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Appendix 13B
Authentication Multiplexor
Structures and Definitions

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.