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Appendix 4B

ConnMan Structures, Constants, and Definitions

Structures

CONN_RENAME

Used in the NESL EVENT_CONN_RENAMED event.

```
typedef struct _CONN_RENAME_ {
    CONN_HANDLE    currentHandle;
    CONN_HANDLE    oldHandle;
} CONN_RENAME;
```

CONN_ENTRY_RETURN_ALL

This structure is used to return (or set) connection information when **CONNGetStructure** or **CONNSetStructure** is called. It contains all the connection-related parameters that can be set or read.

```
typedef struct _CONN_INFO_TYPE_ {
    UINT32          connInfoVersion;
    UINT32          connReference;
    UINT32          connMaxDomainNameLen;
    SPECT_DATA      connDomainName;
    UINT32          connNameSvcId;
    UINT32          connSecurity;
    UINT32          connServerConnNum;
    UINT32          connAuthUserId;
    UINT32          connAuthState;
    UINT32          connMaxServerNameLen;
    SPECT_DATA      connServerName;
    TRAN_ADDR_TYPE  connTranAddr;
    UINT32          connMaxIo;
    UINT32          connLicense;
    UINT32          connMaxServiceNameLen;
    SPECT_DATA      connServiceName;
    UINT32          connRoundTrip;
    UINT32          connServerVersion;
} CONN_INFO_TYPE;
```

Definitions

```
#define CONN_HANDLE      UINT32
#define AUTH_HANDLE      UINT32
```

Provider IDs

Following are all defined IDs for name service providers, authentication service providers, transport providers, and session protocol providers. Note that each of these types includes a wildcard type. Defined IDs can be ORed with a wildcard or used alone. Two defined types (non-wildcard) may not be ORed. If ORing is used, the defined name is tried first, then all other providers are queried.

```
enum {  NAME_SVC_NDS_ID      = 1,
        NAME_SVC_BINDERY_ID,
        NAME_SVC_PNW_ID,
        NAME_SVC_WILDCARD   = 0x8000 };

enum {  AUTH_SVC_NONE        = 0,
        AUTH_SVC_BINDERY_ID,
        AUTH_SVC_NDS_ID,
        AUTH_SVC_PNW_ID,
        AUTH_SVC_WILDCARD   = 0x8000 };

enum {  INVALID_SESSION_ID  = 0,
        NCP_SESSION_ID,
        SMB_SESSION_ID,
        WILD_SESSION_ID     = 0x8000 };

enum {  TRAN_ID_IPX = 1,
        TRAN_ID_UDP,
        TRAN_ID_DDP,
        TRAN_ID_ASP,
        TRAN_ID_WILDCARD   = 0x8000 };
```

License States

These are the values used if Conn_entry_license is being set or retrieved via a **CONNSetValue** or **CONNGetValue**.

```
enum {  LICENSE_STATE_OFF    = 0,
        LICENSE_STATE_ON,
        LICENSE_STATE_ON_FOR_HANDLE };

enum {  NDS_NOT_CAPABLE      = 0,
        NDS_CAPABLE         };
```

Broadcast States

```
enum    {   BCAST_PERMIT_ALL      = 0,
            BCAST_PERMIT_SYSTEM,
            BCAST_PERMIT_NONE     };
```

NESL Events

```
#define EVENT_CONN_AUTHENTICATED "CONNECTION_AUTHENTICATED"
#define EVENT_CONN_CREATED       "CONNECTION_CREATED"
#define EVENT_CONN_DESTROYED     "CONNECTION_DESTROYED"
#define EVENT_CONN_LOGGED_OUT    "CONNECTION_LOGGED_OUT"
#define EVENT_CONN_PRE_CREATED   "CONN_PRE_CONNECTION_CREATED"
#define EVENT_CONN_PRE_DESTROYED "CONN_PRE_CONNECTION_DESTROYED"
#define EVENT_CONN_RECONNECTED   "CONNECTION_RECONNECTED"
#define EVENT_CONN_RENAMED       "CONNECTION_RENAMED"
#define EVENT_CONN_UNAUTHENTICATED "CONNECTION_UNAUTHENTICATED"
```

Connection Handle Lookup Types

```
#define MATCH_EQUALS      0x0000 // Lookup for equivalent info
#define MATCH_NOT_EQUALS  0x0001 // Lookup for non-equivalent
                                info
```

Connection Opening Flags

```
#define SHORT_LIVED_CONNECTION 0x0000
#define LONG_LIVED_CONNECTION  0x0001
```

Connection Validation Flags

```
#define CONN_VALIDATE_HANDLE 0x0000 // Validate only the
                                     connHandle
#define CONN_VALIDATE_SESSION 0x0001 // Validate to the
                                     session level
```

Connection Password Flags

```
#define CONN_PASSWD_PROMPT_NONE 0x00000000
#define CONN_PASSWD_PROMPT      0x00000001
#define CONN_PASSWD_PROMPT_OLD  CONN_PASSWD_PROMPT
#define CONN_PASSWD_PROMPT_NEW  0x00000002
#define CONN_PASSWD_PROMPT_BOTH (CONN_PASSWD_PROMPT |
                                   CONN_PASSWD_PROMPT_OLD)
```

Connection Security Flags

```
#define SECURITY_SIGNING_NOT_IN_USE 0x00000000
#define SECURITY_SIGNING_IN_USE     0x00000001
```

```
#define SECURITY_LEVEL_CHECKSUM      0x00000100
#define SECURITY_LEVEL_SIGN_HEADERS  0x00000200
#define SECURITY_LEVEL_SIGN_ALL      0x00000400
#define SECURITY_LEVEL_ENCRYPT        0x00000800
```

Object Type Defines

These defines are used by **CONNOpenByName** to define what the object type is.

```
#define OBJECT_TYPE_NCP_SERVER          "File Server"
#define OBJECT_TYPE_FILE_SERVER         "File Server"
#define OBJECT_TYPE_AFP_SERVER          "AFP Server"
#define OBJECT_TYPE_ALIAS               "Alias"
#define OBJECT_TYPE_BINDERY_OBJECT      "Bindery Object"
#define OBJECT_TYPE_BINDERY_QUEUE       "Bindery Queue"
#define OBJECT_TYPE_COMPUTER            "Computer"
#define OBJECT_TYPE_COUNTRY             "Country"
#define OBJECT_TYPE_DEVICE              "Device"
#define OBJECT_TYPE_DIRECTORY_MAP       "Directory Map"
#define OBJECT_TYPE_EXTERNAL_ENTITY     "External Entity"
#define OBJECT_TYPE_GROUP               "Group"
#define OBJECT_TYPE_LIST                "List"
#define OBJECT_TYPE_LOCALITY            "Locality"
#define OBJECT_TYPE_MESSAGE_ROUTING_GROUP "Message Routing Group"

#define OBJECT_TYPE_MESSAGING_SERVER    "Messaging Server"
#define OBJECT_TYPE_ORGANIZATION        "Organization"
#define OBJECT_TYPE_ORGANIZATIONAL_PERSON "Organizational Person"

#define OBJECT_TYPE_ORGANIZATIONAL_ROLE "Organizational Role"
#define OBJECT_TYPE_ORGANIZATIONAL_UNIT "Organizational Unit"
#define OBJECT_TYPE_PARTITION           "Partition"
#define OBJECT_TYPE_PERSON              "Person"
#define OBJECT_TYPE_PRINT_SERVER        "Print Server"
#define OBJECT_TYPE_PRINTER             "Printer"
#define OBJECT_TYPE_PROFILE             "Profile"
#define OBJECT_TYPE_QUEUE               "Queue"
#define OBJECT_TYPE_RESOURCE            "Resource"
#define OBJECT_TYPE_SERVER              "Server"
#define OBJECT_TYPE_TOP                 "Top"
#define OBJECT_TYPE_UNKNOWN             "Unknown"
#define OBJECT_TYPE_USER                "User"
#define OBJECT_TYPE_VOLUME              "Volume"
```

Connection Entry Instance Equates

When a user calls **CONNGetStructure** or **CONNGetValue** (or the equivalent Set functions), these are the types that may be requested or set. This table shows what is returned in each case, and which NLMs may read and write these values.

| | | | <u>Return</u> | <u>Who Reads</u> | <u>Who Writes</u> |
|---------|----------------------------|----------------------|----------------|------------------|-------------------|
| #define | CONN_ENTRY_RETURN_NONE | 0 | | | |
| #define | CONN_ENTRY_VERSION | 1 | Value | global | Never |
| #define | CONN_ENTRY_AUTH_SVC_ID | 2 | AUTH_SVC_* | global | Auth Mux |
| #define | CONN_ENTRY_BROADCAST_STATE | 3 | BCAST_* | global | global |
| #define | CONN_ENTRY_REFERENCE | 4 | Value | global | Never |
| #define | CONN_ENTRY_DOMAIN_NAME | 5 | Struct | global | AuthMux |
| #define | CONN_ENTRY_WORKGROUP_ID | 6 | Struct | global | AuthMux |
| #define | CONN_ENTRY_SECURITY | 7 | Value | global | global |
| #define | CONN_ENTRY_SERVER_CONN_NUM | 8 | Value | global | SessMux |
| #define | CONN_ENTRY_AUTH_USER_ID | 9 | Value | global | AuthMux |
| #define | CONN_ENTRY_SERVER_NAME | 10 | Struct | global | SessMux |
| #define | CONN_ENTRY_TRAN_ADDR | 11 | Struct | global | SessMux |
| #define | CONN_ENTRY_NDS_ABILITY | 12 | NDS_* | global | SessMux |
| #define | CONN_ENTRY_MAX_IO | 13 | Value | global | SessMux |
| #define | CONN_ENTRY_LICENSE | 14 | LICENSE_STATE | global | global |
| #define | CONN_ENTRY_PUBLIC_STATE | 15 | Value | global | Never |
| #define | CONN_ENTRY_NAME_SVC_ID | 16 | NAME_SVC_* | global | SesMux NsMux |
| #define | CONN_ENTRY_ROUND_TRIP | 17 | Value | global | SessMux |
| #define | CONN_ENTRY_SERVER_VERSION | 18 | Value | global | SessMux |
| #define | CONN_ENTRY_TRAN_ADDR_OBJ | 19 | Value | global | SessMux |
| #define | CONN_ENTRY_SFT_LEVEL | 20 | Value | global | global |
| #define | CONN_ENTRY_TTS_LEVEL | 21 | Value | global | global |
| #define | CONN_ENTRY_SERVICE_NAME | 22 | Struct | global | AuthMux |
| #define | CONN_ENTRY_PERM | 23 | Flag | global | ConnMan sets |
| #define | CONN_ENTRY_AUTH | 24 | Flag | global | AuthMux sets |
| #define | CONN_ENTRY_ANCHOR | 25 | Flag | global | ConnMan sets |
| #define | CONN_ENTRY_SUSPENDED | 26 | Flag | global | ConnMan sets |
| #define | CONN_ENTRY_RESOURCE_COUNT | 27 | Value | none | global inc |
| #define | CONN_ENTRY_TRAN_SVC_ID | 28 | TRAN_SVC_* | global | SessMux |
| #define | CONN_ENTRY_AUTH_HANDLE | 29 | Value | global | AuthMux |
| #define | CONN_ENTRY_AUTH_SPEC_PTR | 30 | Value | AuthMux | AuthMux |
| #define | CONN_ENTRY_SESS_SVC_ID | 31 | Value | global | SessMux |
| #define | CONN_ENTRY_SESS_SPEC_PTR | 32 | Value | SessMux | SessMux |
| #define | CONN_ENTRY_ORDER_NUM | 33 | Value | global | SessMux |
| #define | CONN_ENTRY_MAX_RW_IO | 34 | Value | global | SessMux |
| #define | CONN_ENTRY_RETURN_ALL | 65535 | CONN_INFO_TYPE | global | none |
| #define | CONN_ENTRY_END_OF_TABLE | CONN_ENTRY_MAX_RW_IO | | | MAX VALUE |

