Appendix 9B
NDS Structures and Definitions

Manifest Constants

Name-Resolution-Specific Tag

```
#define CLIENT32_NAME_SVC_V1_00  0x00FE0001
```

Structure Definitions

AUTHEN_CACHE

```
typedef struct _AUTHEN_CACHE_
{
   UINT16  totalSize;
   UINT16  publicKeyLength;
   UINT16  credentialLength;
   UINT16  signatureLength;
} AUTHEN_CACHE;
```

AuthService

```
typedef struct
{
 Resource   rl;
 UINT32   PG_Scope;
 UINT32   P_Scope;
 UINT32   treeHandle;
 semHandle  authenSem;
 CONN_HANDLE  monitorConn;
 SECURE_NCP  TDSSecureData;
 AUTHEN_CACHE TDSSize;
 VOID    *TDSData;
 UINT32   monHandle;

} AuthService;
```

DNCService

```
typedef struct
{
 Resource  rl;
 UINT32  PG_Scope;
 UINT32  P_Scope;
 UINT32  treeHandle;
 UINT32  defNCType;
 UINT32  defNCLength;
 UINT8   defNC[MAX_DN_CHARS * 2];
```

```
} DNCService;
```

NDS_RESOLVE_INFO

```
typedef struct _NDS_RESOLVE_INFO
{
 UINT32  tag;
 UINT32  flags;
 UINT32  reqFlags;
 UINT32  reqScope;
 UINT32  repResolveType;
 UINT32  repFlags;
 UINT32  resolvedOffset;
 UINT32  derefNameLength;
 UNICODE  *derefName;

} NDS_RESOLVE_INFO;
```

PreferredService

```
typedef struct
{
 Resource  rl;
 UINT32  PG_Scope;
 UINT32  P_Scope;
 UINT32  treeHandle;
} PreferredService;
```

SECURE_NCP

```
typedef struct _SECURE_NCP
{
 UINT8   sessionKey[SESSION_KEY_SIZE];
 UINT8   challengeKey[CHALLENGE_KEY_SIZE];
} SECURE_NCP;
```

TreeService

```
typedef struct
{
 Resource  rl;
 UINT8   treeName[NW_TREE_NAME_LENGTH];
 UINT32  LRUTimeStamp;
 UINT16  inUseCountHard;
 UINT16  inUseCountTask;
} TreeService;
```

NDS VLM Compatability Structures

```
#define VLMS_LOGGING_IN    0x00000001
#define VLMS_LOGGING_OUT   0x00000002
#define VLMS_LOGGED_IN     0x00000004

typedef struct
{
   Resource   rl;
   UINT32   PG_Scope;
   UINT32   P_Scope;
   UINT32   status;
   UINT32   rwTDSCount;
   SECURE_NCP  tdsSecureData;
   CONN_HANDLE  monitorConn;
   UINT32   authHandle;
   UINT32     muxHandle;

} MonitorService;
```

CLIENT32.H Structures Used by NDS

TRAN_ADDR_TYPE

Describes the data structure for a transport address used by the name service APIs NDSResolveNameToAddress() and NDSResolveObjectToId().

```
typedef struct
{
       UINT32    transportType;
       UINT32    transportLen;
       UINT8     transportAddr[MAX_TRANSPORT_ADDRESS_LEN];

} TRAN_ADDR_TYPE;
```

Fields

transportType Type of transport address. Currently defined values are:

TRAN_TYPE_IPX
TRAN_TYPE_TCP
TRAN_TYPE_WILD

transportLen Length of returned transport address.

transportAddr Buffer that contains transport address.

SPECT_DATA

Describes the data structure for specifying a string in either UNICODE or in local code page.

```
typedef struct SpectDataTag {
   UINT32      Length;
   UINT8 DIST  *Data;
   UINT32      DataType;
   UINT16      LocalCodePage;
   UINT16      CountryCode;
} SPECT_DATA
```