

# 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)
                (AUTH_HANDLE 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:

<i>majorVersion</i>	Major version of this authentication service module.
<i>minorVersion</i>	Minor version of this authentication service module.
<i>revision</i>	Revision of this authentication service module.
<i>name</i>	ASCIIZ name of this authentication service module.
<i>description</i>	ASCIIZ description of this authentication service module.
<i>authenSvcID</i>	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.