

NetWare API

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GetLocalTables

GetSpecificServerInfo

Directory Services

Directory Services Global Constants

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AllocPermanentDirectoryHandle
ClearVolRestrictions
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DeleteTrustee
GetCurrentDirectory
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GetDirInfo
GetEffectiveDirectoryRights
GetObjectDiskRestrictions
GetVolumeInformation
GetVolumeInfoWithNumber
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IsSearchDrive
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MoveEntry
RestoreDirectoryHandle
ScanDirectoryForTrustees
ScanDirEntry
ScanEntryForTrustees
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Error Code Global Constants

uint SERVER_NOT_IN_USE	= 0	
uint SHELL_VERSION_TOO_OLD	= 0	
uint SUCCESSFUL	= 0	
uint TTS_NOT_AVAILABLE	= 0	
uint SEMAPHORE_OVERFLOW	= 1	
uint SERVER_IN_USE	= 1	
uint TTS_AVAILABLE	= 1	
uint INVALID_MODE	= 125	
uint FILE_IN_USE_ERROR	= 128	
uint NO_MORE_FILE_HANDLES	= 129	
uint NO_OPEN_PRIVILEGES		= 130
uint IO_ERROR_NETWORK_DISK	= 131	
uint NO_CREATE_PRIVILEGES	= 132	
uint NO_CREATE_DELETE_PRIVILEGES	= 133	
uint CREATE_FILE_EXISTS_READ_ONLY	= 134	
uint WILD_CARDS_IN_CREATE_FILE_NAME	= 135	
uint INVALID_FILE_HANDLE	= 136	
uint NO_SEARCH_PRIVILEGES	= 137	
uint NO_DELETE_PRIVILEGES	= 138	
uint NO_RENAME_PRIVILEGES	= 139	
uint NO_MODIFY_PRIVILEGES	= 140	
uint SOME_FILES_AFFECTED_IN_USE		= 141
uint NO_FILES_AFFECTED_IN_USE	= 142	
uint SOME_FILES_AFFECTED_READ_ONLY	= 143	
uint NO_FILES_AFFECTED_READ_ONLY	= 144	
uint SOME_FILES_RENAMED_NAME_EXISTS	= 145	
uint NO_FILES_RENAMED_NAME_EXISTS	= 146	
uint NO_READ_PRIVILEGES		= 147
uint NO_WRITE_PRIVILEGES_OR_READONLY	= 148	
uint FILE_DETACHED	= 149	
uint SERVER_OUT_OF_MEMORY	= 150	
uint NO_DISK_SPACE_FOR_SPOOL_FILE	= 151	
uint VOLUME_DOES_NOT_EXIST	= 152	
uint DIRECTORY_FULL	= 153	
uint ERR_DIRECTORY_FULL		= 153
uint RENAMING_ACROSS_VOLUMES		= 154
uint BAD_DIRECTORY_HANDLE	= 155	
uint INVALID_PATH	= 156	
uint NO_MORE_TRUSTEES	= 156	
uint NO_MORE_DIRECTORY_HANDLES	= 157	
uint INVALID_FILENAME	= 158	
uint DIRECTORY_ACTIVE	= 159	
uint DIRECTORY_NOT_EMPTY	= 160	
uint DIRECTORY_IO_ERROR		= 161
uint READ_FILE_WITH_RECORD_LOCKED	= 162	
uint NW_BAD_DISK_NUMBER	= 163	
uint NW_UNUSED_DISK_NUMBER	= 164	
uint SEARCH_DRIVE_VECTOR_FULL		= 176
uint DRIVE_IS_NOT_MAPPED	= 177	
uint CANT_MAP_LOCAL_DRIVE	= 178	
uint INVALID_MAP_TYPE	= 179	
uint INVALID_DRIVE_LETTER	= 180	
uint NO_DRIVE_AVAILABLE		= 181

uint WORKSTATION_OUT_OF_MEMORY	= 182	
uint NO_SUCH_SEARCH_DRIVE	= 183	
uint PATH_ENVIRON_VARIABLE_INVALID	= 184	
uint NO_ACCT_PRIVILEGES	= 192	
uint LOGIN_DENIED_NO_ACCOUNT_BALANCE		= 193
uint NO_ACCT_BALANCE	= 193	
uint ACCT_CREDIT_LIMIT_EXCEEDED		= 194
uint LOGIN_DENIED_NO_CREDIT	= 194	
uint ACCT_TOO_MANY_HOLDS	= 195	
uint INTRUDER_DETECTION_LOCK	= 197	
uint NO_CONSOLE_OPERATOR	= 198	
uint PASSWORD_NOT_UNIQUE	= 215	
uint PASSWORD_TOO_SHORT	= 216	
uint LOGIN_DENIED_NO_CONNECTION	= 217	
uint UNAUTHORIZED_LOGIN_TIME	= 218	
uint UNAUTHORIZED_LOGIN_STATION	= 219	
uint ACCOUNT_DISABLED	= 220	
uint PASSWORD_HAS_EXPIRED_NO_GRACE	= 222	
uint PASSWORD_HAS_EXPIRED	= 223	
uint NOT_ITEM_PROPERTY		= 232
uint WRITE_PROPERTY_TO_GROUP	= 232	
uint MEMBER_ALREADY_EXISTS	= 233	
uint NO_SUCH_MEMBER	= 234	
uint NOT_GROUP_PROPERTY	= 235	
uint NO_SUCH_SEGMENT	= 236	
uint PROPERTY_ALREADY_EXISTS	= 237	
uint OBJECT_ALREADY_EXISTS	= 238	
uint INVALID_NAME	= 239	
uint WILD_CARD_NOT_ALLOWED	= 240	
uint IPX_NOT_INSTALLED	= 240	
uint INVALID_BINDERY_SECURITY	= 241	
uint NO_OBJECT_READ_PRIVILEGE	= 242	
uint NO_OBJECT_RENAME_PRIVILEGE		= 243
uint NO_OBJECT_DELETE_PRIVILEGE		= 244
uint NO_OBJECT_CREATE_PRIVILEGE		= 245
uint NO_PROPERTY_DELETE_PRIVILEGE	= 246	
uint NOT_SAME_LOCAL_DRIVE	= 246	
uint NO_PROPERTY_CREATE_PRIVILEGE	= 247	
uint TARGET_DRIVE_NOT_LOCAL	= 247	
uint ALREADY_ATTACHED_TO_SERVER	= 248	
uint NO_PROPERTY_WRITE_PRIVILEGE	= 248	
uint NOT_ATTACHED_TO_SERVER	= 248	
uint NO_FREE_CONNECTION_SLOTS		= 249
uint NO_PROPERTY_READ_PRIVILEGE		= 249
uint NO_MORE_SERVER_SLOTS	= 250	
uint TEMP_REMAP_ERROR	= 250	
uint INVALID_PARAMETERS	= 251	
uint NO_SUCH_PROPERTY	= 251	
uint UNKNOWN_REQUEST		= 251
uint INTERNET_PACKET_REQT_CANCELED	= 252	
uint UNKNOWN_FILE_SERVER	= 252	
uint MESSAGE_QUEUE_FULL	= 252	
uint NO_SUCH_OBJECT	= 252	
uint BAD_STATION_NUMBER	= 253	
uint INVALID_PACKET_LENGTH	= 253	
uint UNKNOWN_REQUEST	= 253	

uint FIELD_ALREADY_LOCKED	= 253	
uint TTS_DISABLED	= 253	
uint FSCOPY_DIFFERENT_NETWORKS		= 253
uint BINDERY_LOCKED	= 254	
uint DIRECTORY_LOCKED	= 254	
uint INVALID_SEMAPHORE_NAME_LENGTH	= 254	
uint IMPLICIT_TRANSACTION_ACTIVE	= 254	
uint PACKET_NOT_DELIVERABLE	= 254	
uint SERVER_BINDERY_LOCKED	= 254	
uint SOCKET_TABLE_FULL	= 254	
uint SPOOL_DIRECTORY_ERROR	= 254	
uint SUPERVISOR_HAS_DISABLED_LOGIN	= 254	
uint TIMEOUT_FAILURE	= 254	
uint TRANSACTION_ENDS_RECORDS_LOCKED		= 254
uint BAD_PRINTER_ERROR		= 255
uint BAD_RECORD_OFFSET		= 255
uint BINDERY_FAILURE	= 255	
uint CLOSE_FCB_ERROR	= 255	
uint EXPLICIT_TRANSACTION_ACTIVE	= 255	
uint EXPLICIT_TRANSACTION_NOT_ACTIVE	= 255	
uint FILE_EXTENSION_ERROR	= 255	
uint FILE_NAME_ERROR	= 255	
uint HARDWARE_FAILURE	= 255	
uint INVALID_DIRECTORY_HANDLE	= 255	
uint INVALID_DRIVE_NUMBER	= 255	
uint INVALID_INITIAL_SEMAPHORE_VALUE	= 255	
uint INVALID_SEMAPHORE_HANDLE		= 255
uint IO_BOUND_ERROR	= 255	
uint NO_FILES_FOUND_ERROR	= 255	
uint NO_RECORD_FOUND	= 255	
uint NO_RESPONSE_FROM_SERVER	= 255	
uint NO_SUCH_OBJECT_OR_BAD_PASSWORD	= 255	
uint OLD_BETA_OR_BAD_DLL_PATH		= 255
uint PATH_ALREADY_EXISTS	= 255	
uint PATH_NOT_LOCATABLE	= 255	
uint QUEUE_FULL_ERROR	= 255	
uint REQUEST_NOT_OUTSTANDING	= 255	
uint SOCKET_ALREADY_OPEN	= 255	
uint SOCKET_CLOSED	= 255	
uint TRANSACTION_NOT_YET_WRITTEN	= 255	
uint INVALID_CONNECTION_ID	= 257	

//errors numbers 512 through 1023 are reserved for user interface

uint UNEXPECTED_INTERNAL_CONDITION	= 2989	
uint ENVIRONMENT_OVERFLOW	= 65535	
uint NO_SUCH_ENVIRON_VARIABLE		= 65535

File Services

File Services Global Contants

EraseFiles
GetExtendedFileAttributes
PurgeErasedFiles
RecoverSalvagableFile
ScanFileEntry
ScanFilePhysical
SetExtendedFileAttributes

File Services Structures

FileServerFileCopy
PurgeAllErasedFiles
PurgeSalvagableFile
RestoreErasedFile
ScanFileInformation
ScanSalvagableFiles
SetFileInformation

File Server Environment Services

File Server Environment Services Structures

<u>CheckConsolePrivileges</u>	<u>CheckNetWareVersion</u>
<u>ClearConnectionNumber</u>	<u>DisableFileServerLogin</u>
<u>DisableTransactionTracking</u>	<u>DownFileServer</u>
<u>EnableFileServerLogin</u>	<u>EnableTransactionTracking</u>
<u>GetConnectionsOpenFiles</u>	<u>GetConnectionsSemaphores</u>
<u>GetConnectionsTaskInformation</u>	<u>GetConnectionsUsageStats</u>
<u>GetConnectionsUsingFile</u>	<u>GetDiskCacheStats</u>
<u>GetDiskChannelStats</u>	<u>GetDiskUtilization</u>
<u>GetDriveMappingTable</u>	<u>GetFileServerDateAndTime</u>
<u>GetFileServerDescriptionStrings</u>	<u>GetFileServerLANIOStats</u>
<u>GetFileServerLoginStatus</u>	<u>GetFileServerMiscInformation</u>
<u>GetFileServerName</u>	<u>GetFileSystemStats</u>
<u>GetLANDriverConfigInfo</u>	<u>GetLogicalRecordInformation</u>
<u>GetLogicalRecordByConnection</u>	<u>GetPathFromDirectoryEntry</u>
<u>GetPhysicalDiskStats</u>	<u>GetPhysicalRecordLocksByFile</u>
<u>GetPhysRecLockByConnectAndFile</u>	<u>GetSemaphoreInformation</u>
<u>GetServerInformation</u>	<u>SendConsoleBroadcast</u>
<u>SetFileServerDateAndTime</u>	

Message Services

BroadcastToConsole
CloseMessagePipe
EnableBroadcasts
GetBroadcastMode
LogNetWorkMessage
SendBroadcastMessage
SetBroadcastMode

CheckPipeStatus
DisableBroadcasts
GetBroadcastMessage
GetPersonalMessage
OpenMessagePipe
SendPersonalMessage

Miscellaneous Services

ASCIIZToLenStr

ConvertNameToVolumePath

GetNetworkSerialNumber

IsV3Supported

LongSwap

StripFileServerFromPath

ConvertNameToFullPath

GetFullPath

IntSwap

LenToASCIIZStr

ParsePath

VerifyNetworkSerialNumber

Name Space Services

//All Name Space functions apply to NetWare 3.x/4.x only

Name Space Services Global Constants

FillNameSpaceBuffer

GetNameSpaceEntry

GetNumNameSpaceAndDataStreams

GetDataStreamInfo

GetNameSpaceInfo

Print Services

Print Services Global Constants

CancelLPTCapture
EndLPTCapture
FlushLPTCapture
GetBannerUserName
GetDefaultLocalPrinter
GetPrinterQueue
GetSpecificCaptureFlags
SetCapturePrintJob
SetDefaultCaptureFlags
SetSpecificCaptureFlags
SpecifyCaptureFile
StartSpecificLPTCapture

Print Services Structures

CancelSpecificLPTCapture
EndSpecificLPTCapture
FlushSpecificLPTCapture
GetDefaultCaptureFlags
GetLPTCaptureStatus
GetPrinterStatus
SetBannerUserName
SetCapturePrintQueue
SetDefaultLocalPrinter
SetSpoolFlags
StartLPTCapture

Print Server Services

Print Server Services Global Constants

PSAbortPrintJob
PSAddQueueToPrinter
PSAttachToPrintServer
PSChangeNotifyInterval
PSChangeServiceMode
PSDeleteQueueFromPrinter
PSDetachPrtServerFromFileServer
PSEjectForm
PSGetNextRemotePrinter
PSGetPrintersServicingQueue
PSGetPrintJobStatus
PSGetQueuesServiced
PSMarkTopOfForm
PSRewindPrintJob
PSSetRemoteMode
PSStopPrinter

Print Server Services Structures

PSAddNotifyObject
PSAttachPrintServerToFileServer
PSCancelDownRequest
PSChangeQueuePriority
PSDeleteNotifyObject
PSDetachFromPrintServer
PSDownPrintServer
PSGetAttachedServers
PSGetNotifyObject
PSGetPrinterStatus
PSGetPrintServerInfo
PSLoginToPrintServer
PSRequestRemotePrinter
PSSetMountedForm
PSStartPrinter

Print Queue Services

Print Queue Services Global Constants

AbortServicingQueueJobAndFile
ChangeQueueJobEntry
ChangeToClientRights
CloseFileAndStartQueueJob
CreateQueueJobAndFile
DetachQueueServerFromQueue
GetQueueJobList
ReadQueueCurrentStatus
ReadQueueServerCurrentStatus
RestoreQueueServerRights
SetQueueCurrentStatus

Print Queue Services Structures

AttachQueueServerToQueue
ChangeQueueJobPosition
CloseFileAndAbortQueueJob
CreateQueue
DestroyQueue
FinishServicingQueueJobAndFile
GetQueueJobsFileSize
ReadQueueJobEntry
RemoveJobFromQueue
ServiceQueueJobAndOpenFile
SetQueueServerCurrentStatus

Service Advertising Protocol

Service Advertising Protocol Structures

AdvertiseService
ShutdownSAP

QueryServices

Synchronization Services

ClearFile
ClearLogicalRecord
ClearPhysicalRecord
CloseSemaphore
GetLockMode
LockLogicalRecordSet
LogFile
LogPhysicalRecord
ReleaseFile
ReleaseLogicalRecord
ReleasePhysicalRecord
SetLockMode
WaitOnSemaphore

ClearFileSet
ClearLogicalRecordSet
ClearPhysicalRecordSet
ExamineSemaphore
LockFileSet
LockPhysicalRecordSet
LogLogicalRecord
OpenSemaphore
ReleaseFileSet
ReleaseLogicalRecordSet
ReleasePhysicalRecordSet
SignalSemaphore

Transaction Tracking Services

Transaction Tracking Services Structures

TTSAbortTransaction

TTSEndTransaction

TTSGetStats

TTSIsAvailable

TTSSetWorkstationThresholds

TTSTBeginTransaction

TTSGetApplicationThresholds

TTSGetWorkstationThresholds

TTSSetApplicationThresholds

TTSTransactionStatus

Workstation Environment Services

EndOfJob

GetDefaultConnectionID

GetNumberOfLocalDrives

GetPrimaryConnectionID

IsConnectionIDInUse

SetNetWareErrorMode

SetPrimaryConnectionID

GetConnectionID

GetNetWareShellVersion

GetPreferredConnectionID

GetWorkstationEnvironment

SetEndOfJobStatus

SetPreferredConnectionID

AccountingInstalled

Function Integer AccountingInstalled (int ConnectionID) Library "NWNETAPI.DLL"

GetAccountStatus

Function Integer GetAccountStatus (int BinderyObjectType, string BinderyObjectName, ref int Balance, ref int Limit, ref int Holds) Library "NWNETAPI.DLL"

SubmitAccountCharge

Function Integer SubmitAccountCharge (int BinderyObjectType, string BinderyObjectName, int ServiceType, int ChargeAmount, int CancelHoldAmount, int CommentType, string Comment) Library "NWNETAPI.DLL"

SubmitAccountHold

Function Integer SubmitAccountHold (int BinderyObjectType, string BinderyObjectName, int ReserveAmount) Library "NWNETAPI.DLL"

SubmitAccountNote

Function Integer SubmitAccountNote (int BinderyObjectType, string
BinderyObjectName, int ServiceType, int CommentType, int CommentLen, string
Comment) Library "NWNETAPI.DLL"

Accounting Services Global Constants

int CHARGE_RECORD	= 1	
int NOTE_RECORD		= 2
int CONNECT_TIME_CHARGE_NOTE		= 1
int DISK_STORAGE_CHARGE_NOTE	= 2	
int LOGIN_NOTE	= 3	
int LOGOUT_NOTE	= 4	
int ACCOUNT_LOCKED_NOTE	= 5	
int SERVER_TIME_MODIFIED_NOTE	= 6	

AFPAllocTemporaryDirHandle

Function Integer AFPAllocTemporaryDirHandle (int ConnectionID, int VolumeNum, int AFPEntryID, string
AFPPathString, int NetWareDirectoryHandle, int AccessRights) LIBRARY "NWNETAPI.DLL"

AFPCreateDirectory

Function Integer AFPCreateDirectory (int ConnectionID, int VolumeNum, long AFPEnterID,
AFP_FINDER_INFO FinderInfo, ref string AFPPathString, ref int NewAFPEnterID) Library "NWNETAPI.DLL"

AFPCreateFile

Function Integer AFPCreateFile (int ConnectionID, int VolumeNum, long AFPEnterID, int DeleteExistingFile, long FinderInfo, string AFPPathString, long NewAFPEnterID) Library "NWNETAPI.DLL"

AFPDelete

Function Integer AFPDelete (int ConnectionID, int VolumeNum, long AFPEntryID, string AFPPathString)
Library "NWNETAPI.DLL"

AFPDirectoryEntry

Function Integer AFPDirectoryEntry (int ConnectionID, int DirectoryHandle, string PathName) Library
"NWNETAPI.DLL"

AFPGetEntryIDFromName

Function Integer AFPGetEntryIDFromName (int ConnectionID, int VolumeNum, long AFPEntryID, string
AFPPathString, ref long NewAFPEntryID) Library "NWNETAPI.DLL"

AFPGetEntryIDFromNetWareHandle

Function Integer AFPGetEntryIDFromNetWareHandle (FILE_HANDLE NetWareHandle, ref int VolumeNum, ref long AFPEntryID, ref int ForkIndicator) Library "NWNETAPI.DLL"

AFPGetEntryIDFromPathName

Function Integer AFPGetEntryIDFromPathName (int ConnectionID, long DirectoryHandle, string PathName, ref long AFPEntryID) Library "NWNETAPI.DLL"

AFPGetFileInfo

Integer Function AFPGetFileInfo (int ConnectionID, int VolumeNum, long AFPEntryID, int RequestBitMap, string AFPPathString, int StructSize, AFP_FILE_INFO AFPFileInfo) Library "NWNETAPI.DLL"

AFPOpenFileFork

Function Integer AFPOpenFileFork (int ConnectionID, int VolumeNum, long AFPEntryID, int ForkIndicator, int AccessMode, string AFPPathString, ref long FileID, ref long ForkLength, ref int NetWareHandle, ref int FileHandle) Library "NWNETAPI.DLL"

AFPRename

Function Integer AFPRename (int ConnectionID, int VolumeNum, long AFPSourceEntryID, long AFPDestEntryID, string AFPSourcePath, string AFPDestPath) Library "NWNETAPI.DLL"

AFPScanFileInformation

Function Integer AFPScanFileInformation (int ConnectionID, int VolumeNum, long AFPEntID, ref long AFPLastSeenID, int SearchBitMap, int RequestBitMap, string AFPPath, int StructSize, AFP_FILE_INFO AFPFileInfo) Library "NWNETAPI.DLL"

AFPSetFileInformation

Function Integer AFPSetFileInformation (int ConnectionID, int VolumeNum, long AFPEnterID, int RequestBitMap, string AFPPathString, int StructSize, AFP_SET_INFO AFPSetInfo) Library "NWNETAPI.DLL"

AFPSupported

Function Integer AFPSupported (int ConnectionID) Library "NWNETAPI.DLL"

AFPS Structures

FILE_HANDLE

AFP_FINDER_INFO

AFP_FILE_INFO

AFP_SET_INFO

FILE_HANDLE

Handle

string

AFP_FINDER_INFO

Info string

AFP_FILE_INFO

EntryID	long	
ParentID	long	
Attributes	integer	
DataForkLength	long	
ResourceForkLength	long	
NumOffspring	integer	
CreationDate	integer	
AccessDate	integer	
ModifyDate	integer	
ModifyTime	integer	
BackupDate	integer	
BackupTime	integer	
FinderInfo	<u>AFP_FINDER_INFO</u>	
Longname	string	
Pad1	string	
OwnerID		long
ShortName	string	
Pad2	string	
AccessPrivileges	integer	

AFP_SET_INFO

Attributes	integer
CreationDate	integer
AccessDate	integer
ModifyDate	integer
ModifyTime	integer
BackupDate	integer
BackupTime	integer
FinderInfo	<u>AFP_FINDER_INFO</u>

AddBinderyObjectToSet

Function Integer AddBinderyObjectToSet (string ObjectName, int ObjectType, string PropertyName, string MemberName, int MemberType) Library "NWNETAPI.DLL"

ChangeBinderyObjectPassword

Function Integer ChangeBinderyObjectPassword (string ObjectName, int ObjectType, string OldPassword, string NewPassword) Library "NWNETAPI.DLL"

ChangeBinderyObjectSecurity

Function Integer ChangeBinderyObjectSecurity (string ObjectName, int ObjectType, int NewObjectSecurity)
Library "NWNETAPI.DLL"

ChangePropertySecurity

Function Integer ChangePropertySecurity (string ObjectName, int ObjectType, string PropertyName, int NewPropertySecurity) Library "NWNETAPI.DLL"

CloseBindery

Function Integer CloseBindery () Library "NWNETAPI.DLL"

CreateBinderyObject

Function Integer CreateBinderyObject (string ObjectName, int ObjectType, int ObjectFlag, int ObjectSecurity)
Library "NWNETAPI.DLL"

CreateProperty

Function Integer CreateProperty (string ObjectName, int ObjectType, string PropertyName, int PropertyFlags, int PropertySecurity) Library "NWNETAPI.DLL"

DeleteBinderyObject

Function Integer DeleteBinderyObject (string ObjectName, int ObjectType) Library "NWNETAPI.DLL"

DeleteBinderyObjectFromSet

Function Integer DeleteBinderyObjectFromSet (string ObjectName, int ObjectType, string PropertyName, string MemberName, int MemberType) Library "NWNETAPI.DLL"

DeleteProperty

Function Integer DeleteProperty (string ObjectName, int ObjectType, string PropertyName) Library
"NWNETAPI.DLL"

GetBinderyAccessLevel

Function Integer GetBinderyAccessLevel (ref int SecurityAccessLevel, ref long ObjectID) Library
"NWNETAPI.DLL"

GetBinderyObjectDiskSpaceLeft

Function Integer GetBinderyObjectDiskSpaceLeft (int ConnectionID, int BinderyObjectID, long SystemElapsedTime, ref long UnusedDiskBlocks, ref int RestrictionEnforced) Library "NWNETAPI.DLL"

GetBinderyObjectID

Function Integer GetBinderyObjectID (string ObjectName, int ObjectType, ref long ObjectID) Library
"NWNETAPI.DLL"

GetBinderyObjectName

Function Integer GetBinderyObjectName (long ObjectID, string ObjectName, ref int ObjectType) Library
"NWNETAPI.DLL"

IsBinderyObjectInSet

Function Integer IsBinderyObjectInSet (string ObjectName, int ObjectType, string PropertyName, string MemberName, int MemberType) Library "NWNETAPI.DLL"

OpenBindery

Function Integer OpenBindery () Library "NWNETAPI.DLL"

ReadPropertyValue

Function Integer ReadPropertyValue (string ObjectName, int ObjectType, string PropertyName, int SegmentNumber, PROPERTY_VALUE PropertyValue, ref int MoreSegments, ref int PropertyFlags) Library "NWNETAPI.DLL"

RenameBinderyObject

Function Integer RenameBinderyObject (string ObjectName, string NewObjectName, int ObjectType) Library
"NWNETAPI.DLL"

ScanBinderyObject

Function Integer ScanBinderyObject (string SearchObjectName, int SearchObjectType, ref long ObjectID, string ObjectName, int ObjectType, ref int ObjectHasProperties, ref int ObjectFlag, ref int ObjectSecurity) Library "NWNETAPI.DLL"

ScanBinderyObjectTrusteePaths

Function Integer ScanBinderyObjectTrusteePaths (long ObjectID, int VolumeNumber, ref int SequenceNumber, ref int TrusteeAccessMask, string TrusteePathName) Library "NWNETAPI.DLL"

//TrusteePathName must be initialized to 255 characters

ScanProperty

Function Integer ScanProperty (string ObjectName, int ObjectType, string SearchPropertyName, ref long SequenceNumber, string PropertyName, ref int PropertyFlags, ref int PropertySecurity, ref int PropertyHasValue, ref int MoreProperties) Library "NWNETAPI.DLL"

VerifyBinderyObjectPassword

Function Integer VerifyBinderyObjectPassword (string ObjectName, int ObjectType, string Password) Library
"NWNETAPI.DLL"

WritePropertyValue

Function Integer WritePropertyValue (string objectName, int ObjectType, string PropertyName, int SegmentNumber, PROPERTY_VALUE PropertyValue, int MoreSegments) Library "NWNETAPI.DLL"

Bindary Services Global Constants

ObjectType

ObjectSecurity

PropertyHasValue

ObjectType

int OT_WILD	= -1 // Matches any type	
int OT_UNKNOWN	= 0 // Unknown object type	
int OT_USER	= 1 // The object is a "user"	
int OT_USER_GROUP	= 2 // A group of users	
int OT_PRINT_QUEUE	= 3 // Services print queues	
int OT_FILE_SERVER	= 4 // The object serves files	
int OT_JOB_SERVER	= 5	
int OT_GATEWAY	= 6	
int OT_PRINT_SERVER	= 7	
int OT_ARCHIVE_QUEUE	= 8	
int OT_ARCHIVE_SERVER	= 9 // Services backup jobs	
int OT_JOB_QUEUE	= 10	
int OT_ADMINISTRATION	= 11	
int OT_NAS_SNA_GATEWAY	= 33	
int OT_NACS	= 35	
int OT_REMOTE_BRIDGE_SERVER	= 36	
int OT_BRIDGE_SERVER	= 38	
int OT_TCPIP_GATEWAY	= 39	
int OT_GATE	= 41	
int OT_TIME_SYNCHRONIZATION_SERVER	= 45	
int OT_ARCHIVE_SRV	= 46	
int OT_ADVERTISING_PRINT_SERVER		= 71
int OT_BTREIVE_VAP_NLM_5XX	= 75	
int OT_SQL_VAP_NLM	= 76	
int OT_XTREE_NETWORK	= 77	
int OT_BTREIVE_VAP_NLM_4XX	= 80	
int OT_APPLETALK_GATEWAY	= 83	
int OT_X25_GATEWAY	= 88	
int OT_WAN_COPY		= 114
int OT_TES_NETWORK_VMS		= 122
int OT_NETWORK_ACCESS_SERVER	= 152	
int OT_PORTABLE_NETWORK		= 158
int OT_COMPAQ_IDA_STATUS_MONITOR	= 172	
int OT_NETWORK_386_SERVER	= 263	
int OT_CSA_MUX	= 276	
int OT_CSA_LCA	= 277	
int OT_CSA_CM	= 278	
int OT_CSA_SMA	= 279	
int OT_CSA_DBA	= 280	
int OT_CSA_NMA	= 281	
int OT_CSA_SSA	= 282	
int OT_CSA_STATUS	= 283	
int OT_CSA_APPC		= 286
int OT_SNA_TEST	= 294	
int OT_CSA_TRACE		= 298
int OT_COMMUNICATIONS_EXECUTIVE		= 304
int OT_NNS_DOMAIN	= 307	
int OT_NNS_PROFILE	= 309	
int OT_NNS_QUEUE		= 311
int OT_WORDPERFECT_NETWORK	= -2184	

ObjectSecurity

int BS_ANY_READ	= 0 // Readable by anyone
int BS_LOGGED_READ	= 1 // Must be logged in to read
int BS_OBJECT_READ	= 2 // Readable by same object or super
int BS_SUPER_READ	= 3 // Readable by supervisor only
int BS_BINDERY_READ	= 4 // Readable only by the bindery
int BS_ANY_WRITE	= 0 // Writeable by anyone
int BS_LOGGED_WRITE	= 16 // Must be logged in to write
int BS_OBJECT_WRITE	= 32 // Writeable by same object or super
int BS_SUPER_WRITE	= 48 // Writeable only by the supervisor
int BS_BINDERY_WRITE	= 64 // Writeable by the bindery only

PropertyHasValue

int BF_STATIC	= 0
int BF_DYNAMIC	= 1
int BF_ITEM	= 0
int BF_SET	= 2

Bindary Services Structures

PROPERTY_VALUE

PROPERTY_VALUE

PropertyValue[] string

AttachToFileServer

Function Integer AttachToFileServer (string ServerName, ref int ConnectionID) Library "NWNETAPI.DLL"

AttachToFileServerWithAddress

Function Integer AttachToFileServerWithAddress (string ServerName, ref int ConnectionID, int NetAddress)
Library "NWNETAPI.DLL"

DetachFromFileServer

Function Integer DetachFromFileServer (int ConnectionID) Library "NWNETAPI.DLL"

EnterLoginArea

Function Integer EnterLoginArea (string LoginSubdirectoryName, int NumberOfLocalDrives) Library
"NWNETAPI.DLL"

GetConnectionInformation

Function Integer GetConnectionInformation (long ConnectionNumber, string ObjectName, ref int ObjectType, ref int ObjectID, ref DATE_AND_TIME loginTime) Library "NWNETAPI.DLL"

GetConnectionNumber

Function Long GetConnectionNumber () Library "NWNETAPI.DLL"

GetInternetAddress

Function Integer GetInternetAddress (long ConnectionNumber, ref long NetworkNumber, ref NodeAddress
PhysicalNodeAddress, ref int SocketNumber) Library "NWNETAPI.DLL"

GetObjectConnectionNumbers

Function Integer GetObjectConnectionNumbers (string ObjectName, int ObjectType, ref long
NumberOfConnections, ref long ConnectionList, long MaxConnections) Library "NWNETAPI.DLL"

GetStationAddress

Function Integer GetStationAddress (ref NodeAddress PhysicalNodeAddress) Library "NWNETAPI.DLL"

LoginToFileServer

Function Integer LoginToFileServer (string ObjectName, int ObjectType, string ObjectPassword) Library
"NWNETAPI.DLL"

Logout

Function Integer Logout () Library "NWNETAPI.DLL"

LogoutFromFileServer

Function Integer LogoutFromFileServer (int ConnectionID) Library "NWNETAPI.DLL"

Connection Services Structures

DATE AND TIME

DATE_AND_TIME

Year	string
Month	string
Date	string
Hour	string
Minute	string
Second	string
Day	string

AbortSendingPackets

Function Integer AbortSendingPackets (int ConnectionID, int ComponentNumber) Library "NWIPXSPX.DLL"

GetIPXSPXVersion

Function Integer GetIPXSPXVersion (int ConnectionID, int ComponentNumber, ref AllResponseData Response, ref ReturnReceivedPacketStruct ResponseData) Library "NWIPXSPX.DLL"

GetIPXStatistics

Function Integer GetIPXStatistics (int ConnectionID, int ComponentNumber, ref AllResponseData Response, ref IPXStatisticsStruct ResponseData) Library "NWIPXSPX.DLL"

GetSPXStatistics

Function Integer GetSPXStatistics (int ConnectionID, int
ComponentNumber, ref AllResponseData Response, ref SPXStatisticsStruct ResponseData) Library
"NWIPXSPX.DLL"

StartCountingPkts

Function Integer StartCountingPkts (int ConnectionID, int ComponentNumber, ref AllResponseData Response, ref StartCountingPacketsStruct ResponseData) Library "NWIPXSPX.DLL"

StartSendingPkts

Function Integer StartSendingPktsTimed (int ConnectionID, int ComponentNumber, ref SendPacketsRequestStruct RequestData, ref AllResponseData Response, ref SendPacketsResponseStruct ResponseData, int Ticks) Library "NWIPXSPX.DLL"

GetBridgeDriverConfiguration

Function Integer GetBridgeDriverConfiguration (int ConnectionID, int ComponentNumber, int LANBoardNumber, ref AllResponseData Response, ref DriverConfigurationStruct ResponseData) Library "NWIPXSPX.DLL"

GetBridgeDriverStatistics

Function Integer GetBridgeDriverStatistics (int ConnectionID, int ComponentNumber, int LANBoardNumber, ref AllResponseData Response, ref DriverStatisticsStruct ResponseData) Library "NWIPXSPX.DLL"

GetBridgeDriverStatus

Function Integer GetBridgeDriverStatus (int ConnectionID, int ComponentNumber, ref AllResponseData Response, ref BridgeDriverStatusStruct ResponseData) Library "NWIPXSPX.DLL"

GetShellDriverConfiguration

Function Integer GetShellDriverConfiguration (int ConnectionID, int ComponentNumber, ref AllResponseData Response, ref DriverConfigurationStruct ResponseData) Library "NWIPXSPX.DLL"

GetShellDriverStatistics

Function Integer GetShellDriverStatistics (int ConnectionID, int ComponentNumber, ref AllResponseData Response, ref DriverStatisticsStruct ResponseData) Library "NWIPXSPX.DLL"

BeginDiagnostics

Function Integer BeginDiagnostics (ref BeginDiagnosticStruct Destination, ref int ConnectionID, ref ComponentList CompList) Library "NWIPXSPX.DLL"

EndDiagnostics

Function Integer EndDiagnostics (int ConnectionID) Library "NWIPXSPX.DLL"

FindComponentOffset

Function Integer FindComponentOffset (ref ComponentList CompList, int ComponentID) Library
"NWIPXSPX.DLL"

GetOSVersionInfo

Function Integer GetOSVersionInfo (int ConnectionID, int ComponentNumber, ref AllResponseData response, ref OSVersionStruct ResponseData) Library "NWIPXSPX.DLL"

GetServerAddressTable

Function Integer GetServerAddressTable (int ConnectionID, int ComponentNumber, ref AllResponseData Response, ref ServerAddressTableStruct ResponseData) Library "NWIPXSPX.DLL"

GetServerNameTable

Function Integer GetServerNameTable (int ConnectionID, int ComponentNumber, ref AllResponseData Response,
ref ServerNameTableStruct ResponseData) Library "NWIPXSPX.DLL"

GetShellAddress

Function Integer GetShellAddress (int ConnectionID, int ComponentNumber, ref AllResponseData Response, ref IPXAddress ResponseData) Library "NWIPXSPX.DLL"

GetShellStatistics

Function Integer GetShellStatistics (int ConnectionID, int ComponentNumber, ref AllResponseData Response, ref ShellStatisticsStruct ResponseData) Library "NWIPXSPX.DLL"

GetAllKnownNetWorks

Function Integer GetAllKnownNetWorks (int ConnectionID, int ComponentNumber, int NextNetworkOffset, ref AllResponseData Response, ref AllKnownNetworksStruct ResponseData) Library "NWIPXSPX.DLL"

GetBridgeStatistics

Function Integer GetBridgeStatistics (int ConnectionID, int ComponentNumber, ref AllResponseData Response, ref BridgeStatisticsStruct ResponseData) Library "NWIPXSPX.DLL"

GetLocalTables

Function Integer GetLocalTables (int ConnectionID, int
ComponentNumber, ref AllResponseData Response, ref LocalTablesStruct ResponseData) Library
"NWIPXSPX.DLL"

GetSpecificNetworkInfo

Function Integer GetSpecificNetworkInfo (int ConnectionID, int ComponentNumber, ref long NetworkAddress, ref SpecificNetworkInfoStruct ResponseData) Library "NWIPXSPX.DLL"

Diagnostic Services Global Constants

int MAX_NETWORKS	= 120	
int MAX_SERVERS	= 150	
int MAX_NODES	= 120	
int MAX_EXCLUSIONS	= 80	
int MAX_COMPONENTS	= 10	
int MAX_LOCAL_NETWORKS	= 4	
int MAX_ROUTES	= 47	
int MAX_IPX_PACKET_SIZE	= 576	
int IPX_SPX_COMPONENT	= 0	
int BRIDGE_DRIVER_COMPONENT	= 1	
int SHELL_DRIVER_COMPONENT	= 2	
int SHELL_COMPONENT	= 3	
int VAP_SHELL_COMPONENT	= 4	
int BRIDGE_COMPONENT	= 5	
int FILE_SERVER_COMPONENT	= 6	
int NONDEDICATED_IPX_SPX_COMPONENT	= 7	
int IPX_ONLY	= 8	
int NO_ERRORS	= 0	
int COULD_NOT_GET_LOCAL_TARGET	= 255	
int COULD_NOT_OPEN_SOCKET	= 254	
int COULD_NOT_BEGIN_CONNECTION	= 253	
int COULD_NOT_ESTABLISH_CONNECTION	= 252	
int COULD_NOT_TERMINATE_CONNECTION	= 251	
int BAD_CONNECTION_ID	= 250	
int COULD_NOT_SEND_REQUEST	= 249	
int RECEIVED_REPLY_IN_ERROR	= 248	
int NETWORK_NOT_FOUND		= 239
int NO_RESPONSE_FROM_DESTINATION	= 238	
int RESPONSE_COMPLETION_CODE_BAD	= 237	
int LIST_SIZE_TOO_SMALL		= 236
int INTERNAL_LIST_ERROR		= 235
int NODE_NOT_FOUND_OR_NO_RESPONSE	= 234	
int MEMORY_ALLOCATION_ERROR	= 233	
int VERSION_DOES_NOT_SUPPORT	= 232	

Diagnostic Services Structures

NodeAddress

IPXAddress

IPXHeader

SPXHeader

ECBFragment

ECB

CONNECTION_INFO

BeginDiagnosticStruct

AllResponseData

IPXSPXVersion

IPXStatisticsStruct

SPXStatisticsStruct

ReturnReceivedPacketStruct

StartCountingPacketsStruct

SendPacketsRequestStruct

SendPacketsResponseStruct

DriverConfigurationStruct

DriverStatisticsStruct

BridgeDriverStatusStruct

ComponentList

OSVersionStruct

PrimaryServerStruct

ServerAddressTableStruct

ServerNameTableStruct

ShellStatisticsStruct

ShellVersionStruct

AllKnownNetworksStruct

ServerInfoStruct

AllKnownServersStruct

BridgeStatisticsStruct

LOCAL_ADDRESS

RoutingInfoStruct

SpecificNetworkInfoStruct

RouteSourceInfoStruct

SpecificServerInfoStruct

NodeAddress

NodeHi	long
NodeLo	integer

IPXAddress

Network	long
NodeAddr	<u>NodeAddress</u>
Socket	integer

IPXHeader

Checksum	integer
Length	integer
TransportControl	string
PacketType	string
Destination	<u>IPXAddress</u>
Source	<u>IPXAddress</u>

SPXHeader

Checksum	integer
Length	integer
TransportControl	string
PacketType	string
Destination	<u>IPXAddress</u>
Source	<u>IPXAddress</u>
ConnectionControl	string
DataStreamType	string
SourceConnectionID	integer //high-low unsigned
DestConnectionID	integer //high-low unsigned
SequenceNumber	integer //high-low unsigned
AcknowledgeNumber	integer //high-low unsigned
AllocationNumber	integer //high-low unsigned

ECBFragment

Address	long
Size	integer

ECB

LinkAddress	long
EsrAddress	long
InUseFlag	string
CompletionCode	string
SocketNumber	integer
IpxWorkspace	string
DriverWorkspace	string
ImmediateAddress	<u>IPXAddress</u>
FragmentCount	integer
FragmentDescriptor	<u>ECBFragment</u>

CONNECTION_INFO

ConnectionState	string
ConnectionFlags	string
SourceConnectionID	integer //high-low byte order
DestinationConnectionID	integer //hi-lo
SequenceNumber	integer //hi-lo
AcknowledgeNumber	integer //hi-lo
AllocationNumber	integer //hi-lo
RemoteAcknowledgeNumber	integer //hi-lo
RemoteAllocationNumber	integer //hi-lo
ConnectionSocket	integer
ImmediateAddress	<u>IPXAddress</u>
Destination	<u>IPXAddress</u>
RetransmissionCount	integer //hi-lo
EstimatedRoundTripDelay	integer //hi-lo
RetransmittedPackets	integer //hi-lo
SuppressedPackets	integer //hi-lo

BeginDiagnosticStruct //same as IPXAddress

Network	long
NodeAddr	<u>NodeAddress</u>
Socket	integer

AllResponseData

CompletionCode	string
IntervalMarker	long

IPXSPXVersion

IPXMajorVersion	string
IPXMinorVersion	string
SPXMajorVersion	string
SPXMinorVersion	string

IPXStatisticsStruct

SendPacketCount	long
MalformedPacketCount	integer
GetECBRequestCount	long
GetECBFailureCount	long
AesEventCount	long
PostponedAESEventCount	integer
MaxConfiguredSocketsCount	integer
MaxOpenSocketsCount	integer
OpenSocketFailureCount	integer
ListenECBCount	long
EcbCancelFailureCount	integer
FindRouteFailureCount	integer

SPXStatisticsStruct

MaxConnectionsCount	integer
MaxUsedConnectionsCount	integer
EstablishConnectionRequest	integer
EstablishConnectionFailure	integer
ListenConnectionRequestCount	integer
ListenConnectionFailureCount	integer
SendPacketCount	long
WindowChokeCount	long
BadSendPacketCount	integer
SendFailureCount	integer
AbortConnectionCount	integer
ListenPacketCount	long
BadListenPacketCount	integer
IncomingPacketCount	long
BadIncomingPacketCount	integer
SuppressedPacketCount	integer
NoSessionListenECBCount	integer
WatchdogDestroySessionCount	integer

ReturnReceivedPacketStruct

ReceivedPackets integer

StartCountingPacketsStruct

DestinationSocket integer

SendPacketsRequestStruct

Target	<u>BeginDiagnosticStruct</u>
ImmediateAddress	string
NumberOfPackets	integer
TimerTickInterval	string
PacketsPerTickInterval	string
PacketSize	integer
ChangeSize	integer

SendPacketsResponseStruct

NumberOfTransmitErrors integer

DriverConfigurationStruct

NetworkAddr	long	
NodeAddr	<u>NodeAddress</u>	
LanMode	string	
NodeAddressType	string	
MaxDataSize	integer	
Reserved1	integer	
LanHardwareID	string	
TransportTime	integer	
Reserved2	string	
MajorVersion	string	
MinorVersion	string	
EthernetFlagBits	string	
SelectedConfiguration	string	
LanDescription	string	
IOAddress1	integer	
IODecodeRange1	integer	
IOAddress2	integer	
IODecodeRange2	integer	
MemoryAddress1	string	
MemoryDecodeRange1	integer	
MemoryAddress2	string	
MemoryDecodeRange2	string	
InterruptIsUsed1	string	
InterruptLine1	string	
InterruptIsUsed2	string	
InterruptLine2	string	
DMAIsUsed1	string	
DMALine1		string
DMAIsUsed2	string	
DMALine2		string
MicroChannelFlagBits	string	
Reserved3	string	
TextDescription	string	

DriverStatisticsStruct

DriverVersion	string
StatisticsVersion	string
TotalTxPacketCount	long
TotalRxPacketCount	long
NoECBAvailableCount	integer
PacketTxTooBigCount	integer
PacketTxTooSmallCount	integer
PacketRxOverflowCount	integer
PacketRxTooBigCount	integer
PacketRxTooSmallCount	integer
PacketTxMiscErrorCount	integer
PacketRxMiscErrorCount	integer
RetryTxCount	integer
ChecksumErrorCount	integer
HardwareRxMismatchCount	integer
NumberOfCustomVariables	integer
VariableData	string

BridgeDriverStatusStruct

BoardStatus string

ComponentList

Components string

OSVersionStruct

MachineID string
VersionData string

PrimaryServerStruct

Number string

ServerAddressTableStruct

ServerUsed	string
OrderNumber	string
ServerNetwork	long
ServerNode	<u>NodeAddress</u>
ServerSocket	integer
ReceivedTimeout	integer
ImmediateNode	<u>NodeAddress</u>
SequenceNumber	string
ConnectionNumber	long
ConnectionOK	string
MaximumTimeout	integer
Reserved	string

ServerNameTableStruct

NameTable0	string
NameTable1	string
NameTable2	string
NameTable3	string
NameTable4	string
NameTable5	string
NameTable6	string
NameTable7	string

ShellStatisticsStruct

ShellRequestsCount	long	
OperatorAbortsCount	integer	
TimeoutsCount	integer	
WriteErrorCount	integer	
InvalidReplyHeaderCount	integer	
InvalidSlotCount	integer	
InvalidSequenceNumberCount	integer	
ErrorReceivingCount	integer	
NoRouterFoundCount	integer	
BeingProcessedCount	integer	
UnknownErrorCount	integer	
InvalidServerSlotCount	integer	
NetworkGoneCount		integer
Reserved	integer	
AllocateCannotFindRouteCount	integer	
AllocateNoSlotsAvailableCount	integer	
AllocateServerIsDownCount	integer	

ShellVersionStruct

Minor	string
Major	string
Rev	string

AllKnownNetworksStruct

NumberOfNetworkAddresses integer

NetworkAddresses[128] long //up to 128 4-byte addresses

ServerInfoStruct

ServerType	integer
ServerName	string

AllKnownServersStruct

NumberOfServers	integer
ServerInfo[50]	<u>ServerInfoStruct</u>

BridgeStatisticsStruct

TooManyHopsCount	integer
UnknownNetworkCount	integer
NoSpaceForServiceCount	integer
NoReceiveBuffersCount	integer
NotMyNetwork	integer
NetBIOSPropagateCount	long
TotalPacketsServiced	long
TotalPacketsRouted	long

LOCAL_ADDRESS

Address	string
Reserved	string

LocalTablesStruct

LocalNetNumbers[16]	long //16 4-byte net numbers
LocalNodeAddresses[16]	<u>LOCAL_ADDRESS</u>

RoutingInfoStruct

RouterForwardingAddress	long
RouterBoardNumber	string
Reserved	string
RouteHops	string
RouteTime	string

SpecificNetworkInfoStruct

NetworkAddress	long
HopsToNet	string
Reserved	string
RouteTimeToNet	integer
NumberOfKnownRouters	integer
RoutingInfo[47]	<u>RoutingInfoStruct</u> //up to 47 structures

RouteSourceInfoStruct

RouteSourceAddress	<u>NodeAddress</u>
RouteHopsToSource	integer
Reserved	string

SpecificServerInfoStruct

ServerInfo	<u>ServerInfoStruct</u>
ServerAddress	<u>BeginDiagnosticStruct</u>
HopsToServer	integer
Reserved	integer
NumberOfRoutes	integer
RouteSourceInfo[47]	<u>RouteSourceInfoStruct</u>

ReturnReceivedPacketCount

Function Integer ReturnReceivedPacketCount (int ConnectionID, int ComponentNumber, ref AllResponseData Response , ref ReturnReceivedPacketStruct ResponseData) Library "NWIPXSPX.DLL"

GetPrimaryServerNumber

Function Integer GetPrimaryServerNumber (int ConnectionID, int ComponentNumber, ref AllResponseData Response, ref PrimaryServerStruct ResponseData) Library "NWIPXSPX.DLL"

GetShellVersionInfo

Function Integer GetShellVersionInfo (int ConnectionID, int ComponentNumber, ref AllResponseData Response,
ref ShellVersionStruct ResponseData) Library "NWIPXSPX.DLL"

GetAllKnownServers

Function Integer GetAllKnownServers (int ConnectionID, int ComponentNumber, int NumberServersToSkip, ref AllResponseData Response, ref AllKnownServersStruct ResponseData) Library "NWIPXSPX.DLL"

GetSpecificServerInfo

Function Integer GetSpecificServerInfo (int ConnectionID, int ComponentNumber, ref ServerInfoStruct Server, ref AllResponseData Response, ref SpecificServerInfoStruct ResponseData) Library "NWIPXSPX.DLL"

AddTrusteeToDirectory

Function Integer AddTrusteeToDirectory (int DirHandle, string DirPath, long TrusteeObjectID, int TrusteeRightsMask) Library "NWNETAPI.DLL"

AllocPermanentDirectoryHandle

Function Integer AllocPermanentDirectoryHandle (int DirHandle, string DirPath, int DriveLetter, ref int NewDirHandle, ref int EffectiveRightsMask) Library "NWNETAPI.DLL"

AllocTemporaryDirectoryHandle

Function Integer AllocTemporaryDirectoryHandle (int DirHandle, string DirPath, int DriveLetter, ref int NewDirHandle, ref int EffectiveRightsMask) Library "NWNETAPI.DLL"

ClearVolRestrictions

Function Integer ClearVolRestrictions (int ServerConnID, int VolNumber, long ObjectID) Library
"NWNETAPI.DLL"

CreateDirectory

Function Integer CreateDirectory (int DirHandle, string DirPath, int MaximumRightsMask) Library
"NWNETAPI.DLL"

DeallocateDirectoryHandle

Function Integer DeallocateDirectoryHandle (int DirHandle) Library "NWNETAPI.DLL"

DeleteDirectory

Function Integer DeleteDirectory (int DirHandle, string DirPath) Library "NWNETAPI.DLL"

DeleteTrustee

Function Integer DeleteTrustee (int ServerConnID, int DirHandle, string Path, long ObjectID) Library
"NWNETAPI.DLL"

//3.x/4.x only

DeleteTrusteeFromDirectory

Function Integer DeleteTrusteeFromDirectory (int DirHandle, string DirPath, long TrusteeObjectID) Library
"NWNETAPI.DLL"

GetCurrentDirectory

Function Integer GetCurrentDirectory (int DriveNumber, string Directory) Library "NWNETAPI.DLL"

GetDirectoryHandle

Function Integer GetDirectoryHandle (int DriveNumber) Library "NWNETAPI.DLL"

GetDirectoryPath

Function Integer GetDirectoryPath (int DirHandle, string DirPath) Library "NWNETAPI.DLL"

//DirPath must be initialized to 255 bytes

GetDirEntry

Function Integer GetDirEntry (int ServerConnID, int DirHandle, ref NWDIR_ENTRY DirEntry) Library
"NWNETAPI.DLL"

//3.x/4.x only

GetDirInfo

Function Integer GetDirInfo (int ServerConnID, int DirHandle, ref NWDIR_INFO DirInfo) Library
"NWNETAPI.DLL"

//3.x/4.x only

GetDriveInformation

Function Integer GetDriveInformation (int DriveNumber, ref int ConnectionID, ref int DirHandle) Library
"NWNETAPI.DLL"

GetEffectiveDirectoryRights

Function Integer GetEffectiveDirectoryRights (int DirHandle, string DirPath, ref int EffectiveRightsMask)
Library "NWNETAPI.DLL"

GetEffectiveRights

Function Integer GetEffectiveRights (int ServerConnID, int DirHandle, string Path, ref int Rights) Library
"NWNETAPI.DLL"

//3.x/4.x only

GetObjectDiskRestrictions

Function Integer GetObjectDiskRestrictions (int ServerConnID, int VolNumber, long ObjectID, ref long VolRestrictions, ref long BlocksInUse) Library "NWNETAPI.DLL"

//3.x/4.x only

GetSearchDriveVector

Function Integer GetSearchDriveVector (ref DRIVE_VECTOR VectorBuffer) Library "NWNETAPI.DLL"

//VectorBuffer must be initialized to 17 bytes

GetVolumeInformation

Function Integer GetVolumeInformation (int ConnectionID, int VolumeNumber, int StructSize, ref VOLUME_STATS VolStats) Library "NWNETAPI.DLL"

GetVolumeInfoWithHandle

Function Integer GetVolumeInfoWithHandle (int DirHandle, string VolumeName, ref int TotalBlocks, ref int SectorsPerBlock, ref int AvailableBlocks, ref int TotalDirectorySlots, ref int AvailableDirectorySlots, ref int VolumeIsRemovable) Library "NWNETAPI.DLL"

//VolumeName must be initialized to 16 bytes

GetVolumeInfoWithNumber

Function Integer GetVolumeInfoWithNumber (int VolNumber, string VolumeName, ref int TotalBlocks, ref int SectorsPerBlock, ref int AvailableBlocks, ref int TotalDirectorySlots, ref int AvailableDirectorySlots, ref int VolumeIsRemovable) Library "NWNETAPI.DLL"

//volumeName must be initialized to 16 bytes

GetVolumeName

Function Integer GetVolumeName (int VolumeNumber, string VolumeName) Library "NWNETAPI.DLL"

//VolumeName must be initialized to 16 bytes

GetVolumeNumber

Function Integer GetVolumeNumber (string VolumeName, ref int VolumeNumber) Library "NWNETAPI.DLL"

GetVolUsage

Function Integer GetVolUsage (int ServerConnID, int VolNumber, ref NWVOL_USAGE VolUsage) Library
"NWNETAPI.DLL"

//3.x/4.x only

IsSearchDrive

Function Integer IsSearchDrive (int DriveLetter) Library "NWNETAPI.DLL"

MapDrive

Function Integer MapDrive (int ConnectionID, int BaseDriveNumber, string DirectoryPath, int SearchFlag, int SearchOrder, string DriveLetter) Library "NWNETAPI.DLL"

MapDriveUsingString

Function Integer MapDriveUsingString (string MapType, string Drive, string MapString) Library
"NWNETAPI.DLL"

MapV2TrusteeRightsToV3

Function Long MapV2TrusteeRightsToV3 (int TrusteeRightsV2) Library "NWNETAPI.DLL"

//3.x/4.x only

MapV3TrusteeRightsToV2

Function Integer MapV3TrusteeRightsToV2 (long TrusteeRightsV3) Library "NWNETAPI.DLL"

//3.x/4.x only

ModifyMaximumRightsMask

Function Integer ModifyMaximumRightsMask (int DirectoryHandle, string DirectoryPath, int RevokeRightsMask, int GrantRightsMask) Library "NWNETAPI.DLL"

MoveEntry

Function Integer MoveEntry (int ServerConnID, int SourceAttributes, int SourceDirHandle, string SourcePath, int DestDirHandle, string DestPath) Library "NWNETAPI.DLL"

//3.x/4.x only

RenameDirectory

Function Integer RenameDirectory (int DirectoryHandle, string DirectoryPath, string NewDirectoryName)
Library "NWNETAPI.DLL"

RestoreDirectoryHandle

Function Integer RestoreDirectoryHandle (string saveBuffer, ref int NewDirectoryHandle, ref int EffectiveRightsMask) Library "NWNETAPI.DLL"

//2.x only

//saveBuffer must be initialized to 14 characters

SaveDirectoryHandle

Function Integer SaveDirectoryHandle (int DirectoryHandle, string SaveBuffer) Library "NWNETAPI.DLL"

//2.x only

ScanDirectoryForTrustees

Function Integer ScanDirectoryForTrustees (int DirectoryHandle, string DirectoryPath, ref int SequenceNumber, string DirectoryName, ref long CreationDateAndTime, ref long OwnerID, ref long TrusteeIDs[5], ref string TrusteeRights) Library "NWNETAPI.DLL"

//2.x only

//directoryName must be initialized to 16 bytes

//trusteeIDs is an array of 5 Longs

//trusteeRights must be initialized to 5 bytes

ScanDirectoryInformation

Function Integer ScanDirectoryInformation (int DirectoryHandle, string SearchDirectoryPath, ref int SequenceNumber, string DirectoryName, ref long CreationDateAndTime, ref long OwnerObjectID, ref int MaximumRightsMask) Library "NWNETAPI.DLL"

//DirectoryName must be initialized to 16 bytes

ScanDirEntry

Function Integer ScanDirEntry (int ServerConnID, int DirHandle, string SearchPath, int SearchAttributes, ref int Sequence, ref NWDIR_ENTRY DirEntry) Library "NWNETAPI.DLL"

ScanDirRestrictions

Function Integer ScanDirRestrictions (int ServerConnID, int DirHandle, string Buffer, int NumberOfStructures)
Library "NWNETAPI.DLL"

//3.x/4.x only

//buffer must be initialized to ((numberOfStructures * 9) + 1) bytes

ScanEntryForTrustees

For NetWare 2.x:

Function Integer ScanEntryForTrustees (int ServerConnID, int DirectoryHandle, string DirectoryPath, ref TRUSTEE_BUFFER_2X TrusteeBuffer, int TrusteeSetNumber, int TrusteeGroupsToReturn) Library "NWNETAPI.DLL"

For NetWare 3.x and 4.x:

Function Integer ScanEntryForTrustees (int ServerConnID, int DirectoryHandle, string DirectoryPath, ref TRUSTEE_BUFFER_3X TrusteeBuffer, int TrusteeSetNumber, int TrusteeGroupsToReturn) Library "NWNETAPI.DLL"

ScanVolForRestrictions

Function Integer ScanVolForRestrictions (int ServerConnID, int VolumeNumber, ref int Sequence, ref NWBUFFER Buffer) Library "NWNETAPI.DLL"

//3.x/4.x only

SetDirectoryHandle

Function Integer SetDirectoryHandle (int SourceDirectoryHandle, string SourceDirectoryPath, int TargetDirectoryHandle) Library "NWNETAPI.DLL"

SetDirectoryInformation

Function Integer SetDirectoryInformation (int DirectoryHandle, string DirectoryPath, long NewCreationDateAndTime, long NewOwnerObjectID, int NewRightsMask) Library "NWNETAPI.DLL"

SetDirRestriction

Function Integer SetDirRestriction (int ServerConnID, int DirHandle, long Restriction) Library
"NWNETAPI.DLL"

//3.x/4.x only

SetDrivePath

Function Integer SetDrivePath (int DriveNumber, int
BaseDriveNumber, string Path, int PermanentFlag) Library "NWNETAPI.DLL"

SetEntry

Function Integer SetEntry (int ServerConnID, int DirHandle, int SearchAttributes, long EntryID, long ChangeBits,
ref NWDIR_ENTRY DirEntry) Library "NWNETAPI.DLL"

Or

Function Integer SetEntry (int ServerConnID, int DirHandle, int SearchAttributes, long EntryID, long ChangeBits,
ref NWFILE_ENTRY FileEntry) Library "NWNETAPI.DLL"

//3.x/4.x only

SetSearchDriveVector

Function Integer SetSearchDriveVector (string VectorBuffer) Library "NWNETAPI.DLL"

SetTrustee

Function Integer SetTrustee (int ServerConnID, int DirHandle, string DirPath, long TrusteeObjectID, long TrusteeRightsMask) Library "NWNETAPI.DLL"

//3.x/4.x only

SetVolRestriction

Function Integer SetVolRestriction (int ServerConnID, int VolNumber, long ObjectID, long Restriction) Library
"NWNETAPI.DLL"

//3.x/4.x only

Directory Services Global Constants

```
//Modify flags for SetEntry
int M_MODIFY_NAME           = 1
int M_FILE_ATTRIBUTES       = 2
int M_CREATE_DATE           = 4
int M_CREATE_TIME           = 8
int M_OWNER_ID              = 16
int M_LAST_ARCHIVED_DATE    = 32
int M_LAST_ARCHIVED_TIME    = 64
int M_LAST_ARCHIVED_ID      = 128
int M_LAST_UPDATED_DATE     = 256
int M_LAST_UPDATED_TIME     = 512
int M_LAST_UPDATED_ID       = 1024
int M_LAST_ACCESSED_DATE     = 2048
int M_INHERITED_RIGHTS_MASK = 4096
int M_MAXIMUM_SPACE         = 8192
int M_MAC_MODIFY_NAME       = 1
int M_MAC_FINDER_INFO       = 2
int M_MAC_PRODOS_INFO       = 4

int NWMAX_VOL_NAME          = 48
int NCP_MAX_BUFFER          = 512

//Drive constants
int NO_BASE_DRIVE           = 255
int TEMPORARY_DRIVE          = 0
int PERMANENT_DRIVE          = 1
int TEMP_DRIVE               = 26
int TEMP_DRIVE1              = 27
int TEMP_DRIVE2              = 28
int TEMP_DRIVE3              = 29

//Search drive flags
int DRIVE_ADD                 = 1
int DRIVE_INSERT              = 2
int DRIVE_DELETE              = 3
int MAX_NETWORK_SEARCH_DRIVES = 16

//Drive flags
int DRIVE_LOCAL                = 128
int DRIVE_PERMANENT            = 1
int DRIVE_TEMPORARY            = 2
int DRIVE_NETWORK              = 3

//Trustee rights for v2.x
int TA_NONE                    = 0
int TA_READ                    = 1
int TA_WRITE                   = 2
int TA_OPEN                    = 4
int TA_CREATE                  = 8
int TA_DELETE                  = 16
int TA_OWNERSHIP                = 32
int TA_SEARCH                  = 64
int TA_MODIFY                  = 128
```

```
int TA_ALL = 255
```

```
//Trustee rights for v3.x/4.x
```

```
int TR_NONE = 0
```

```
int TR_READ = 1
```

```
int TR_WRITE = 2
```

```
int TR_CREATE = 8
```

```
int TR_ERASE = 16
```

```
int TR_ACCESS = 32
```

```
int TR_FILE = 64
```

```
int TR_MODIFY = 128
```

```
int TR_SUPERVISOR = 256
```

```
int TR_NORMAL = 255
```

```
int TR_ALL = 511
```

```
//Set numTrusteeEntries to the number of trustees that the
```

```
// ScanEntryForTrustees function is to return data for.
```

```
// Used in the TRUSTEE_BUFFER_3X type below
```

```
int NumTrusteeEntries = 4
```

Directory Services Structures

NWDIR_ENTRY

NWFILE_ENTRY

NWDIR_INFO

DRIVE_VECTOR

VOLUME_STATS

NWVOL_USAGE

NWBUFFER

TRUSTEE_BUFFER_2X

TRUSTEE_BUFFER_3X

NWDIR_ENTRY

Sequence		long
Reserved1	long	
Attributes		long
Reserved2	integer	
NSType	string	
NameLength	string	
Name	string	
CreationDate	integer	
CreationTime	integer	
OwnerID		long
LastArchivedDate	integer	
LastArchivedTime	integer	
LastArchiverID	long	
ModifyDate	integer	
ModifyTime	integer	
Reserved3	string	
InheritedRightsMask		integer
Reserved4	string	

NWFILE_ENTRY

Sequence		long
Reserved1	long	
Attributes		long
Reserved2	integer	
NSType	string	
NameLength	string	
Name	string	
CreationDate	integer	
CreationTime	integer	
OwnerID		long
LastArchivedDate	integer	
LastArchivedTime	integer	
LastArchiverID	long	
ModifyDate	integer	
ModifyTime	integer	
LastModifierID	long	
DataForkSize	long	
Reserved3	string	
InheritedRightsMask		integer
LastAccessDate	integer	
Reserved4	string	

NWDIR_INFO

TotalBlocks	long
FreeBlocks	long
TotalDirEntries	long
AvailDirEntries	long
Flags	long //currently unused
SectorsPerBlock	string
VolumeName	string

DRIVE_VECTOR

Vector string

VOLUME_STATS

SystemElapsedTime	long	
VolumeNumber	string	
LogicalDriveNumber		string
SectorsPerBlock	integer	
StartingBlock	integer	
TotalBlocks	integer	
AvailableBlocks	integer	
TotalDirectorySlots	integer	
AvailableDirectorySlots	integer	
MaxDirectorySlotsUsed	integer	
IsHashing		string
IsCaching		string
IsRemovable	string	
IsMounted		string
VolumeName	string	

NWVOL_USAGE

TotalBlocks	long	
FreeBlocks	long	
PurgableBlocks	long	
NotYetPurgableBlocks	long	
TotalDirEntries	long	
AvailDirEntries	long	
MaxDirEntriesUsed		long
Unused	string	
BlockSize		integer
IsHashing		string
IsRemovable	string	
VolName		string

NWBUFFER

Buffer string

TRUSTEE_BUFFER_2X

DirName		string
Created	string	
OwnerID		long
OID[5]	long	
Rights[5]		string

TRUSTEE_BUFFER_3X

NumEntriesReturned		string
OID[numTrusteeEntries]	long	
Rights[numTrusteeEntries]	integer	

EraseFiles

Function Integer EraseFiles (int DirHandle, string FilePath, int SearchAttributes) Library "NWNETAPI.DLL"

FileServerFileCopy

Function Integer FileServerFileCopy (int SourceFileHandle, int DestFileHandle, long SourceFileOffset, long DestFileOffset, long BytesToCopy, ref long BytesCopied) Library "NWNETAPI.DLL"

GetExtendedFileAttributes

Function Integer GetExtendedFileAttributes (string FilePath,
ref int ExtendedFileAttrib) Library "NWNETAPI.DLL"

PurgeAllErasedFiles

Function Integer PurgeAllErasedFiles () Library "NWNETAPI.DLL"

//2.x only

PurgeErasedFiles

Function Integer PurgeErasedFiles () Library "NWNETAPI.DLL"

//2.x only

PurgeSalvageableFile

Function Integer PurgeSalvageableFile (int ServerConnID, int DirHandle, ref long EntryID, string FileName)
Library "NWNETAPI.DLL"

//3.x/4.x only

RecoverSalvageableFile

Function Integer RecoverSalvageableFile (int ServerConnID, int DirHandle, long EntryID, string FileName, string NewName) Library "NWNETAPI.DLL"

//3.x/4.x only

RestoreErasedFile

Function Integer RestoreErasedFile (int DirHandle, string VolName, string ErasedFileName, string RestoredFileName) Library "NWNETAPI.DLL"

//2.x only

//erasedFileName and restoredFileName must be initialized to 13 characters

ScanFileEntry

Function Integer ScanFileEntry (int ServerConnID, int DirHandle, string SearchPath, int SearchAttrib, ref long Sequence, ref NWFILE_ENTRY FileEntry) Library "NWNETAPI.DLL"

//3.x/4.x only

ScanFileInformation

Function Integer ScanFileInformation (int DirHndl, string Path, int SrchAttrib, ref int Seq, string FileName, ref int Attrib, ref int ExtAttrib, ref long Size, ref int Creat, ref int LastAcc, ref long Updated, ref long Archived, ref long Owner) Library "NWNETAPI.DLL"

//FileName must be initialized to 15 bytes

ScanFilePhysical

Function Integer ScanFilePhysical (int ServerConnID, int DirHandle, string SearchPath, int SearchAttrib, ref long Sequence, ref NWPHYS_ENTRY FileEntry) Library "NWNETAPI.DLL"

//3.x/4.x only

ScanSalvagableFiles

Function Integer ScanSalvagableFiles (int ServerConnID, int DirHandle, ref long EntryID, ref NWSALV_ENTRY SalvEntry) Library "NWNETAPI.DLL"

//3.x/4.x only

SetExtendedFileAttributes

Function Integer SetExtendedFileAttributes (string FilePath, int ExtFileAttrib) Library "NWNETAPI.DLL"

SetFileInformation

Function Integer SetFileInformation (int DirHndl, string Path, int SearchAttrib, int Attrib, int ExtAttrib, int Created, int LastAcc, long Updated, long Archived, long Owner) Library "NWNETAPI.DLL"

File Services Global Constants

//File attributes

int FA_NORMAL	= 0	
int FA_READ_ONLY		= 1
int FA_HIDDEN	= 2	
int FA_SYSTEM	= 4	
int FA_EXECUTE_ONLY	= 8	
int FA_DIRECTORY		= 16
int FA_ARCHIVE	= 32	
int FA_SHARABLE		= 128

//Extended file attributes

int FA_TRANSACTIONAL	= 16	
int FA_INDEXED	= 32	
int FA_READ_AUDIT		= 64
int FA_WRITE_AUDIT	= 128	

File Services Structures

NWFILE_ENTRY

FORK_SIZE

NWPHYS_ENTRY

NWSALV_ENTRY

FORK_SIZE

logical	long
physical	long

NWPHYS_ENTRY

Sequence		long
Reserved1	long	
Attributes		long
Reserved2	integer	
NSType	string	
NameLength	string	
Name	string	
CreationDate	integer	
CreationTime	integer	
OwnerID		long
LastArchivedDate	integer	
LastArchivedTime	integer	
LastArchiverID	long	
ModifyDate	integer	
ModifyTime	integer	
LastModifierID	long	
DataForkSize	long	
Reserved3	string	
InheritedRightsMask		integer
LastAccessDate	integer	
Reserved4	string	
ForkSize1		<u>FORK_SIZE</u>
ForkSize2		<u>FORK_SIZE</u>
ForkSize3		<u>FORK_SIZE</u>
ForkSize4		<u>FORK_SIZE</u>
ForkSize5		<u>FORK_SIZE</u>

NWSALV_ENTRY

EntryID	long	
Attributes		long
NamespaceType	string	
NameLength	string	
Name	string	
LastArchiveDateAndTime	long	
LastArchiverID	long	
ModifyDateAndTime		long
LastModifierID	long	
DataForkSize	long	
LastAccessedDate	integer	
DeletedFileTime	long	
DeletedDateAndTime	long	
DeletorID		long

CheckConsolePrivileges

Function Integer CheckConsolePrivileges () Library "NWNETAPI.DLL"

CheckNetWareVersion

Function Integer CheckNetWareVersion (int MinVersion, int MinSubVersion, int MinRevision, int MinSFT, int MinTTS) Library "NWNETAPI.DLL"

ClearConnectionNumber

Function Integer ClearConnectionNumber (long ConnNumber) Library "NWNETAPI.DLL"

//documentation says 2.x only, but it works in 3.x

DisableFileServerLogin

Function Integer DisableFileServerLogin () Library "NWNETAPI.DLL"

DisableTransactionTracking

Function Integer DisableTransactionTracking () Library "NWNETAPI.DLL"

DownFileServer

Function Integer DownFileServer (int ForceFlag) Library "NWNETAPI.DLL"

EnableFileServerLogin

Function Integer EnableFileServerLogin () Library "NWNETAPI.DLL"

EnableTransactionTracking

Function Integer EnableTransactionTracking () Library "NWNETAPI.DLL"

GetConnectionsOpenFiles

Function Integer GetConnectionsOpenFiles (int ConnID, long ConnNum, ref int LastRecord, ref int LastTask, int StructSize, ref CON_OPEN_FILES OpenFiles) Library "NWNETAPI.DLL"

//2.x only

GetConnectionsSemaphores

Function Integer GetConnectionsSemaphores (int ConnID, long ConnNum, ref int LastRecord, ref int LastTask, int StructSize, ref CONN_SEMAPHORE ConnSemaphores) Library "NWNETAPI.DLL"

//2.x only

GetConnectionsTaskInformation

Function Integer GetConnectionsTaskInformation (int ConnID, long ConnNum, ref int TaskPointer, int StructSize, ref CONN_TASK_INFO ConnTaskInfo) Library "NWNETAPI.DLL"

//2.x only

GetConnectionsUsageStats

Function Integer GetConnectionsUsageStats (int ConnID, long ConnNum, int StructSize, ref CONN_USAGE ConnUsage) Library "NWNETAPI.DLL"

//2.x only

GetConnectionsUsingFile

Function Integer GetConnectionsUsingFile (int ConnID, ref int LastRecord, ref int TaskID, int DirHandle, string FilePath, int StructSize, ref CONN_USING_FILE FileUse) Library "NWNETAPI.DLL"

//2.x only

GetDiskCacheStats

Function Integer GetDiskCacheStats (int ConnID, int StructSize, ref DISK_CACHE_STATS CacheStats) Library
"NWNETAPI.DLL"

//2.x only

GetDiskChannelStats

Function Integer GetDiskChannelStats (int ConnID, int ChannelNumber, int StructSize, ref DISK_CHANNEL_STATS ChannelStats) Library "NWNETAPI.DLL"

//2.x only

GetDiskUtilization

Function Integer GetDiskUtilization (long ObjectID, int VolNumber, ref int UsedDirectories, ref int UsedFiles, ref int UsedBlocks) Library "NWNETAPI.DLL"

GetDriveMappingTable

Function Integer GetDriveMappingTable (int ConnID, int StructSize, ref DRIVE_MAP_TABLE
DriveMappingTable) Library "NWNETAPI.DLL"

//2.x only

GetFileServerDateAndTime

Subroutine GetFileServerDateAndTime (ref DATE_AND_TIME DateAndTime) Library "NWNETAPI.DLL"

GetFileServerDescriptionStrings

Function Integer GetFileServerDescriptionStrings (string CompanyName, string Revision, string RevisionDate, string CopyrightNotice) Library "NWNETAPI.DLL"

//CompanyName, Revision, and CopyrightNotice must be initialized to 80 bytes

//RevisionDate must be initialized to 24 bytes

GetFileServerLANIOStats

Declare Function GetFileServerLANIOStats (int ConnID, int StructSize, ref SERVER_LAN_IO
ServerLANIOStats) Library "NWNETAPI.DLL"

//2.x only

GetFileServerLoginStatus

Function Integer GetFileServerLoginStatus (ref int LoginEnabledFlag) Library "NWNETAPI.DLL"

GetFileServerMiscInformation

Function Integer GetFileServerMiscInformation (int ConnID, int StructSize, ref SERVER_MISC_INFO MiscInfo) Library "NWNETAPI.DLL"

//2.x only

GetFileName

Subroutine GetFileName (int ConnID, string FileName) Library "NWNETAPI.DLL"

GetFileSystemStats

Function Integer GetFileSystemStats (int ConnID, int StructSize, ref FILE_SYS_STATS FileSysStats) Library
"NWNETAPI.DLL"

//2.x only

GetLANDriverConfigInfo

Function Integer GetLANDriverConfigInfo (int ConnID, int LANBoardNumber, int StructSize, ref LAN_CONFIG LANConfig) Library "NWNETAPI.DLL"

//2.x only

GetLogicalRecordInformation

Function Integer GetLogicalRecordInformation (int ConnID, string LogicalRecordName, ref int LastRecord, ref int LastTask, int StructSize, ref LOGICAL_REC_INFO LogicalRecordInfo) Library "NWNETAPI.DLL"

//2.x only

GetLogicalRecordByConnection

Function Integer GetLogicalRecordByConnection (int ConnID, long ConnNum, ref int LastRecord, ref int LastTask, int StructSize, ref LOGICAL_RECORD LogicalRecord) Library "NWNETAPI.DLL"

//2.x only

GetPathFromDirectoryEntry

Function Integer GetPathFromDirectoryEntry (int ConnID, int VolumeNumber, int DirectoryEntry, string Path)
Library "NWNETAPI.DLL"

//2.x only

//Path must be initialized to 255 bytes

GetPhysicalDiskStats

Function Integer GetPhysicalDiskStats (int connID, int
PhysDiskNumber, int StructSize, ref PHYS_DISK_STATS PhysDiskStats , string
DriveDefinition) Library "NWNETAPI.DLL"

//2.x only

//DriveDefinition must be initialized to ?? bytes

GetPhysicalRecordLocksByFile

Function Integer GetPhysicalRecordLocksByFile (int ConnID, int DirHandle, string FilePath, ref int LastRecord, ref int LastTask, int StructSize, ref PHYS_REC_LOCK RecordLock) Library "NWNETAPI.DLL"

//2.x only

GetPhysRecLockByConnectAndFile

Function Integer GetPhysRecLockByConnectAndFile (int ConnID, long ConnNum, int VolNum, int DirHandle, string FilePath, ref int LastRecord, ref int LastTask, int StructSize, ref SHORT_PHYS_REC_LOCK RecLock)
Library "NWNETAPI.DLL"

//2.x only

GetSemaphoreInformation

Function Integer GetSemaphoreInformation (int ConnID, string SemaphoreName, ref int LastRecord, ref int LastTask, ref long OpenCount, ref int SemaphoreValue, ref long ConnNum, ref int TaskNumber) Library "NWNETAPI.DLL"

//2.x only

GetServerInformation

Function Integer GetServerInformation (int StructSize, ref FILE_SERV_INFO ServerInfo) Library
"NWNETAPI.DLL"

//documentation says 2.x only, but it works in 3.x

SendConsoleBroadcast

Function Integer SendConsoleBroadcast (string Message, int ConnCount, ref long ConnList) Library
"NWNETAPI.DLL"

SetFileServerDateAndTime

Function Integer SetFileServerDateAndTime (int TheYear, int TheMonth, int TheDay, int TheHour, int TheMin, int TheSec) Library "NWNETAPI.DLL"

File Server Environmental Services Structures

CON_OPEN_FILES

CONN_SEMAPHORE

CONN_TASK_INFO

CONN_USAGE

CONN_USING_FILE

DISK_CACHE_STATS

DISK_CHANNEL_STATS

DRIVE_MAP_TABLE

SERVER_LAN_IO

SERVER_MISC_INFO

FILE_SYS_STATS

LAN_CONFIG

LOGICAL_REC_INFO

LOGICAL_RECORD

PHYS_DISK_STATS

PHYS_REC_LOCK

SHORT_PHYS_REC_LOCK

FILE_SERV_INFO

CON_OPEN_FILES

TaskNumber	string	
LockStatus	string	
AccessFlag	string	
LockType		string
VolumeNumber	string	
Reserved		string
DirectoryEntry	integer	
FileName		string

CONN_SEMAPHORE

OpenCount	long
SemaphoreValue	string
TaskNumber	string
SemaphoreName	string

CONN_TASK_INFO

LockStatus	string	
WaitingTaskNumber		string
BeginAddress	long	
EndAddress	long	
VolumeNumber	string	
NumberOfTasks	string	
DirectoryEntry	integer	
LockedName	string	
TaskNumber	string	
TaskState		string

CONN_USAGE

SystemElapsedTime	long
BytesRead	string
BytesWritten	string
TotalRequestPackets	long

CONN_USING_FILE

UseCount		integer
OpenCount	integer	
OpenForReadCount		long
OpenForWriteCount		long
DenyReadCount	long	
DenyWriteCount	long	
Reserved1	integer	
Locked	string	
Reserved2	string	
LogicalConnNumber		long
TaskNumber	string	
LockType		string
AccessFlags	string	
LockStatus	string	

DISK_CACHE_STATS

SystemElapsedTime	long	
CacheBufferCount	integer	
CacheBufferSize	integer	
DirtyCacheBuffers	integer	
CacheReadRequests	long	
CacheWriteRequests	long	
CacheHits		long
CacheMisses	long	
PhysicalReadRequests	long	
PhysicalWriteRequests	long	
PhysicalReadErrors	integer	
PhysicalWriteErrors		integer
CacheGetRequests	long	
CacheFullWriteRequests	long	
CachePartialWriteRequests	long	
BackgroundDirtyWrites	long	
BackgroundAgedWrites	long	
TotalCacheWrites	long	
CacheAllocations	long	
ThrashingCount	integer	
LRUBlockWasDirtyCount	integer	
ReadBeyondWriteCount	integer	
FragmentedWriteCount	integer	
CacheHitOnUnavailCount	integer	
CacheBlockScrappedCount	integer	

DISK_CHANNEL_STATS

SystemElapsedTime	long	
ChannelState	integer	
ChannelSyncState	integer	
DriverType	string	
DriverMajorVersion		string
DriverMinorVersion		string
DriverDescription	string	
IOAddr1	integer	
IOAddr1Size	integer	
IOAddr2	integer	
IOAddr2Size	integer	
SharedMem1Seg	string	
SharedMem1Off	integer	
SharedMem2Seg	string	
SharedMem2Off	integer	
Interrupt1Used	string	
Interrupt1		string
Interrupt2Used	string	
Interrupt2		string
DMACHannel1Used		string
DMACHannel1	string	
DMACHannel2Used		string
DMACHannel2	string	
Reserved2	integer	
ConfigDescription	string	

DRIVE_MAP_TABLE

SystemElapsedTime	long	
SFTLevel		string
LogicalDriveCount	string	
PhysicalDriveCount		string
DiskChannelTable	string	
PendingIOCommands	integer	
MappingTable	string	
DriveMirrorTable	string	
DeadMirrorTable	string	
RemirroredDrive	string	
Reserved		string
RemirroredBlock	long	
SFTErrorTable	string	

SERVER_LAN_IO

SystemElapsedTime	long	
MaxRoutingBuffersAvail	integer	
MaxRoutingBuffersUsed	integer	
RoutingBuffersInUse		integer
TotalFileServicePackets	long	
FileServicePacketsBuffered	integer	
InvalidConnPacketCount	long	
BadLogicalConnCount	long	
PacketsRcvdDuringProcCount	integer	
ReprocessedRequestCount	integer	
BadSequenceNumberPacketCount	integer	
DuplicateReplyCount	integer	
AcknowledgementsSent	integer	
BadRequestTypeCount	integer	
AttachDuringProcCount	integer	
AttachWhileAttachingCount	integer	
ForgedDetachRequestCount	integer	
BadConnNumberOnDetachCount	long	
DetachDuringProcCount	integer	
RepliesCanceledCount	integer	
HopCountDiscardCount	integer	
UnknownNetDiscardCount	integer	
NoDGroupBufferDiscardCount		integer
OutPacketNoBufferDiscardCount	integer	
IPXNotMyNetworkCount	integer	
NetBIOSPropagationCount	long	
TotalOtherPackets	long	
TotalRoutedPackets	long	

SERVER_MISC_INFO

SystemElapsedTime	long	
ProcessorType	string	
Reserved		string
ServiceProcessCount	string	
ServerUtilizationPercent	string	
MaxBinderyObjectsAvail	integer	
MaxBinderyObjectsUsed	integer	
BinderyObjectsInUse	integer	
ServerMemoryInK	integer	
DynamicAreaCount		integer
DynamicSpace1	long	
MaxUsedDynamicSpace1	long	
DynamicSpaceInUse1	long	
DynamicSpace2	long	
MaxUsedDynamicSpace2	long	
DynamicSpaceInUse2	long	
DynamicSpace3	long	
MaxUsedDynamicSpace3	long	
DynamicSpaceInUse3	long	

FILE_SYS_STATS

SystemElapsedTime	long	
MaxOpenFiles	integer	
MaxFilesOpen	integer	
CurrOpenFiles	integer	
TotalFilesOpened	long	
TotalReadRequests	long	
TotalWriteRequests	long	
CurrChangedFATSectors	integer	
TotalChangedFATSectors	long	
FATWriteErrors	integer	
FatalFATWriteErrors		integer
FATScanErrors	integer	
MaxIndexFilesOpened	integer	
CurrOpenIndexedFiles	integer	
AttachedIndexFiles	integer	
AvailableindexFiles	integer	

LAN_CONFIG

NetworkAddress	long	
HostAddress1	long	
HostAddress2	integer	
LANDriverInstalled		string
OptionNumber	string	
ConfigurationText1	string	
ConfiguratinoText2	string	

LOGICAL_REC_INFO

CurrentUseCount	integer
ShareableLockCount	integer
Reserved1	integer
Locked	string
Reserved2	string
LogicalConnectionNumber	long
TaskNumber	string
LockStatus	string

LOGICAL_RECORD

TaskNumber	string
LockStatus	string
LogicalLockName	string

PHYS_DISK_STATS

SystemElapsedTime	long	
DiskChannel	string	
DiskRemovable	string	
DriveType	string	
ControllerDriverNumber	string	
ControllerNumber	string	
ControllerType	string	
DriveSize		long
DriveCylinders	integer	
DriveHeads	string	
SectorsPerTrack	string	
IOErrorCount	integer	
HotFixStart	long	
HotFixSize	integer	
HotFixSizeAvailable		integer
HotFixDisabled	string	

PHYS_REC_LOCK

PhysicalRecordLockCount	string	
Reserved		string
LoggedCount	integer	
ShareLockCount	integer	
RecordStart	long	
RecordEnd	long	
ConnectionNumber	long	
TaskNumber	string	
LockType		string

SHORT_PHYS_REC_LOCK

TaskNumber	string	
LockFlag		string
RecordStart	long	
RecordEnd	long	

FILE_SERV_INFO

ServerName	string	
NetwareVersion	string	
NetwareSubVersion	string	
MaxConnectionsSupported	long	
ConnectionsInUse	long	
MaxVolumesSupported	integer	
RevisionLevel	string	
SFTLevel		string
TTSLevel		string
PeakConnectionsUsed	long	
AccountingVersion	string	
VAPversion	string	
QueueingVersion	string	
PrintServerVersion	string	
VirtualConsoleVersion	string	
SecurityRestrictionLevel	string	
InternetBridgeSupport	string	

BroadcastToConsole

Function Integer BroadcastToConsole (string Message) Library "NWNETAPI.DLL"

CheckPipeStatus

Function Integer CheckPipeStatus (ref long ConnectionList, ref int ResultList, ref long ConnectionCount) Library
"NWNETAPI.DLL"

//2.x only

CloseMessagePipe

Function Integer CloseMessagePipe (ref long ConnectionList, ref int ResultList, ref long ConnectionCount)
Library "NWNETAPI.DLL"

//2.x only

DisableBroadcasts

Function Integer DisableBroadcasts () Library "NWNETAPI.DLL"

EnableBroadcasts

Function Integer EnableBroadcasts () Library "NWNETAPI.DLL"

GetBroadcastMessage

Function Integer GetBroadcastMessage (string MessageBuffer) Library "NWNETAPI.DLL"

//MessageBuffer must be initialized to 56 bytes

GetBroadcastMode

Function Integer GetBroadcastMode () Library "NWNETAPI.DLL"

GetPersonalMessage

Function Integer GetPersonalMessage (string MessageBuffer,
ref long SourceConnection) Library "NWNETAPI.DLL"

//2.x only

//MessageBuffer must be initialized to 127 bytes

LogNetMessage

Function Integer LogNetMessage (string Message) Library "NWNETAPI.DLL"

//2.x only

OpenMessagePipe

Function Integer OpenMessagePipe (ref long ConnectionList, ref int ResultList, long ConnectionCount) Library
"NWNETAPI.DLL"

//2.x only

SendBroadcastMessage

Function Integer SendBroadcastMessage (string Message, ref long ConnectionList, ref int ResultList, long ConnectionCount) Library "NWNETAPI.DLL"

SendPersonalMessage

Function Integer SendPersonalMessage (string Message, ref long ConnectionList, ref int ResultList, int ConnectionCount) Library "NWNETAPI.DLL"

//2.x only

SetBroadcastMode

Function Integer SetBroadcastMode (int BroadcastMode) Library "NWNETAPI.DLL"

ASCIIZToLenStr

Function Integer ASCIIZToLenStr (string DestStr, string SrcStr) Library "NWNETAPI.DLL"

//DestStr must be initialized to the length of SrcStr (including terminating null)

ConvertNameToFullPath

Function Integer ConvertNameToFullPath (string PartialPath, string FullPath) Library "NWNETAPI.DLL"

//FullPath must be initialized to 255 bytes

ConvertNameToVolumePath

Function Integer ConvertNameToVolumePath (string FileName, string Path) Library "NWNETAPI.DLL"

//Path must be initialized to 255 bytes

GetFullPath

Function Integer GetFullPath (int Drive, string Path) Library "NWNETAPI.DLL"

//Path must be initialized to 255 bytes

GetNetworkSerialNumber

Function Integer GetNetworkSerialNumber (ref long SerialNumber, ref int ApplicationNumber) Library
"NWNETAPI.DLL"

IntSwap

Function Integer IntSwap (int UnswappedInteger) Library "NWNETAPI.DLL"

IsV3Supported

Function Integer IsV3Supported (int ServerConnID) Library "NWNETAPI.DLL"

LenToASCIIZStr

Function Integer LenToASCIIZStr (string DestStr, string SrcStr) Library "NWNETAPI.DLL"

//DestStr must be initialized to the length of SrcStr\$

LongSwap

Function Long LongSwap (long UnswappedLong) Library "NWNETAPI.DLL"

ParsePath

Function Integer ParsePath (string Path, string Server, string Volume, string Directories) Library
"NWNETAPI.DLL"

//Server must be initialized to 48 bytes

//Volume must be initialized to 16 bytes

//Directories must be initialized to 255 bytes

StripFileServerFromPath

Function Integer StripFileServerFromPath (string Path, string Server) Library "NWNETAPI.DLL"

//Server must be initialized to 48 bytes

VerifyNetworkSerialNumber

Function Integer VerifyNetworkSerialNumber (long SerialNumber, ref int ApplicationNumber) Library
"NWNETAPI.DLL"

FillNameSpaceBuffer

Function Integer FillNameSpaceBuffer (int ServerConnID, int VolumeNumber, ref NWBUFFER Buffer) Library
"NWNETAPI.DLL"

GetDataStreamInfo

Function Integer GetDataStreamInfo (ref NWBUFFER Buffer, int DataStreamType, string DataStreamName, ref int VolSupports) Library "NWNETAPI.DLL"

GetNameSpaceEntry

Function Integer GetNameSpaceEntry (int ServerConnID, int VolumeNum, ref long Sequence, int NsType, ref [Any] EntryInfo) Library "NWNETAPI.DLL"

GetNamespaceInfo

Function Integer GetNamespaceInfo (ref NWBUFFER Buffer, int NsType, string NameSpaceName, ref int OsReady, ref int VolSupports) Library "NWNETAPI.DLL"

GetNumNameSpaceAndDataStreams

Function Integer GetNumNameSpaceAndDataStreams (ref NWBUFFER Buffer, ref int NumNameSpaces, ref int NumDataStreams) Library "NWNETAPI.DLL"

Name Space Services Global Constants

```
int DOS_NAME_SPACE    = 0
int MAC_NAME_SPACE    = 1
```

CancelLPTCapture

Function Integer CancelLPTCapture () Library "NWNETAPI.DLL"

CancelSpecificLPTCapture

Function Integer CancelSpecificLPTCapture (int LptDevice) Library "NWNETAPI.DLL"

EndLPTCapture

Function Integer EndLPTCapture () Library "NWNETAPI.DLL"

EndSpecificLPTCapture

Function Integer EndSpecificLPTCapture (int LptDevice) Library "NWNETAPI.DLL"

FlushLPTCapture

Function Integer FlushLPTCapture () Library "NWNETAPI.DLL"

FlushSpecificLPTCapture

Function Integer FlushSpecificLPTCapture (int LptDevice) Library "NWNETAPI.DLL"

GetBannerUserName

Function Integer GetBannerUserName (string UserName) Library "NWNETAPI.DLL"

GetDefaultCaptureFlags

Function Integer GetDefaultCaptureFlags (ref CAPTURE_FLAGS CaptureFlags) Library "NWNETAPI.DLL"

GetDefaultLocalPrinter

Function Integer GetDefaultLocalPrinter () Library "NWNETAPI.DLL"

GetLPTCaptureStatus

Function Integer GetLPTCaptureStatus (ref int ServerNumber) Library "NWNETAPI.DLL"

GetPrinterQueue

Function Integer GetPrinterQueue (int PrinterNumber, ref long QueueID) Library "NWNETAPI.DLL"

GetPrinterStatus

Function Integer GetPrinterStatus (int PrinterNumber, ref int PrinterHalted, ref int PrinterOffLine, ref int FormType, ref int TargetPrinter) Library "NWNETAPI.DLL"

GetSpecificCaptureFlags

Function Integer GetSpecificCaptureFlags (int LocalLPTDevice, ref CAPTURE_FLAGS CaptureFlags) Library
"NWNETAPI.DLL"

SetBannerUserName

Function Integer SetBannerUserName (string UserName) Library "NWNETAPI.DLL"

SetCapturePrintJob

Function Integer SetCapturePrintJob (int LptDevice, int JobNumber, ref FILE_HANDLE JobFileHandle) Library
"NWNETAPI.DLL"

SetCapturePrintQueue

Function Integer SetCapturePrintQueue (int LptDevice, int ConnID, long QueueID) Library "NWNETAPI.DLL"

SetDefaultCaptureFlags

Function Integer SetDefaultCaptureFlags (ref SET_CAPTURE_FLAGS setCaptureFlags) Library
"NWNETAPI.DLL"*

SetDefaultLocalPrinter

Function Integer SetDefaultLocalPrinter (int LptDevice) Library "NWNETAPI.DLL"

SetSpecificCaptureFlags

Function Integer SetSpecificCaptureFlags (int LptDevice, ref SET_CAPTURE_FLAGS setCaptureFlags) Library
"NWNETAPI.DLL"

SetSpoolFlags

Function Integer SetSpoolFlags (int PrintFlags, int TabSize, int PrinterNumber, int NumberOfCopies, int FormType, int BannerName) Library "NWNETAPI.DLL"

SpecifyCaptureFile

Function Integer SpecifyCaptureFile (int DriveHandle, string FilePath) Library "NWNETAPI.DLL"

StartLPTCapture

Function Integer StartLPTCapture () Library "NWNETAPI.DLL"

StartSpecificLPTCapture

Function Integer StartSpecificLPTCapture (int LptDevice) Library "NWNETAPI.DLL"

Print Services Global Constants

```
int CAPTURE_IS_NOT_ACTIVE    = 0
int CAPTURE_IS_ACTIVE        = 255
```

Print Services Structures

CAPTURE_FLAGS

SET_CAPTURE_FLAGS

CAPTURE_FLAGS

Status	string	
Flags	string	
TabSize	string	
ServerPrinter	string	
NumberOfCopies	string	
FormType		string
Reserved1	string	
BannerText	string	
Reserved2	string	
LocalLPTDevice	string	
FlushCaptureTimeoutCount	integer	
FlushCaptureOnDeviceClose	string	
MaxLines		integer
MaxChars		integer
FormName	string	
LPTCaptureFlag	string	
FileCaptureFlag	string	
TimingOutFlag	string	
PrinterSetupBuffer	long	
PrinterResetBuffer	long	
ConnectionIDQueuePrintJob	string	
CaptureInProgress	string	
PrintQueueFlag	string	
PrintJobValid	string	
PrintQueueID	long	
PrintJobNumber	integer	

SET_CAPTURE_FLAGS

Status	string	
Flags	string	
TabSize	string	
ServerPrinter	string	
NumberOfCopies	string	
FormType		string
Reserved1	string	
BannerText	string	
Reserved2	string	
LocalLPTDevice	string	
FlushCaptureTimeoutCount	integer	
FlushCaptureOnDeviceClose	string	
MaxLines		integer
MaxChars		integer
FormName	string	
Reserved3	string	

PSAbortPrintJob

Function Integer PSAbortPrintJob (int SpxConn, int Printer, int JobOutcome) Library "NWPSERV.DLL"

PSAddNotifyObject

Function Integer PSAddNotifyObject (int SpxConn, int Printer, string FileServer, string ObjectName, int ObjectType, int FirstNotif, int NextNotif) Library "NWPSERV.DLL"

PSAddQueueToPrinter

Function Integer PSAddQueueToPrinter (int SpxConn, int Pprinter, string FileServer, string Queue, int Priority)
Library "NWPSERV.DLL"

PSAttachPrintServerToFileServer

Function Integer PSAttachPrintServerToFileServer (int SpxConn, string FileServer, string Password) Library
"NWPSERV.DLL"

PSAttachToPrintServer

Function Integer PSAttachToPrintServer (string PrintServerName, ref int ConnectionID) Library
"NWPSERV.DLL"

PSCancelDownRequest

Function Integer PSCancelDownRequest (int SpxConn) Library "NWPSERV.DLL"

PSChangeNotifyInterval

Function Integer PSChangeNotifyInterval (int SpxConn, int Printer, string FileServer, string ObjectName, int ObjectType, int FirstNotif, int NextNotif) Library "NWPSERV.DLL"

PSChangeQueuePriority

Function Integer PSChangeQueuePriority (int SpxConn, int Printer, string FileServer, string Queue, int Priority)
Library "NWPSERV.DLL"

PSChangeServiceMode

Function Integer PSChangeServiceMode (int SpxConn, int Printer, int ServiceMode) Library "NWPSERV.DLL"

PSDeleteNotifyObject

Function Integer PSDeleteNotifyObject (int SpxConn, int Printer, string FileServer, string ObjectName, int ObjectType) Library "NWPSERV.DLL"

PSDeleteQueueFromPrinter

Function Integer PSDeleteQueueFromPrinter (int SpxConn, int Printer, string FileServer, string Queue, int Immed, int JobOutcome) Library "NWPSERV.DLL"

PSDetachFromPrintServer

Function Integer PSDetachFromPrintServer (int ConnID) Library "NWPSERV.DLL"

PSDetachPrtServerFromFileServer

Function Integer PSDetachPrtServerFromFileServer (int SpxConn, string FileServer, int Immed, int JobOutcome) Library "NWPSERV.DLL"

PSDownPrintServer

Function Integer PSDownPrintServer (int SpxConn, int Immed, int JobOutcome) Library "NWPSERV.DLL"

PSEjectForm

Function Integer PSEjectForm (int SpConn, int Printer) Library "NWPSERV.DLL"

PSGetAttachedServers

Function Integer PSGetAttachedServers (int SpxConn, ref int Sequence, string FileServer) Library
"NWPSERV.DLL"

PSGetNextRemotePrinter

Function Integer PSGetNextRemotePrinter (int SpxConn, ref int Printer, ref int PrinterType, string PrinterName)
Library "NWPSERV.DLL"

PSGetNotifyObject

Function Integer PSGetNotifyObject (int SpxConn, int Printer, ref int Sequence, string FileServer, string
ObjectName, ref int ObjectType, ref int FirstNotif, ref int NextNotif) Library "NWPSERV.DLL"

PSGetPrintersServicingQueue

Function Integer PSGetPrintersServicingQueue (int SpxConn, string FileServer, string Queue, int MaxPrinter, ref int NumPrinters, ref int PrinterList) Library "NWPSERV.DLL"

//PrinterList must be initialized to MaxPrinters bytes

PSGetPrinterStatus

Function Integer PSGetPrinterStatus (int SpxConn, int Printer, ref int Status, ref int Problem, ref int HasJob, ref int ServiceMode, ref int FormNumber, string FormName, string PrinterName) Library "NWPSERV.DLL"

PSGetPrintJobStatus

Function Integer PSGetPrintJobStatus (int SpxConn, int Printer, string FileServer, string QueueName, ref int JobNumber, string JobDesc, ref int CopiesToPrint, ref long JobSize, ref int CopyiesDone, ref long BytesIntoCopy, ref int NeededForm, ref int Text) Library "NWPSERV.DLL"

PSGetPrintServerInfo

Function Integer PSGetPrintServerInfo (int SpxConn, ref PS_INFO Info, int Size) Library "NWPSERV.DLL"

PSGetQueuesServiced

Function Integer PSGetQueuesServiced (int SpxConn, int Printer, ref int Sequence, string FileServer, string Queue, ref int Priority) Library "NWPSERV.DLL"

PSLoginToPrintServer

Function Integer PSLoginToPrintServer (int SpxConn, ref int ClientAccessLevel) Library "NWPSERV.DLL"

PSMarkTopOfForm

Function Integer PSMarkTopOfForm (int SpxConn, int Printer, int Character) Library "NWPSERV.DLL"

PSRequestRemotePrinter

Function Integer PSRequestRemotePrinter (int SpxConn, ref REMOTE_INFO PrinterInfo) Library
"NWPSERV.DLL"

PSRewindPrintJob

Function Integer PSRewindPrintJob (int SpxConn, int Printer, int ByPage, int Relative, int Copy, long Offset)
Library "NWPSERV.DLL"

PSSetMountedForm

Function Integer PSSetMountedForm (int SpxConn, int Printer, int FormNumber) Library "NWPSERV.DLL"

PSSetRemoteMode

Function Integer PSSetRemoteMode (int SpxConn, int Printer, int Mode) Library "NWPSERV.DLL"

PSSstartPrinter

Function Integer PSSstartPrinter (int SpxConn, int Printer) Library "NWPSERV.DLL"

PSSStopPrinter

Function Integer PSSStopPrinter (int SpxConn, int Printer, int JobOutcome) Library "NWPSERV.DLL"

Print Server Services Global Constants

```
//Print server status
int RUNNING                = 0
int GOING_DOWN             = 1
int DOWN                   = 2
int INITIALIZING           = 3

//Printer status
int PRINTER_RUNNING        = 0
int PRINTER_OFFLINE        = 1
int PRINTER_PAPER_OUT      = 2

//printControlFlags
int SUPPRESS_FF            = 2048
int NOTIFY_USER            = 4096
int TEXT_MODE              = 16384
int PRINT_BANNER           = 32768

//Queue service modes
int QUEUE_ONLY             = 0
int QUEUE_BEFORE_FORM      = 1
int FORM_ONLY              = 2
int FORM_BEFORE_QUEUE      = 3

//Port configuration values
int BAUD_RATE_0300         = 0
int BAUD_RATE_0600         = 1
int BAUD_RATE_1200         = 2
int BAUD_RATE_2400         = 3
int BAUD_RATE_4800         = 4
int BAUD_RATE_9600         = 5

int STOP_BITS_1            = 0
int STOP_BITS_1_5          = 1
int STOP_BITS_2            = 2

int PARITY_NONE            = 0
int PARITY_EVEN            = 1
int PARITY_ODD             = 2

//Printer types
int P_PAR_1                = 0
int P_PAR_2                = 1
int P_PAR_3                = 2
int P_SER_1                = 3
int P_SER_2                = 4
int P_SER_3                = 5
int P_SER_4                = 6
int P_REM_PAR_1            = 7
int P_REM_PAR_2            = 8
int P_REM_PAR_3            = 9
int P_REM_SER_1            = 10
int P_REM_SER_2            = 11
int P_REM_SER_3            = 12
```

int P_REM_SER_4	= 13	
int P_REM_OTHER		= 14
int P_ELSEWHERE		= 15

//ObjectType for job owner (for notify object APIs)

int JOB_OWNER	= -1
---------------	------

//Job outcomes

int PLACE_ON_HOLD	= 0	
int RETURN_TO_QUEUE	= 1	
int THROW_AWAY		= 2

//Remote printer modes

int REMOTE_SHARED	= 0
int REMOTE_PRIVATE	= 1

//Printer status

int PSTAT_WAITING_FOR_JOB	= 0	
int PSTAT_WAITING_FOR_FORM	= 1	
int PSTAT_PRINTING_JOB	= 2	
int PSTAT_PAUSED		= 3
int PSTAT_STOPPED	= 4	
int PSTAT_MARK_EJECT	= 5	
int PSTAT_READY_TO_GO_DOWN	= 6	
int PSTAT_NOT_CONNECTED		= 7
int PSTAT_PRIVATE		= 8

//Print server communication errors

int PSC_NO_AVAILABLE_SPX_CONNECTS	= 64	
int PSC_SPX_NOT_INITIALIZED	= 65	
int PSC_NO_SUCH_PRINT_SERVER	= 66	
int PSC_UNABLE_TO_GET_SERVER_ADDR	= 67	
int PSC_UNABLE_TO_CONNECT_TO_SERVER	= 68	
int PSC_NO_AVAILABLE_IPX_SOCKETS		= 69
int PSC_ALREADY_ATTACHED_TO_PSERVER	= 70	
int PSC_IPX_NOT_INITIALIZED		= 71

//Print server error codes

int PSE_TOO_MANY_FILE_SERVERS	= 257	
int PSE_UNKNOWN_FILE_SERVER	= 258	
int PSE_BINDERY_LOCKED		= 259
int PSE_SERVER_MAXED_OUT	= 260	
int PSE_NO_RESPONSE	= 261	
int PSE_ALREADY_ATTACHED	= 262	
int PSE_CANT_ATTACH	= 263	
int PSE_NO_ACCOUNT_BALANCE	= 264	
int PSE_NO_CREDIT_LEFT	= 265	
int PSE_INTRUDER_DETECTION_LOCK		= 266
int PSE_TOO_MANY_CONNECTIONS	= 267	
int PSE_ACCOUNT_DISABLED		= 268
int PSE_UNAUTHORIZED_TIME	= 269	
int PSE_UNAUTHORIZED_STATION	= 270	
int PSE_NO_MORE_GRACE	= 271	
int PSE_LOGIN_DISABLED	= 272	
int PSE_ILLEGAL_ACCT_NAME	= 273	
int PSE_PASSWORD_HAS_EXPIRED	= 274	

int PSE_ACCESS_DENIED	= 275	
int PSE_CANT_LOGIN	= 276	
int PSE_NO_SUCH_QUEUE	= 512	
int PSE_NOT_AUTHORIZED_FOR_QUEUE	= 513	
int PSE_QUEUE_HALTED	= 514	
int PSE_UNABLE_TO_ATTACH_TO_QUEUE	= 515	
int PSE_TOO_MANY_QUEUE_SERVERS		= 516
int PSE_INVALID_REQUEST		= 768
int PSE_NOT_ENOUGH_MEMORY	= 769	
int PSE_NO_SUCH_PRINTER		= 770
int PSE_INVALID_PARAMETER	= 771	
int PSE_PRINTER_BUSY	= 772	
int PSE_CANT_DETACH_PRIMARY_SERVER	= 773	
int PSE_GOING_DOWN	= 774	
int PSE_NOT_CONNECTED	= 775	
int PSE_ALREADY_IN_USE	= 776	
int PSE_NO_JOB_ACTIVE	= 777	
int PSE_NOT_ATTACHED_TO_SERVER		= 778
int PSE_ALREADY_IN_LIST		= 779
int PSE_DOWN	= 780	
int PSE_NOT_IN_LIST	= 781	
int PSE_NO_RIGHTS	= 782	
int PSE_UNABLE_TO_VERIFY_IDENTITY		= 1024
int PSE_NOT_REMOTE_PRINTER	= 1025	
//Client privilege levels for print server		
int PS_LIMITED	= 0	// Limited access only
int PS_USER	= 1	// User access
int PS_OPERATOR	= 2	// Operator access

Print Server Services Structures

PS_INFO
REMOTE_INFO

PS_INFO

Status	string
NumPrinters	string
NumModes	string
MajorVersion	string
MinorVersion	string
Revision	string
SerialNumber	string
ServerType	string

REMOTE_INFO

PrinterType	integer	
UseInterrupts	integer	
IrqNumber	integer	
NumBlocks	integer	
UseXonXoff	integer	
BaudRate		integer
DataBits	integer	
StopBits	integer	
Parity	integer	
Socket	integer	

AbortServicingQueueJobAndFile

Function Integer AbortServicingQueueJobAndFile (long QueueID, long JobNumber, int FileHandle) Library
"NWNETAPI.DLL"

AttachQueueServerToQueue

Function AttachQueueServerToQueue (long QueueID) Library "NWNETAPI.DLL"

ChangeQueueJobEntry

Function Integer ChangeQueueJobEntry (long QueueID, ref JOB_STRUCT Job) Library "NWNETAPI.DLL"

ChangeQueueJobPosition

Function Integer ChangeQueueJobPosition (long QueueID, long JobNumber, int NewPosition) Library
"NWNETAPI.DLL"

ChangeToClientRights

Function Integer ChangeToClientRights (long QueueID, long JobNumber) Library "NWNETAPI.DLL"

CloseFileAndAbortQueueJob

Function Integer CloseFileAndAbortQueueJob (long QueueID, long JobNumber, int FileHandle) Library
"NWNETAPI.DLL"

CloseFileAndStartQueueJob

Function CloseFileAndStartQueueJob (long QueueID, long JobNumber, int FileHandle) Library
"NWNETAPI.DLL"

CreateQueue

Function CreateQueue (string QueueName, int QueueType, int DirectoryHandle, string PathName, ref long QueueID) Library "NWNETAPI.DLL"

CreateQueueJobAndFile

Function CreateQueueJobAndFile (long QueueID, ref JOB_STRUCT Job, ref int FileHandle) Library
"NWNETAPI.DLL"

DestroyQueue

Function Integer DestroyQueue (long QueueID) Library "NWNETAPI.DLL"

DetachQueueServerFromQueue

Function Integer DetachQueueServerFromQueue (long QueueID) Library "NWNETAPI.DLL"

FinishServicingQueueJobAndFile

Function FinishServicingQueueJobAndFile (long QueueID, long JobNumber, long Charge, int FileHandle)
Library "NWNETAPI.DLL"

GetQueueJobList

Function Integer GetQueueJobList (long QueueID, ref long JobCount, ref long JobNumberList, long MaxJobNumbers) Library "NWNETAPI.DLL"

GetQueueJobsFileSize

Function Integer GetQueueJobsFileSize (long QueueID, long JobNumber, ref long FileSize) Library
"NWNETAPI.DLL"

ReadQueueCurrentStatus

Function Integer ReadQueueCurrentStatus (long QueueID, ref long QueueStatus, ref long NumberOfJobs, ref long NumberOfServers, ref long ServerIDList [], ref long ServerStationList [], long MaxNumberOfServers) Library "NWNETAPI.DLL"

//ServerIDList is an array of MaxNumberOfServers longs

//ServerStationList is an array of MaxNumberOfServers longs

ReadQueueJobEntry

Function Integer ReadQueueJobEntry (long QueueID, long JobNumber, ref JOB_STRUCT Job) Library
"NWNETAPI.DLL"

ReadQueueServerCurrentStatus

Function Integer ReadQueueServerCurrentStatus (long QueueID, long ServerID, long ServerStation, ref STATUS_RECORD ServerStatusRecord) Library "NWNETAPI.DLL"

RemoveJobFromQueue

Function Integer RemoveJobFromQueue (long QueueID, long JobNumber) Library "NWNETAPI.DLL"

RestoreQueueServerRights

Function Integer RestoreQueueServerRights () Library "NWNETAPI.DLL"

ServiceQueueJobAndOpenFile

Function Integer ServiceQueueJobAndOpenFile (long QueueID, int TargetJobType, ref JOB_STRUCT Job, ref int FileHandle) Library "NWNETAPI.DLL"

SetQueueCurrentStatus

Function Integer SetQueueCurrentStatus (long QueueID, long QueueStatus) Library "NWNETAPI.DLL"

SetQueueServerCurrentStatus

Function Integer SetQueueServerCurrentStatus (long QueueID, ref STATUS_RECORD ServerStatusRecord)
Library "NWNETAPI.DLL"

Print Queue Services Global Constants

```
//Queue Job Control Flags
int QF_OPERATOR_HOLD          = 128
int QF_USER_HOLD              = 64
int QF_ENTRY_OPEN             = 32
int QF_SERVICE_RESTART        = 16
int QF_AUTO_START             = 8

//Queue Status Flags
int QS_CANT_ADD_JOBS          = 1
int QS_SERVERS_CANT_ATTACH    = 2
int QS_CANT_SERVICE_JOBS      = 4

//Error return codes
int Q_ERROR                   = 208
int NO_QUEUE                  = 209
int NO_Q_SERVER               = 210
int NO_Q_RIGHTS               = 211
int Q_FULL                    = 212
int NO_Q_JOB                  = 213
int NO_JOB_RIGHTS             = 214
int Q_SERVICING                = 215
int STN_NOT_SERVER            = 217
int Q_NOT_ACTIVE               = 216
int Q_HALTED                  = 218
int MAX_Q_SERVERS             = 219
```


Print Queue Services Structures

JOB_STRUCT
STATUS_RECORD

JOB_STRUCT

Reserved		string
ClientStation	long	
ClientTaskNumber	long	
ClientIDNumber	long	
TargetServerIDNumber	long	
TargetExecutionTime	string	
JobEntryTime	string	
JobNumber	long	
JobType	integer	
JobPosition	integer	
JobControlFlags	integer	
JobFileName	string	
JobFileHandle	string	
ServerStation	long	
ServerTaskNumber	long	
ServerIDNumber	long	
TextJobDescription	string	
ClientRecordArea	string	

STATUS_RECORD

Record	string
--------	--------

AdvertiseService

Function Integer AdvertiseService (int ServerType, string ServerName, ref int ServerSocket) Library
"NWIPXSPX.DLL"

QueryServices

Function Integer QueryServices (int QueryType, int ServerType, int ReturnSize, ref SAP ServiceBuffer) Library
"NWIPXSPX.DLL"

ShutdownSAP

Function Integer ShutdownSAP (string ServerName) Library "NWIPXSPX.DLL"

Service Advertising Protocol Structures

SAP

SAP

Header	<u>IPXHeader</u>	
ResponseType	integer	
ServerType	integer	
ServerName	string	
Network	long	
Node	<u>NodeAddress</u>	
Socket	integer	
InterveningNetworks		integer

ClearFile

Function Integer ClearFile (string FileName) Library "NWNETAPI.DLL"

ClearFileSet

Function Integer ClearFileSet () Library "NWNETAPI.DLL"

ClearLogicalRecord

Function Integer ClearLogicalRecord (string LogicalRecordName) Library "NWNETAPI.DLL"

ClearLogicalRecordSet

Function Integer ClearLogicalRecordSet () Library "NWNETAPI.DLL"

ClearPhysicalRecord

Function Integer ClearPhysicalRecord (int FileHandle, long RecordStartOffset, long RecordLength) Library
"NWNETAPI.DLL"

ClearPhysicalRecordSet

Function Integer ClearPhysicalRecordSet () Library "NWNETAPI.DLL"

CloseSemaphore

Function Integer CloseSemaphore (long SemaphoreHandle) Library "NWNETAPI.DLL"

ExamineSemaphore

Function Integer ExamineSemaphore (long SemaphoreHandle&, ref int SemaphoreValue, ref int OpenCount)
Library "NWNETAPI.DLL"

GetLockMode

Function Integer GetLockMode () Library "NWNETAPI.DLL"

LockFileSet

Function Integer LockFileSet (int TimeoutLimit) Library "NWNETAPI.DLL"

LockLogicalRecordSet

Function Integer LockLogicalRecordSet (int LockDirective, int TimeoutLimit) Library "NWNETAPI.DLL"

LockPhysicalRecordSet

Function Integer LockPhysicalRecordSet (int LockDirective, int TimeoutLimit) Library "NWNETAPI.DLL"

LogFile

Function Integer LogFile (string FileName, int LockDirective, int TimeoutLimit) Library "NWNETAPI.DLL"

LogLogicalRecord

Function LogLogicalRecord (string LogicalRecordName, int LockDirective, int TimeoutLimit) Library
"NWNETAPI.DLL"

LogPhysicalRecord

Function Integer LogPhysicalRecord (int FileHandle, long RecordStartOffset, long RecordLength, int LockDirective, int TimeoutLimit) Library "NWNETAPI.DLL"

OpenSemaphore

Function Integer OpenSemaphore (string SemaphoreName, int InitialValue, ref long SemaphoreHandle, ref int OpenCount) Library "NWNETAPI.DLL"

ReleaseFile

Function Integer ReleaseFile (string FileName) Library "NWNETAPI.DLL"

ReleaseFileSet

Function Integer ReleaseFileSet () Library "NWNETAPI.DLL"

ReleaseLogicalRecord

Function Integer ReleaseLogicalRecord (string LogicalRecordName) Library "NWNETAPI.DLL"

ReleaseLogicalRecordSet

Function Integer ReleaseLogicalRecordSet () Library "NWNETAPI.DLL"

ReleasePhysicalRecord

Function Integer ReleasePhysicalRecord (int FileHandle, long RecordStartOffset, long RecordLength) Library
"NWNETAPI.DLL"

ReleasePhysicalRecordSet

Function Integer ReleasePhysicalRecordSet () Library "NWNETAPI.DLL"

SetLockMode

Function Integer SetLockMode (int LockMode) Library "NWNETAPI.DLL"

SignalSemaphore

Function Integer SignalSemaphore (long SemaphoreHandle) Library "NWNETAPI.DLL"

WaitOnSemaphore

Function Integer WaitOnSemaphore (long SemaphoreHandle, int TimeoutLimit) Library "NWNETAPI.DLL"

TTSAbortTransaction

Function Integer TTSAbortTransaction () Library "NWNETAPI.DLL"

TTSBeginTransaction

Function Integer TTSBeginTransaction () Library "NWNETAPI.DLL"

TTSEndTransaction

Function Integer TTSEndTransaction (ref long TransactionNumber) Library "NWNETAPI.DLL"

TTSGetApplicationThresholds

Function Integer TTSGetApplicationThresholds (ref int LogicalRecordLockThreshold, ref int PhysicalRecordLockThreshold) Library "NWNETAPI.DLL"

TTSGetStats

Function Integer TTSGetStats (int ConnectionID, ref int LastTask, int StructSize, ref TTS_STATS TTStats)
Library "NWNETAPI.DLL"

//2.x only

TTSGetWorkstationThresholds

Function Integer TTSGetWorkstationThresholds (ref int LogicalRecordLockThreshold, ref int PhysicalRecordLockThreshold) Library "NWNETAPI.DLL"

TTSIsAvailable

Function Integer TTSIsAvailable () Library "NWNETAPI.DLL"

TTSSetApplicationThresholds

Function TTSSetApplicationThresholds (ref int LogicalRecordLockThreshold , int PhysicalRecordLockThreshold
) Library "NWNETAPI.DLL"

TTSSetWorkstationThresholds

Function Integer TTSSetWorkstationThresholds (int LogicalRecordLockThreshold, int PhysicalRecordLockThreshold) Library "NWNETAPI.DLL"

TTSTransactionStatus

Function TTSTransactionStatus (long TransactionNumber) Library "NWNETAPI.DLL"

Transaction Tracking Services Structures

TTS_STATS

TTS_STATS

SystemElapsedTime	long	
TTSSupported	string	
TTSEnabled	string	
TTSVolumeNumber		integer
TTSMaxOpenTransactions	integer	
TTSMaxTransactionsOpened	integer	
TTSCurrTransactionsOpened	integer	
TTSTotalTransactions	long	
TTSTotalWrites	long	
TTSTotalBackouts	long	
TTSUnfilledBackouts	integer	
TTSDiskBlocksInUse	integer	
TTSFATALlocations	long	
TTSFileSizeChanges	long	
TTSFilesTruncated	long	
NumberOfTransactions	string	
ConnectionNumber	string	
TaskNumber	string	

EndOfJob

Function EndOfJob () Library "NWNETAPI.DLL"

GetConnectionID

Function Integer GetConnectionID (string FileServerName, ref int ConnectionID) Library "NWNETAPI.DLL"

GetDefaultConnectionID

Function Integer GetDefaultConnectionID () Library "NWNETAPI.DLL"

GetNetWareShellVersion

Function Integer GetNetWareShellVersion (ref int MajorVersion, ref int MinorVersion, ref int RevisionLevel)
Library "NWNETAPI.DLL"

GetNumberOfLocalDrives

Function Integer GetNumberOfLocalDrives () Library "NWNETAPI.DLL"

GetPreferredConnectionID

Function Integer GetPreferredConnectionID () Library "NWNETAPI.DLL"

GetPrimaryConnectionID

Function Integer GetPrimaryConnectionID () Library "NWNETAPI.DLL"

GetWorkstationEnvironment

Subroutine GetWorkstationEnvironment (ref [Any] OperatingSystemType, ref [Any] OperatingSystemVersion, ref string HardwareType, [Any] ShortHardWareType) Library "NWNETAPI.DLL"

//get max length of strings

IsConnectionIDInUse

Function Integer IsConnectionIDInUse (int ConnectionID) Library "NWNETAPI.DLL"

SetEndOfJobStatus

Function Integer SetEndOfJobStatus (int EndOfJobFlag) Library "NWNETAPI.DLL"

SetNetWareErrorMode

Function Integer SetNetWareErrorMode (int ErrorMode) Library "NWNETAPI.DLL"

SetPreferredConnectionID

Subroutine SetPreferredConnectionID (int ConnectionID) Library "NWNETAPI.DLL"

SetPrimaryConnectionID

Function Integer SetPrimaryConnectionID (int PrimaryConnectionID) Library "NWNETAPI.DLL"

Copyright Notice

NetWare Interface for Visual Basic (NIVB)
Version 1.0
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NIVB is based on the NetWare C Interface for Windows Software Development Kit (SDK), version 1.3 of the NetWare DLLs. The DLLs can be downloaded from Compuserve's NOVFILES forum (WINUP7.ZIP). They are also included with an example program (NWTEST.ZIP) that illustrates how to use NIVB. NWTEST can be downloaded from NOVLIB.

NIVB supports all NetWare API functions except IPX/SPX.

The SDK is available through Novell's Professional Developer's Program (PDP). For information on becoming a member of the PDP and obtaining Novell SDKs, call 1-800-RED-WORD (800-733-9673) or 512-794-1796. The SDK includes documentation for the APIs in the Windows DLLs, so to program to NIVB, you will need the SDK.

NIVB is not supported through Novell's regular Technical Support channels. It is mostly untested, and therefore Novell makes no warranty of its merchantability or fitness for any purpose.

NIVB was developed by Novell's Systems Research Department, publishers of NetWare Application Notes. An Application Note on NIVB will be published in the July 1993 issue. Also, look for an extensive example program (called NWTEST) that illustrates how to use the interface.

Barring unforeseen circumstances, Systems Research will (someday real soon) publish a version of NIVB based on the NetWare 4.0 Client SDK, with support for NetWare 4.0 and NetWare Directory Services (NDS).

The Systems Research Department welcomes feedback and questions on NIVB. Please contact:

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Good News

What then can we say about these things? If God is for us, who can be against us? He did not withhold his own Son, but gave Him up for all of us, will He not with Him also give us everything else? Who will bring any charge against God's elect? It is God who justifies. Who is to condemn? It is Christ Jesus, who dies, yes, who was raised, who is at the right hand of God, who indeed intercedes for us. Who will separate us from the love of Christ? Will hardship, or distress, or persecution, or famine, or nakedness, or peril, or sword? As it is written, 'For your sake we are being killed all day long; we are accounted as sheep to be slaughtered.' No in all these things we are more than conquerors through Him who loved us. For I am convinced that neither death, nor life, nor angels, nor rulers, nor things present, nor things to come, nor powers, nor height, nor depth, nor anything else in all creation, will be able to separate us from the love of God in Christ Jesus our Lord. (Romans 8:31-39, NRSV)

For by grace you have been saved through faith, and this is not your own doing; it is the gift of God -- not the result of works, so that no one may boast. For we are what He has made us, created in Christ Jesus for good works, which God prepared beforehand to be our way of life. (Ephesians 2:8-10, NRSV)

Now to Him who by the power at work within us is able to accomplish abundantly far more than all we can ask or imagine, to Him be glory in the church and in Christ Jesus to all generations, forever and ever. Amen. (Ephesians 3:20-21, NRSV)

