Server Platform Services APIs

NWDisableServerPlatformLogin

This function disables the ability of clients to log in to the specified server.

Synopsis

```
#include "nwapi.h"

int                     ccode;
uint16                  serverConnID;

ccode=NWDisableServerPlatformLogin( serverConnID );
```

Input

serverConnID passes the file server connection ID.

Output

None.

Return Values

0	Successful.	
-1	Unsuccessful.	One of the following error codes is placed in NWErrno:
	0xC6	No Console Operator Rights
	0x96	Server Out Of Memory
	0xFB	Invalid Parameters
	0xFF	No Response From Server

See Appendix B for a listing of possible NetWare errors and a description of the four bytes in NWErrno.

Description

This call is useful for working with the server after all clients have been logged out (for example, during backup procedures).

Notes

IMPORTANT: You must remember to enable server login before logging out of the server or no one, including the client that made this call, will be able to access the server again.

See Also

NWEnableServerPlatformLogin

NWDownServerPlatform

This function will down the specified server.

Synopsis

```
#include "nwapi.h"
```

```
int                     ccode;
uint16                  serverConnID;
uint8                   forceFlag;

ccode=NWDownServerPlatform( serverConnID, forceFlag );
```

Input

serverConnID passes the file server connection ID of the server that will be shut down.

forceFlag passes one of the following flags:

0x00	If any files are open, the call returns 0xFF and the server will not go down.
0xFF	Server shuts down after automatically closing all open files.

Output

None.

Return Values

0	Successful.
-1	Unsuccessful. One of the following error codes is placed in NWErrno:

0xC6	No Console Operator Rights
0x96	Server Out Of Memory
0xFB	Invalid Parameters
0xFF	No Response From Server

See Appendix B for a listing of possible NetWare errors and a description of the four bytes in NWErrno.

Description

This server will check for any open files and will not go down unless you set the force flag to 0xFF, in which case all unfinished transactions will be backed out and all open files will be closed. The operating system will then be shut down and must be re-booted or brought up from the command line.

NWEnableServerPlatformLogin

This function enables clients to log in to the specified server.

Synopsis

```
#include "nwapi.h"

int                     ccode;
uint16                  serverConnID;

ccode=NWEnableServerPlatformLogin( serverConnID );
```

Input

serverConnID passes the file server connection ID.

Output

None.

Return Values

0	Successful.
-1	Unsuccessful. One of the following error codes is placed in NWErrno:

0xC6	No Console Operator Rights
0x96	Server Out Of Memory
0xFB	Invalid Parameters
0xFF	No Response From Server

See Appendix B for a listing of possible NetWare errors and a description of the four bytes in NWErrno.

Description

This function enables client login. If clients are already logged in when this function call is made, there will be no interruption of service to those clients.

See Also

NWDisableServerPlatformLogin

NWGetDiskUtilization

This function call returns information about the total disk usage of a specified client.

Synopsis

```
#include "nwapi.h"

int       ccode;
uint16    serverConnID;
uint8     volNumber;
uint32    trusteeID;
uint16    dirCount;
uint16    fileCount;
uint16    blockCount;

ccode=NWGetDiskUtilization( serverConnID, volNumber, trusteeID, &dirCount, &fileCount, &blockCount );
```

Input

serverConnID passes the file server connection ID.

volNumber passes the number of the volume being checked.

trusteeID passes the client trustee ID (objectID of the trustee).

dirCount passes a pointer to the space allocated for the directory count.

fileCount passes a pointer to the space allocated for the file count.

blockCount passes a pointer to the space allocated for the cluster count.

Output

dirCount receives the number of directories owned by the trustee in the specified volume.

fileCount receives the number of files in the specified volume owned by the trustee.

blockCount receives the number of blocks used in the specified volume by the trustee.

Return Values

0	Successful.
-1	Unsuccessful. One of the following error codes is placed in NWErrno:

0xC6	No Console Operator Rights
0x96	Server Out Of Memory
0xFB	Invalid Parameters
0xFF	No Response From Server

See Appendix B for a listing of possible NetWare errors and a description of the four bytes in NWErrno.

Description

This function returns disk utilization information about a specified client (or trustee) based on their object ID number. NetWare blocks are usually 4K, but can be configured otherwise when the file server is initially configured. The NWGetVolInfoWithHandle (in File Services) returns exact information on the actual size of blocks on the given file server.

Notes

This call is not valid for NetWare for UNIX servers. NetWare for UNIX servers do not maintain this information on a per-client (objectID) basis.

See Also

NWGetVolInfoWithHandle

NWGetServerPlatformDateAndTime

This function returns the network date and time maintained on the specified file server.

Synopsis

```
#include "nwapi.h"

int                                 ccode;
uint16                              serverConnID;
NWServerPlatformDateAndTime_t       dateAndTime;

ccode=NWGetServerPlatformDateAndTime( serverConnID,
&dateAndTime );
```

Input

serverConnID passes the file server connection ID.

dateAndTime passes a pointer to the structure allocated for the network date and time. (See "Description" on the next page and Appendix A , ªNWServerPlatformDateAndTime_t Structure.º)

Output

dateAndTime receives network date and time. (See "Description" on the next page and Appendix A, ªNWServerPlatformDateAndTime_t Structure.º)

Return Values

0	Successful.
-1	Unsuccessful. One of the following error codes is placed in NWErrno:

0xC6	No Console Operator Rights
0x96	Server Out Of Memory
0xFB	Invalid Parameters
0xFF	No Response From Server

See Appendix B for a listing of possible NetWare errors and a description of the four bytes in NWErrno.

Description

The NWServerPlatformDateAndTime_t structure is as follows:

```
typedef struct {
uint8 year        (0 through 99; for example: 82=1982; )
uint8 month       (1 through 12)
uint8 day         (1 through 31)
uint8 hour        (0 through 23)
uint8 minute      (0 through 59)
uint8 second      (0 through 59)
uint8 dayOfWeek                    (0 through 6, 0 = Sunday)
} NWServerPlatformDateAndTime_t;
```

Notes

Date and time are not automatically synchronized across an internetwork.

If the year is less than 82, the year is considered to be in the 21st century.

See Also

NWSetServerPlatformDateAndTime

NWGetServerPlatformDescriptionStrings

This function returns descriptive information about a file server.

Synopsis

```
#include "nwapi.h"

int                                ccode;
uint16                             serverConnID;
NWDescriptionStrings_t             strings;

ccode=NWGetServerPlatformDescriptionStrings( serverConnID, &strings );
```

Input

serverConnID passes the file server connection ID.

strings passes a pointer to the structure allocated for the file server description strings. (See "Description" below and Appendix A,
ªNWDescriptionStrings_t Structure.º)

Output

strings receives the file server description strings. (See "Description" below and Appendix A, ªNWDescriptionStrings_t Structure.º)

Return Values

0	Successful.
-1	Unsuccessful. One of the following error codes is placed in NWErrno:

0xC6	No Console Operator Rights
0x96	Server Out Of Memory
0xFB	Invalid Parameters
0xFF	No Response From Server

See Appendix B for a listing of possible NetWare errors and a description of the four bytes in NWErrno.

Description

The NWDescriptionStrings_t structure is as follows:

```
typedef struct {
        char   companyName[ NWMAX_COMPANY_NAME_LENGTH ];
        char   revisionDescription[ NWMAX_DESCRIPTION_LENGTH ];
        char   revisionDate[ NWMAX_DATE_LENGTH ];
        char   copyrightNotice[ NWMAX_COPYRIGHT_NOTICE_LENGTH ];
} NWDescriptionStrings_t;
```

companyName receives the name of the company that is providing this version of NetWare.

revisionDescription receives the NetWare version and revision description string.

revisionDate receives the revision date in the form 02/15/1988.

copyrightNotice passes a pointer to the string allocated for the copyright notice.

Notes

The requesting workstation must be attached to the file server. Console operator rights are not required to perform this function.

NWGetServerPlatformInformation

This function obtains information about the specified file server.

Synopsis

```
#include "nwapi.h"

int                         ccode;
uint16                      serverConnID;
NWServerPlatformInfo_t      serverInfo;

ccode=NWGetServerPlatformInformation( serverConnID,   &serverInfo );
```

Input

serverConnID passes the file server connection ID.

serverInfo passes a pointer to the structure allocated for the server information. (See "Description" below and Appendix A, ªNWServerPlatformInfo_t Structure.º)

Output

serverInfo receives the server information. (See "Description" below and Appendix A, ªNWServerPlatformInfo_t Structure.º)

Return Values

0	Successful.
-1	Unsuccessful. One of the following error codes is placed in NWErrno:

0xC6	No Console Operator Rights
0x96	Server Out Of Memory
0xFB	Invalid Parameters
0xFF	No Response From Server

See Appendix B for a listing of possible NetWare errors and a description of the four bytes in NWErrno.

Description

This routine optionally returns several items of information about a file server based on a specified file server connection ID. If a certain item is not wanted, a NULL parameter can be substituted in place of the unwanted parameter. However, all parameter positions must be occupied.

The NWServerPlatformInfo_t structure is as follows:

```
typedef struct {
        uint16          majorVersion;
        uint16          minorVersion;
        uint16          revision;
        uint16          SFTLevel;
        uint16          TTSLevel;
        uint16          accountingVersion;
        uint16          VAPVersion;
        uint16          queueingVersion;
        uint16          printServerVersion;
        uint16          virtualConsoleVersion;
        uint16          securityRestrictionLevel;
        uint16          internetBridgeSupport;
        uint16          maxClientConnSupported;
        uint16          clientConnInUse;
        uint16          peakClientConnUsed;
        uint16          maxVolumes;
        char            serverName[ NWMAX_SERVER_NAME_LENGTH ];
} NWServerPlatformInfo_t;
```

See Also

NWGetServerPlatformDescriptionStrings

NWGetServerPlatformLoginStatus

This function gets the status of the server login-enabled or disabled.

Synopsis

```
#include "nwapi.h"

int             ccode;
uint16          serverConnID;
```

```
uint8                   userLoginAllowed;

ccode=NWGetServerPlatformLoginStatus( serverConnID,
&userLoginAllowed );
```

Input

serverConnID passes the file server connection ID.

userLoginAllowed passes a pointer to the space allocated for the status of user login.

Output

userLoginAllowed receives the status of user login:

0 = User Login Disabled
Non-zero = User Login Enabled

Return Values

0	Successful.	
-1	Unsuccessful.	One of the following error codes is placed in NWErrno:
	0xC6	No Console Operator Rights
	0x96	Server Out Of Memory
	0xFB	Invalid Parameters
	0xFF	No Response From Server

See Appendix B for a listing of possible NetWare errors and a description of the four bytes in NWErrno.

Description

The userLoginAllowed parameter receives a non-zero value if user login is enabled, and a 0 if user login is disabled. You must be a supervisor or supervisor equivalent to make this call.

See Also

NWEnableServerPlatformLogin
NWDisableServerPlatformLogin

NWGetServerPlatformName

This function gets the name of the server platform with the connection ID.

Synopsis

```
#include "nwapi.h"

int                     ccode;
uint16                  serverConnID;
char                    serverPlatformName[NWMAX_SERVER_
                            NAME_LENGTH];

ccode=NWGetServerPlatformName( serverConnID, serverPlatformName );
```

Input

serverConnID passes the file server connection ID.

serverPlatformName passes a pointer to the string allocated for the server name.

Output

serverPlatformName receives the server name.

Return Values

0	Successful.
-1	Unsuccessful. One of the following error codes is placed in NWErrno:

0xFB	Invalid Parameters
0xF8	Not Attached To Server

See Appendix B for a listing of possible NetWare errors and a description of the four bytes in NWErrno.

Description

This call accesses the connection tables maintained by the APIs and returns the name of the server attached to with NWAttachToServerPlatform.

See Also

NWAttachToServerPlatform

NWIsNetWare386

This function checks whether a connected file server is running NetWare v3.*x*.

Synopsis

#define "nwapi.h"

NWBoolean_ts	ccode;
uint16	serverConnID;

ccode=**NWIsNetWare386**(serverConnID);

Input

serverConnID passes the file server connection ID.

Output

None.

Return Values

1	Server is running NetWare v3.*x*
0	Server is not running NetWare v3.*x*

Description

NetWare for UNIX corresponds to NetWare v3.*x*.

NWSetServerPlatformDateAndTime

This function sets the network date and time on the specified file server.

Synopsis

#include ªnwapi.hº

```
int                                 ccode;
uint16                              serverConnID;
NWServerPlatformDateAndTime_t       dateAndTime;

ccode=NWSetServerPlatformDateAndTime( serverConnID, &dateAndTime );
```

Input

serverConnID passes the file server connection ID.

dateAndTime passes a pointer to the structure allocated for the network date and time. (See ªDescriptionº on the next page and Appendix A, ªNWServerPlatformDateAndTime_t Structure.º)

Output

None.

Return Values

0	Successful.
-1	Unsuccessful. One of the following error codes is placed in NWErrno:

0xC6	No Console Operator Rights
0x96	Server Out Of Memory
0xFB	Invalid Parameters
0xFF	No Response From Server

See Appendix B for a listing of possible NetWare errors and a description of the four bytes in NWErrno.

Description

The NWServerPlatformDateAndTime_t structure is as follows:

```
typedef struct {
        uint8 year          (0 through 99; for example: 82=1982; )
        uint8 month         (1 through 12)
        uint8 day           (1 through 31)
        uint8 hour          (0 through 23)
        uint8 minute        (0 through 59)
        uint8 second        (0 through 59)
        uint8 dayOfWeek                 (0 through 6, 0 = Sunday)
} NWServerPlatformDateAndTime_t;
```

Notes

Date and time are not automatically synchronized across an internetwork.

If the year is less than 82, the year is considered to be in the 21st century.

This call is not valid for NetWare for UNIX servers. If the system date and time need to be changed, the host administrator should be contacted.

See Also

NWGetServerPlatformDateAndTime