

Appendix 3A Bindery APIs

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BinderyAuthenticateWithHandle

Description Authenticates a connection using a previously created authentication

handle.

Syntax #include "conn.h"

UINT32

BinderyAuthenticateWithHandle(

VOID *authenHandle,

CONN HANDLE connHandle)

Input authenHandle Authentication handle associated with the

information that will be used to authenticate the

connection.

connHandle Connection to be authenticated.

Output None.

Return values SUCCESS CODE

INVALID_CONNECTION INVALID AUTHEN HANDLE

AUTHEN_FAILED

See also Bindery Create Authentication Handle

Bindery Close Authentication Handle

Bindery Close Authentication Handle

Description Closes the specified authentication handle.

Syntax #include "conn.h"

UINT32

BinderyCloseAuthenticationHandle(VOID *authenHandle)

Input authenHandle Authentication handle to be closed.

Output None.

Return values SUCCESS CODE

INVALID_AUTHEN_HANDLE

See also Bindery Authenticate With Handle

BinderyCreateAuthenticationHandle

BinderyCreateAuthenticationHandle

Description Creates an authentication handle that can be used to automatically

authenticate connections. ProcessGroupID and processID identify the scope

of the authentication handle.

Syntax #include "conn.h"

UINT32

BinderyCreateAuthenticationHandle(
UINT32 processGroupID,
UINT32 processID,
SPECT_DATA *objectName,
SPECT_DATA *password,
SPECT_DATA *domainName,

VOID *pAuthenSpecInfo, VOID **authenHandle)

Input processGroupID ID of process group.

processID ID of process.

objectName Name of the object to be authenticated.

password Clear-text password to be used in

authenticating. This value should be stored encrypted. *password* can be specified in local

code page or in Unicode.

domainName Should be set to NULL for Bindery.

pAuthenSpecInfo Should be set to NULL for Bindery.

Output authenHandle Authentication handle that will be passed in

when a connection is to be authenticated with

the above information.

Return values SUCCESS_CODE

OUT_OF_RESOURCES

DUPLICATE AUTHEN HANDLE

Remarks DUPLICATE_AUTHEN_HANDLE will be returned if input

information already matches a previously returned

authentication handle.

OUT_OF_RESOURCES will be returned if there is not enough

space to create a new authentication handle.

See also Bindery Authenticate With Handle

BinderyGetAuthenticationInfo

Description Returns authentication information associated with an authentication

handle.

Syntax #include "conn.h"

UINT32

BinderyGetAuthenInfo(

VOID *authenHandle,
SPECT_DATA *objectName,
SPECT_DATA *domainName,
VOID *pAuthenSpecInfo)

Input authenHandle Authentication handle for which to retrieve

information.

Output objectName Output buffer to receive the name of the object

that will be authenticated with this handle. On input, the *length* field of this structure must specify the number of bytes available in the output buffer to receive the object name. On output, if the buffer is too small then the *length* field will contain the number of bytes of buffer space needed by caller to retrieve the object

name.

domainName Ignored.

pAuthenSpecInfo Ignored.

Return values SUCCESS CODE

INVALID_AUTHEN_HANDLE MORE DATA ERROR

Remarks MORE DATA ERROR will be returned if the buffers

described by output parameters objectName and objectType are too

small to receive returned information.

See also Bindery Create Authentication Handle

BinderyCloseAuthenticationHandle

Bindery Get Initial Connection

Description Resolves supplied name to a transport address.

Syntax UINT32

BinderyGetInitialConnection(

UINT32 processGroupId, UINT32 processId, UINT32 transportType, CONN HANDLE *connHandle)

Input processGroupId Process group ID.

processId Process ID.

reqTranType Preferred or required transport type.

sessSvcType Type of session required (such as NCP).

Output connHandle Handle to the established connection.

Return values SUCCESS CODE Success

INVALID PARAMETER

RESOLVE_SVC_FAILED Unable to resolve name

Bindery Get Preferred Server

Description Returns the preferred server for the specified scope. The preferred

server set in NET.CFG will be returned if the preferred server is not specified for the requested scope. *ProcessGroupID* and *processID* are used

to specify the scope of the preferred server.

Syntax #include "name_svc.h"

UINT32

BinderyGetPreferredServer(

UINT32 processGroupID, UINT32 processID, SPECT_DATA *servername)

Input processGroupID ID for process group.

processID ID for process.

Output servername Points to the buffer to receive the null-

terminated preferred server for the specified

scope.

Return values SUCCESS CODE

MORE_DATA_ERROR

Remarks MORE_DATA_ERROR is returned if the caller's output

buffer is too small to receive preferred server name.

See also BinderySetPreferredServer

Bindery Qualify Connection Match

Description Called by ConnMan so that when it needs to open a connection, it

knows which field of the connection entry to try and match an existing

connection with.

Syntax UINT32

BinderyQualifyConnectionMatch(SPECT_DATA *serverName, UINT32 *connEntryId,

SPECT_DATA *qualifiedServerName)

Input serverName Name of server to fully qualify.

Output connEntryId Contains the server name field ID.

qualifiedServerName

serverName string copied into this structure

unmodified.

Return values SUCCESS_CODE Success

INVALID PARAMETER

Bindery Resolve Id To Object

Description Resolves the object ID on the given connection to its object name and

object type.

Syntax UINT32

BinderyResolveIdToObject(

CONN_HANDLE reqConnId, UINT32 objectId,

VOID *reqNSSpec, SPECT_DATA *repObjectName, SPECT_DATA *repObjectType)

Input reqConnId Connection handle where the object ID exists.

objectId ID of object to qualify.

reqNSSpec Ignored by Bindery.

Output reqObjectName Pointer to object to which name ID was resolved.

regObjectType Pointer to the type of service to which object ID

was resolved.

Return values SUCCESS CODE

INVALID_CONNECTION INVALID_PARAMETER RESOLVE_SVC_FAILED

Bindery Resolve Name To Address

Description Resolves a given NetWare name to a transport address. *processGroupID*

and processID specify the preferred server connection to use if

regConnHandle is NULL.

Syntax #include "name_svc.h"

UINT32

BinderyResolveNameToAddress(
 CONN_HANDLE connHandle,
 SPECT_DATA *objectName,
 SPECT_DATA *objectType,
 UINT32 transportType,
 VOID *nameSvcSpec,

UINT32 repSessionSvcID, TRAN_ADDR_TYPE *repTranAddr,

UINT32 *repTranAddrCount)

Input connHandle Connection handle to resolve name with.

Cannot be NULL.

objectName NetWare Bindery name to resolve to a

transport address.

objectType Type of NetWare Bindery name being

resolved. Currently the only support type is

NCP SERVER.

transportType The preferred or required transport type. Must

be one of the following: TRAN_TYPE_IPX

TRAN_TYPE_IP
TRAN_TYPE_WILD

nameSvcSpec Point to name service-specific information.

Should be NULL for Bindery.

Output repSessionSvcID ID of the session protocol on which the

resolved name is valid.

repTranAddr Points to array of TRAN ADDR TYPE entries

to be filled in with the transport addresses of the resolved name.

repTranAddrCount

The actual number of TRAN_ADDR_TYPE entries being returned to caller. On input, specifies the number of transport address entries available to receive from the name service provider.

Return values SUCCESS_CODE

INVALID_PARAMETER RESOLVE_NAME_FAILED MORE_DATA_ERROR

Remarks It is possible for a name to be resolved to multiple

transport addresses of different transport types. The caller must then decide which transport address to use, since this will determine which transport is used for communication

with the server.

See also BinderyResolveObjectToId

BinderyResolveObjectToId

Description Resolves a given NetWare object name to an object ID and transport

address(es). processGroupID and processID specify the preferred server

connection to use if reqConnHandle is NULL.

Syntax #include "name_svc.h"

UINT32

BinderyResolveObjectToId(

CONN_HANDLE connHandle,
SPECT_DATA objectName,
SPECT_DATA objectType,
UINT32 transportType,
VOID *nameSvcSpec,
UINT32 *repObjectID,
UINT32 *repSessionSvcID,
TRAN ADDR TYPE *repTranAddr,

UINT32 *repTranAddrCount)

Input connHandle Connection handle for which to resolve name.

Cannot be NULL.

objectName NetWare object name to resolve to an ID or

transport address.

objectType Type of NetWare object name being

resolved. Currently the only support types

are: USER GROUP QUEUE

NCP_SERVER

transportType Preferred or required transport type. Must be

one of the following:
TRAN_TYPE_IPX
TRAN_TYPE_IP
TRAN TYPE WILD

nameSvcSpec Should be set to NULL for Bindery.

Output repObjectID Object ID of object name on resolved address.

repSessionSvcID ID of session protocol that object ID is valid on.

repTranAddr Points to array of TRAN_ADDR_TYPE entries

to be filled in with the transport addresses of

the resolved object.

repTranAddrCount

Contains the actual number of

TRAN_ADDR_TYPE entries being returned to caller. On input, specifies the number of transport address entries available to receive

from the name service provider.

Return values SUCCESS CODE

INVALID_PARAMETER RESOLVE_NAME_FAILED MORE_DATA_ERROR

Remarks It is possible for a name to be resolved to multiple

transport addresses of different transport types. The caller must then decide which transport address to use, since this will determine which transport is used for communication

with the server.

See also BinderyResolveNameToAddress

BinderySetPreferredServer

Description Sets the preferred server for the specified scope. If a preferred server is

already specified for the indicated scope then this information will

overwrite the previous setting.

Syntax #include "name_svc.h"

UINT32

BinderySetPreferredServer(

UINT32 processGroupID, UINT32 processID, SPECT DATA *servername)

Input processGroupID ID for process group.

processID ID for process.

servername Name of preferred server to set for specified

scope.

Output None.

Return values SUCCESS CODE

INVALID_PARAMETER OUT OF RESOURCES

Remarks INVALID_PARAMETER is returned if the name being set is

too big for the name service provider it's being set for.

OUT_OF_RESOURCES is returned if the name service provider does not have enough memory to store the preferred server for

the specified scope.

See also Bindery GetPreferred Server

Bindery Unauthenticate

Description Unauthenticates a connection.

Syntax #include "conn.h"

UINT32

BinderyUnauthenticate(

CONN_HANDLE connHandle)

Input connHandle Connection to be unauthenticated.

Output None.

Return values SUCCESS_CODE

INVALID_CONNECTION

See also Bindery Authenticate With Handle