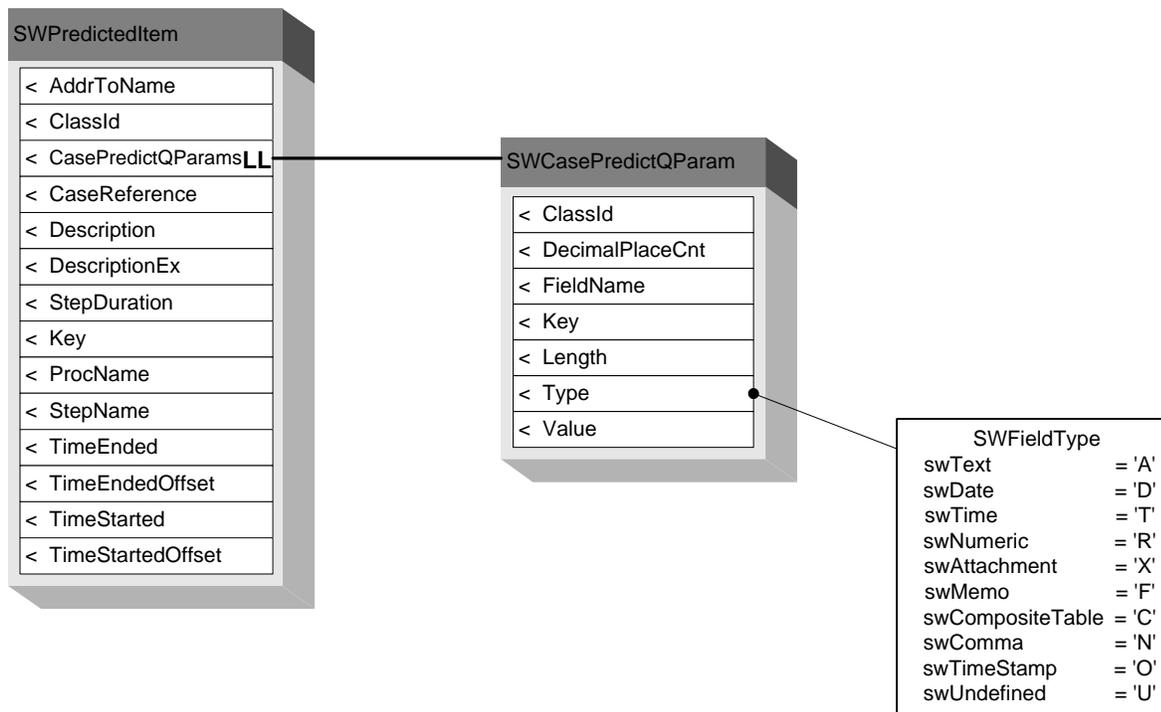
SWMarkingType	
swOptional	= 'O'
swRequired	= 'R'
swHidden	= 'H'
swDisplay	= 'D'
swCalculated	= 'C'
swEmbedded	= 'E'

SWFRow	
< ClassId	
< FalseConditions	LL
< FMarkings	LL
< Key	
< Labels	LL
< RowNumber	
< TrueConditions	LL

SWLabel	
< ClassId	
< Column	
< Font	
< Key	
< LabelText	
< Row	

SWFieldType	
swText	= 'A'
swDate	= 'D'
swTime	= 'T'
swNumeric	= 'R'
swAttachment	= 'X'
swMemo	= 'F'
swCompositeTable	= 'C'
swComma	= 'N'
swTimeStamp	= 'O'
swUndefined	= 'U'





The following enumerations are returned in the Type property to identify the type of objects in the list, local list, or view.

Object ClassId:

Objects on SWLists

swNodeInfoID	= 1	swDateValueID	= 51
swUserID	= 2	swTimeValueID	= 52
swRoleID	= 3	swNumericValueID	= 53
swProcID	= 4	swWorkQID	= 60
swAttributeID	= 5	swParticipationID	= 61
swGroupID	= 6	swCaseDataQParamDefID	= 64
swWorkQID	= 7	swPublicFieldID	= 66
swBstrID	= 8	swOutstandingItemID	= 67
swAutoFwdID	= 9	swSubProcStepID	= 68
swFwdItemID	= 10	swPredictedItemID	= 69
swFieldID	= 11	swProcAuditID	= 76
swStepID	= 12	swProcGroupID	= 77
swAuditStepID	= 13	swGraftStepID	= 78
swOSUserID	= 14	swEAIStepID	= 79
swFMarkingID	= 43	swEventStepID	= 80
swFConditionalID	= 44	swDynamicSubProcStepID	= 81
swFRowID	= 45	swTransControlStepID	= 83
swListValidationID	= 48		
swTableID	= 49		
swTableFieldID	= 50		

Objects on SWLocLists

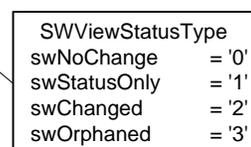
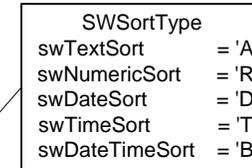
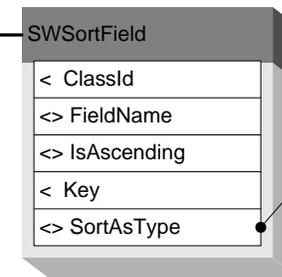
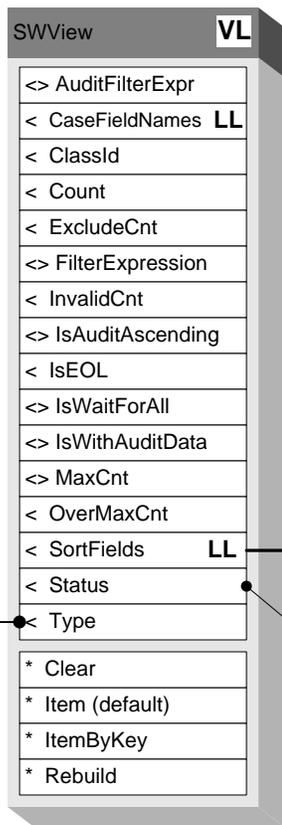
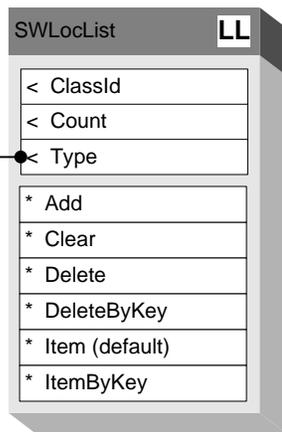
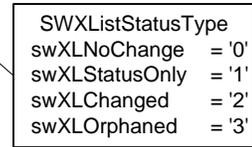
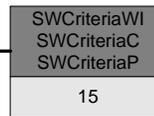
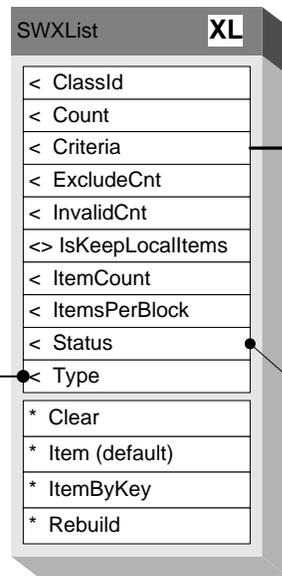
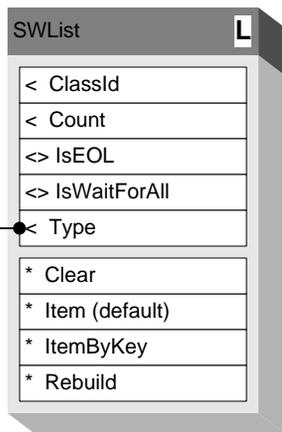
swBstrID	= 8	swActionID	= 25
swNodeID	= 15	swConditionalID	= 26
swConfigInfoID	= 16	swDeadlineValueID	= 27
swSALInfoID	= 17	swFMarkingID	= 43
swClientInfoID	= 18	swLabelID	= 46
swThreadInfoID	= 19	swCaseDataQParamID	= 65
swQSessionInfoID	= 20	swSubProcStepID	= 68
swActiveUserID	= 21	swCasePredictQParamID	= 70
swSortFieldID	= 22	swExtProcessID	= 82
swMarkingID	= 23		
swEntUserID	= 24		

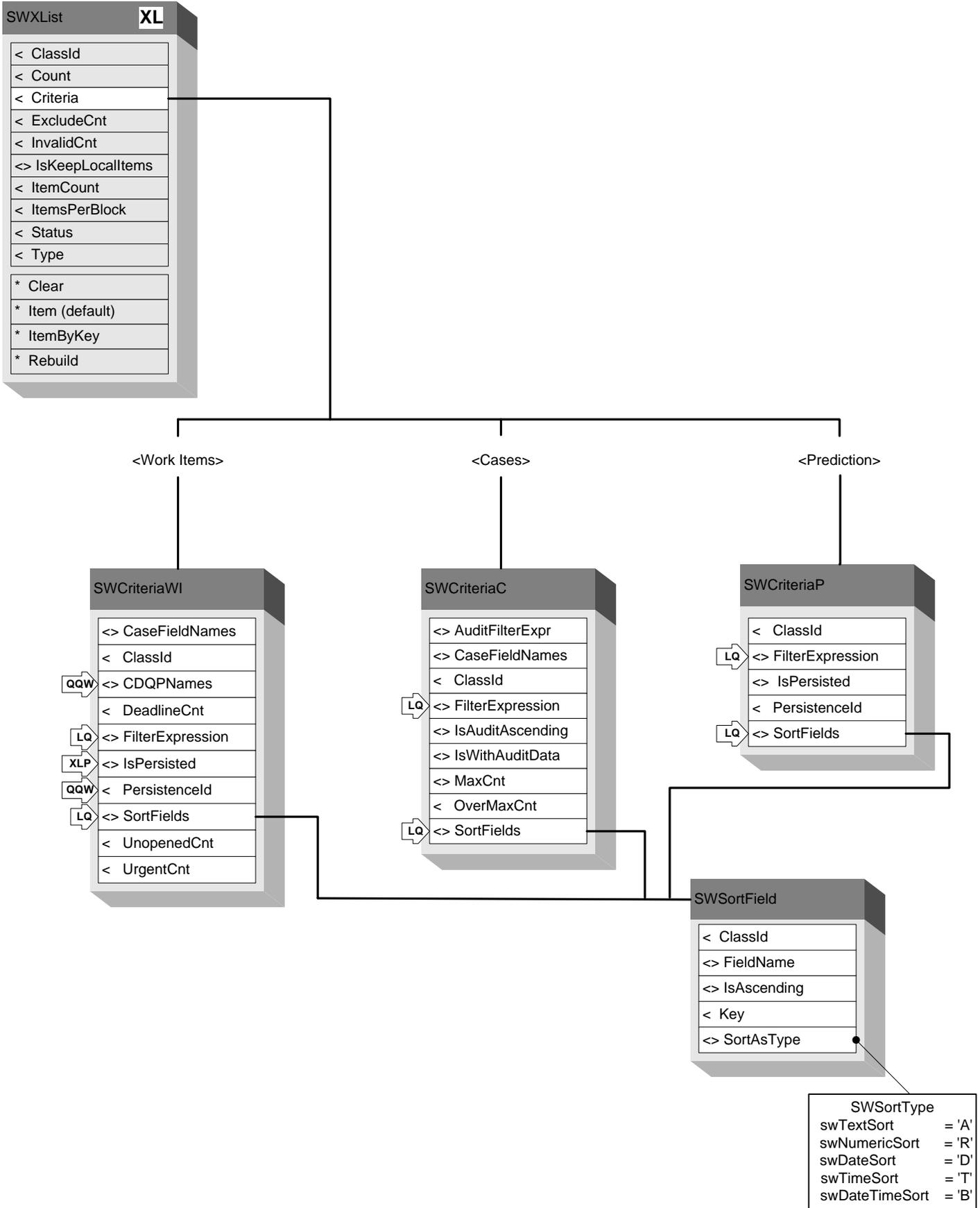
Objects on SWViews

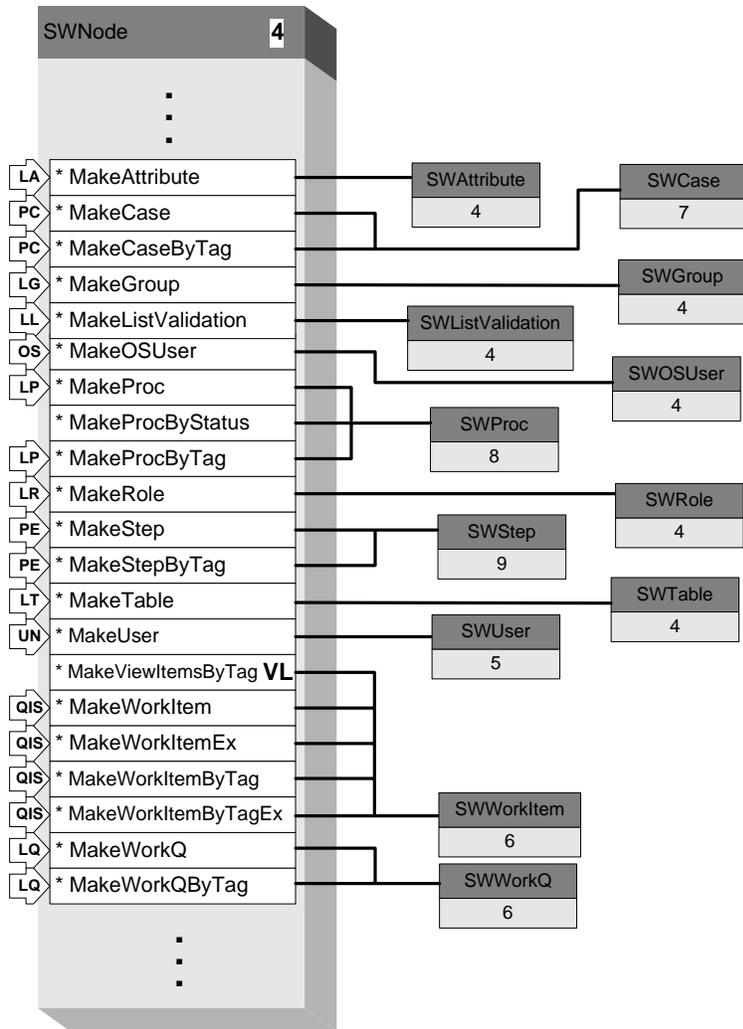
swCaseID	= 28
swWorkItemID	= 29

Objects on SWXLists

swUserID	= 2
swGroupID	= 6
swOSUserID	= 14
swCaseID	= 28
swWorkItemID	= 29
swPredictedItemID	= 69







This illustration shows only the "Make" methods used in stateless processing. See page 4 for the entire SWNode object.

SPO Server Error Constants

Dec	Hex	Constant	Description	Dec	Hex	Constant	Description
0	0x0000	swSUCCESS	Success	86	0x0056	swMSB_LoggedInErr	Prediction service failed to login user.
1	0x0001	swSAL_Err	General Staffwae error	87	0x0057	swMSB_NoTextErr	Undefined prediction error.
2	0x0002	swSAL_SystemErr	SAL system error	88	0x0058	swMSB_OverflowErr	The text string was longer than the passed in buffer size.
3	0x0003	swSAL_HandleErr	Bad SAL/FIL session handle	90	0x005A	swMSB_EOLErr	Beyond last or invalid index.
4	0x0004	swSAL_ParamErr	Bad SAL/FIL function parameter.	92	0x005C	swMSB_QErr	Invalid query string passed to find future workitems.
5	0x0005	swSAL_FlockedErr	SAL internal locking error	93	0x005D	swMSB_SortErr	Invalid sort parameter.
6	0x0006	swSAL_RLockedErr	Error locking work queue item	94	0x005E	swMSB_SubProcDepthErr	Sub procedure depth exceeded.
7	0x0007	swSAL_TooBigErr	Internal SAL data too big or truncated	95	0x005F	swMSB_NoSALErr	No SAL session handle.
8	0x0008	swSAL_DuplicateErr	Duplicate data	96	0x0060	swMSB_NoCaseRefErr	No case reference passed for a live case.
9	0x0009	swSAL_DemoErr	More than 20 cases started with demo license.	97	0x0061	swMSB_NoStepErr	Outstanding step passed in isn't in procedure.
10	0x000A	swSAL_MallocErr	SAL internal memory allocation failure	98	0x0062	swMSB_StepNotFoundErr	Cannot find step in procedure in cc_exec_proc.
11	0x000B	swSAL_NotFoundErr	Item not found	99	0x0063	swMSB_NotMainErr	Sub-procedure name invalid for simulate case.
12	0x000C	swSAL_SequenceErr	Internal sequencing error in SAL.	100	0x0064	swUserNameErr	Invalid username.
13	0x000D	swSAL_DateInitErr	Date/time format error	101	0x0065	swDirErr	No/invalid SWDIR install directory
14	0x000E	swSAL_AppNotFoundErr	Application not found	102	0x0066	swQInitErr	Error establishing queue session
15	0x000F	swSAL_InvalidPlatformErr	Staffware function is not supported on this platform	103	0x0067	swQRefreshErr	Error performing queues update
16	0x0010	swSAL_OSTypeErr	MACINTOSH : Invalid OSType	104	0x0068	swNodeNameErr	Node name invalid or not found
17	0x0011	swSAL_NoAppleEventsErr	Apple Events are not Supported on this platform	105	0x0069	swProcNameErr	Procedure name invalid or not found
18	0x0012	swSAL_ShutdownErr	Work queue shutdown	106	0x006A	swProcPathErr	Unable to create procedure definition path.
19	0x0013	swSAL_FileIOErr	Internal SAL file I/O error	107	0x006B	swFileOpenErr	File open failed
20	0x0014	swSAL_FilePermsErr	Internal SAL file permissions error	108	0x006C	swFileCloseErr	File close failed
21	0x0015	swSAL_QDDisabledErr	User no longer has administration access to queue	109	0x006D	swFldTypeErr	Invalid data for field type
22	0x0016	swSAL_RPCErr	RPC Failure	110	0x006E	swNoFieldErr	Field name not found
23	0x0017	swSAL_RegistryErr	Data in registry incorrect	111	0x006F	swCaseReqdErr	Case description required.
24	0x0018	swSAL_UnknownErr	Unknown SAL error	112	0x0070	swSyntaxErr	Error in expression syntax
25	0x0019	swSAL_RedirectErr	Queue has been redirected and item is unavailable	113	0x0071	swQueueNameErr	Queue name not found
26	0x001A	swSAL_NotSupportedErr	Function not supported	114	0x0072	swMemRealLocErr	Error in reallocating system memory
27	0x001B	swSAL_ExistsErr	Attempt to add data that already exists.	115	0x0073	swNoUserErr	Username not found.
28	0x001C	swSAL_MBSetErr	Failed while initializing MBOX set session	116	0x0074	swUserExistsErr	Username already exists
29	0x001D	swSAL_FormatErr	Error in processing format of the package	117	0x0075	swNoAttrErr	Attribute not found
30	0x001E	swSAL_MoreDataErr	Error in processing format of the package	118	0x0076	swAttrExistsErr	Attribute already exists
31	0x001F	swSAL_TimedOutErr	Generic timeout error	119	0x0077	swInvAttrTypeErr	Invalid attribute type specified
32	0x0020	swSAL_SuspendedErr	Request denied - WorkItem is suspended	120	0x0078	swGrpExistsErr	Group already exists
33	0x0021	swSAL_InvDataErr	Pack data has been updated while keeping/releasing item	121	0x0079	swNoGrpErr	Group not found
34	0x0022	swSAL_InvValueErr	Invalid process attribute value	122	0x007A	swNoEventErr	Event not found in procedure
35	0x0023	swSAL_InvFilterErr	Invalid filter	123	0x007B	swNoCaseErr	Case number not found
36	0x0024	swSAL_XactAbortErr	Global transaction has been aborted	124	0x007C	swDateConvErr	Error in SAL date conversion
37	0x0025	swSAL_ComplexErr	Filter is too complex	125	0x007D	swTimeConvErr	Error in SAL time conversion
50	0x0032	swSAL_SecDisabledErr	Password checking is disabled	126	0x007E	swActionErr	Invalid action code (keep/release/undo/close/purge)
51	0x0033	swSAL_SecBadUserErr	Username is invalid	127	0x007F	swMarkInfoErr	Error in sal_form_markinfo call
52	0x0034	swSAL_UserDisabledErr	User account is disabled or expired	128	0x0080	swMarkCountErr	Error in sal_form_markcount call
53	0x0035	swSAL_SecExpiredErr	Password is expired	129	0x0081	swNoMarkErr	Fieldname not found as a form marking.
54	0x0036	swSAL_SecBadSeedErr	Not used	130	0x0082	swPutDataErr	Error in sal_frm_putdata call.
55	0x0037	swSAL_SecBadPswdErr	Unknown username or bad password	131	0x0083	swFrmKeepErr	Error keeping form data
56	0x0038	swSAL_SecBadNewPswdErr	New password is invalid (too short or history conflict)	132	0x0084	swFrmReleaseErr	Error releasing form data
57	0x0039	swSAL_SecMaxChangesErr	Too many failed attempts to change password	133	0x0085	swMandMarkErr	Mandatory marking not specified
58	0x003A	swSAL_SecPwldInvalidErr	Not used	134	0x0086	swBadOriginErr	Marking has incorrect origin
59	0x003B	swSAL_SecBadWkstnErr	User not allowed to log on to this workstation.	135	0x0087	swProcNumErr	Error in proc_num call
60	0x003C	swSAL_SecBadHoursErr	User account logon time restriction violation	136	0x0088	swNoProcErr	Procedure name not found
61	0x003D	swSAL_SecBadPermsErr	User account does not have proper privilege	137	0x0089	swAuthenFailErr	Authentication request failed
62	0x003E	swSAL_SecLockOutErr	User account locked out due to max bad pwd change attempts	138	0x008A	swNotAuthErr	User not authorized to perform request
63	0x003F	swSAL_SecBadMatchErr	Not used	139	0x008B	swNoRoleErr	Role not found
64	0x0040	swSAL_SecUnknownErr	Unknown security error	140	0x008C	swStartCaseErr	Error starting case
65	0x0041	swSAL_SecCantChngErr	Can't change user password (too recent, account restrictions, etc.)	141	0x008D	swBadValueErr	Bad value specified
66	0x0042	swMSB_NoneErr	No future workitems found or no deadline info found	142	0x008E	swEntObjEOFErr	No more session handles
67	0x0043	swMSB_SubProcErr	Sub-proc step type found.	143	0x008F	swFlagInitErr	Error in flag_init lock.
68	0x0044	swMSB_Err	General error.	144	0x0090	swNoDelimiterErr	No delimiter in input buffer
69	0x0045	swMSB_NoServerErr	Staffware server unavailable.	145	0x0091	swDBSErr	Error converting DBS name.
70	0x0046	swMSB_BadAuthErr	User has no access to start proc.	146	0x0092	swBuffFluchErr	Error writing data to client
71	0x0047	swMSB_BadPwldErr	Username or password is incorrect.	147	0x0093	swTriggerPrivErr	User does not have event trigger privilege
72	0x0048	swMSB_InvalidStepErr	Invalid Step.	148	0x0094	swBadOldPassErr	Bad old password
73	0x0049	swMSB_InvalidProcErr	Invalid Procedure.	149	0x0095	swBadNewPassErr	Bad new password
74	0x004A	swMSB_InvalidFormErr	Invalid form.	150	0x0096	swCantChngPassErr	Can't change password
75	0x004B	swMSB_NoProcErr	Couldn't find procedure.	151	0x0097	swSecUnkErr	Unknown security error
76	0x004C	swMSB_NoFieldErr	Couldn't locate named field.	152	0x0098	swBadISTestErr	Bad queue is test (released/unreleased flag)
77	0x004D	swMSB_ExternalErr	Error from External elink call.	153	0x0099	swCriteriaSaveErr	Error persisting queue access criteria
78	0x004E	swMSB_InvalidSessErr	Invalid session handle.	154	0x009A	swCriteriaLoadErr	Error loading queue access criteria
79	0x004F	swMSB_NoParamErr	Invalid parameter.	155	0x009B	swNullValueErr	Parameter was empty
80	0x0050	swMSB_ProcNotOpenErr	Procedure is not open.	156	0x009C	swRegBadDFAErr	Bad regular expression DFA
81	0x0051	swMSB_OutOfRangeErr	Request is out of range.	157	0x009D	swLicenseErr	Cannot log user in - exceeds license
82	0x0052	swMSB_LockFailErr	Failed to lock session.	158	0x009E	swAcquireErr	Error acquiring a user's mutex and SAL session
83	0x0053	swMSB_SessFailErr	Failed to allocate session.	159	0x009F	swOpenSemErr	Error opening semaphore
84	0x0054	swMSB_WaitingErr	Waiting on other steps to execute.	160	0x00A0	swSemWaitErr	Error waiting for semaphore
85	0x0055	swMSB_MaxLoopsErr	Maximum prediction loop count exceeded.	161	0x00A1	swSemTimeOutErr	Timed-out waiting for semaphore
				162	0x00A2	swSemReleaseErr	Error releasing semaphore

SPO Server Error Constants (Cont.)

Dec Hex	Constant	Description
163 0x00A3	swSemCloseErr	Error closing semaphore
164 0x00A4	swAuditFlagErr	Invalid audit flag
165 0x00A5	swDBRegErr	Error getting clsid for SWEntObjDB
166 0x00A6	swDBCocreateErr	Error creating instance of SWEntObjDB
167 0x00A7	swOpenDBErr	Error opening autofwd/qview database
168 0x00A8	swNotAbleErr	No tables in autofwd/qview database
169 0x00A9	swCreateDSNErr	Error creating data source name
170 0x00AA	swAddRecordErr	Error adding record to autofwd/qview database
171 0x00AB	swDupRecordErr	Duplicate record in autofwd/qview database
172 0x00AC	swUPDRecordErr	Error updating record in autofwd/qview database
173 0x00AD	swNORecordErr	Record not found in autofwd/qview db
174 0x00AE	swListRecordErr	Error listing records in autofwd/qview db
175 0x00AF	swUnknDBErr	Unknown exception from SWEntObjDB.
176 0x00B0	swNoQueueErr	Queue not found
177 0x00B1	swNoMemberErr	No member in group queue
178 0x00B2	swNoChangeErr	Queue has not changed
179 0x00B3	swNoItemErr	Queue item not found
180 0x00B4	swDemoExceededErr	Attempted to open > 20 cases on demo system
181 0x00B5	swSALGetDataErr	Error getting SAL form data
182 0x00B6	swFrmTermErr	Error in newсал_frm_term
183 0x00B7	swNotLockedErr	Work item is not locked by user
184 0x00B8	swCSPrivErr	User does not have privilege to start case.
185 0x00B9	swNotFwdableErr	Item is not forwardable
186 0x00BA	swUsrFwdPrivErr	User does not have forward privilege for this work item
187 0x00BB	swPrevLockedErr	Work item already locked by someone else.
188 0x00BC	swTCPMaxClientErr	Connection refused - TCPMaxClients exceeded
189 0x00BD	swLIDaemonErr	Error communicating with Staffware login daemon.
190 0x00BE	swQueueInfoErr	Error in сал_queues_getqueue_info function.
191 0x00BF	swStatusOnlyErr	Internal error for status only
192 0x00C0	swMultiAuthenErr	User already logged in on another client
193 0x00C1	swQOpenErr	Error in сал_list_open when accessing a work queue
194 0x00C2	swSALEXceptErr	SAL/FIL threw an exception; see SPO server log file
195 0x00C3	swNot_SupportedErr	Message code or option not supported in this version of the server
196 0x00C4	swListIndexErr	Internal list indexing error
197 0x00C5	swTruncatedErr	Value was truncated
198 0x00C6	swIndiExceptErr	IndiForm threw an exception
199 0x00C7	swNoSWListErr	Staffware list not found.
200 0x00C8	swNoSWTableErr	Staffware tables not found.
201 0x00C9	swNo_PersistedIdErr	Unable to find work queue session for given persistence ID.
202 0x00CA	swStepNameNotFoundErr	Step name not found.
203 0x00CB	swQPartSessionErr	Unable to find work queue participation session.
204 0x00CC	swNotSupervisorOfQErr	User is not a Queue Supervisor of this queue.
205 0x00CD	swNoPartRecordErr	This Participation Record has been modified or removed by another Supervisor.
206 0x00CE	swExcdMaxSupvsrLstErr	The Supervisor List you have specified exceeds 255 characters.
207 0x00CF	swStartEndTimePairErr	A StartTime and EndTime must be specified.
208 0x00D0	swNoCDQPDefErr	Unable to obtain Case Data Queue Parameter definitions for work queue.
209 0x00D1	swNoServersErr	No SPO Servers are currently available
210 0x00D2	swUpdateMemoErr	Error updating memo field value.
211 0x00D3	swInvalidPIDErr	Unable to find prediction session for given persistence ID.
212 0x00D4	swInvalidNodeProcErr	Invalid Node and/or Procedure name.
213 0x00D5	swSimSubProcErr	Unable to Simulate a Sub Procedure, a Main Procedure must be used.
214 0x00D6	swInvalidExtIDErr	Invalid Unique ID for External WorkItem.
215 0x00D7	swNoExtItemErr	Unable to find outstanding work item for the given External WorkItem ID.
216 0x00D8	swGetMemoErr	Unable to get memo value.
217 0x00D9	swInvalidConnErr	Invalid Connection ID.
218 0x00DA	swUserNotAuthErr	Unable to perform Login as User has not been authenticated.
219 0x00DB	swNotTokenUserErr	User for authenticated token does not match login user.
220 0x00DC	swInvalidGraftIDErr	Invalid Graft ID.
221 0x00DD	swExtProcessNameErr	External Process name exceeds 30 characters.
222 0x00DE	swProcCaseErr	The SAL returned ER_PROC. There is a problem with the procedure or the case may be invalid.
223 0x00DF	swBuffOverrunErr	Internal SPO buffer too small.
224 0x00E0	swNoCDQPErr	CDQP not defined for work queue.
500 0x01F4	swLI_NoDemonErr	Login daemon on server not responding
501 0x01F5	swLI_LoggedInErr	Someone else is logged in with that name
502 0x01F6	swLI_MaxUsrErr	Max number of concurrent users reached
503 0x01F7	swLI_LcnExpiredErr	Staffware license has expired
504 0x01F8	swLI_DisabledErr	Logins are currently disabled
505 0x01F9	swLI_NoBGErr	Background shutting / already shutdown.
506 0x01FA	swLI_DoingBkpErr	Staffware backup in progress
507 0x01FB	swLI_DoingRstErr	Staffware Restore in progress
508 0x01FC	swLI_DoingUPDErr	Staffware data upd (del node) in progress
509 0x01FD	swLI_BadPasswdErr	Password Required, given passwd invalid
510 0x01FE	swLI_BadBGCreateErr	Can't create perms chk file in BG
511 0x01FF	swLI_BadFGCreateErr	Can't create perms chk file in FG
512 0x0200	swLI_BadBGPermsErr	User creating with bad perms in BG

SPO Server Error Constants (Cont.)

Dec Hex	Constant	Description
513 0x0201	swLI_BadFGPermsErr	User creating with bad perms in FG
514 0x0202	swLI_OracleErr	Oracle Initialization failed.
515 0x0203	swLI_InformixErr	Informix initialization failed
516 0x0204	swLI_NotWndUserErr	User is not registered for S4W
517 0x0205	swLI_BadNodeErr	Node name has been changed
518 0x0206	swLI_OnGoPasswdErr	OnGo passwd different to Staffware
519 0x0207	swLI_NoToolHelpErr	Unable to load TOOLHELP.DLL
520 0x0208	swLI_Client_Too_OldErr	Client is too old for the server
521 0x0209	swLI_Server_Too_OldErr	Server is too old for client

SPO Client Error Constants

Dec	Hex	Constant	Description
2048	0x800	swWin32Err	Win32 Error
2049	0x801	swInvalMethodErr	Invalid method for this list.
2050	0x802	swSrvDisconnectErr	SPO Server disconnected.
2051	0x803	swWINSOCKErr	Winsock problem, see Client log.
2052	0x804	swInvalidParamErr	Invalid Parameter
2053	0x805	swNotFoundErr	Item not found.
2054	0x806	swNoMemoryErr	Memory Allocation Error.
2055	0x807	swLoginFailErr	Logins failed on.
2056	0x808	swDelEntUserFailErr	Must be logged out of all nodes (see LoggedInNodes).
2057	0x809	swNoNodeInfoErr	NodeInfo not found in SWEnterprise.NodeInfos.
2058	0x80A	swViewErr	View Errors Occurred.
2059	0x80B	swBadKeyErr	Invalid key in array.
2060	0x80C	swBadNodeErr	Node key not found.
2061	0x80D	swPasswdLengthErr	Password too long.
2062	0x80E	swLLDupErr	Item already exists in the list.
2063	0x80F	swTimeoutErr	Timeout - No response from SPO server.
2064	0x810	swItemErrErr	One of the items in the array returned an error.
2065	0x811	swSegNotFoundErr	Message segment not found
2066	0x812	swNotSupportedErr	This functionality is not supported.
2067	0x813	swNotOnThisStepErr	Property not supported on this step type.
2069	0x815	swUnRecoverableErr	Unrecoverable system error, see SPO Client log.
2070	0x816	swInvalidSubProcMethodErr	Invalid method for Sub-procedure.
2075	0x81B	swErrorDetectedErr	Unrecoverable error detected - Call Staffware -
2077	0x81D	swInvalidKeyErr	Key is invalid.
2078	0x81E	swNotDirectorErr	Not a Director node.

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