Appendix 13B
Authentication Multiplexor Structures and Definitions

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Constant Definitions

Authenticaton Service IDs

```
#define  BINDERY_AUTHEN_ID    0x00000001
#define  NDS_AUTHEN_ID        0x00000002
#define  PNW_AUTHEN_ID        0x00000003
```

Structure Definitions

AUTH_SVC_API_SET_TYPE

Describes routines that an authentication service module must register with AuthMux.

```
typedef struct {
   UINT32   (*CreateAuthenticationHandle)
              (UINT32         processGroupID,
               UINT32         processID,
               SPECT_DATA     *username,
               SPECT_DATA     *password,
               SPECT_DATA     *domainName,
               VOID           *authenSpecInfo,
               AUTH_HANDLE    *authenHandle );

   UINT32   (*AuthenticateWithHandle)
              (AUTH_HANDLE    authenHandle,
               CONN_HANDLE    connHandle);

   UINT32   (*Authenticate)
              (UINT32         processGroupID,
               UINT32         processID,
               CONN_HANDLE    connHandle,
               SPECT_DATA     *username,
               SPECT_DATA     *password,
               SPECT_DATA     *domainName,
               VOID           *authenSpecInfo)

   UINT32   (*Unauthenticate)
               (CONN_HANDLE   connHandle);

   UINT32   (*CloseAuthenticationHandle)
               (AUTHHANDLE    authenHandle );

   UINT32   (*GetAuthenInfo)
              (AUTH_HANDLE    authenHandle,
```

```
                SPECT_DATA      *username,
                SPECT_DATA      *domainName,
                VOID            *authenSpecInfo)
} AUTH_SVC_API_SET_TYPE;
```

AUTH_SVC_DESC_BLOCK

The data structure that an authentication provider registers with AuthMux that further describes the authentication service module being registered. This information can be obtained by other NLMs by calling **ConnEnumerateAuthenticationSVC**.

```
typedef struct {
   UINT8    majorVersion;
   UINT8    minorVersion;
   UINT8    revision;
   UINT8    name[13];
   UINT8    description[80];
   UINT32   authenSvcID;
} AUTH_SVC_DESC_BLOCK;
```

Fields:

majorVersion	Major version of this authentication service module.
minorVersion	Minor version of this authentication service module.
revision	Revision of this authentication service module.
name	ASCIIZ name of this authentication service module.
description	ASCIIZ description of this authentication service module.
authenSvcID	Unique authentication service ID assigned to this authentication service module.

Return Codes

AUTHEN_FAILED — Returned by authentication service module if it cannot authenticate the supplied connection with given authentication information.

AUTHEN_SVC_ALREADY_REGISTERED — Specified authentication service module is already registered with AuthMux.

AUTHEN_SVC_NOT_REGISTERED — Specified authentication service module is not registered with AuthMux.

INVALID_AUTHEN_HANDLE — Returned by AuthMux if supplied authentication handle is not valid.