

# TIBCO iProcess Objects (Java) Object Model

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| SWLog                              | SWExtProcess         | SWRedirection                  |
| SWNodeInfo                         | SWSubProcStep        | SWDate                         |
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| SWListValidation                   | SWStep               | SWCriteriaWI                   |
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| SWCaseDataQParam                   | SWForm               |                                |
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|                                    | SWFMarking           |                                |
|                                    | SWFRow               |                                |
|                                    | SWFont               |                                |
|                                    | SWLabel              |                                |

Object  
Keys

| 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  |
| SWDatabaseConfig     | Name  |
| SWDeadlineValue      | (Expressed in text: Minutes, Hours, Days,<br>Weeks, Months, Years, Date, Time)            |
| SWDurationValue      | (Expressed in text: MicroSeconds, Seconds,<br>Minutes, Hours, Days, Weeks, Months, Years) |
| SWDynamicSubProcStep | ProcName StepName CaseNumber  |
| SWEAStep             | 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<br>(QueueType: T=Test or R=Release)                           |
| SWGraftStep          | ProcName StepName CaseNumber  |
| SWGGroup             | Name  |
| SWIPEConfig          | 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<br>(Mode: T=Test or R=Release)                                      |

## Class ID's

|                    |      |                        |       |
|--------------------|------|------------------------|-------|
| swNodeInfoID       | = 1  | swLogID                | = 41  |
| swUserID           | = 2  | swJavaExcpID           | = 42  |
| swRoleID           | = 3  | swFMarkingID           | = 43  |
| swProcID           | = 4  | swFConditionalID       | = 44  |
| swAttributeID      | = 5  | swFRowID               | = 45  |
| swGroupID          | = 6  | swLabelID              | = 46  |
| swWorkQID          | = 7  | swFontID               | = 47  |
| swBstrID           | = 8  | swListValidationID     | = 48  |
| swAutoFwdID        | = 9  | swTableID              | = 49  |
| swFwdItemID        | = 10 | swTableFieldID         | = 50  |
| swFieldID          | = 11 | swDateValueID          | = 51  |
| swStepID           | = 12 | swTimeValueID          | = 52  |
| swAuditStepID      | = 13 | swNumericValueID       | = 53  |
| swOSUserID         | = 14 | swFormID               | = 54  |
| swNodeID           | = 15 | swXListID              | = 55  |
| swConfigInfoID     | = 16 | swCriteriaWIID         | = 56  |
| swSALInfoID        | = 17 | swCriteriaCID          | = 57  |
| swClientInfoID     | = 18 | swAdminID              | = 59  |
| swThreadInfoID     | = 19 | swAWorkQID             | = 60  |
| swQSessionInfoID   | = 20 | swParticipationID      | = 61  |
| swActiveUserID     | = 21 | swRedirectionID        | = 62  |
| swSortFieldID      | = 22 | swCaseDataQParamDefID  | = 64  |
| swMarkingID        | = 23 | swCaseDataQParamID     | = 65  |
| swEntUserID        | = 24 | swPublicFieldID        | = 66  |
| swActionID         | = 25 | swOutstandingItemID    | = 67  |
| swConditionalID    | = 26 | swSubProcStepID        | = 68  |
| swDeadlineValueID  | = 27 | swPredictedItemID      | = 69  |
| swCaseID           | = 28 | swCasePredictQParamID  | = 70  |
| swWorkItemID       | = 29 | swDurationID           | = 71  |
| swEnterpriseID     | = 30 | swDurationValueID      | = 72  |
| swNodeInfoExID     | = 31 | swCriteriaPID          | = 73  |
| swViewID           | = 32 | swExtWorkItemID        | = 74  |
| swListID           | = 33 | swProcAuditID          | = 76  |
| swLocListID        | = 34 | swProcGroupID          | = 77  |
| swDeadlineID       | = 35 | swGraftStepID          | = 78  |
| swCommandID        | = 36 | swEAStepID             | = 79  |
| swPermissionID     | = 37 | swEventStepID          | = 80  |
| swPriorityID       | = 38 | swDynamicSubProcStepID | = 81  |
| swAccessUserRefID  | = 39 | swExtProcessID         | = 82  |
| swAddressUserRefID | = 40 | swTransControlStepID   | = 83  |
|                    |      | swIPEConfig            | = 84  |
|                    |      | swDatabaseConfig       | = 203 |

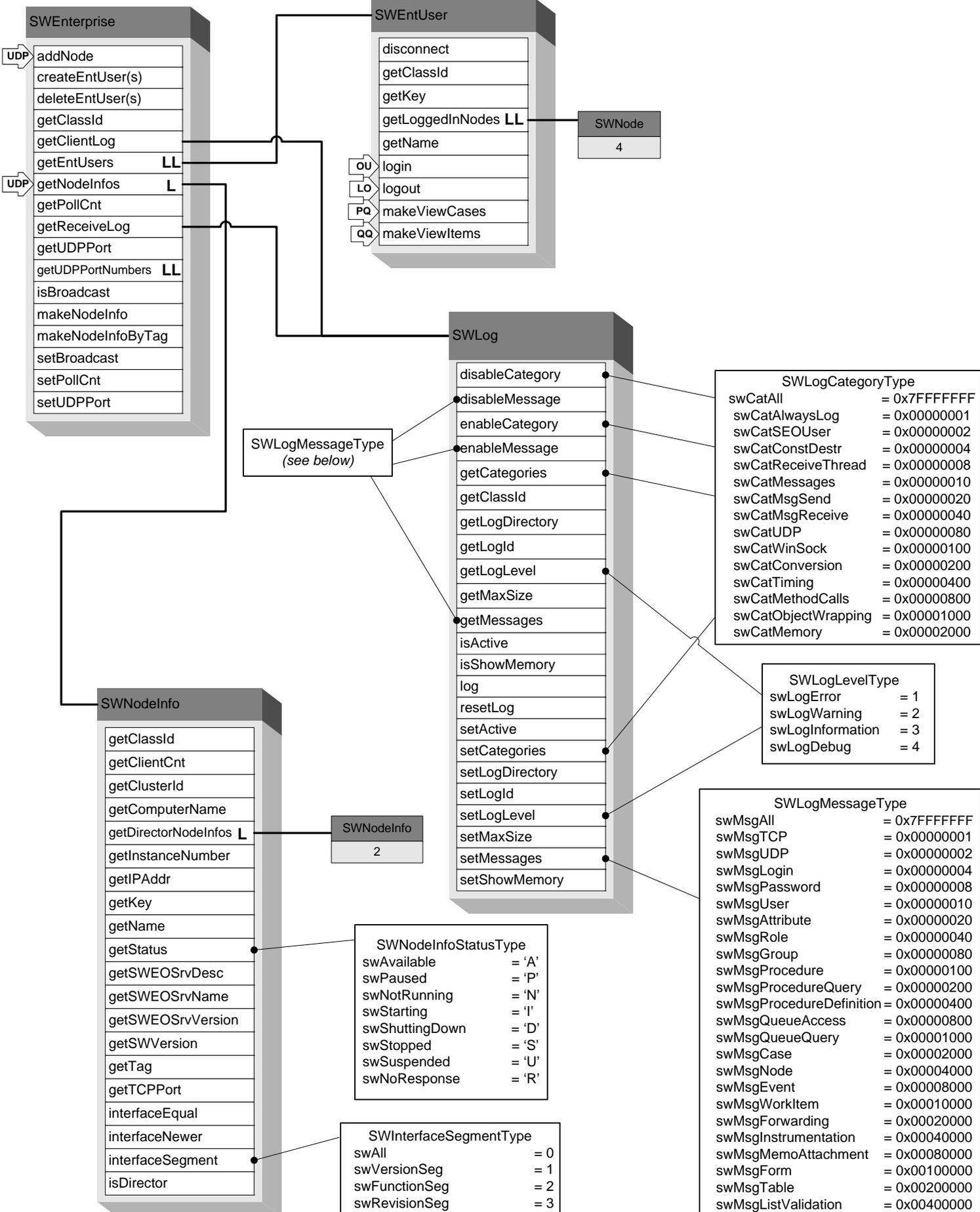
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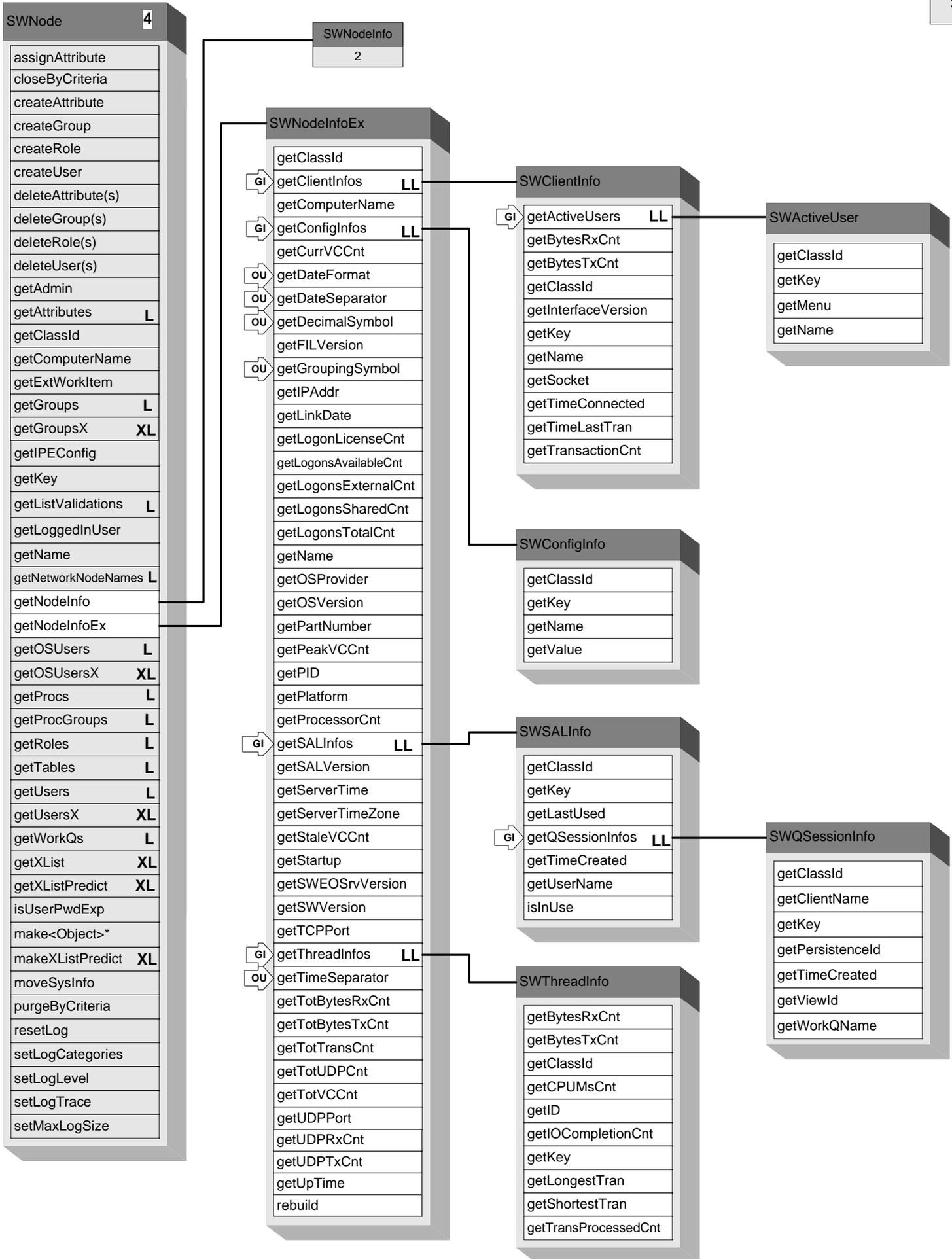
L List  
LL Local List  
VL View List  
XL XList

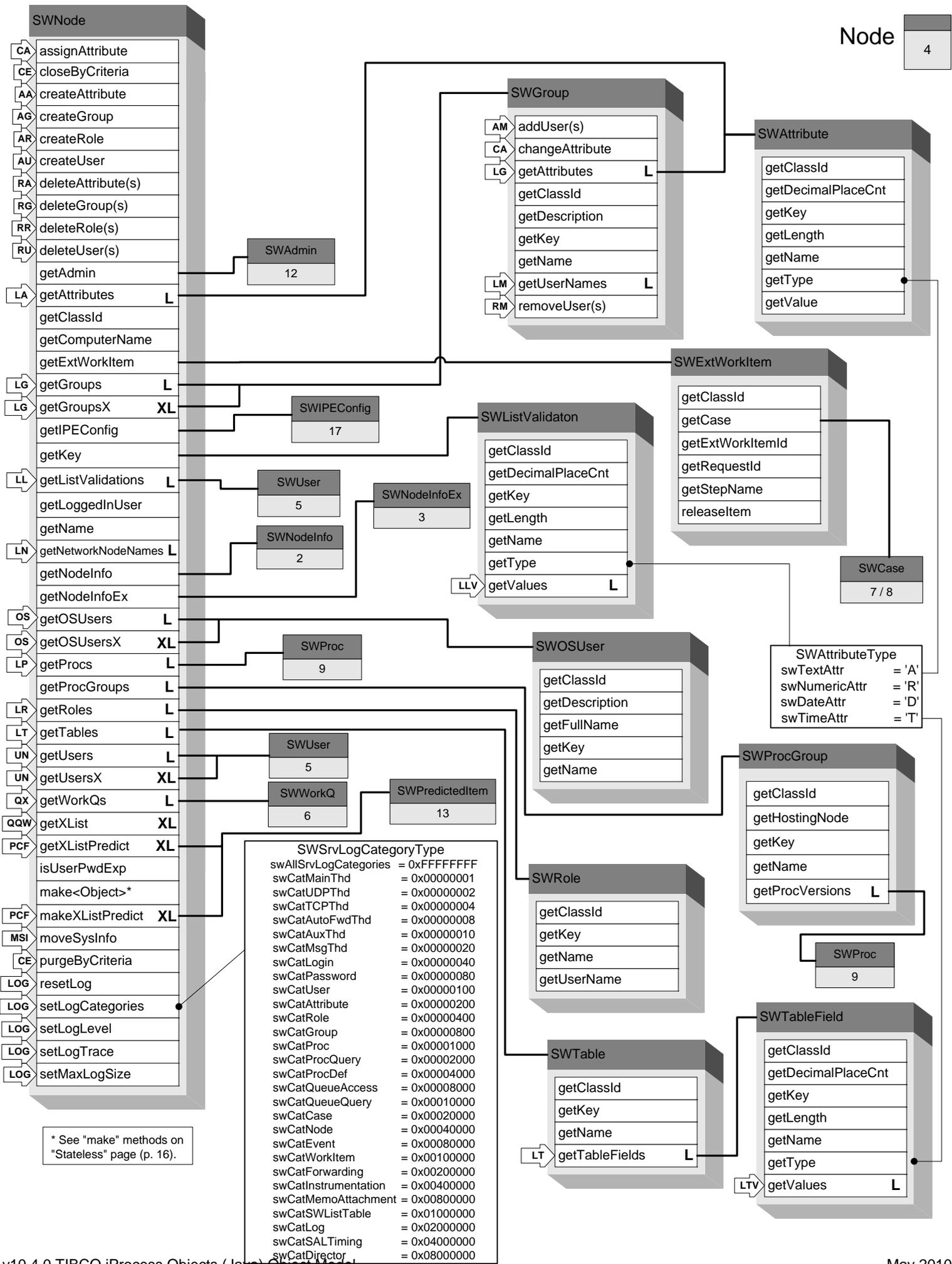
SWProc Object Reference

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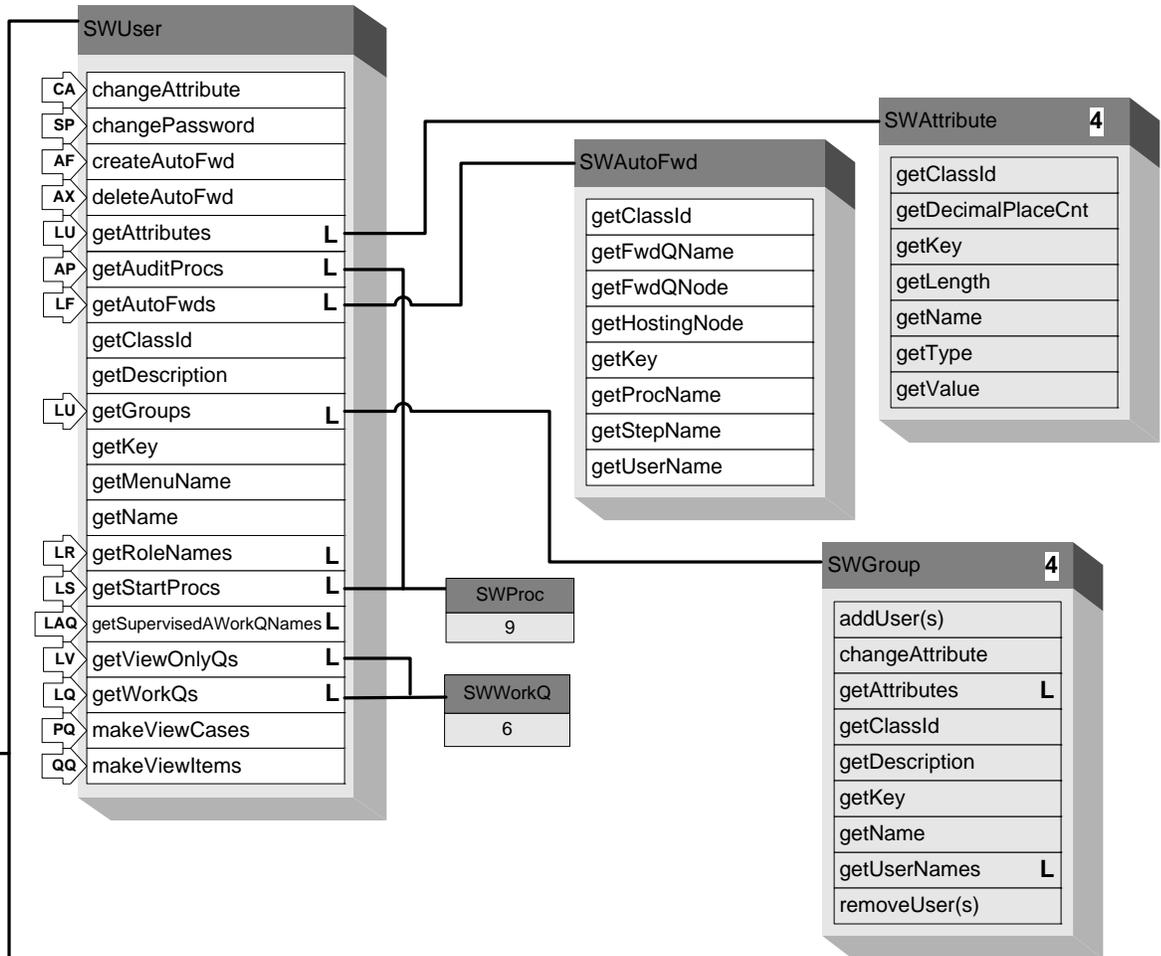
Page Number



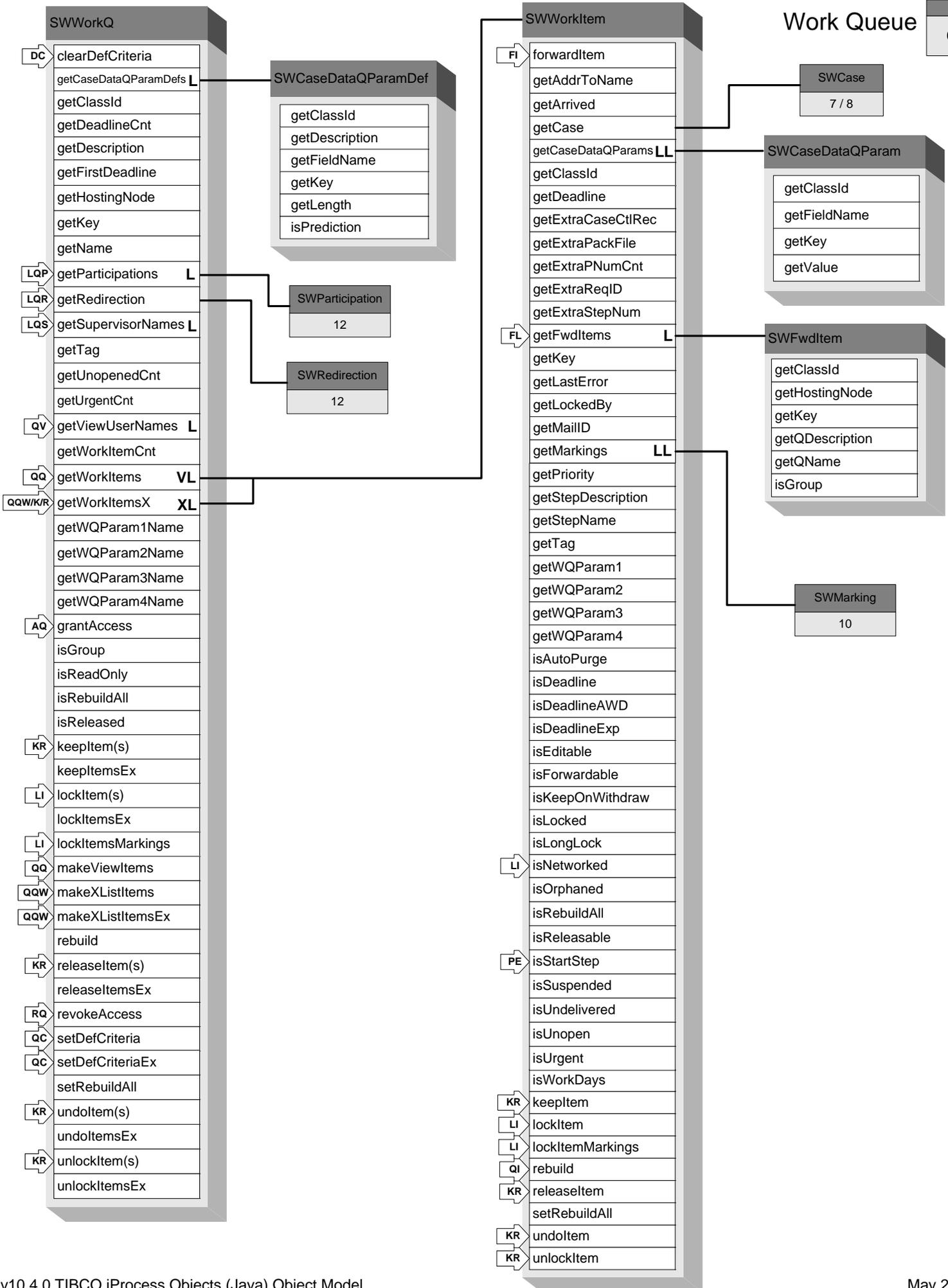


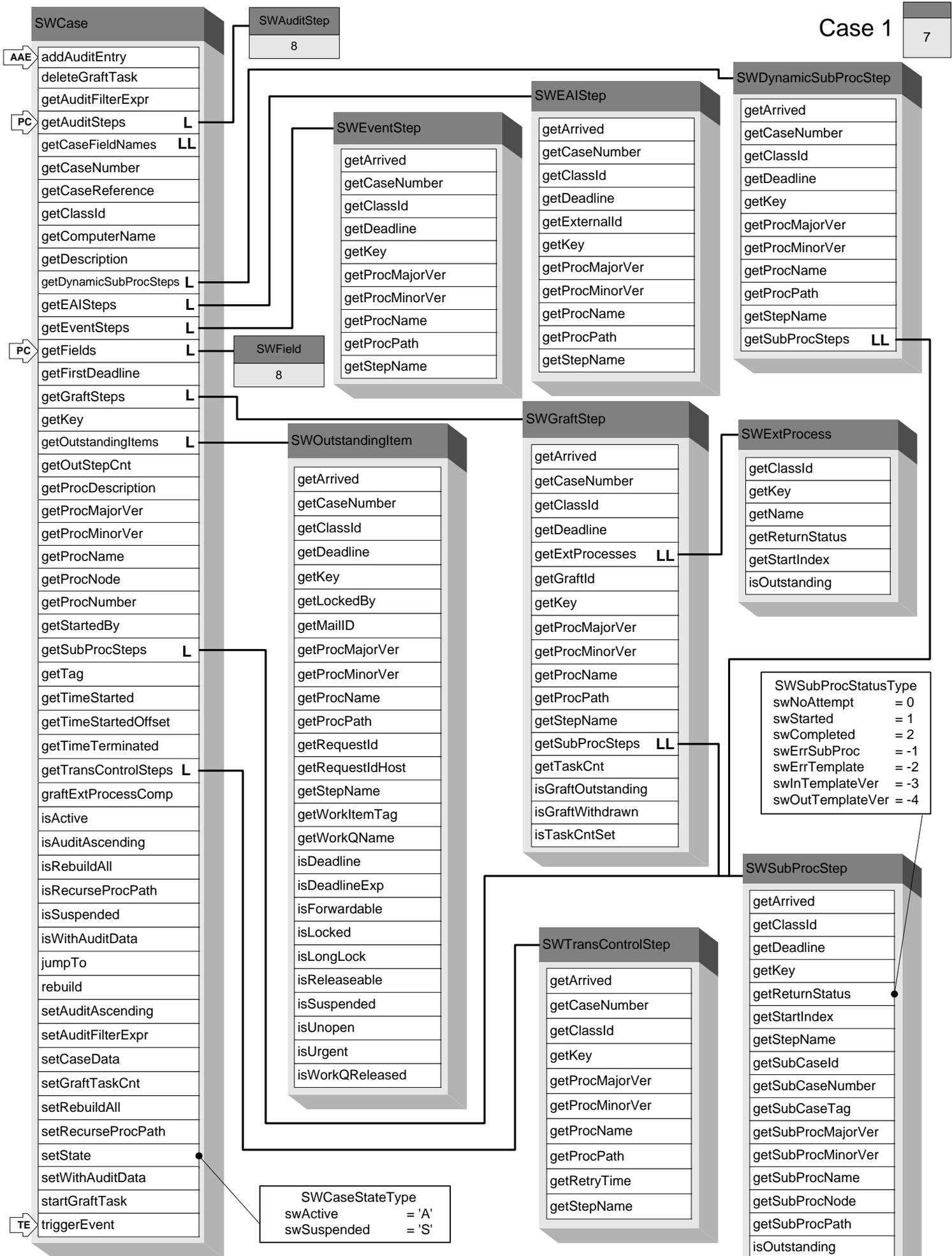


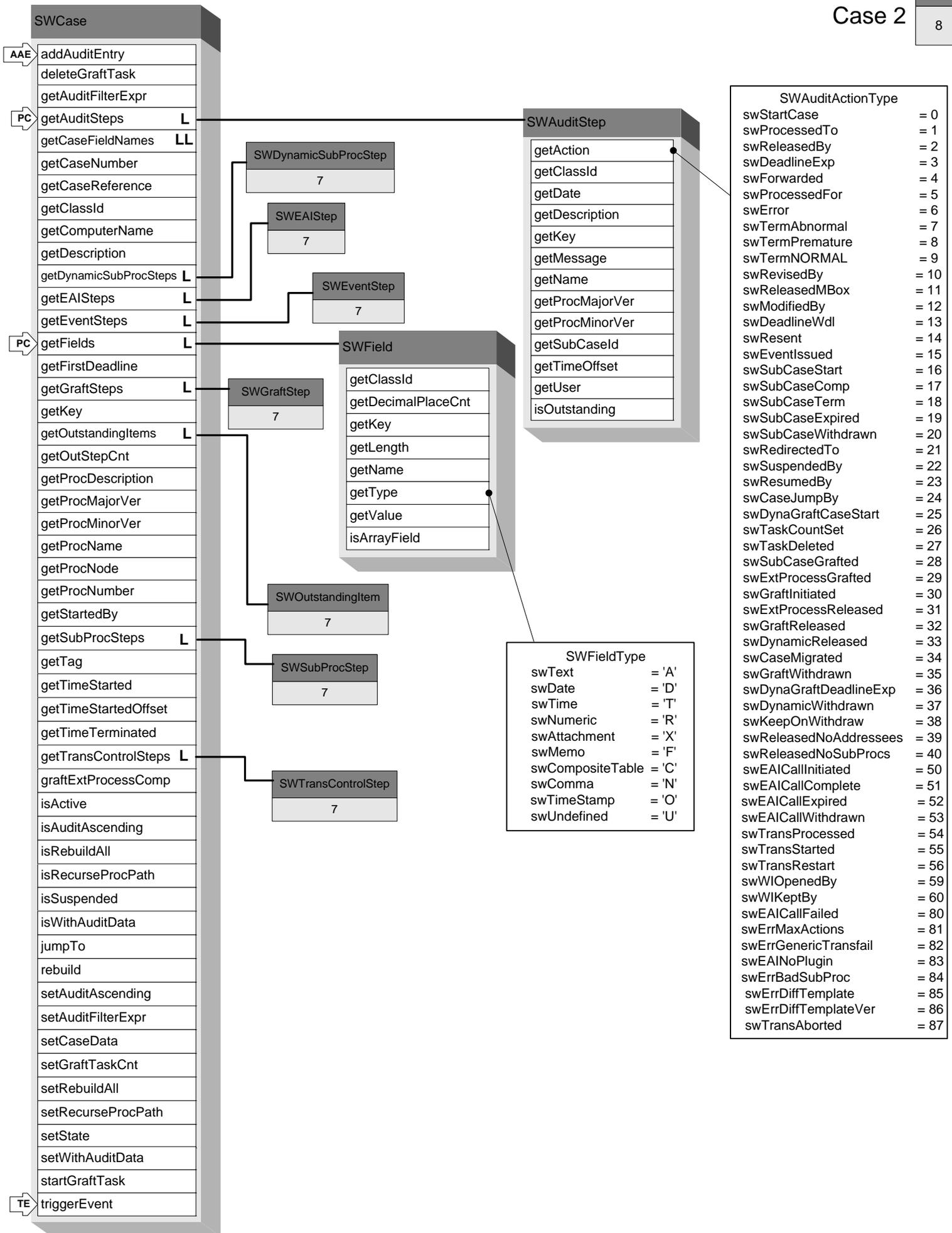
| SWNode 4            |    |
|---------------------|----|
| assignAttribute     |    |
| closeByCriteria     |    |
| createAttribute     |    |
| createGroup         |    |
| createRole          |    |
| createUser          |    |
| deleteAttribute(s)  |    |
| deleteGroup(s)      |    |
| deleteRole(s)       |    |
| deleteUser(s)       |    |
| getAdmin            |    |
| getAttributes       | L  |
| getClassId          |    |
| getComputerName     |    |
| getExtWorkItem      |    |
| getGroups           | L  |
| getGroupsX          | XL |
| getIPEConfig        |    |
| getKey              |    |
| getListValidations  | L  |
| getLoggedInUser     |    |
| getName             |    |
| getNetworkNodeNames | L  |
| getNodeInfo         |    |
| getNodeInfoEx       |    |
| getOSUsers          | L  |
| getOSUsersX         | XL |
| getProcs            | L  |
| getProcGroups       | L  |
| getRoles            | L  |
| getTables           | L  |
| getUsers            | L  |
| getUsersX           | XL |
| getWorkQs           | L  |
| getXList            | XL |
| getXListPredict     | XL |
| isUserPwdExp        |    |
| make<Object>*       |    |
| makeXListPredict    | XL |
| moveSysInfo         |    |
| purgeByCriteria     |    |
| resetLog            |    |
| setLogCategories    |    |
| setLogLevel         |    |
| setLogTrace         |    |
| setMaxLogSize       |    |

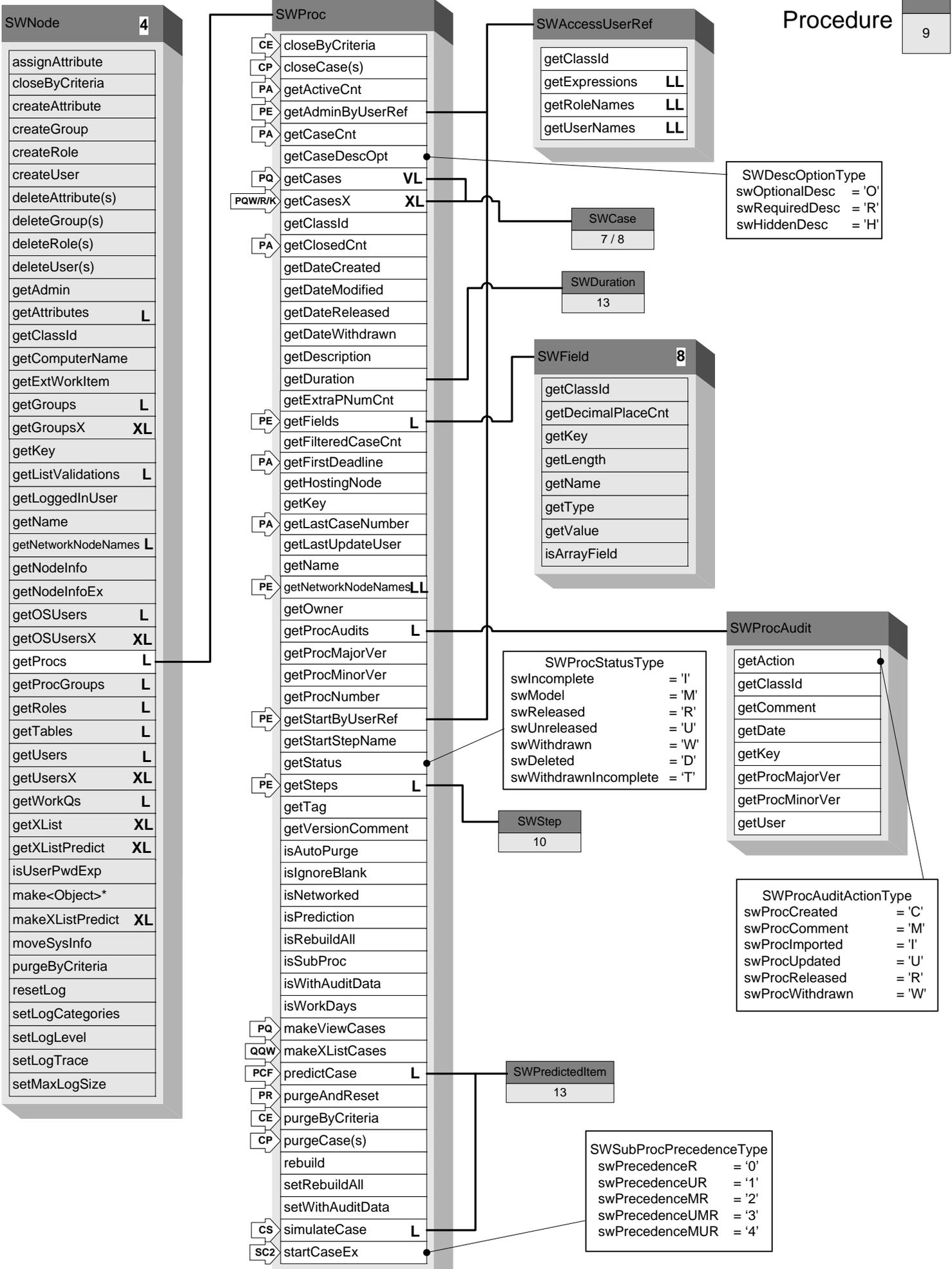


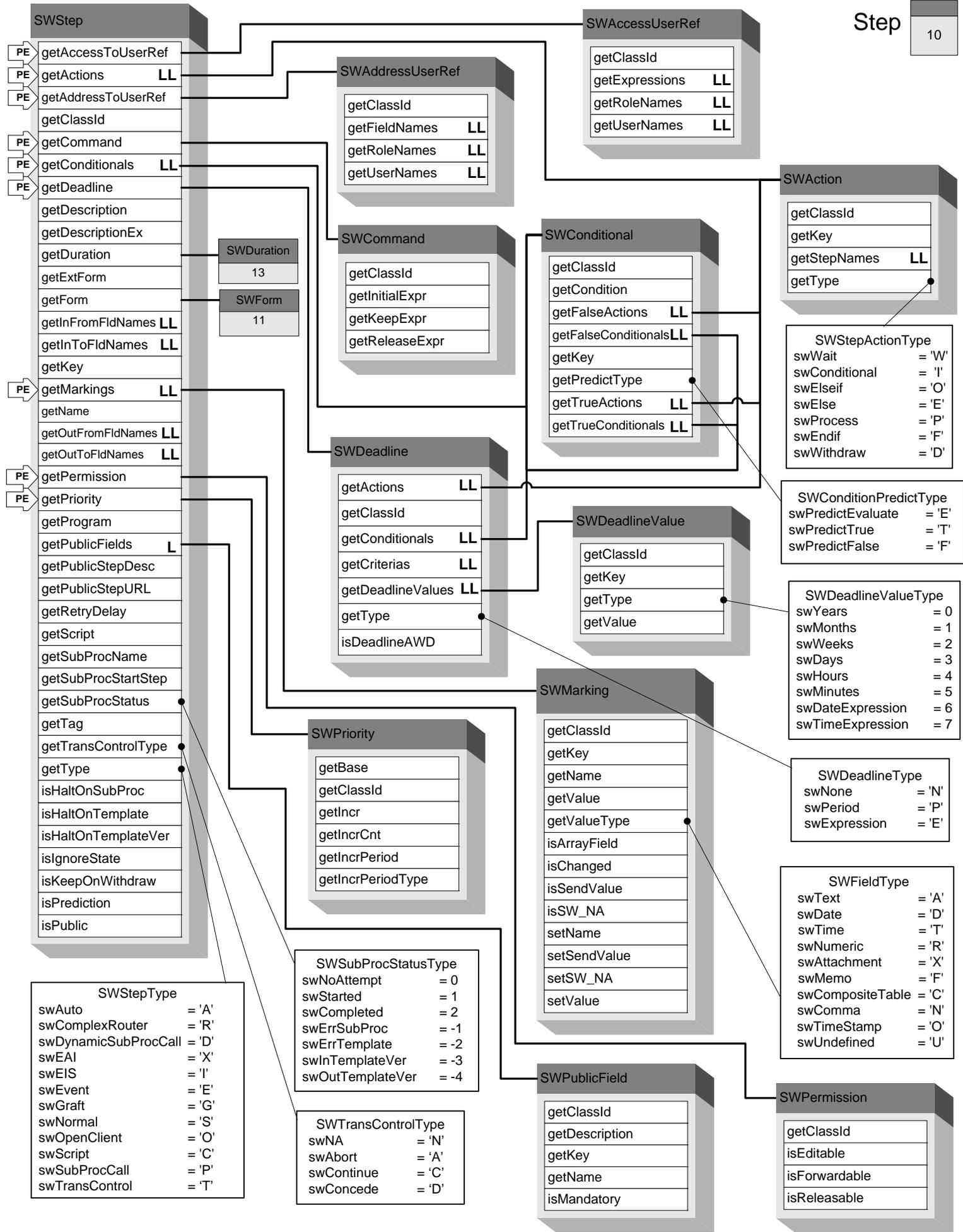
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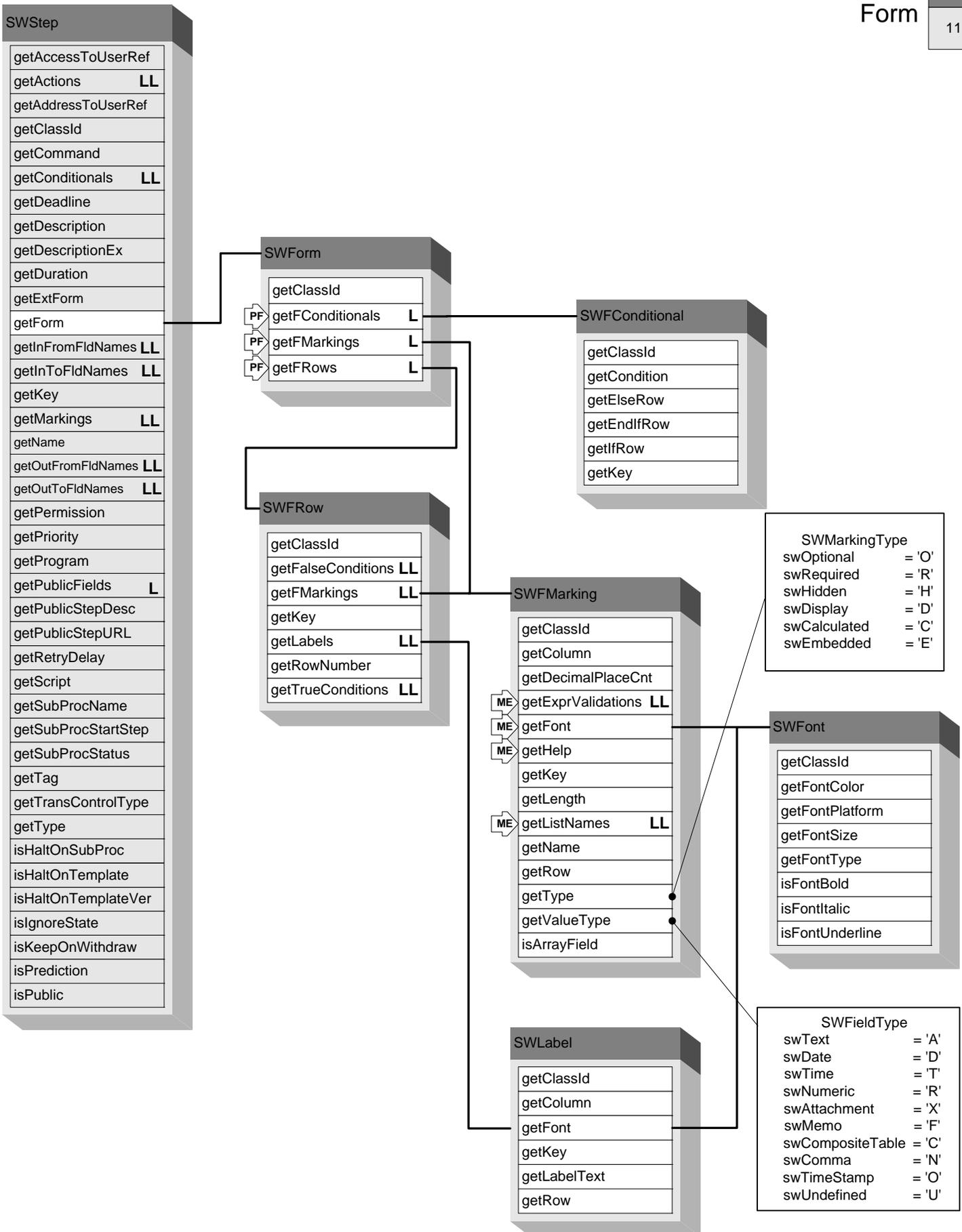


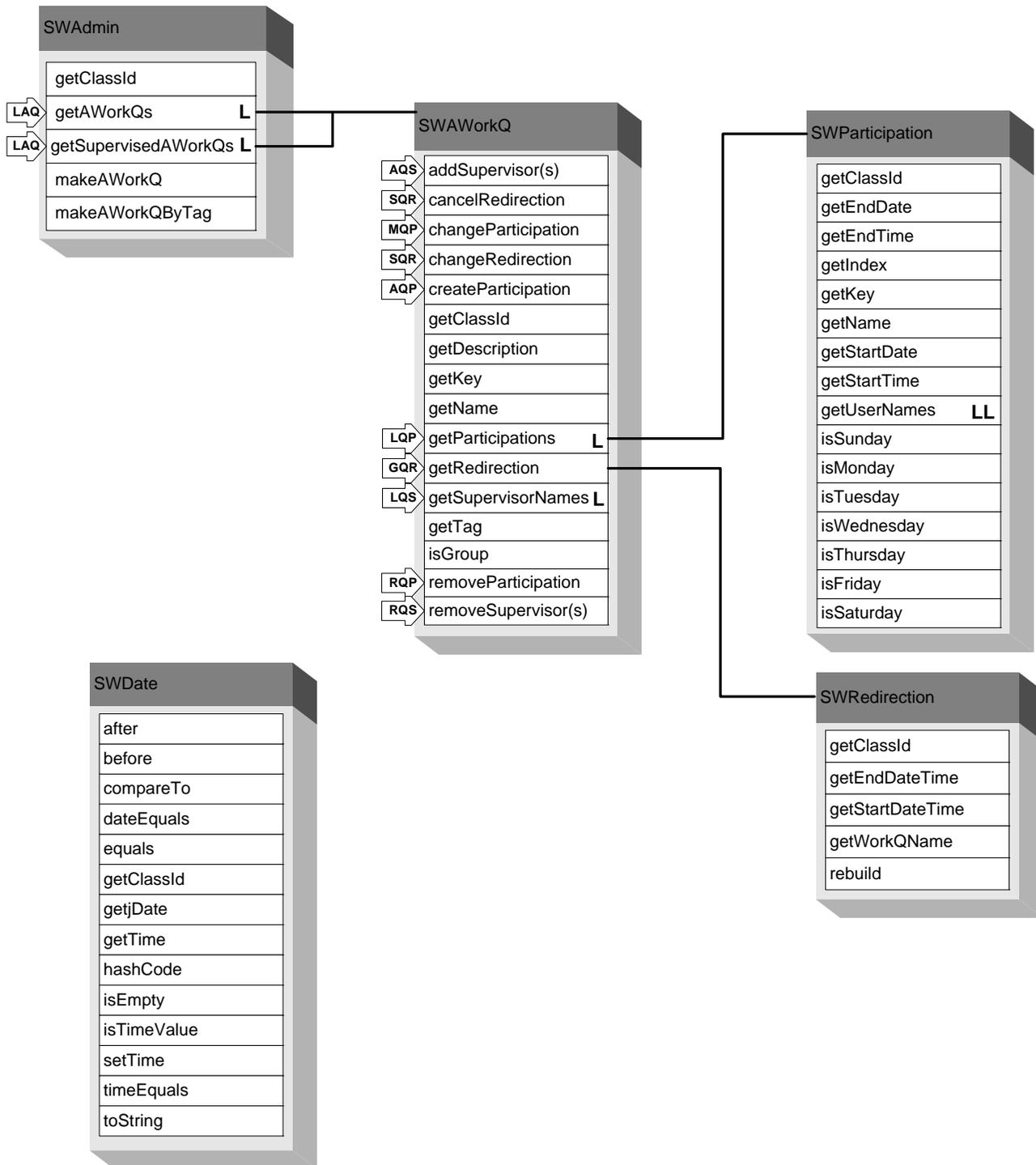




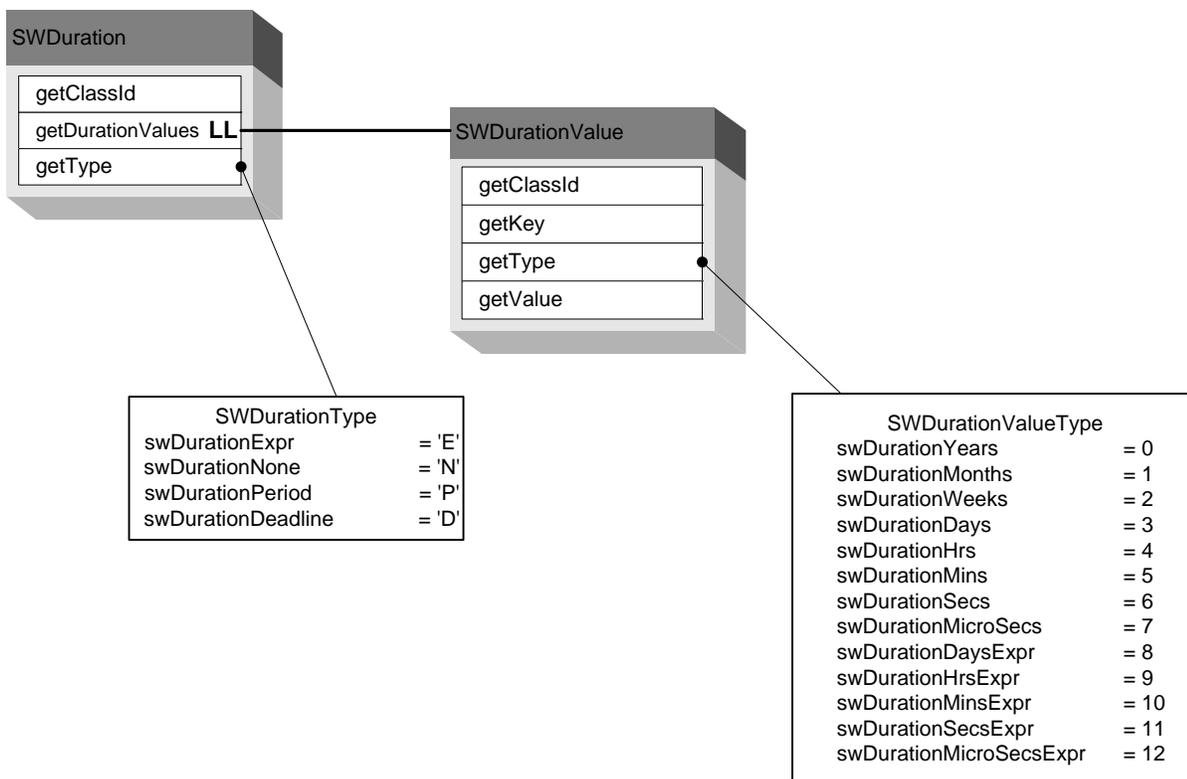
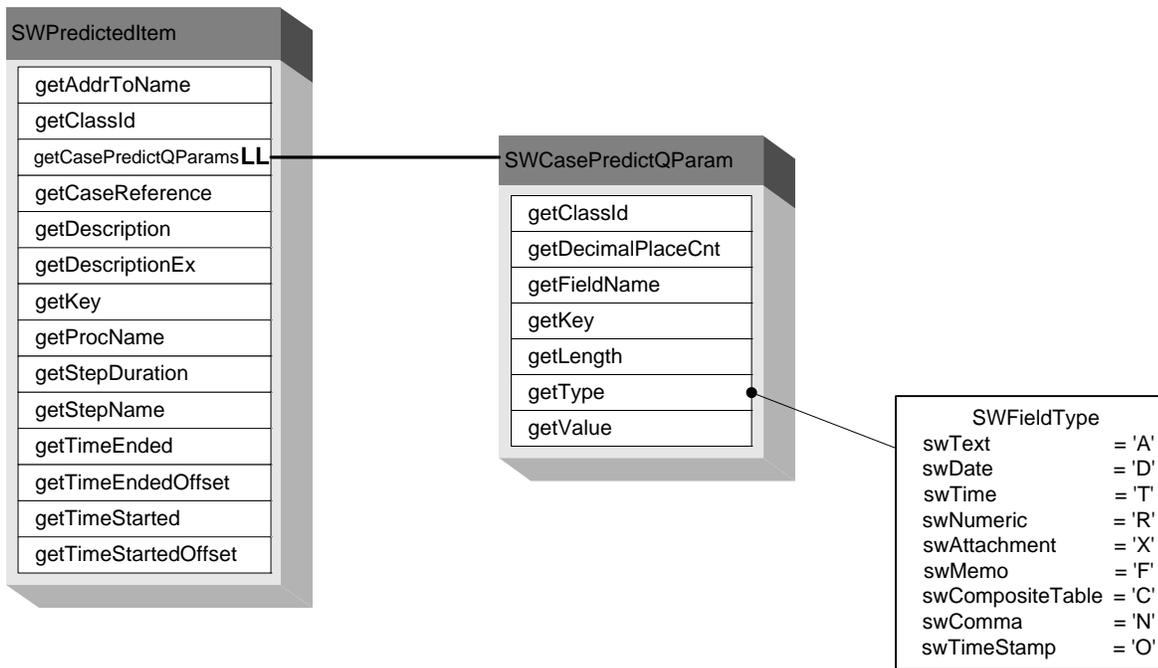








The SWDate object is used in the implementation of participation and redirection schedules.



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  | swAWorkQID             | = 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

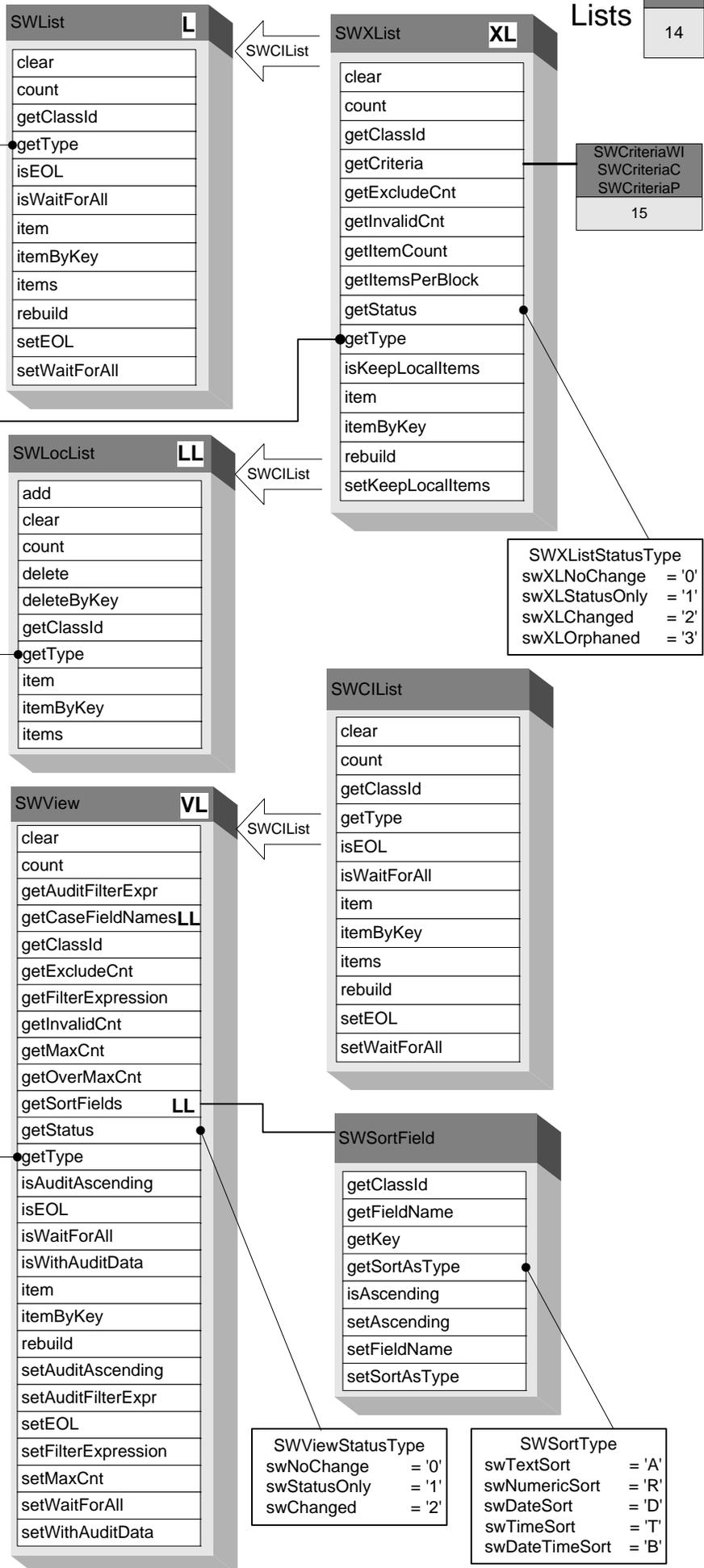
|                  |      |                       |      |
|------------------|------|-----------------------|------|
| swBstrID         | = 8  | swActionID            | = 25 |
| swNodeID         | = 15 | swConditionalID       | = 26 |
| swConfigInfoID   | = 16 | swDeadlineValueID     | = 27 |
| swSALInfoID      | = 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 |

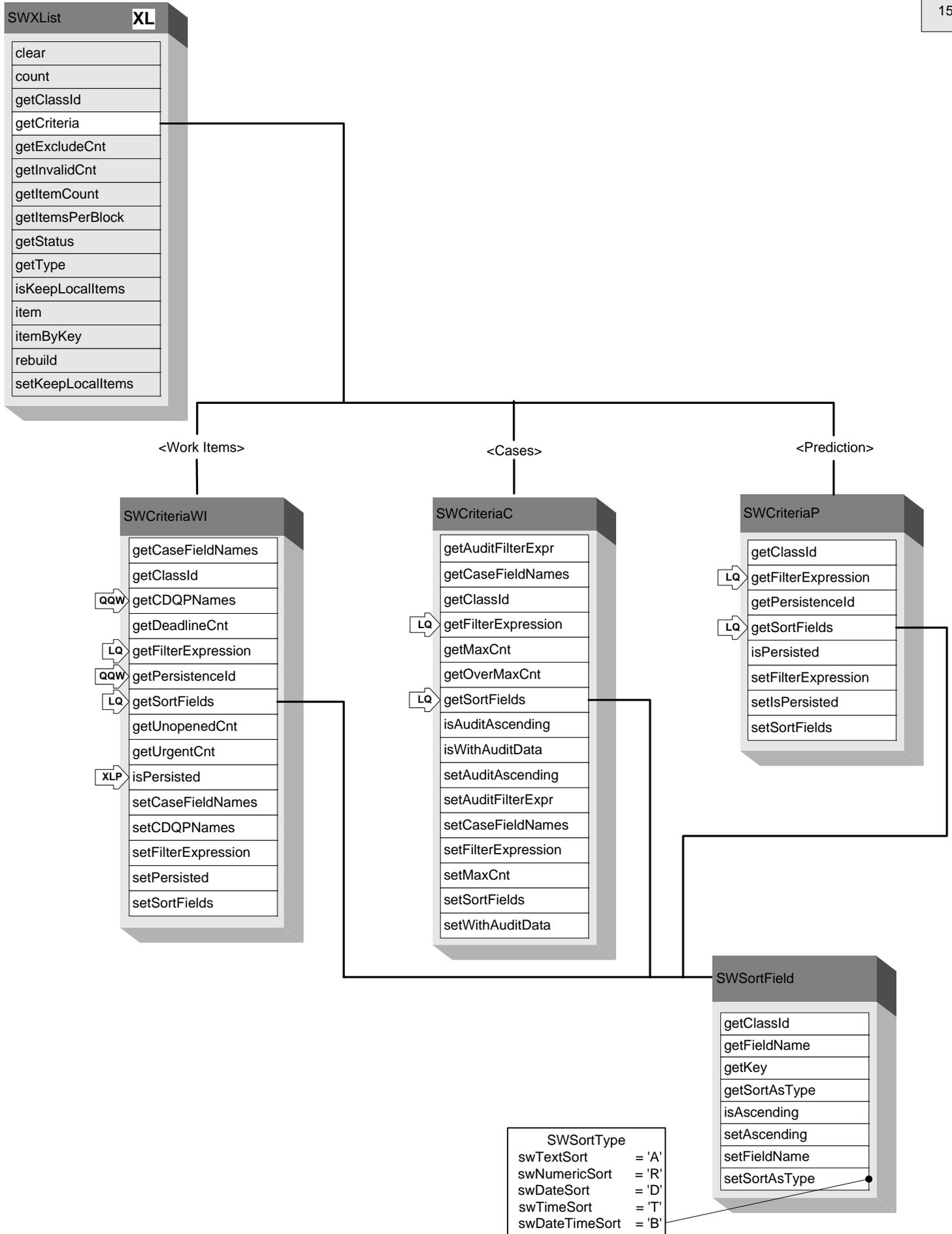


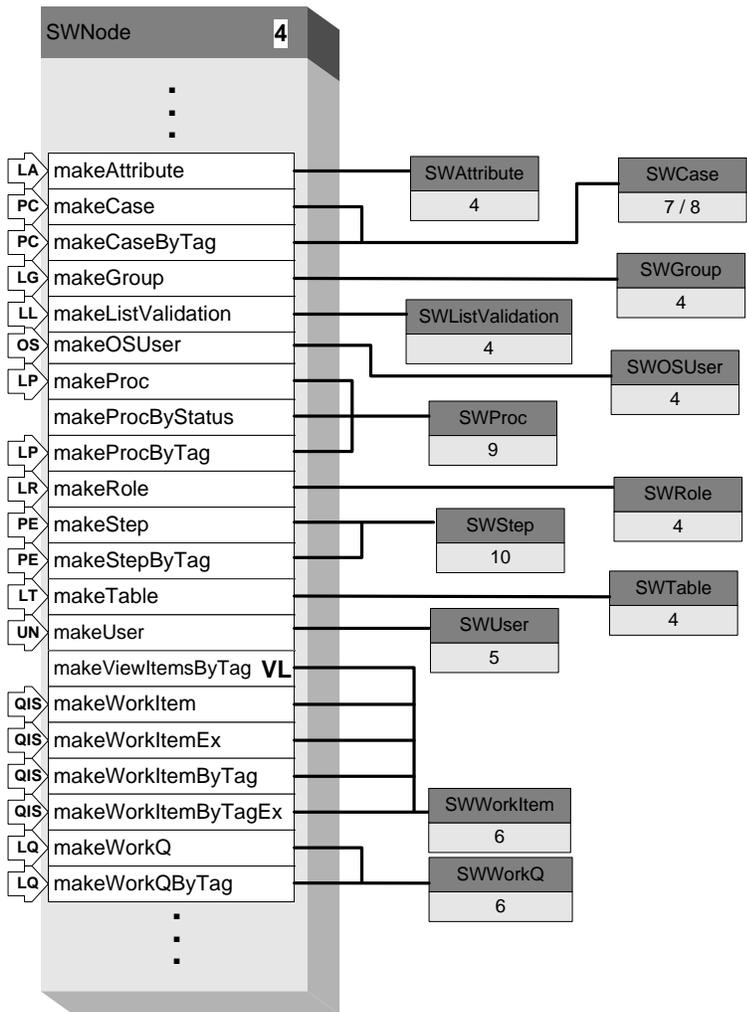
|             |
|-------------|
| SWCriteriaW |
| SWCriteriaC |
| SWCriteriaP |
| 15          |

|                   |       |
|-------------------|-------|
| SWXListStatusType |       |
| swXLNoChange      | = '0' |
| swXLStatusOnly    | = '1' |
| swXLChanged       | = '2' |
| swXLOrphaned      | = '3' |

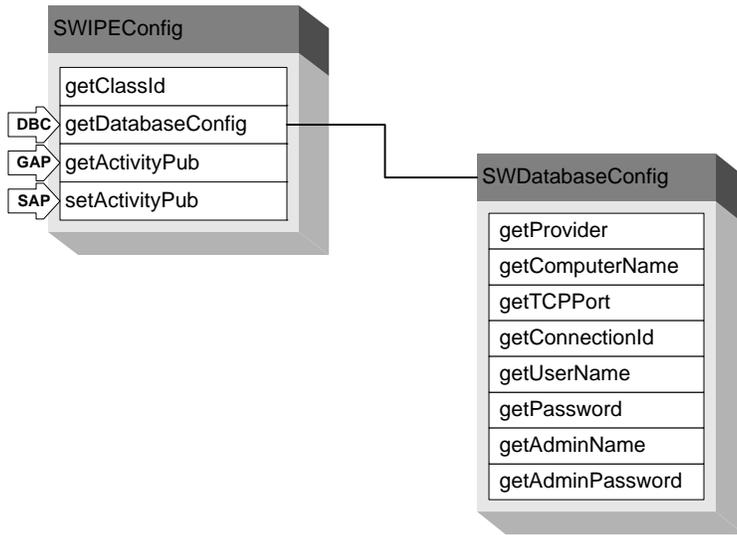
|                  |       |
|------------------|-------|
| SWViewStatusType |       |
| swNoChange       | = '0' |
| swStatusOnly     | = '1' |
| swChanged        | = '2' |

|                |       |
|----------------|-------|
| SWSortType     |       |
| swTextSort     | = 'A' |
| swNumericSort  | = 'R' |
| swDateSort     | = 'D' |
| swTimeSort     | = 'T' |
| swDateTimeSort | = 'B' |





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 list 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 then 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_MBSSetErr          | 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 | swInnAttrTypeErr      | 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_SecPwdInvalidErr   | 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_BadPwErr           | 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 | swNotAblesErr          | 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 | swNORRecordErr         | 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 newsal_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 sal_queues_getqueue_info function.   |
| 191 0x00BF | swStatusOnlyErr        | Internal error for status only  |
| 192 0x00C0 | swMultiAuthErr         | User already logged in on another client  |
| 193 0x00C1 | swQOpenErr             | Error in salq_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 | swExcldMaxSupvrsLstErr | 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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*Note - The page number in parentheses indicates the primary reference.*