

Login Service Group

Login Overview

Login: Guides

Login Extension: Guides

Login Service Group

Login

Login: Guides

Login: Task Guide

Login allows you to login to a network. The following topics explain Login and the typical tasks it allows you to perform.

Accessing a Network:

Logging In To a Network

Login Functions and Structures:

Login: Functions

Login: Structures

Parent Topic:

Login Overview

Related Topics:

Login: Concept Guide

Login: Concept Guide

The following topics provide additional information to help you understand *Login*.

Network Access:

NDS Login vs. Bindery Login

Login Functions and Structures:

Login: Functions

Login: Structures

Parent Topic:

Login Overview

Related Topics:

Login: Task Guide

Login: Tasks

Logging In To a Network

The procedure for logging in to a network is as follows:

1. **Initialize Login.** Call the `NWLoginInit` function to initialize run-time libraries and allocate appropriate resources.
2. **Login.** Call `NWLogin` to log directly into the network (you must supply IO routines). If you have no IO routines or you need the user to supply some information necessary for login, call `NWLoginUI`. See also `NWLGBringLoginToFront`.
3. **Terminate Login.** Call `NWLoginTerm` to free resources allocated by `NWLoginInit`.

Parent Topic:

Login: Task Guide

Login: Concepts

NDS Login vs. Bindery Login

NDS is a relational database that is distributed across your entire network. NDS provides users with global access to all network resources to which they have been given rights, regardless of where they are physically located. When users login to an NDS based network, they login to the network and specify where they exist in the Directory tree (context). NDS replaces the bindery.

The bindery is the system database used in earlier versions of NetWare. Each server in a bindery-based network maintains its own independent database. When users login to a bindery-based network, they login to a particular server.

Use the NWLGStartInfo structure fields to specify which type of login to perform.

Parent Topic:

Login: Concept Guide

Related Topics:

NDS/Bindery Overview

Login: Functions

NWLGBringLoginToFront

Forces the user interface dialog to be the top window

NetWare Server: 3.x, 4.x

Platform: Windows* 3.1, Windows NT*, Windows*95

Service: Login

Syntax

```
#include <nwlogin.h>

(nbool) NWLGBringLoginToFront (
    void);
```

Return Values

N_TRUE	Successful
N_FALSE	Not successful

Remarks

If the **NWLoginUI** function fails and returns **NWLG_RETRY**, it could be that the user interface is already open but not visible to the user. Call **NWLGBringLoginToFront** to force the user interface to be the top window if it is active.

If the **NWLoginUI** function fails and returns **NWLG_RETRY**, but **NWLGBringLoginToFront** succeeds, call the **NWLoginUI** function again.

NCP Calls

None

See Also

NWLoginUI

NWLogin

Logs in to a network server using supplied user information

NetWare Server: 3.x, 4.x

Platform: Windows* 3.1, Windows NT*, Windows*95

Service: Login

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (NWCCODE) NWLogin (
    pNWLGAccessRec    pAccess,
    pnstr              cmdLine,
    pnstr              password,
    pNWLGStartInfo    infoStruct);
```

Parameters

pAccess

(IN) Points to the NWLGAccessRec structure.

cmdLine

(IN) Points to the string of command line parameters to give login (optional).

password

(IN) Points to the password string used to login to a network server (optional).

infoStruct

(IN) Points to the NWLGStartInfo structure containing values used to complete a network login.

Return Values

0	NWLG_OK or successful
non-zero	NWLG_FAIL or not successful
non-zero	NWLG_ABORT

Remarks

The *infoStruct* parameter contains values for the user name, password, NDS context, server name, tree name, and miscellaneous login flags.

Login Service Group

NCP Calls

None

See Also

NWLoginInit, NWLoginTerm

NWLoginInit

Initializes runtime libraries for compatibility issues and allocates appropriate resources

NetWare Server: 3.x, 4.x

Platform: Windows* 3.1, Windows NT*, Windows*95

Service: Login

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (NWCCODE) NWLoginInit (
    pNWLGAccessRec    pAccess,
    pNWVersion         pCompiledVersion,
    pNWVersion         pRuntimeVersion);
```

Parameters

pAccess

(IN) Points to the NWLGAccessRec structure.

pCompiledVersion

(IN) Points to the version ID for compiled code (obtained from the NWLogin.h file at compile time).

pRuntimeVersion

(OUT) Points to the runtime version of the login function libraries for comparison and compatibility issues.

Return Values

0	NWLG_OK or successful
non-zero	NWLG_RETRY or not successful
non-zero	NWLG_ABORT

Remarks

NWLoginInit must be called to initialize and allocate resources before any other login function can be called.

The NWLGAccessRec structure must be set up by calling **NWLoginInit** which establishes the 'state' or 'context' from where the login is initiated.

Login Service Group

NWLG_RETRY indicates there is already a login process running.

NWLoginInit is internally called by the NWLoginUI function.

NCP Calls

None

See Also

NWLogin, NWLoginTerm

NWLoginTerm

deallocates resources set by the **NWLoginInit** function

NetWare Server: 3.x, 4.x

Platform: Windows* 3.1, Windows NT*, Windows*95

Service: Login

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (NWCCODE) NWLoginTerm (
    pNWLGAccessRec    pAccess,
    nflag32            flags);
```

Parameters

pAccess

(IN) Points to the NWLGAccessRec structure.

flags

(IN) Reserved; pass in NULL.

Return Values

NWLG_OK	successful
other	fail

NCP Calls

None

See Also

NWLoginInit

NWLoginUI

sets up and executes the GUI interface dialogue to allow user to enter the necessary information to complete a login to a network server

NetWare Server: 3.x, 4.x

Platform: Windows* 3.1, Windows NT*, Windows*95

Service: Login

Syntax

```
#include <nwlgui.h>

N_EXTERN_LIBRARY (NWCCODE) NWLoginUI (
    pnstr          lpszCmdLine,
    pNWLGStartInfo startInfo,
    pNWLGUIStartInfo uiInfo);
```

Parameters

lpszCmdLine

(IN) Points to any command line parameters used during login such as server name, user name, etc. (optional).

startInfo

(IN) Points to the NWLGStartInfo structure that is used during login (optional).

uiInfo

(IN) Points to the NWLGUIStartInfo structure containing the switches to control the display and behavior of the GUI dialogue (optional).

Return Values

NWLG_OK	successful
other	failure

Remarks

If **NWLoginUI** fails, it could be that the user interface is already open but not visible to the user. Call the **NWLGBringLoginToFront** function to force the user interface to be the top window if it is active.

If the **NWLoginUI** function fails, but the **NWLGBringLoginToFront** function succeeds, call the **NWLoginUI** function again.

Login Service Group

NWLoginUI internally calls the **NWLoginInit**, **NWLogin**, and **NWLoginTerm** functions.

NCP Calls

None

See Also

NWLGBringLoginToFront

NWLoginVersion

Initializes the NWVersion structure to the header file version used at compile time

NetWare Server: 4.x

Platform: Windows* 3.1, Windows NT*, Windows*95

Service: Login

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (void) NWLoginVersion (
    pNWVersion    pRuntimeVersion);
```

Parameters

pRuntimeVersion

(OUT) Points to the version values of the header file.

Return Values

None

Remarks

NWLoginVersion is used during login for compatibility and features capability of the Login Service functions.

NCP Calls

None

Login: Structures

NWLGAccessRec

Identifies the user to subsequent Login Services functions

Service: Login

Defined In: nwlogin.h

Structure

```
typedef struct
{
    nid            id;
    NWCCODE        status;
    NWRCODE        errCode,
    pEvtHndlr      pEventHandler;
    pEvtHndlr      pExceptionHandler;
    pIOHndlr       pIOHandler;
    nptr           pUserData;
} NWLGAccessRec;
```

Fields

id

Specifies the event handlers unique ID assigned by the **NWLoginInit** function.

status

Specifies the status of low level and support functions.

errCode

Specifies additional error code information.

pEventHandler

Points to the callback function of the event handler (default or a user-defined/registered extension).

pExceptionHandler

Points to the callback function of the exception handler.

pIOHandler

Points to the callback function of the IO event handler.

pUserData

Points to the defined data pointer (optional).

Remarks

The *status* field can have the following values:

0 NWLG_OK

Login Service Group

- 1 NWLG_RETRY
- 2 NWLG_ABORT
- 3 NWLG_FAIL
- 4 NWLG_IGNORE
- 5 NWLG_STOP_CYCLE
- 6 NWLG_CANCEL
- 7 NWLG_SHUT_DOWN
- 8 NWLG_SHUT_DOWN_RESTART

NWLGStartInfo

Defines user overrides for Login functions

Service: Login

Defined In: nwlogin.h

Structure

```
typedef struct
{
    NWVersion                APIVersion;
    pNWLGStartInfoData       dataList;
    nuint32                  reserved2;
    nbool                    useStartInfo;
    nint                     serverLen;
    pnstr                    server;
    nint                     treeLen;
    pnstr                    tree;
    nint                     userLen;
    pnstr                    user;
    nint                     scriptUserLen;
    pnstr                    scriptUser;
    nint                     passwordLen;
    pnstr                    password;
    nint                     profileLen;
    pnstr                    profile;
    nint                     scriptFileLen;
    pnstr                    scriptFile;
    nint                     contextLen;
    pnstr                    context;
    nint                     bannerInfoLen;
    pnstr                    bannerInfo;
    nint                     swapPathLen;
    pnstr                    swapPath;
    pNWLGStartInfoCmdArgs    cmdLine;
    nbool                    noBanner;
    nbool                    bindery;
    nbool                    clearConns;
    nbool                    clearScreen;
    nbool                    singleTree;
    nbool                    restorePerm;
    nbool                    runScripts;
    nint                     noSwap;
    nint                     debug;
    nptr                     pData;
    nint                     restartMode;
    nbool                    disableLoginExt;
    HWND                     hwndParent;
    nuint32                  NWMLGFlags;
```

```
    nuint32                callingModule;  
    pnstr                  providerName;  
    pEvtHndlr              providerCallback;  
    pEvtHndlr              pReserved1;  
    pEvtHndlr              pReserved2;  
    pEvtHndlr              pReserved3;  
} NWLGStartInfo;
```

Fields

APIVersion

Specifies the version level of the Nwlogin.h file used at compile time.

dataList

Points to the linked list of the user-supplied NWLGStartInfoData structure or NULL.

reserved2

Is reserved; pass in NULL.

useStartInfo

Specifies whether to use the start information in the *dataList* field or in the *cmdLine* field:

N_TRUE Use information in structure

N_FALSE Use information in command line

serverLen

Specifies the length of the *server* field.

server

Points to the string name of the server to login.

treeLen

Specifies the length of the *tree* field.

tree

Points to the string tree name if logging into a tree instead of a specific server.

userLen

Specifies the length of the *user* field.

user

Points to the real login user name (name only, no NDS context).

scriptUserLen

Specifies the length of the *scriptUser* field.

scriptUser

Points to the user name to use when executing scripts.

passwordLen

Specifies the length of the *password* field.

password

Points to the password to use when logging in.

profileLen

Specifies the length of the *profile* field.

profile

Points to the profile name.

scriptFileLen

Specifies the length of the *scriptFile* field.

scriptFile

Points to the override script file or object name.

contextLen

Specifies the length of the *context* field.

context

Points to the full text context without a leading period ('.').

bannerInfoLen

Specifies the length of the *bannerInfo* field for DOS (not used).

bannerInfo

Points to the name of the banner file for DOS (not used).

swapPathLen

Specifies the length of the *swapPath* field for DOS (not used).

swapPath

Points to the name of the swap path for script external commands (DOS only).

cmdLine

Points to the linked list of the NWLGStartInfoCmdArgs structure command line arguments (%2 %3 %4...%MAX_SCRIPT_ARGS+2).

noBanner

Specifies whether to use a banner:

N_TRUE Display a banner

N_FALSE Do not display a banner

bindery

Specifies whether to force bindery connections:

N_TRUE Force bindery connections

N_FALSE Do not force bindery connections

clearConns

Specifies whether to clear connections:

N_TRUE Clear current logged in connections

N_FALSE Do not clear current logged in connections (same as the DOS `/NS' command flag).

clearScreen

Specifies whether to clear the screen (for DOS only).

singleTree

Specifies whether to allow multi-tree login:

N_TRUE Do not allow multi-tree login

N_FALSE Allow multi-tree login

restorePerm

Specifies whether to restore permanent connections (Windows 3.1 only):

N_TRUE Restore all permanent connections

N_FALSE Do not restore all permanent connections

runScripts

Specifies whether to run all specified scripts during login and /NA:

N_TRUE Run all specified scripts during login

N_FALSE Do not run all specified scripts during login

noSwap

Specifies the swap flag (DOS only).

debug

Specifies the scripting debug level.

pData

Points to additional data for the user. (Login does not touch this pointer.)

restartMode

Specifies the restart mode (NT only):

0 Full Login

1 Authenticate only

2 Restart at script NWLG_RESTART...

disableLoginExt

Specifies whether to allow login extensions:

N_TRUE Do not allow login extensions

N_FALSE Allow login extensions

hwndParent

Specifies the HWND parent window for the GUI login to use, usually WindowDeskTop.

NWLGFlags

Is reserved; pass in NULL.

callingModule

Login Service Group

Is reserved; pass in NULL.

providerName

Is reserved; pass in NULL.

providerCallBack

Is reserved; pass in NULL.

pReserved1

Is reserved; pass in NULL.

pReserved2

Is reserved; pass in NULL.

pReserved3

Is reserved; pass in NULL.

Remarks

If the *singleTree* parameter is set to N_TRUE, the GUI will override the command to allow multi-tree logins where possible.

NWLGStartInfoCmdArgs

Contains the linked list of arguments to use in Login %2, %3, etc.

Service: Login

Defined In: nwlogin.h

Structure

```
typedef struct tagNWLGStartInfoCmdArgs
{
    pustr                                arg;
    struct tagNWLGStartInfoCmdArgs    *next;
} NWLGStartInfoCmdArgs;
```

Fields

arg

Points to the command line arguments in %2, %3, etc. in the linked list.

next

Points to the next iteration of theNWLGStartInfoCmdArgs structure.

NWLGStartInfoData

Contains the generic list of data structure pointers to assist Login

Service: Login

Defined In: nwlogin.h

Structure

```
typedef struct tagNWLGStartInfoData
{
    uint32_t          id;
    struct tagNWLGStartInfoData *next;
    nptr              data;
} NWLGStartInfoData;
```

Fields

id

Specifies the type of data pointer in the *data* field.

next

Points to the next iteration of the NWLGStartInfoData structure.

data

Points to the data structure (could be the command line arguments or the NWLGStartInfo structure).

NWLGStringElement

Contains a linked list of strings used in the NWLGUIStartInfo structure

Service: Login

Defined In: nwlogin.h

Structure

```
typedef struct tagNWLGStringElement
{
    pnstr                text;
    struct tagNWLGStringElement *next;
} NWLGStringElement;
```

Fields

text

Points to the string of text.

next

Points to the next iteration of the NWLGStringElement structure.

NWLGUIStartInfo

Contains the overrides for the user interface dialog used in the **NWLLoginUI** function

Service: Login

Defined In: nwlgui.h

Structure

```
typedef struct tagNWLGUIStartInfo
{
    NWLG_USAGE_FLAG    skipUI;
    NWLG_USAGE_FLAG    autoClose;
    NWLG_USAGE_FLAG    saveOnExit;
    NWLG_USAGE_FLAG    treeLogin;
    NWLG_USAGE_FLAG    notebookTabs;
    HANDLE             hEvent;
    NWLG_USAGE_FLAG    binderyConnOption;
    NWLG_USAGE_FLAG    clearConnsOption;
    NWLG_USAGE_FLAG    runScriptsOption;
    NWVersion           APIVersion;
    NWLGAccessRec       access;
    nptr               pSystemData;
    nptr               pData;
    NWLG_USAGE_FLAG    displayResults;
    pNWLGStringElement treeHistoryList;
    pNWLGStringElement serverHistoryList;
    pNWLGStringElement contextHistoryList;
    pNWLGStringElement scriptHistoryList;
    pNWLGStringElement profileHistoryList;
} NWLGUIStartInfo;
```

Fields

skipUI

Specifies whether the dialog window comes up.

autoClose

Specifies whether the results windows closes automatically when finished.

saveOnExit

Specifies whether to save the options to the registry.

treeLogin

Specifies whether this is a tree or server login.

notebookTabs

Specifies which user interface tabs are used in the dialog box.

hEvent

Is reserved; the GUI Login will set *hEvent* during processing.

binderyConnOption

Specifies the initial state of the bindery connection check box.

clearConnsOption

Specifies the initial state of the clear connections check box.

runScriptsOption

Specifies the initial state of the run scripts check box.

APIVersion

Specifies which version of the function the caller was using (obtained from the NWlogin.h file when compiled).

access

Specifies the NWLGAccessRec structure which identifies the caller to the function set.

pSystemData

Is reserved; pass NULL.

pData

Is reserved; pass NULL.

displayResults

Specifies whether to display the GUI results window.

treeHistoryList

Points to the NWLGStringElement structure containing the string list of the most recently used tree profiles used as saved in the registry.

serverHistoryList

Points to the NWLGStringElement structure containing the string list of the most recently used server profiles used as saved in the registry.

contextHistoryList

Points to the NWLGStringElement structure containing the string list of the most recently used context profiles used as saved in the registry.

scriptHistoryList

Points to the NWLGStringElement structure containing the string list of the most recently used script profiles used as saved in the registry.

profileHistoryList

Points to the NWLGStringElement structure containing the string list of the most recently used profiles used as saved in the registry.

Remarks

The values for all NWLG_USAGE_FLAGS are:

Login Service Group

NWLG_OPTION_SAVED Save flag in the registry
NWLG_OPTION_ON Turn on the flag
NWLG_OPTION_OFF Turn off the flag

The **HistoryList* parameters are used in the drop-down lists of the GUI dialog.

Login: Messages

NWLG_AVAILABLE_DRIVE

Is a login message generated by Login functions and registered Login Extensions

NetWare Server: 3.x, 4.x

Platform: Windows* 3.1, Windows NT*, Windows*95

Service: Login

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGEVTSend (
    nint                deliveryType,
    pNWLGAccessRec      pAccess,
    nint                NWLG_AVAILABLE_DRIVE
    nint                eventType,
    nint                eventSubType,
    nparam              param1,
    nparam              param2,
    nflags32            flags);
```

Parameters

deliveryType

(IN) Specifies the type of processing to be completed on the event.

pAccess

(IN) Points to the NWLGAccessRec structure.

eventType

Is unused (pass zero).

eventSubType

Is unused (pass zero).

param1

Specifies the nth network drive.

param2

None.

flags

None.

NWLG_BIND_ATTACH

Is a Login Extension message returned from Login Extension functions

NetWare Server: 3.x, 4.x

Platform: Windows* 3.1, Windows NT*, Windows*95

Service: Login

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGEVTSend (
    nint                deliveryType,
    pNWLGAccessRec      pAccess,
    nint                NWLG_BIND_ATTACH
    nint                eventType,
    nint                eventSubType,
    nparam              param1,
    nparam              param2,
    nflags32            flags);
```

Parameters

deliveryType

(IN) Specifies the type of processing to be completed on the event.

pAccess

(IN) Points to the NWLGAccessRec structure.

eventType

Is unused (pass zero).

eventSubType

Is unused (pass zero).

param1

Points to the NWLGUserID structure.

param2

None.

flags

None.

NWLG_BIND_SCRIPT_SERVER

Is a Login Extension message returned from Login Extension functions

NetWare Server: 3.x, 4.x

Platform: Windows* 3.1, Windows NT*, Windows*95

Service: Login

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGEVTSend (
    nint          deliveryType,
    pNWLGAccessRec pAccess,
    nint          NWLG_BIND_SCRIPT_SERVER
    nint          eventType,
    nint          eventSubType,
    nparam        param1,
    nparam        param2,
    nflags32      flags);
```

Parameters

deliveryType

(IN) Specifies the type of processing to be completed on the event.

pAccess

(IN) Points to the NWLGAccessRec structure.

eventType

Is unused (pass zero).

eventSubType

Is unused (pass zero).

param1

Points to a server name string.

param2

Points to a user name string.

flags

None.

NWLG_CAPTURE_PRINTER

Is a Login Extension message returned from Login Extension functions

NetWare Server: 3.x, 4.x

Platform: Windows* 3.1, Windows NT*, Windows*95

Service: Login

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGEVTSend (
    nint          deliveryType,
    pNWLGAcessRec pAccess,
    nint          NWLG_CAPTURE_PRINTER
    nint          eventType,
    nint          eventSubType,
    nparam        param1,
    nparam        param2,
    nflags32      flags);
```

Parameters

deliveryType

(IN) Specifies the type of processing to be completed on the event.

pAccess

(IN) Points to the NWLGAcessRec structure.

eventType

Is unused (pass zero).

eventSubType

Is unused (pass zero).

param1

Points to a capture command.

param2

Specifies capture command arguments.

flags

None.

NWLG_CLEAR_SCREEN

Is a Login Extension message returned from Login Extension functions

NetWare Server: 3.x, 4.x

Platform: Windows* 3.1, Windows NT*, Windows*95

Service: Login

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGEVTSend (
    nint          deliveryType,
    pNWLGAccessRec pAccess,
    nint          NWLG_CLEAR_SCREEN
    nint          eventType,
    nint          eventSubType,
    nparam        param1,
    nparam        param2,
    nflags32      flags);
```

Parameters

deliveryType

(IN) Specifies the type of processing to be completed on the event.

pAccess

(IN) Points to the NWLGAccessRec structure.

eventType

Is unused (pass zero).

eventSubType

Is unused (pass zero).

param1

None.

param2

None.

flags

None.

Remarks

This is a null event. (It performs no action on the GUI as it is a carry-over from DOS to maintain compatibility.)

NWLG_CMD_LINE_ARG_DONE

Is a Login Extension message returned from Login Extension functions

NetWare Server: 3.x, 4.x

Platform: Windows* 3.1, Windows NT*, Windows*95

Service: Login

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGEVTSend (
    nint          deliveryType,
    pNWLGAcessRec pAccess,
    nint          NWLG_CMD_LINE_ARG_DONE
    nint          eventType,
    nint          eventSubType,
    nparam        param1,
    nparam        param2,
    nflags32      flags);
```

Parameters

deliveryType

(IN) Specifies the type of processing to be completed on the event.

pAccess

(IN) Points to the NWLGAcessRec structure.

eventType

Is unused (pass zero).

eventSubType

Is unused (pass zero).

param1

Specifies argc count.

param2

None.

flags

None.

NWLG_CMD_LINE_BIND_LOGIN

Is a Login Extension message returned from Login Extension functions

NetWare Server: 3.x, 4.x

Platform: Windows* 3.1, Windows NT*, Windows*95

Service: Login

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGEVTSend (
    nint          deliveryType,
    pNWLGAccessRec pAccess,
    nint          NWLG_CMD_LINE_BIND_LOGIN
    nint          eventType,
    nint          eventSubType,
    nparam        param1,
    nparam        param2,
    nflags32      flags);
```

Parameters

deliveryType

(IN) Specifies the type of processing to be completed on the event.

pAccess

(IN) Points to the NWLGAccessRec structure.

eventType

Is unused (pass zero).

eventSubType

Is unused (pass zero).

param1

None.

param2

None.

flags

None.

NWLG_CMD_LINE_HELP

Is a Login Extension message returned from Login Extension functions

NetWare Server: 3.x, 4.x

Platform: Windows* 3.1, Windows NT*, Windows*95

Service: Login

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGEVTSend (
    nint          deliveryType,
    pNWLGAccessRec pAccess,
    nint          NWLG_CMD_LINE_HELP
    nint          eventType,
    nint          eventSubType,
    nparam        param1,
    nparam        param2,
    nflags32      flags);
```

Parameters

deliveryType

(IN) Specifies the type of processing to be completed on the event.

pAccess

(IN) Points to the NWLGAccessRec structure.

eventType

Is unused (pass zero).

eventSubType

Is unused (pass zero).

param1

None.

param2

None.

flags

None.

NWLG_CMD_LINE_NS

Is a Login Extension message returned from Login Extension functions

NetWare Server: 3.x, 4.x

Platform: Windows* 3.1, Windows NT*, Windows*95

Service: Login

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGEVTSend (
    nint          deliveryType,
    pNWLGAcessRec pAccess,
    nint          NWLG_CMD_LINE_NS
    nint          eventType,
    nint          eventSubType,
    nparam        param1,
    nparam        param2,
    nflags32      flags);
```

Parameters

deliveryType

(IN) Specifies the type of processing to be completed on the event.

pAccess

(IN) Points to the NWLGAcessRec structure.

eventType

Is unused (pass zero).

eventSubType

Is unused (pass zero).

param1

None.

param2

None.

flags

None.

NWLG_CMD_LINE_SCRIPT_FILE

Is a Login Extension message returned from Login Extension functions

NetWare Server: 3.x, 4.x

Platform: Windows* 3.1, Windows NT*, Windows*95

Service: Login

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGEVTSend (
    nint          deliveryType,
    pNWLGAccessRec pAccess,
    nint          NWLG_CMD_LINE_SCRIPT_FILE
    nint          eventType,
    nint          eventSubType,
    nparam        param1,
    nparam        param2,
    nflags32      flags);
```

Parameters

deliveryType

(IN) Specifies the type of processing to be completed on the event.

pAccess

(IN) Points to the NWLGAccessRec structure.

eventType

Is unused (pass zero).

eventSubType

Is unused (pass zero).

param1

Points to a string.

param2

None.

flags

None.

NWLG_CMD_LINE_SERVICE

Is a Login Extension message returned from Login Extension functions

NetWare Server: 3.x, 4.x

Platform: Windows* 3.1, Windows NT*, Windows*95

Service: Login

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGEVTSend (
    nint          deliveryType,
    pNWLGAcessRec pAccess,
    nint          NWLG_CMD_LINE_SERVICE
    nint          eventType,
    nint          eventSubType,
    nparam        param1,
    nparam        param2,
    nflags32      flags);
```

Parameters

deliveryType

(IN) Specifies the type of processing to be completed on the event.

pAccess

(IN) Points to the NWLGAcessRec structure.

eventType

Is unused (pass zero).

eventSubType

Is unused (pass zero).

param1

Points to a tree or server name string.

param2

None.

flags

None.

NWLG_CMD_LINE_TREE

Is a Login Extension message returned from Login Extension functions

NetWare Server: 3.x, 4.x

Platform: Windows* 3.1, Windows NT*, Windows*95

Service: Login

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGEVTSend (
    nint          deliveryType,
    pNWLGAccessRec pAccess,
    nint          NWLG_CMD_LINE_TREE
    nint          eventType,
    nint          eventSubType,
    nparam        param1,
    nparam        param2,
    nflags32      flags);
```

Parameters

deliveryType

(IN) Specifies the type of processing to be completed on the event.

pAccess

(IN) Points to the NWLGAccessRec structure.

eventType

Is unused (pass zero).

eventSubType

Is unused (pass zero).

param1

None.

param2

None.

flags

None.

NWLG_CMD_LINE_USER

Is a Login Extension message returned from Login Extension functions

NetWare Server: 3.x, 4.x

Platform: Windows* 3.1, Windows NT*, Windows*95

Service: Login

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGEVTSend (
    nint          deliveryType,
    pNWLGAccessRec pAccess,
    nint          NWLG_CMD_LINE_USER
    nint          eventType,
    nint          eventSubType,
    nparam        param1,
    nparam        param2,
    nflags32      flags);
```

Parameters

deliveryType

(IN) Specifies the type of processing to be completed on the event.

pAccess

(IN) Points to the NWLGAccessRec structure.

eventType

Is unused (pass zero).

eventSubType

Is unused (pass zero).

param1

Points to a user name string.

param2

None.

flags

None.

NWLG_CONN_AUTH

Is a Login Extension message returned from Login Extension functions

NetWare Server: 3.x, 4.x

Platform: Windows* 3.1, Windows NT*, Windows*95

Service: Login

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGEVTSend (
    nint          deliveryType,
    pNWLGAccessRec pAccess,
    nint          NWLG_CONN_AUTH
    nint          eventType,
    nint          eventSubType,
    nparam        param1,
    nparam        param2,
    nflags32      flags);
```

Parameters

deliveryType

(IN) Specifies the type of processing to be completed on the event.

pAccess

(IN) Points to the NWLGAccessRec structure.

eventType

Is unused (pass zero).

eventSubType

Is unused (pass zero).

param1

Points to the NWLGUserID structure.

param2

Specifies the connection ID.

flags

None.

NWLG_CONN_GET

Is a Login Extension message returned from Login Extension functions

NetWare Server: 3.x, 4.x

Platform: Windows* 3.1, Windows NT*, Windows*95

Service: Login

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGEVTSend (
    nint          deliveryType,
    pNWLGAccessRec pAccess,
    nint          NWLG_CONN_GET
    nint          eventType,
    nint          eventSubType,
    nparam        param1,
    nparam        param2,
    nflags32      flags);
```

Parameters

deliveryType

(IN) Specifies the type of processing to be completed on the event.

pAccess

(IN) Points to the NWLGAccessRec structure.

eventType

Is unused (pass zero).

eventSubType

Is unused (pass zero).

param1

Points to the NWLGSrvConn structure.

param2

None.

flags

None.

NWLG_DCACHE_ADD

Is a Login Extension message returned from Login Extension functions

NetWare Server: 3.x, 4.x

Platform: Windows* 3.1, Windows NT*, Windows*95

Service: Login

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGEVTSend (
    nint          deliveryType,
    pNWLGAccessRec pAccess,
    nint          NWLG_DCACHE_ADD
    nint          eventType,
    nint          eventSubType,
    nparam        param1,
    nparam        param2,
    nflags32      flags);
```

Parameters

deliveryType

(IN) Specifies the type of processing to be completed on the event.

pAccess

(IN) Points to the NWLGAccessRec structure.

eventType

Is unused (pass zero).

eventSubType

Is unused (pass zero).

param1

None.

param2

None.

flags

None.

NWLG_DCACHE_FIND

Is a Login Extension message returned from Login Extension functions

NetWare Server: 3.x, 4.x

Platform: Windows* 3.1, Windows NT*, Windows*95

Service: Login

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGEVTSend (
    nint                deliveryType,
    pNWLGAccessRec      pAccess,
    nint                NWLG_DCACHE_FIND
    nint                eventType,
    nint                eventSubType,
    nparam              param1,
    nparam              param2,
    nflags32            flags);
```

Parameters

deliveryType

(IN) Specifies the type of processing to be completed on the event.

pAccess

(IN) Points to the NWLGAccessRec structure.

eventType

Is unused (pass zero).

eventSubType

Is unused (pass zero).

param1

None.

param2

None.

flags

None.

NWLG_DISP_BANNER

Is a Login Extension message returned from Login Extension functions

NetWare Server: 3.x, 4.x

Platform: Windows* 3.1, Windows NT*, Windows*95

Service: Login

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGEVTSend (
    nint                deliveryType,
    pNWLGAcessRec      pAccess,
    nint                NWLG_DISP_BANNER
    nint                eventType,
    nint                eventSubType,
    nparam              param1,
    nparam              param2,
    nflags32            flags);
```

Parameters

deliveryType

(IN) Specifies the type of processing to be completed on the event.

pAccess

(IN) Points to the NWLGAcessRec structure.

eventType

Is unused (pass zero).

eventSubType

Is unused (pass zero).

param1

None.

param2

None.

flags

None.

Remarks

This is a null event. (It performs no action on the GUI as it is a carry-over from DOS to maintain compatibility.)

NWLG_DISP_FILE

Is a Login Extension message returned from Login Extension functions

NetWare Server: 3.x, 4.x

Platform: Windows* 3.1, Windows NT*, Windows*95

Service: Login

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGEVTSend (
    nint          deliveryType,
    pNWLGAcessRec pAccess,
    nint          NWLG_DISP_FILE
    nint          eventType,
    nint          eventSubType,
    nparam        param1,
    nparam        param2,
    nflags32      flags);
```

Parameters

deliveryType

(IN) Specifies the type of processing to be completed on the event.

pAccess

(IN) Points to the NWLGAcessRec structure.

eventType

Is unused (pass zero).

eventSubType

Is unused (pass zero).

param1

Points to a directory path/file string

param2

Points to a script line.

flags

Specifies a filter.

NWLG_DISP_LINE

Is a Login Extension message returned from Login Extension functions

NetWare Server: 3.x, 4.x

Platform: Windows* 3.1, Windows NT*, Windows*95

Service: Login

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGEVTSend (
    nint          deliveryType,
    pNWLGAccessRec pAccess,
    nint          NWLG_DISP_LINE
    nint          eventType,
    nint          eventSubType,
    nparam        param1,
    nparam        param2,
    nflags32      flags);
```

Parameters

deliveryType

(IN) Specifies the type of processing to be completed on the event.

pAccess

(IN) Points to the NWLGAccessRec structure.

eventType

Is unused (pass zero).

eventSubType

Is unused (pass zero).

param1

Points to a line to display string.

param2

None.

flags

None.

NWLG_DISP_LTIME

Is a login message generated by Login functions and registered Login Extensions

NetWare Server: 3.x, 4.x

Platform: Windows* 3.1, Windows NT*, Windows*95

Service: Login

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGEVTSend (
    nint                deliveryType,
    pNWLGAcessRec      pAccess,
    nint                NWLG_DISP_LTIME
    nint                eventType,
    nint                eventSubType,
    nparam              param1,
    nparam              param2,
    nflags32            flags);
```

Parameters

deliveryType

(IN) Specifies the type of processing to be completed on the event.

pAccess

(IN) Points to the NWLGAcessRec structure.

eventType

Is unused (pass zero).

eventSubType

Is unused (pass zero).

param1

None.

param2

None.

flags

None.

NWLG_DO_GOTO

Is a login message generated by Login functions and registered Login Extensions

NetWare Server: 3.x, 4.x

Platform: Windows* 3.1, Windows NT*, Windows*95

Service: Login

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGEVTSend (
    nint          deliveryType,
    pNWLGAccessRec pAccess,
    nint          NWLG_DO_GOTO
    nint          eventType,
    nint          eventSubType,
    nparam        param1,
    nparam        param2,
    nflags32      flags);
```

Parameters

deliveryType

(IN) Specifies the type of processing to be completed on the event.

pAccess

(IN) Points to the NWLGAccessRec structure.

eventType

Is unused (pass zero).

eventSubType

Is unused (pass zero).

param1

Points to to the NWLGScriptInfo structure.

param2

Points to to the original script line.

flags

Specifies the script ID.

NWLG_DOS_BREAK

Is a login message generated by Login functions and registered Login Extensions

NetWare Server: 3.x, 4.x

Platform: Windows* 3.1, Windows NT*, Windows*95

Service: Login

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGEVTSend (
    nint                deliveryType,
    pNWLGAccessRec      pAccess,
    nint                NWLG_DOS_BREAK
    nint                eventType,
    nint                eventSubType,
    nparam              param1,
    nparam              param2,
    nflags32            flags);
```

Parameters

deliveryType

(IN) Specifies the type of processing to be completed on the event.

pAccess

(IN) Points to the NWLGAccessRec structure.

eventType

Is unused (pass zero).

eventSubType

Is unused (pass zero).

param1

Specifies NWLG_ON or NWLG_OFF.

param2

None.

flags

None.

NWLG_DOS_COMSPEC

Is a login message generated by Login functions and registered Login Extensions

NetWare Server: 3.x, 4.x

Platform: Windows* 3.1, Windows NT*, Windows*95

Service: Login

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGEVTSend (
    nint                deliveryType,
    pNWLGAcessRec      pAccess,
    nint                NWLG_DOS_COMSPEC
    nint                eventType,
    nint                eventSubType,
    nparam              param1,
    nparam              param2,
    nflags32            flags);
```

Parameters

deliveryType

(IN) Specifies the type of processing to be completed on the event.

pAccess

(IN) Points to the NWLGAcessRec structure.

eventType

Is unused (pass zero).

eventSubType

Is unused (pass zero).

param1

Points to a directory path/filename for the command processor.

param2

Specifies the original script line for error display (if necessary).

flags

Specifies the search drive number *n network drive or drive letter.

Remarks

This is not available on Windows NT.

NWLG_DOS_PC_COMPAT

Is a login message generated by Login functions and registered Login Extensions

NetWare Server: 3.x, 4.x

Platform: Windows* 3.1, Windows NT*, Windows*95

Service: Login

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGEVTSend (
    nint                deliveryType,
    pNWLGAccessRec      pAccess,
    nint                NWLG_DOS_PC_COMPAT
    nint                eventType,
    nint                eventSubType,
    nparam              param1,
    nparam              param2,
    nflags32            flags);
```

Parameters

deliveryType

(IN) Specifies the type of processing to be completed on the event.

pAccess

(IN) Points to the NWLGAccessRec structure.

eventType

Is unused (pass zero).

eventSubType

Is unused (pass zero).

param1

None.

param2

None.

flags

None.

Remarks

This is a null event. (It performs no action on the GUI as it is a carry-over from DOS to maintain compatibility.)

Login Service Group

from DOS to maintain compatibility.)

NWLG_DOS_SWAP_PATH

Is a login message generated by Login functions and registered Login Extensions

NetWare Server: 3.x, 4.x

Platform: Windows* 3.1, Windows NT*, Windows*95

Service: Login

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGEVTSend (
    nint                deliveryType,
    pNWLGAccessRec      pAccess,
    nint                NWLG_DOS_SWAP_PATH
    nint                eventType,
    nint                eventSubType,
    nparam              param1,
    nparam              param2,
    nflags32            flags);
```

Parameters

deliveryType

(IN) Specifies the type of processing to be completed on the event.

pAccess

(IN) Points to the NWLGAccessRec structure.

eventType

Is unused (pass zero).

eventSubType

Is unused (pass zero).

param1

Points to a directory path string.

param2

None.

flags

None.

Remarks

This is a null event. (It performs no action on the GUI as it is a carry-over from DOS to maintain compatibility.)

Login Service Group

from DOS to maintain compatibility.)

NWLG_DOS_VERIFY

Is a login message generated by Login functions and registered Login Extensions

NetWare Server: 3.x, 4.x

Platform: Windows* 3.1, Windows NT*, Windows*95

Service: Login

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGEVTSend (
    nint                deliveryType,
    pNWLGAccessRec      pAccess,
    nint                NWLG_DOS_VERIFY
    nint                eventType,
    nint                eventSubType,
    nparam              param1,
    nparam              param2,
    nflags32            flags);
```

Parameters

deliveryType

(IN) Specifies the type of processing to be completed on the event.

pAccess

(IN) Points to the NWLGAccessRec structure.

eventType

Is unused (pass zero).

eventSubType

Is unused (pass zero).

param1

Specifies NWLG_ON or NWLG_OFF.

param2

None.

flags

None.

NWLG_DRIVE

Is a login message generated by Login functions and registered Login Extensions

NetWare Server: 3.x, 4.x

Platform: Windows* 3.1, Windows NT*, Windows*95

Service: Login

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGEVTSend (
    nint          deliveryType,
    pNWLGAccessRec pAccess,
    nint          NWLG_DRIVE
    nint          eventType,
    nint          eventSubType,
    nparam        param1,
    nparam        param2,
    nflags32      flags);
```

Parameters

deliveryType

(IN) Specifies the type of processing to be completed on the event.

pAccess

(IN) Points to the NWLGAccessRec structure.

eventType

Is unused (pass zero).

eventSubType

Is unused (pass zero).

param1

Points to a drive letter string.

param2

None.

flags

None.

NWLG_DS_CONTEXT

Is a login message generated by Login functions and registered Login Extensions

NetWare Server: 3.x, 4.x

Platform: Windows* 3.1, Windows NT*, Windows*95

Service: Login

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGEVTSend (
    nint                deliveryType,
    pNWLGAccessRec      pAccess,
    nint                NWLG_DS_CONTEXT
    nint                eventType,
    nint                eventSubType,
    nparam              param1,
    nparam              param2,
    nflags32            flags);
```

Parameters

deliveryType

(IN) Specifies the type of processing to be completed on the event.

pAccess

(IN) Points to the NWLGAccessRec structure.

eventType

Is unused (pass zero).

eventSubType

Is unused (pass zero).

param1

Points to a full or partial NDS name string.

param2

None.

flags

None.

NWLG_EXEC

Is a login message generated by Login functions and registered Login Extensions

NetWare Server: 3.x, 4.x

Platform: Windows* 3.1, Windows NT*, Windows*95

Service: Login

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGEVTSend (
    nint          deliveryType,
    pNWLGAccessRec pAccess,
    nint          NWLG_EXEC
    nint          eventType,
    nint          eventSubType,
    nparam        param1,
    nparam        param2,
    nflags32      flags);
```

Parameters

deliveryType

(IN) Specifies the type of processing to be completed on the event.

pAccess

(IN) Points to the NWLGAccessRec structure.

eventType

Is unused (pass zero).

eventSubType

Is unused (pass zero).

param1

Points to a directory path/filename string.

param2

None.

flags

None.

NWLG_EXIT

Is a login message generated by Login functions and registered Login Extensions

NetWare Server: 3.x, 4.x

Platform: Windows* 3.1, Windows NT*, Windows*95

Service: Login

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGEVTSend (
    nint                deliveryType,
    pNWLGAccessRec      pAccess,
    nint                NWLG_EXIT
    nint                eventType,
    nint                eventSubType,
    nparam              param1,
    nparam              param2,
    nflags32            flags);
```

Parameters

deliveryType

(IN) Specifies the type of processing to be completed on the event.

pAccess

(IN) Points to the NWLGAccessRec structure.

eventType

Is unused (pass zero).

eventSubType

Is unused (pass zero).

param1

Points to a directory path/file name string.

param2

None.

flags

None.

Remarks

NWLGEVTSend is a null event. (It performs no action on the GUI as it is a carry-over from DOS to maintain compatibility.)

Login Service Group

a carry-over from DOS to maintain compatibility.)

NWLG_FIRE_PHASERS

Is a login message generated by Login functions and registered Login Extensions

NetWare Server: 3.x, 4.x

Platform: Windows* 3.1, Windows NT*, Windows*95

Service: Login

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGEVTSend (
    nint          deliveryType,
    pNWLGAcessRec pAccess,
    nint          NWLG_FIRE_PHASERS
    nint          eventType,
    nint          eventSubType,
    nparam        param1,
    nparam        param2,
    nflags32      flags);
```

Parameters

deliveryType

(IN) Specifies the type of processing to be completed on the event.

pAccess

(IN) Points to the NWLGAcessRec structure.

eventType

Is unused (pass zero).

eventSubType

Is unused (pass zero).

param1

Specifies the count.

param2

Points to a directory path/file name string (optional).

flags

Specifies PC_COMPAT.

NWLG_GET_FIRST_NETWORK_DRIVE

Is a login message generated by Login functions and registered Login Extensions

NetWare Server: 3.x, 4.x

Platform: Windows* 3.1, Windows NT*, Windows*95

Service: Login

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGEVTSend (
    nint                deliveryType,
    pNWLGAccessRec      pAccess,
    nint                NWLG_GET_FIRST_NETWORK_DRIVE
    nint                eventType,
    nint                eventSubType,
    nparam              param1,
    nparam              param2,
    nflags32            flags);
```

Parameters

deliveryType

(IN) Specifies the type of processing to be completed on the event.

pAccess

(IN) Points to the NWLGAccessRec structure.

eventType

Is unused (pass zero).

eventSubType

Is unused (pass zero).

param1

Points to the nwccode for the network drive letter.

param2

None.

flags

None.

NWLG_GET_SCRIPT_LINE

Is a login message generated by Login functions and registered Login Extensions

NetWare Server: 3.x, 4.x

Platform: Windows* 3.1, Windows NT*, Windows*95

Service: Login

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGEVTSend (
    nint                deliveryType,
    pNWLGAccessRec      pAccess,
    nint                NWLG_GET_SCRIPT_LINE
    nint                eventType,
    nint                eventSubType,
    nparam              param1,
    nparam              param2,
    nflags32            flags);
```

Parameters

deliveryType

(IN) Specifies the type of processing to be completed on the event.

pAccess

(IN) Points to the NWLGAccessRec structure.

eventType

Is unused (pass zero).

eventSubType

Is unused (pass zero).

param1

Points to to the NWLGScriptInfo structure.

param2

Points to to a nparam.

flags

None.

NWLG_GET_LOCATION_NAME

Is a login message generated by Login functions and registered Login Extensions

NetWare Server: 3.x, 4.x

Platform: Windows* 3.1, Windows NT*, Windows*95

Service: Login

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGEVTSend (
    nint                deliveryType,
    pNWLGAcessRec      pAccess,
    nint                NWLG_GET_LOCATION_NAME
    nint                eventType,
    nint                eventSubType,
    nparam              param1,
    nparam              param2,
    nflags32            flags);
```

Parameters

deliveryType

(IN) Specifies the type of processing to be completed on the event.

pAccess

(IN) Points to the NWLGAcessRec structure.

eventType

Is unused (pass zero).

eventSubType

Is unused (pass zero).

param1

None.

param2

None.

flags

None.

NWLG_INCLUDE

Is a login message generated by Login functions and registered Login Extensions

NetWare Server: 3.x, 4.x

Platform: Windows* 3.1, Windows NT*, Windows*95

Service: Login

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGEVTSend (
    nint                deliveryType,
    pNWLGAccessRec      pAccess,
    nint                NWLG_INCLUDE
    nint                eventType,
    nint                eventSubType,
    nparam              param1,
    nparam              param2,
    nflags32            flags);
```

Parameters

deliveryType

(IN) Specifies the type of processing to be completed on the event.

pAccess

(IN) Points to the NWLGAccessRec structure.

eventType

Is unused (pass zero).

eventSubType

Is unused (pass zero).

param1

Points to the NWLGScriptInfo structure.

param2

Specifies the script ID.

flags

None.

NWLG_INITIALIZE

Is a login message generated by Login functions and registered Login Extensions

NetWare Server: 3.x, 4.x

Platform: Windows* 3.1, Windows NT*, Windows*95

Service: Login

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGEVTSend (
    nint                deliveryType,
    pNWLGAcessRec      pAccess,
    nint                NWLG_INITIALIZE
    nint                eventType,
    nint                eventSubType,
    nparam              param1,
    nparam              param2,
    nflags32            flags);
```

Parameters

deliveryType

(IN) Specifies the type of processing to be completed on the event.

pAccess

(IN) Points to the NWLGAcessRec structure.

eventType

Is unused (pass zero).

eventSubType

Is unused (pass zero).

param1

None.

param2

None.

flags

None.

NWLG_MACHINE

Is a login message generated by Login functions and registered Login Extensions

NetWare Server: 3.x, 4.x

Platform: Windows* 3.1, Windows NT*, Windows*95

Service: Login

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGEVTSend (
    nint                deliveryType,
    pNWLGAccessRec      pAccess,
    nint                NWLG_MACHINE
    nint                eventType,
    nint                eventSubType,
    nparam              param1,
    nparam              param2,
    nflags32            flags);
```

Parameters

deliveryType

(IN) Specifies the type of processing to be completed on the event.

pAccess

(IN) Points to the NWLGAccessRec structure.

eventType

Is unused (pass zero).

eventSubType

Is unused (pass zero).

param1

Points to a machine name string.

param2

None.

flags

None.

NWLG_MAP_ADD

Is a login message generated by Login functions and registered Login Extensions

NetWare Server: 3.x, 4.x

Platform: Windows* 3.1, Windows NT*, Windows*95

Service: Login

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGEVTSend (
    nint          deliveryType,
    pNWLGAccessRec pAccess,
    nint          NWLG_MAP_ADD
    nint          eventType,
    nint          eventSubType,
    nparam        param1,
    nparam        param2,
    nflags32      flags);
```

Parameters

deliveryType

(IN) Specifies the type of processing to be completed on the event.

pAccess

(IN) Points to the NWLGAccessRec structure.

eventType

Is unused (pass zero).

eventSubType

Is unused (pass zero).

param1

Points to the NWLGMapRec structure.

param2

None.

flags

Specifies NLWG_MAP_FLAG_...s.

NWLG_MAP_CHANGE

Is a login message generated by Login functions and registered Login Extensions

NetWare Server: 3.x, 4.x

Platform: Windows* 3.1, Windows NT*, Windows*95

Service: Login

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGEVTSend (
    nint                deliveryType,
    pNWLGAcessRec       pAccess,
    nint                NWLG_MAP_CHANGE
    nint                eventType,
    nint                eventSubType,
    nparam              param1,
    nparam              param2,
    nflags32            flags);
```

Parameters

deliveryType

(IN) Specifies the type of processing to be completed on the event.

pAccess

(IN) Points to the NWLGAcessRec structure.

eventType

Is unused (pass zero).

eventSubType

Is unused (pass zero).

param1

Points to the NWLGMapRec structure.

param2

None.

flags

Specifies NLWG_MAP_FLAG_...s.

NWLG_MAP_DEL

Is a login message generated by Login functions and registered Login Extensions

NetWare Server: 3.x, 4.x

Platform: Windows* 3.1, Windows NT*, Windows*95

Service: Login

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGEVTSend (
    nint          deliveryType,
    pNWLGAccessRec pAccess,
    nint          NWLG_MAP_DEL
    nint          eventType,
    nint          eventSubType,
    nparam        param1,
    nparam        param2,
    nflags32      flags);
```

Parameters

deliveryType

(IN) Specifies the type of processing to be completed on the event.

pAccess

(IN) Points to the NWLGAccessRec structure.

eventType

Is unused (pass zero).

eventSubType

Is unused (pass zero).

param1

Points to the NWLGMapRec structure.

param2

None.

flags

None.

NWLG_MAP_DISP

Is a login message generated by Login functions and registered Login Extensions

NetWare Server: 3.x, 4.x

Platform: Windows* 3.1, Windows NT*, Windows*95

Service: Login

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGEVTSend (
    nint                deliveryType,
    pNWLGAccessRec      pAccess,
    nint                NWLG_MAP_DISP
    nint                eventType,
    nint                eventSubType,
    nparam              param1,
    nparam              param2,
    nflags32            flags);
```

Parameters

deliveryType

(IN) Specifies the type of processing to be completed on the event.

pAccess

(IN) Points to the NWLGAccessRec structure.

eventType

Is unused (pass zero).

eventSubType

Is unused (pass zero).

param1

Points to the NWLGMapRec structure.

param2

None.

flags

None.

NWLG_MAP_ERR

Is a login message generated by Login functions and registered Login Extensions

NetWare Server: 3.x, 4.x

Platform: Windows* 3.1, Windows NT*, Windows*95

Service: Login

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGEVTSend (
    nint                deliveryType,
    pNWLGAccessRec      pAccess,
    nint                NWLG_MAP_ERR
    nint                eventType,
    nint                eventSubType,
    nparam              param1,
    nparam              param2,
    nflags32            flags);
```

Parameters

deliveryType

(IN) Specifies the type of processing to be completed on the event.

pAccess

(IN) Points to the NWLGAccessRec structure.

eventType

Is unused (pass zero).

eventSubType

Is unused (pass zero).

param1

Specifies NWLG_ON or NWLG_OFF.

param2

None.

flags

None.

NWLG_MAP_MOVE

Is a login message generated by Login functions and registered Login Extensions

NetWare Server: 3.x, 4.x

Platform: Windows* 3.1, Windows NT*, Windows*95

Service: Login

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGEVTSend (
    nint                deliveryType,
    pNWLGAccessRec      pAccess,
    nint                NWLG_MAP_MOVE
    nint                eventType,
    nint                eventSubType,
    nparam              param1,
    nparam              param2,
    nflags32            flags);
```

Parameters

deliveryType

(IN) Specifies the type of processing to be completed on the event.

pAccess

(IN) Points to the NWLGAccessRec structure.

eventType

Is unused (pass zero).

eventSubType

Is unused (pass zero).

param1

None.

param2

None.

flags

None.

NWLG_MAP_MSG

Is a login message generated by Login functions and registered Login Extensions

NetWare Server: 3.x, 4.x

Platform: Windows* 3.1, Windows NT*, Windows*95

Service: Login

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGEVTSend (
    nint                deliveryType,
    pNWLGAccessRec      pAccess,
    nint                NWLG_MAP_MSG
    nint                eventType,
    nint                eventSubType,
    nparam              param1,
    nparam              param2,
    nflags32            flags);
```

Parameters

deliveryType

(IN) Specifies the type of processing to be completed on the event.

pAccess

(IN) Points to the NWLGAccessRec structure.

eventType

Is unused (pass zero).

eventSubType

Is unused (pass zero).

param1

None.

param2

None.

flags

None.

NWLG_MEMBER_OF

Is a login message generated by Login functions and registered Login Extensions

NetWare Server: 3.x, 4.x

Platform: Windows* 3.1, Windows NT*, Windows*95

Service: Login

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGEVTSend (
    nint                deliveryType,
    pNWLGAccessRec      pAccess,
    nint                NWLG_MEMBER_OF
    nint                eventType,
    nint                eventSubType,
    nparam              param1,
    nparam              param2,
    nflags32            flags);
```

Parameters

deliveryType

(IN) Specifies the type of processing to be completed on the event.

pAccess

(IN) Points to the NWLGAccessRec structure.

eventType

Is unused (pass zero).

eventSubType

Is unused (pass zero).

param1

Points to the NWLGUserID structure.

param2

None.

flags

None.

NWLG_NO_BANNER

Is a login message generated by Login functions and registered Login Extensions

NetWare Server: 3.x, 4.x

Platform: Windows* 3.1, Windows NT*, Windows*95

Service: Login

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGEVTSend (
    nint                deliveryType,
    pNWLGAccessRec      pAccess,
    nint                NWLG_NO_BANNER
    nint                eventType,
    nint                eventSubType,
    nparam              param1,
    nparam              param2,
    nflags32            flags);
```

Parameters

deliveryType

(IN) Specifies the type of processing to be completed on the event.

pAccess

(IN) Points to the NWLGAccessRec structure.

eventType

Is unused (pass zero).

eventSubType

Is unused (pass zero).

param1

None.

param2

None.

flags

None.

NWLG_NO_DEFAULT

Is a login message generated by Login functions and registered Login Extensions

NetWare Server: 3.x, 4.x

Platform: Windows* 3.1, Windows NT*, Windows*95

Service: Login

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGEVTSend (
    nint                deliveryType,
    pNWLGAccessRec      pAccess,
    nint                NWLG_NO_DEFAULT
    nint                eventType,
    nint                eventSubType,
    nparam              param1,
    nparam              param2,
    nflags32            flags);
```

Parameters

deliveryType

(IN) Specifies the type of processing to be completed on the event.

pAccess

(IN) Points to the NWLGAccessRec structure.

eventType

Is unused (pass zero).

eventSubType

Is unused (pass zero).

param1

None.

param2

None.

flags

None.

NWLG_NOTHING

Is a login message generated by Login functions and registered Login Extensions

NetWare Server: 3.x, 4.x

Platform: Windows* 3.1, Windows NT*, Windows*95

Service: Login

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGEVTSend (
    nint          deliveryType,
    pNWLGAccessRec pAccess,
    nint          NWLG_NOTHING
    nint          eventType,
    nint          eventSubType,
    nparam        param1,
    nparam        param2,
    nflags32      flags);
```

Parameters

deliveryType

(IN) Specifies the type of processing to be completed on the event.

pAccess

(IN) Points to the NWLGAccessRec structure.

eventType

Is unused (pass zero).

eventSubType

Is unused (pass zero).

param1

Points to a string.

param2

None.

flags

None.

NWLG_NOTIFY_LOGIN_NAMES

Is a login message generated by Login functions and registered Login Extensions

NetWare Server: 3.x, 4.x

Platform: Windows* 3.1, Windows NT*, Windows*95

Service: Login

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGEVTSend (
    nint                deliveryType,
    pNWLGAccessRec      pAccess,
    nint                NWLG_NOTIFY_LOGIN_NAMES
    nint                eventType,
    nint                eventSubType,
    nparam              param1,
    nparam              param2,
    nflags32            flags);
```

Parameters

deliveryType

(IN) Specifies the type of processing to be completed on the event.

pAccess

(IN) Points to the NWLGAccessRec structure.

eventType

Is unused (pass zero).

eventSubType

Is unused (pass zero).

param1

None.

param2

None.

flags

None.

NWLG_NOTIFY_PARENT_WINDOW

Is a login message generated by Login functions and registered Login Extensions

NetWare Server: 3.x, 4.x

Platform: Windows* 3.1, Windows NT*, Windows*95

Service: Login

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGEVTSend (
    nint                deliveryType,
    pNWLGAccessRec      pAccess,
    nint                NWLG_NOTIFY_PARENT_WINDOW
    nint                eventType,
    nint                eventSubType,
    nparam              param1,
    nparam              param2,
    nflags32            flags);
```

Parameters

deliveryType

(IN) Specifies the type of processing to be completed on the event.

pAccess

(IN) Points to the NWLGAccessRec structure.

eventType

Is unused (pass zero).

eventSubType

Is unused (pass zero).

param1

None.

param2

None.

flags

None.

NWLG_NOTIFY_PROGRESS

Is a login message generated by Login functions and registered Login Extensions

NetWare Server: 3.x, 4.x

Platform: Windows* 3.1, Windows NT*, Windows*95

Service: Login

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGEVTSend (
    nint                deliveryType,
    pNWLGAcessRec      pAccess,
    nint                NWLG_NOTIFY_PROGRESS
    nint                eventType,
    nint                eventSubType,
    nparam              param1,
    nparam              param2,
    nflags32            flags);
```

Parameters

deliveryType

(IN) Specifies the type of processing to be completed on the event.

pAccess

(IN) Points to the NWLGAcessRec structure.

eventType

Is unused (pass zero).

eventSubType

Is unused (pass zero).

param1

None.

param2

None.

flags

None.

NWLG_OPEN_SCRIPT

Is a login message generated by Login functions and registered Login Extensions

NetWare Server: 3.x, 4.x

Platform: Windows* 3.1, Windows NT*, Windows*95

Service: Login

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGEVTSend (
    nint                deliveryType,
    pNWLGAccessRec      pAccess,
    nint                NWLG_OPEN_SCRIPT
    nint                eventType,
    nint                eventSubType,
    nparam              param1,
    nparam              param2,
    nflags32            flags);
```

Parameters

deliveryType

(IN) Specifies the type of processing to be completed on the event.

pAccess

(IN) Points to the NWLGAccessRec structure.

eventType

Is unused (pass zero).

eventSubType

Is unused (pass zero).

param1

Points to the NWLGScriptInfo structure.

param2

None.

flags

None.

NWLG_PARSE_SCRIPT_LINE

Is a login message generated by Login functions and registered Login Extensions

NetWare Server: 3.x, 4.x

Platform: Windows* 3.1, Windows NT*, Windows*95

Service: Login

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGEVTSend (
    nint                deliveryType,
    pNWLGAccessRec      pAccess,
    nint                NWLG_PARSE_SCRIPT_LINE
    nint                eventType,
    nint                eventSubType,
    nparam              param1,
    nparam              param2,
    nflags32            flags);
```

Parameters

deliveryType

(IN) Specifies the type of processing to be completed on the event.

pAccess

(IN) Points to the NWLGAccessRec structure.

eventType

Is unused (pass zero).

eventSubType

Is unused (pass zero).

param1

Points to the NWLGScriptInfo structure.

param2

Is used internally as a status indicator.

flags

None.

NWLG_PAUSE

Is a login message generated by Login functions and registered Login Extensions

NetWare Server: 3.x, 4.x

Platform: Windows* 3.1, Windows NT*, Windows*95

Service: Login

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGEVTSend (
    nint          deliveryType,
    pNWLGAccessRec pAccess,
    nint          NWLG_PAUSE
    nint          eventType,
    nint          eventSubType,
    nparam        param1,
    nparam        param2,
    nflags32      flags);
```

Parameters

deliveryType

(IN) Specifies the type of processing to be completed on the event.

pAccess

(IN) Points to the NWLGAccessRec structure.

eventType

Is unused (pass zero).

eventSubType

Is unused (pass zero).

param1

None.

param2

None.

flags

None.

NWLG_POST_SCRIPTS

Is a login message generated by Login functions and registered Login Extensions

NetWare Server: 3.x, 4.x

Platform: Windows* 3.1, Windows NT*, Windows*95

Service: Login

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGEVTSend (
    nint                deliveryType,
    pNWLGAccessRec      pAccess,
    nint                NWLG_POST_SCRIPTS
    nint                eventType,
    nint                eventSubType,
    nparam              param1,
    nparam              param2,
    nflags32            flags);
```

Parameters

deliveryType

(IN) Specifies the type of processing to be completed on the event.

pAccess

(IN) Points to the NWLGAccessRec structure.

eventType

Is unused (pass zero).

eventSubType

Is unused (pass zero).

param1

None.

param2

None.

flags

None.

NWLG_PRE_LOGIN

Is a login message generated by Login functions and registered Login Extensions

NetWare Server: 3.x, 4.x

Platform: Windows* 3.1, Windows NT*, Windows*95

Service: Login

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGEVTSend (
    nint                deliveryType,
    pNWLGAccessRec      pAccess,
    nint                NWLG_PRE_LOGIN
    nint                eventType,
    nint                eventSubType,
    nparam              param1,
    nparam              param2,
    nflags32            flags);
```

Parameters

deliveryType

(IN) Specifies the type of processing to be completed on the event.

pAccess

(IN) Points to the NWLGAccessRec structure.

eventType

Is unused (pass zero).

eventSubType

Is unused (pass zero).

param1

None.

param2

None.

flags

None.

NWLG_PRE_SCRIPTS

Is a login message generated by Login functions and registered Login Extensions

NetWare Server: 3.x, 4.x

Platform: Windows* 3.1, Windows NT*, Windows*95

Service: Login

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGEVTSend (
    nint                deliveryType,
    pNWLGAccessRec      pAccess,
    nint                NWLG_PRE_SCRIPTS
    nint                eventType,
    nint                eventSubType,
    nparam              param1,
    nparam              param2,
    nflags32            flags);
```

Parameters

deliveryType

(IN) Specifies the type of processing to be completed on the event.

pAccess

(IN) Points to the NWLGAccessRec structure.

eventType

Is unused (pass zero).

eventSubType

Is unused (pass zero).

param1

None.

param2

None.

flags

None.

NWLG_PRESCRIPT_CLS

Is a login message generated by Login functions and registered Login Extensions

NetWare Server: 3.x, 4.x

Platform: Windows* 3.1, Windows NT*, Windows*95

Service: Login

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGEVTSend (
    nint                deliveryType,
    pNWLGAccessRec      pAccess,
    nint                NWLG_PRESCRIPT_CLS
    nint                eventType,
    nint                eventSubType,
    nparam              param1,
    nparam              param2,
    nflags32            flags);
```

Parameters

deliveryType

(IN) Specifies the type of processing to be completed on the event.

pAccess

(IN) Points to the NWLGAccessRec structure.

eventType

Is unused (pass zero).

eventSubType

Is unused (pass zero).

param1

None.

param2

None.

flags

None.

NWLG_PROFILE

Is a login message generated by Login functions and registered Login Extensions

NetWare Server: 3.x, 4.x

Platform: Windows* 3.1, Windows NT*, Windows*95

Service: Login

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGEVTSend (
    nint          deliveryType,
    pNWLGAcessRec pAccess,
    nint          NWLG_PROFILE
    nint          eventType,
    nint          eventSubType,
    nparam        param1,
    nparam        param2,
    nflags32      flags);
```

Parameters

deliveryType

(IN) Specifies the type of processing to be completed on the event.

pAccess

(IN) Points to the NWLGAcessRec structure.

eventType

Is unused (pass zero).

eventSubType

Is unused (pass zero).

param1

Points to a NDS object name string.

param2

None.

flags

None.

NWLG_RESOLVE_USER_NAME

Is a login message generated by Login functions and registered Login Extensions

NetWare Server: 3.x, 4.x

Platform: Windows* 3.1, Windows NT*, Windows*95

Service: Login

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGEVTSend (
    nint                deliveryType,
    pNWLGAccessRec      pAccess,
    nint                NWLG_RESOLVE_USER_NAME
    nint                eventType,
    nint                eventSubType,
    nparam              param1,
    nparam              param2,
    nflags32            flags);
```

Parameters

deliveryType

(IN) Specifies the type of processing to be completed on the event.

pAccess

(IN) Points to the NWLGAccessRec structure.

eventType

Is unused (pass zero).

eventSubType

Is unused (pass zero).

param1

Points to the NWLGUserID structure.

param2

None.

flags

Specifies the context change indicator.

NWLG_REWIND_SCRIPT

Is a login message generated by Login functions and registered Login Extensions

NetWare Server: 3.x, 4.x

Platform: Windows* 3.1, Windows NT*, Windows*95

Service: Login

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGEVTSend (
    nint                deliveryType,
    pNWLGAccessRec      pAccess,
    nint                NWLG_REWIND_SCRIPT
    nint                eventType,
    nint                eventSubType,
    nparam              param1,
    nparam              param2,
    nflags32            flags);
```

Parameters

deliveryType

(IN) Specifies the type of processing to be completed on the event.

pAccess

(IN) Points to the NWLGAccessRec structure.

eventType

Is unused (pass zero).

eventSubType

Is unused (pass zero).

param1

Specifies the script ID.

param2

None.

flags

None.

NWLG_RUN_SCRIPT

Is a login message generated by Login functions and registered Login Extensions

NetWare Server: 3.x, 4.x

Platform: Windows* 3.1, Windows NT*, Windows*95

Service: Login

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGEVTSend (
    nint                deliveryType,
    pNWLGAccessRec      pAccess,
    nint                NWLG_RUN_SCRIPT
    nint                eventType,
    nint                eventSubType,
    nparam              param1,
    nparam              param2,
    nflags32            flags);
```

Parameters

deliveryType

(IN) Specifies the type of processing to be completed on the event.

pAccess

(IN) Points to the NWLGAccessRec structure.

eventType

Is unused (pass zero).

eventSubType

Is unused (pass zero).

param1

Points to to directory path/filename string.

param2

None.

flags

None.

NWLG_SCRIPT_BREAK

Is a login message generated by Login functions and registered Login Extensions

NetWare Server: 3.x, 4.x

Platform: Windows* 3.1, Windows NT*, Windows*95

Service: Login

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGEVTSend (
    nint                deliveryType,
    pNWLGAccessRec      pAccess,
    nint                NWLG_SCRIPT_BREAK
    nint                eventType,
    nint                eventSubType,
    nparam              param1,
    nparam              param2,
    nflags32            flags);
```

Parameters

deliveryType

(IN) Specifies the type of processing to be completed on the event.

pAccess

(IN) Points to the NWLGAccessRec structure.

eventType

Is unused (pass zero).

eventSubType

Is unused (pass zero).

param1

Specifies NWLG_ON or NWLG_OFF.

param2

None.

flags

None.

NWLG_SET_ENV_VAR

Is a login message generated by Login functions and registered Login Extensions

NetWare Server: 3.x, 4.x

Platform: Windows* 3.1, Windows NT*, Windows*95

Service: Login

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGEVTSend (
    nint                deliveryType,
    pNWLGAccessRec      pAccess,
    nint                NWLG_SET_ENV_VAR
    nint                eventType,
    nint                eventSubType,
    nparam              param1,
    nparam              param2,
    nflags32            flags);
```

Parameters

deliveryType

(IN) Specifies the type of processing to be completed on the event.

pAccess

(IN) Points to the NWLGAccessRec structure.

eventType

Is unused (pass zero).

eventSubType

Is unused (pass zero).

param1

Points to an environment variable string.

param2

Points to a value string.

flags

Specifies temporary/permanent.

NWLG_SYNCH_LIST_BLD

Is a login message generated by Login functions and registered Login Extensions

NetWare Server: 3.x, 4.x

Platform: Windows* 3.1, Windows NT*, Windows*95

Service: Login

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGEVTSend (
    nint                deliveryType,
    pNWLGAccessRec      pAccess,
    nint                NWLG_SYNCH_LIST_BLD
    nint                eventType,
    nint                eventSubType,
    nparam              param1,
    nparam              param2,
    nflags32            flags);
```

Parameters

deliveryType

(IN) Specifies the type of processing to be completed on the event.

pAccess

(IN) Points to the NWLGAccessRec structure.

eventType

Is unused (pass zero).

eventSubType

Is unused (pass zero).

param1

None.

param2

None.

flags

None.

NWLG_SYNCH_LIST_UPD

Is a login message generated by Login functions and registered Login Extensions

NetWare Server: 3.x, 4.x

Platform: Windows* 3.1, Windows NT*, Windows*95

Service: Login

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGEVTSend (
    nint                deliveryType,
    pNWLGAccessRec      pAccess,
    nint                NWLG_SYNCH_LIST_UPD
    nint                eventType,
    nint                eventSubType,
    nparam              param1,
    nparam              param2,
    nflags32            flags);
```

Parameters

deliveryType

(IN) Specifies the type of processing to be completed on the event.

pAccess

(IN) Points to the NWLGAccessRec structure.

eventType

Is unused (pass zero).

eventSubType

Is unused (pass zero).

param1

None.

param2

None.

flags

None.

NWLG_SYNC_TIME_FLAG

Is a login message generated by Login functions and registered Login Extensions

NetWare Server: 3.x, 4.x

Platform: Windows* 3.1, Windows NT*, Windows*95

Service: Login

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGEVTSend (
    nint          deliveryType,
    pNWLGAcessRec pAccess,
    nint          NWLG_SYNC_TIME_FLAG
    nint          eventType,
    nint          eventSubType,
    nparam        param1,
    nparam        param2,
    nflags32      flags);
```

Parameters

deliveryType

(IN) Specifies the type of processing to be completed on the event.

pAccess

(IN) Points to the NWLGAcessRec structure.

eventType

Is unused (pass zero).

eventSubType

Is unused (pass zero).

param1

Specifies NWLG_ON or NWLG_OFF.

param2

None.

flags

None.

NWLG_TERM_CMD

Is a login message generated by Login functions and registered Login Extensions

NetWare Server: 3.x, 4.x

Platform: Windows* 3.1, Windows NT*, Windows*95

Service: Login

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGEVTSend (
    nint                deliveryType,
    pNWLGAccessRec      pAccess,
    nint                NWLG_TERM_CMD
    nint                eventType,
    nint                eventSubType,
    nparam              param1,
    nparam              param2,
    nflags32            flags);
```

Parameters

deliveryType

(IN) Specifies the type of processing to be completed on the event.

pAccess

(IN) Points to the NWLGAccessRec structure.

eventType

Is unused (pass zero).

eventSubType

Is unused (pass zero).

param1

Points to the status exit code.

param2

None.

flags

None.

NWLG_TERMINATE

Is a login message generated by Login functions and registered Login Extensions

NetWare Server: 3.x, 4.x

Platform: Windows* 3.1, Windows NT*, Windows*95

Service: Login

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGEVTSend (
    nint                deliveryType,
    pNWLGAcessRec      pAccess,
    nint                NWLG_TERMINATE
    nint                eventType,
    nint                eventSubType,
    nparam              param1,
    nparam              param2,
    nflags32            flags);
```

Parameters

deliveryType

(IN) Specifies the type of processing to be completed on the event.

pAccess

(IN) Points to the NWLGAcessRec structure.

eventType

Is unused (pass zero).

eventSubType

Is unused (pass zero).

param1

Specifies the ccode.

param2

None.

flags

None.

NWLG_TREE_ATTACH

Is a login message generated by Login functions and registered Login Extensions

NetWare Server: 3.x, 4.x

Platform: Windows* 3.1, Windows NT*, Windows*95

Service: Login

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGEVTSend (
    nint                deliveryType,
    pNWLGAcessRec      pAccess,
    nint                NWLG_TREE_ATTACH
    nint                eventType,
    nint                eventSubType,
    nparam              param1,
    nparam              param2,
    nflags32            flags);
```

Parameters

deliveryType

(IN) Specifies the type of processing to be completed on the event.

pAccess

(IN) Points to the NWLGAcessRec structure.

eventType

Is unused (pass zero).

eventSubType

Is unused (pass zero).

param1

Points to the NWLGUserID structure.

param2

None.

flags

None.

NWLG_UNKNOWN

Is a login message generated by Login functions and registered Login Extensions

NetWare Server: 3.x, 4.x

Platform: Windows* 3.1, Windows NT*, Windows*95

Service: Login

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGEVTSend (
    nint          deliveryType,
    pNWLGAcessRec pAccess,
    nint          NWLG_UNKNOWN
    nint          eventType,
    nint          eventSubType,
    nparam        param1,
    nparam        param2,
    nflags32      flags);
```

Parameters

deliveryType

(IN) Specifies the type of processing to be completed on the event.

pAccess

(IN) Points to the NWLGAcessRec structure.

eventType

Is unused (pass zero).

eventSubType

Is unused (pass zero).

param1

Points to to a unrecognized line string.

param2

None.

flags

None.

Login Extension

Login Extension: Guides

Login Extension: Task Guide

Login Extension enables complete customization of the Login process. With Login Extension you can enhance, monitor, limit, or replace the Login process. The following topics explain Login Extension and the typical tasks it allows you to perform.

Creating a Login Extension DLL:

- Writing a Login Extension DLL

- Registering a Login Extension DLL

Enhancing the Login Process:

- Enhancing the Login Process

Login Extension Functions and Structures:

- Login Extension: Functions

- Login Extension: Structures

Parent Topic:

- Login Overview

Related Topics:

- Login Extension: Concept Guide

Login Extension: Concept Guide

The following topics provide additional information to help you understand *Login Extension*.

Login Extension Introduction:

- Login Extension Introduction

- Master Login Extensions

- Secondary Login Extensions

Login Events:

- Login Event Introduction

Login Extension: Messages

Login Event Delivery Types

Login Handlers:

Login Handler Introduction

Login Return Codes

Login Extension Functions and Structures:

Login Extension: Functions

Login Extension: Structures

Parent Topic:

Login Overview

Related Topics:

Login Extension: Task Guide

Login Extension: Tasks

Enhancing the Login Process

A registered and loaded Login extension can examine and process Login events. The following list provides some suggestions on how to enhance the Login process:

- Perform additional processing on particular events.

- Generate custom events with a private delivery type that can be handled by your event handler.

- Process custom Login script commands. When Login encounters an unrecognized script line, it generates a NWLG_UNKNOWN event. The first parameter of this event is a string containing the unrecognized script line. Your Login extension can handle custom Login script commands by processing this parameter.

- Limit the Login process by causing certain events to be ignored.

Parent Topic:

Login Extension: Task Guide

Registering a Login Extension DLL

When login occurs, registered Login extension DLLs are loaded and participate in the Login process. To have your Login extension loaded, you need to place information about your Login extension DLL in the Windows Registry.

You will need to write an installation program to accomplish these tasks (like saving the DLL on the system). To assist you in registering a login extension, NetWare provides the following functions:

NWLGLoginExtRegDelete

NWLGLoginExtRegGet

NWLGLoginExtRegOpen

NWLGLoginExtRegWrite

Parent Topic:

Login Extension: Task Guide

Writing a Login Extension DLL

In addition to the Windows requirements for DLLs, there are several Login-extension-specific requirements for Login extension DLLs. The following is a list outlining these requirements:

1. Include `nwlgext.h`.
2. Call the **NWLoginExtInit** function in your `LibMain` (Windows 3.11) or `DLLMain` (Windows - 32 bit) function so Login can get the information it needs to pass events to your Login extension.
3. If your Login extension is a master Login extension, you must save the pointers from the `NWLGAcessRec` structure returned by the **NWLoginExtInit** function. Your master Login extension will need these pointers to route events.
4. As a secondary or master, copy the extensions event handler, exception handler, and IO handler (optional) pointers to the `pAccess` parameter (which points to the `NWLGAcessRec` structure) returned by the **NWLoginExtInit** function. The **NWLogin** function will use these entry points to give you control of events.

Parent Topic:

Login Extension: Task Guide

Login Extension: Concepts

Login Event Delivery Types

Event routing is partially determined by the event delivery type. Events can have one of the following delivery types:

Broadcast---sent to all registered event handlers.

Private---only sent between Login and a particular event handler; not broadcasted by the event manager.

Until Fail---causes the event to be sent to all event handlers until one of the handlers indicates a failure in processing the event.

Until OK---causes the event to be sent to all event handlers until one of the handlers indicates successful processing of the event.

Parent Topic:

Login Extension: Concept Guide

Related Topics:

NWLGEVTSend

Login Event Introduction

Login Return Codes

Login Event Introduction

Login uses a series of Login events to manage processing. Each event can have three associated parameters, each of which is communicated to the registered Login extension along with the event itself. Login events are defined in the `nwlogin.h` file.

Login events are classified into two main groups: standard events and I/O events.

Login Extension Introduction

Login extensions allow you to participate in the Login process and even augment or replace some of the processing that takes place during login. A

augment or replace some of the processing that takes place during login. A Login extension is a Windows™ DLL properly registered within the Windows Registry. When login occurs, this DLL loads and participates with the process.

The Login process consists of a series of Login events. Login extensions participate in the Login process by receiving and processing Login events. After a Login extension is loaded, it receives events for processing. Security is maintained by authenticating the Login extension before any events are sent to the Login extension.

Login extensions can register as one of two mutually-exclusive types:

Master

Secondary

The primary difference between these two Login extension types is the way events are sent to and processed by them. Use the *loginExtType* field in the NWLGLoginExtInfo structure to specify the Login extension type.

Parent Topic:

Login Extension: Concept Guide

Related Topics:

Login Event Introduction

Login Handler Introduction

Login Handler Introduction

Login event processing is done by handlers. Event handlers process all standard Login events, while I/O events are processed by I/O event handlers. Event handlers and I/O event handlers are sometimes referred to collectively as event handlers. Exceptions generated during standard processing are handled by an exception handler. Login provides default event, I/O event, and exception handlers. The default handler routines can process all default events.

A Login extension typically includes an event handler and an exception handler. If a Login extension event handler does not produce any exceptions that can not be processed by the default exception handler, an exception handler is not needed for that Login extension. A Login extension may also provide an I/O event handler.

Parent Topic:

Login Extension: Concept Guide

Related Topics:

Login Extension Introduction

Login Event Introduction

Login Return Codes

An event handler, I/O event handler, or exception handler may return the following codes upon completion of an event:

OK---The event was successfully handled.

RETRY---Resend the event---usually set by the exception handler.

ABORT---Return to Login and stop execution of the Login process.

FAIL---The event was not successfully handled.

IGNORE---The event was not successfully handled, but it needs to be ignored and treated as if it were successfully handled.

STOP CYCLE---The event manager needs to stop broadcasting the event to any subsequent event handlers.

In the case of a **FAIL**, the event manager invokes the exception handler. The exception handler then invokes the code associated with a particular exception. Upon return from the exception handler, the event manager may **RETRY** the event depending on the code returned by the exception handler.

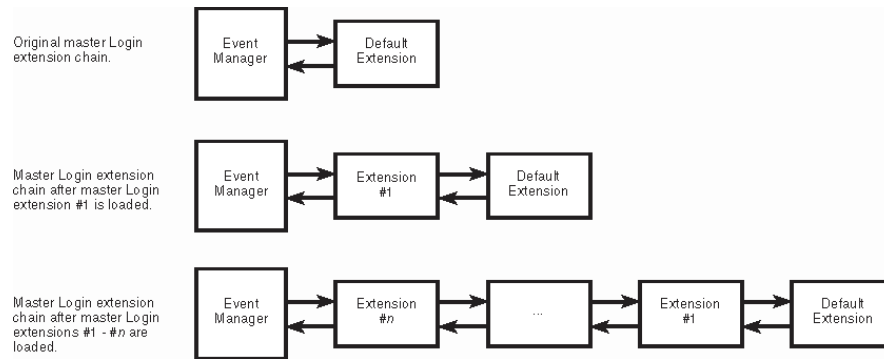
Parent Topic:

Login Extension: Concept Guide

Master Login Extensions

Login events are managed by the event manager. The event manager maintains one structure pointing to the master Login extension. Before any Login extensions are loaded, the structure points to the default Login extension handlers. When a master Login extension is loaded, it receives the structure pointing to the current master Login extension, saves a copy of the received structure, and replaces entry points in the structure to the extensions, event, and exception handlers. The newly-loaded master Login extension uses the structure it received from the event manager to pass on Login events. This creates a chain with the event manager pointing to the newly-loaded master Login extension and the newly-loaded Login extension pointing to the default Login extension.

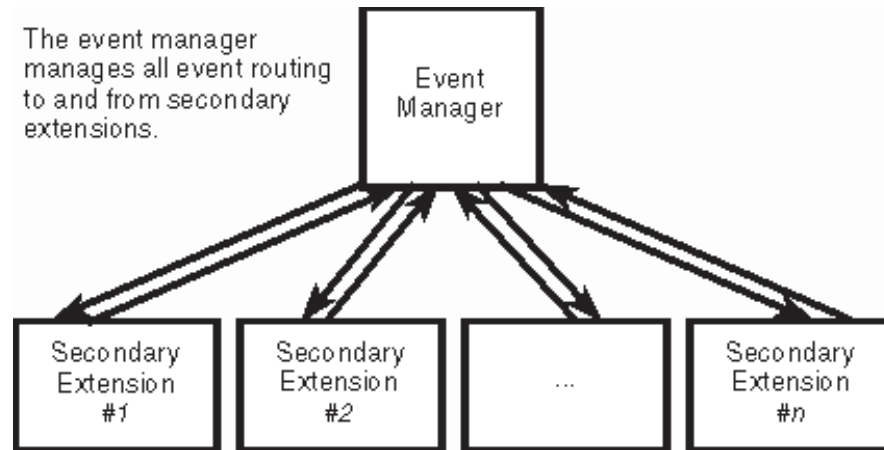
If an additional master Login extension is registered, it is loaded in the same manner as the first extension. Since the structure the Login extension receives from the event manager is now pointing to the previously-loaded master Login extension, the Login extension is effectively inserted at the beginning of the chain. The following figure represents the flow of events through this chain.



After all master extensions are loaded, the event manager still has only one structure pointing to the last master Login extension that was loaded. Each master Login extension has a structure pointing to the next extension in the chain, excepting the default extension. This configuration gives master extensions greater control over event processing, but also requires them to appropriately route events.

Secondary Login Extensions

Secondary Login extensions are linked in parallel. When a secondary Login extension is loaded, the event manager adds a pointer to the secondary Login extension pointer list. The pointers in this list point to the access structures of the loaded secondary Login extensions. This configuration gives secondary extensions the opportunity to process events but no control over event routing. The following figure represents the flow of events between the event manager and secondary Login extensions.



Secondary Login extensions should also specify additional extension types:

LOGIN_EXT_UI.

LOGIN_EXT_AUTHENTICATE

LOGIN_EXT_SCRIPT

LOGIN_EXT_ALL

Use these types to specify what type of events you want your secondary Login extension to process. See NWLGLoginExtInfo.

Login Extension: Functions

NWLGDefaultEvtHandler

Handles default events for the Login functions

NetWare Server: 2.2, 3.11, 3.12, 4.x

Platform: DOS, OS/2, Windows 3.1, Windows NT, Windows95

Service: Login Extension

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGDefaultEvtHandler (
    pNWLGAccessRec    pAccess,
    nint               event,
    nint               eventType,
    nint               eventSubType,
    nparam             param1,
    nparam             param2,
    nflag32            flags);
```

Parameters

pAccess

(IN) Points to the NWLGAccessRec structure.

event

(IN) Specifies the event that occurred.

eventType

(IN) Specifies the event type when the *eventSubType* parameter is defined for the event.

eventSubType

(IN) Specifies sub types if defined for the event defined by the *eventType* parameter.

param1

(IN) Points to a data parameter or structure associated with the defined event.

param2

(IN) Points to any further data parameters or structures associated with the defined event (if needed).

flags

Specifies any processing flags necessary for the event and event type specified by the *event* and *eventType* parameters.

Return Values

Return Values

These are common return values; see Return Values for more information.

0	NWLG_OK or successful
non-zero	NWLG_FAIL or not successful
non-zero	NWLG_ABORT

Remarks

A user-written event handler may call the default event handler for events not handled or processed by the user-written event handler.

All parameters received by the user event handler must be passed, unmodified, to the default event handler for processing. The return code from the default handler becomes the return code for the user-written event handler.

NCP Calls

None

See Also

NWLGDefaultExcptHandler, NWLGDefaultIOHandler

NWLGDefaultExcptHandler

Handles default exceptions for the Login functions

NetWare Server: 2.2, 3.11, 3.12, 4.x

Platform: DOS, OS/2, Windows 3.1, Windows NT, Windows95

Service: Login Extension

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGDefaultExcptHandler (
    pNWLGAccessRec    pAccess,
    nint               event,
    nint               eventType,
    nint               eventSubType,
    nparam             param1,
    nparam             param2,
    nflag32            flags);
```

Parameters

pAccess

(IN) Points to the NWLGAccessRec structure.

event

(IN) Specifies the event that occurred.

eventType

(IN) Specifies the event type when the *eventSubType* parameter is defined for the event.

eventSubType

(IN) Specifies subTypes if defined for the event defined by the *eventType* parameter.

param1

(IN) Points to a data parameter or structure associated with the defined event.

param2

(IN) Points to any further data parameters or structures associated with the defined event (if needed).

flags

Specifies any processing flags necessary for the event and event type specified by the *event* and *eventType* parameters.

Return Values

Return Values

These are common return values; see Return Values for more information.

0	NWLG_OK or successful
non-zero	NWLG_FAIL or not successful
non-zero	NWLG_ABORT

Remarks

A user-written exception handler may call the default exception handler for exceptions not handled or processed by the user-written exception handler.

All parameters received by the user exception handler must be passed, unmodified, to the default exception handler for processing. The return code from the default handler becomes the return code for the user-written exception handler.

NCP Calls

None

See Also

NWLGDefaultEvtHandler, NWLGDefaultIOHandler

NWLGDefaultIOHandler

Handles default screen/keyboard IO for the Login functions

NetWare Server: 2.2, 3.11, 3.12, 4.x

Platform: DOS, OS/2, Windows 3.1, Windows NT, Windows95

Service: Login Extension

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGDefaultIOHandler (
    pNWLGAccessRec    pAccess,
    nint               ioEvent,
    nparam             param1,
    nparam             param2,
    nflag32            flags);
```

Parameters

pAccess

(IN) Points to the NWLGAccessRec structure.

ioevent

(IN) Specifies the event that occurred.

param1

(IN) Points to a data parameter or structure associated with the defined event.

param2

(IN) Points to any further data parameters or structures associated with the defined event (if needed).

flags

Specifies any processing flags necessary for the event and event type specified by the *event* and *eventType* parameters.

Return Values

These are common return values; see Return Values for more information.

0	NWLG_OK or successful
non-zero	NWLG_FAIL or not successful
non-zero	NWLG_ABORT

Remarks

A user-written IO handler may call the default IO handler for Input/Output not handled or processed by the user-written IO handler.

All parameters received by the user IO handler must be passed, unmodified, to the default IO handler for processing. The return code from the default handler becomes the return code for the user-written IO handler.

NCP Calls

None

See Also

NWLGDefaultEvtHandler, NWLGDefaultExcptHandler

NWLGEVTSend

Sends an event to an event handler

NetWare Server: 2.2, 3.11, 3.12, 4.x

Platform: DOS, OS/2, Windows 3.1, Windows NT, Windows95

Service: Login Extension

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGEVTSend (
    nint                deliveryType,
    pNWLGAccessRec      pAccess,
    nint                event,
    nint                eventType,
    nint                eventSubType,
    nparam              param1,
    nparam              param2,
    nflags32            flags);
```

Parameters

deliveryType

(IN) Specifies the type of processing to be completed on the event.

pAccess

(IN) Pointer to the NWLGAccessRec structure.

event

(IN) Specifies the event to process.

eventType

(IN) Specifies the type of the event (if needed).

eventSubType

(IN) Specifies the sub type of the event (if needed).

param1

(IN) Points to data as defined by the *event*, *eventType*, and *eventSubType* parameters.

param2

(IN) Points to data as defined by the *event*, *eventType*, and *eventSubType* parameters.

flags

Specifies the flags for the event (usually 0).

Return Values

These are common return values; see Return Values for more information.

0	NWLG_OK or successful
non-zero	NWLG_FAIL or not successful
non-zero	NWLG_ABORT

Remarks

When **NWLGEVTSend** is called, the event is sent to an event handler.

The *deliveryType* parameter can have the following values:

Constant	Description
NWEVT_PRIVATE	Only the event handler defined by the <i>pAccess</i> parameter will process this event.
NWEVT_BROADCAST	All registered event handlers.
NWEVT_UNTIL_OK	Processed by the event handler until the first success.
NWEVT_UNTIL_FAIL	Processed by the event handler until the first failure.

NCP Calls

None

NWLGGetLoginData

Returns login data

NetWare Server: 2.2, 3.11, 3.12, 4.x

Platform: DOS, OS/2, Windows 3.1, Windows NT, Windows95

Service: Login Extension

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGGetLoginData (
    nint    identifier,
    nint    itemIndex,
    nptr    retvalue,
    nint    len);
```

Parameters

identifier

(IN) Specifies the defined value for the data to be returned.

itemIndex

(IN) Specifies the index for the sub item to be retrieved (from a global array of values).

retvalue

(IN) Points to the data area to receive values.

len

(IN) Specifies the maximum length of the data area to receive values.

Return Values

These are common return values; see Return Values for more information.

NWLG_OK	successful
NWLG_FAIL	not successful

NCP Calls

None

NWLGIOEVTSend

Sends an IO event to be processed

NetWare Server: 2.2, 3.11, 3.12, 4.x

Platform: DOS, OS/2, Windows 3.1, Windows NT, Windows95

Service: Login Extension

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGIOEVTSend (
    pNWLGAccessRec    pAccess,
    nint               ioEvent,
    nparam              param1,
    nparam              param2,
    nflag32             flags);
```

Parameters

pAccess

Points to the NWLGAccessRec structure.

ioEvent

Specifies the type of IO event to be processed.

param1

Points to a data area.

param2

Points to a data area.

flags

Specifies the processing flags.

Return Values

These are common return values; see Return Values for more information.

0	NWLG_OK or successful
non-zero	NWLG_FAIL or not successful
non-zero	NWLG_ABORT

Remarks

Remarks

NWLGIOEVTSend causes an IO event to be processed by the IO event handler pointed by the *pAccess* parameter.

NCP Calls

None

NWLGLoginExtRegDelete

Deletes a login extension registry key set

NetWare Server: 2.2, 3.11, 3.12, 4.x

Platform: DOS, OS/2, Windows 3.1, Windows NT, Windows95

Service: Login Extension

Syntax

```
#include <nwlgext.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGLoginExtRegDelete (
    pNWLGLoginExtInfo    loginExtInfo);
```

Parameters

loginExtInfo

(IN) Points to the NWLGLoginExtInfo structure containing the login extension to be removed from the login extension registry.

Return Values

These are common return values; see Return Values for more information.

0	NWLG_OK or successful
non-zero	NWLG_FAIL or not successful
non-zero	NWLG_ABORT

NCP Calls

None

See Also

NWLGLoginExtRegGet, NWLGLoginExtRegOpen,
NWLGLoginExtRegWrite

NWLGLLoginExtRegGet

Returns login extension values from the Windows Registry

NetWare Server: 2.2, 3.11, 3.12, 4.x

Platform: DOS, OS/2, Windows 3.1, Windows NT, Windows95

Service: Login Extension

Syntax

```
#include <nwlgext.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGLLoginExtRegGet (
    DWORD          *iSubKey,
    pNWLGLLoginExtInfo  loginExtInfo);
```

Parameters

iSubKey

(IN) Specifies the registry key for login extensions to return as defined by the **NWLGLLoginExtRegOpen** function.

loginExtInfo

(OUT) Points to the NWLGLLoginExtInfo structure to be set.

Return Values

These are common return values; see Return Values for more information.

0	NWLG_OK or successful
non-zero	NWLG_FAIL or not successful
non-zero	NWLG_ABORT

NCP Calls

None

See Also

NWLGLLoginExtRegDelete, NWLGLLoginExtRegOpen,
NWLGLLoginExtRegWrite

NWLGLLoginExtRegOpen

Returns the key from the Windows Registry for the login extensions

NetWare Server: 2.2, 3.11, 3.12, 4.x

Platform: DOS, OS/2, Windows 3.1, Windows NT, Windows95

Service: Login Extension

Syntax

```
#include <nwlgext.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGLLoginExtRegOpen (
    HKEY    *hKey);
```

Parameters

hKey

(OUT) Specifies the Windows Registry Key.

Return Values

These are common return values; see Return Values for more information.

0	NWLG_OK or successful
non-zero	NWLG_FAIL or not successful
non-zero	NWLG_ABORT

NCP Calls

None

See Also

NWLGLLoginExtRegGet, NWLGLLoginExtRegDelete,
NWLGLLoginExtRegWrite

NWLGLLoginExtRegWrite

Writes login extension information to the Windows Registry

NetWare Server: 2.2, 3.11, 3.12, 4.x

Platform: DOS, OS/2, Windows 3.1, Windows NT, Windows95

Service: Login Extension

Syntax

```
#include <nwlgext.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGLLoginExtRegWrite (
    pNWLGLLoginExtInfo    loginExtInfo);
```

Parameters

loginExtInfo

(IN) Points to the NWLGLLoginExtInfo structure containing information for login extensions to be added to the registry.

Return Values

These are common return values; see Return Values for more information.

0	NWLG_OK or successful
non-zero	NWLG_FAIL or not successful
non-zero	NWLG_ABORT

NCP Calls

None

See Also

NWLGLLoginExtRegDelete, NWLGLLoginExtRegGet,
NWLGLLoginExtRegOpen

NWLGOpenScriptFD

Reroutes the script file processing to another media

NetWare Server: 2.2, 3.11, 3.12, 4.x

Platform: DOS, OS/2, Windows 3.1, Windows NT, Windows95

Service: Login Extension

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGOpenScriptFD (
    nint      fd,
    nbool     crt,
    pnint     ccode);
```

Parameters

fd

(IN) Specifies the file handle to be used for future script processing commands.

crt

(IN) Specifies whether the CRT is to be used in script processing:

TRUE CRT can be used in script processing

FALSE CRT should not be used in script processing.

ccode

(OUT) Points to the failure error code if the return value is NWLG_Evt_Fail.

Return Values

These are common return values; see Return Values for more information.

0	NWLG_OK or successful
non-zero	NWLG_FAIL or not successful
non-zero	NWLG_ABORT

NCP Calls

None

NWLGSetCtrlBreak

Sets a flag indicating to halt processing

NetWare Server: 2.2, 3.11, 3.12, 4.x

Platform: DOS, OS/2, Windows 3.1, Windows NT, Windows95

Service: Login Extension

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGSetCtrlBreak (
    void);
```

Return Values

These are common return values; see Return Values for more information.

0	NWLG_OK or successful
non-zero	NWLG_FAIL or not successful
non-zero	NWLG_ABORT

Remarks

NWLGSetCtrlBreak sets a flag indicating that a service error has occurred (simulates the DOS `CTRL-Break' key sequence for the GUI login).

NCP Calls

None

NWLGSetLoginData

Allows controlled modifications of the Login functions global data

NetWare Server: 2.2, 3.11, 3.12, 4.x

Platform: DOS, OS/2, Windows 3.1, Windows NT, Windows95

Service: Login Extension

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGSetLoginData (
    nint    identifier,
    nint    itemindex,
    nptr    value);
```

Parameters

identifier

(IN) Specifies the ID of the global data to set.

itemindex

(IN) Specifies the index ID of the global data array to set (if needed).

value

(IN) Points to the value to set.

Return Values

These are common return values; see Return Values for more information.

0	NWLG_OK or successful
non-zero	NWLG_FAIL or not successful
non-zero	NWLG_ABORT

NCP Calls

None

See Also

NWLGGetLoginData

NWLoginExtInit

Hooks a registered login extension and an event/exception handler to a login function event/exception manager

NetWare Server: 2.2, 3.11, 3.12, 4.x

Platform: DOS, OS/2, Windows 3.1, Windows NT, Windows95

Service: Login Extension

Syntax

```
#include <nwlgext.h>

N_EXTERN_LIBRARY (NWCCODE) NWLoginExtInit (
    pNWLGAccessRec  *pAccess,
    pNWVersion       pCompiledVersion,
    pNWVersion       pRuntimeVersion,
    nptr             reserved1,
    nptr             reserved2);
```

Parameters

pAccess

(OUT) Points to the NWLGAccessRec structure containing the login extension to use for event/exception handling.

pCompiledVersion

(IN) Points to the NWVersion structure if a header is used for login extensions.

pRuntimeVersion

(OUT) Points to the NWVersion structure for the login functions.

reserved1

Is reserved for future use.

reserved2

Is reserved for future use.

Return Values

These are common return values; see Return Values for more information.

0	NWLG_OK or successful
non-zero	NWLG_FAIL or not successful
non-zero	NWLG_ABORT

Remarks

The NWVersion structure is used for function versioning and compatibility checking of the calling login extension. Login extension uses the *pAccess* parameter to hook to any other registered extension.

NCP Calls

None

Login Extension: Structures

NWLGLLoginExtInfo

Retrieves Windows Registry Key information for registered login extensions

Service: Login Extension

Defined In: nwlgext.h

Structure

```
typedef struct
{
    nint      loginExtIDLen;
    pnsr      loginExtID;
    nint      loginExtDLLNameLen;
    pnsr      loginExtDLLName;
    nint      loginExtDescLen;
    pnsr      loginExtDesc;
    DWORD     loginExtType;
} NWLGLLoginExtInfo;
```

Fields

loginExtIDLen

Specifies the length of the *loginExtID* field.

loginExtID

Points to the Windows Registry Key that defines the extensions to login.

loginExtDLLNameLen

Specifies the length of the *loginExtDLLName* field.

loginExtDLLName

Points to the Windows Registry Key defining the name of the extension DLL to load.

loginExtDescLen

Specifies the length of the *loginExtDesc* field.

loginExtDesc

Points to the Windows Registry Key describing the function of the login extension.

loginExtType

Specifies the Windows Registry Key value of the login extension type.

Remarks

The *loginExtType* field can have the following values:

Login Service Group

0x0001	LOGIN_EXT_UI
0x0002	LOGIN_EXT_AUTHENTICATE
0x0004	LOGIN_EXT_SCRIPT
0x4000	LOGIN_EXT_SECONDARY
0x8000	LOGIN_EXT_MASTER

NWLGMapRec

Processes drive mappings

Service: Login Extension

Defined In: nwlogin.h

Structure

```
typedef struct
{
    nchar    driveLetter;
    nuint    searchOrder;
    pnstr    path
} NWLGMapRec;
```

Fields

driveLetter

Specifies the letter of the drive to map (NULL for the next available).

searchOrder

Specifies the order to search:

0 Regular drive

1-16 Search mapping

path

Points to the path to associate with the specified drive letter.

NWLGScriptInfo

Contains information from a login script

Service: Login Extension

Defined In: nwlogin.h

Structure

```
typedef struct
{
    nint                idx;
    nint                scriptNameLen;
    pnstr               scriptName;
    nint                len;
    pnstr               line;
    nint                scriptLineNum;
    nbool               crt;
    struct CLoginScript *OloginScript;
} NWLGScriptInfo;
```

Fields

idx

Specifies the ID for the login script (used internally, i.e. container, profiler, user).

scriptNameLen

Specifies the length of the *scriptName* field.

scriptName

Points to the name of the script file to use.

len

Specifies the length of the *line* field.

line

Points to a string containing a line from the login script.

scriptLineNum

Specifies the line number in the script file.

crt

Is for internal and Windows NT use only (specifies when the script is opened).

OloginScript

Is for internal and Windows NT use only (used in disconnecting login).

NWLGSrvcConn

Contains NetWare service connection information

Service: Login Extension

Defined In: nwlogin.h

Structure

```
typedef struct
{
    pnstr                server;
    pnstr                tree;
    nint                 serviceType;
    pnint                 connType;
    NWCONN_HANDLE N_FAR *connID;
} NWLGSrvcConn;
```

Fields

server

Points to the NetWare server name.

tree

Points to the NDS tree name.

serviceType

Specifies the type of service connection:

Get Tree Name

Get Server Name

connType

Points to the type of connection:

NDS

Bindery

connID

Specifies the ID of the network connection handle.

NWLGUID

Contains information of the user including the network tree name, server, and connection type to login functions

Service: Login Extension

Defined In: nwlogin.h

Structure

```
typedef struct
{
    NWDSContextHandle    context;
    pnstr                server;
    pnstr                user;
    pnstr                password;
    nbool                changeServer;
    nbool                DSLogin;
    NWCONN_HANDLE        connID;
    nptr                data;
    nflag32              flags;
    pnstr                tree;
    pnstr                szContext;
    nbool                treeLogin;
} NWLGUID;
```

Fields

context

Specifies the handle to a valid NDS context for the user.

server

Points to the server name.

user

Points to the user name for the network connection.

password

Points to the password (usually from the user interface).

changeServer

Specifies whether the user is allowed to change the server or tree:

TRUE User is allowed to change server/tree

FALSE User is not allowed to change server/tree

DSLogin

Specifies whether the type of the connection login:

TRUE NDS login

FALSE Bindery login

Login Service Group

connID

Specifies the handle to the connection ID for the network connection.

data

Is used internally (points to assorted data as needed).

flags

Is used internally (specifies any processing flags).

tree

Points to the tree name.

szContext

Is used internally (points to the new user context).

treeLogin

Specifies the type of the login:

TRUE Tree login

FALSE Server login

NWVersion

Determines compatibility between parts of login and login extension components

Service: Login Extension

Defined In: nwlogin.h

Structure

```
typedef struct {  
    nuint16    major;  
    nuint8     minor;  
    nuint8     revision  
} NWVersion;
```

Fields

major

Specifies the major function version for the compiled code (set by the **NWLGSetVersion** function or by the user).

minor

Specifies the minor function version.

revision

Specifies the revision version.

Login Extension: Messages

NWLG_IO_BANNER

Is a login message generated by Login or Login Extensions

NetWare Server: 3.x, 4.x

Platform: Windows* 3.1, Windows NT*, Windows*95

Service: Login Extension

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGEVTSend (
    nint                deliveryType,
    pNWLGAcessRec      pAccess,
    nint                NWLG_IO_BANNER
    nint                eventType,
    nint                eventSubType,
    nparam              param1,
    nparam              param2,
    nflags32            flags);
```

Parameters

deliveryType

(IN) Specifies the type of processing to be completed on the event.

pAccess

(IN) Points to the NWLGAcessRec structure.

eventType

Is unused (pass zero).

eventSubType

Is unused (pass zero).

param1

Points to the nstr string for the image path and file name to display.

param2

None.

flags

None.

NWLG_IO_CHANGE_PWD

Is a login message generated by Login or Login Extensions

NetWare Server: 3.x, 4.x

Platform: Windows* 3.1, Windows NT*, Windows*95

Service: Login Extension

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGEVTSend (
    nint          deliveryType,
    pNWLGAccessRec pAccess,
    nint          NWLG_IO_CHANGE_PWD
    nint          eventType,
    nint          eventSubType,
    nparam        param1,
    nparam        param2,
    nflags32      flags);
```

Parameters

deliveryType

(IN) Specifies the type of processing to be completed on the event.

pAccess

(IN) Points to the NWLGAccessRec structure.

eventType

Is unused (pass 0).

eventSubType

Is unused (pass 0).

param1

Points to the NWLGUserID structure containing the user.

param2

Points to a linked list containing the current connection list.

flags

Specifies a boolean indicating whether to synchronize passwords.

NWLG_IO_CLS

Is a login message generated by Login or Login Extensions

NetWare Server: 3.x, 4.x

Platform: Windows* 3.1, Windows NT*, Windows*95

Service: Login Extension

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGEVTSend (
    nint                deliveryType,
    pNWLGAccessRec      pAccess,
    nint                NWLG_IO_CLS
    nint                eventType,
    nint                eventSubType,
    nparam              param1,
    nparam              param2,
    nflags32            flags);
```

Parameters

deliveryType

(IN) Specifies the type of processing to be completed on the event.

pAccess

(IN) Points to the NWLGAccessRec structure.

eventType

Is unused (pass zero).

eventSubType

Is unused (pass zero).

param1

param2

None.

flags

None.

Remarks

NWLG_IO_CLS is a null event. (It performs no action on the GUI as it is a carry-over from DOS to maintain compatibility.)

NWLG_IO_CONFIRM_REATTACH

Is a login message generated by Login or Login Extensions

NetWare Server: 3.x, 4.x

Platform: Windows* 3.1, Windows NT*, Windows*95

Service: Login Extension

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGEVTSend (
    nint                deliveryType,
    pNWLGAccessRec      pAccess,
    nint                NWLG_IO_CONFIRM_REATTACH
    nint                eventType,
    nint                eventSubType,
    nparam              param1,
    nparam              param2,
    nflags32            flags);
```

Parameters

deliveryType

(IN) Specifies the type of processing to be completed on the event.

pAccess

(IN) Points to the NWLGAccessRec structure.

eventType

Is unused (pass zero).

eventSubType

Is unused (pass zero).

param1

Points to the NWLGUserID structure for the current user.

param2

None.

flags

None.

NWLG_IO_DATA_BLOCK

Is a login message generated by Login or Login Extensions

NetWare Server: 3.x, 4.x

Platform: Windows* 3.1, Windows NT*, Windows*95

Service: Login Extension

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGEVTSend (
    nint                deliveryType,
    pNWLGAcessRec      pAccess,
    nint                NWLG_IO_DATA_BLOCK
    nint                eventType,
    nint                eventSubType,
    nparam              param1,
    nparam              param2,
    nflags32            flags);
```

Parameters

deliveryType

(IN) Specifies the type of processing to be completed on the event.

pAccess

(IN) Points to the NWLGAcessRec structure.

eventType

Is unused (pass zero).

eventSubType

Is unused (pass zero).

param1

Points to nstr string to be processed.

param2

None.

flags

None.

NWLG_IO_DOS_SWAP_PATH

Is a login message generated by Login or Login Extensions

NetWare Server: 3.x, 4.x

Platform: Windows* 3.1, Windows NT*, Windows*95

Service: Login Extension

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGEVTSend (
    nint                deliveryType,
    pNWLGAcessRec       pAccess,
    nint                NWLG_IO_DOS_SWAP_PATH
    nint                eventType,
    nint                eventSubType,
    nparam              param1,
    nparam              param2,
    nflags32            flags);
```

Parameters

deliveryType

(IN) Specifies the type of processing to be completed on the event.

pAccess

(IN) Points to the NWLGAcessRec structure.

eventType

Is unused (pass zero).

eventSubType

Is unused (pass zero).

param1

Points to the nstr string for the path.

param2

Specifies nint.

flags

Specifies nint.

Remarks

This is a null event. (It performs no action on the GUI as it is a carry-over from DOS to maintain compatibility.)

NWLG_IO_ERROR

Is a login message generated by Login or Login Extensions

NetWare Server: 3.x, 4.x

Platform: Windows* 3.1, Windows NT*, Windows*95

Service: Login Extension

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGEVTSend (
    nint                deliveryType,
    pNWLGAcessRec       pAccess,
    nint                NWLG_IO_ERROR
    nint                eventType,
    nint                eventSubType,
    nparam              param1,
    nparam              param2,
    nflags32            flags);
```

Parameters

deliveryType

(IN) Specifies the type of processing to be completed on the event.

pAccess

(IN) Points to the NWLGAcessRec structure.

eventType

Is unused (pass zero).

eventSubType

Is unused (pass zero).

param1

None.

param2

Points to the nstr string for the low-level error message.

flags

None.

NWLG_IO_FILE

Is a login message generated by Login or Login Extensions

NetWare Server: 3.x, 4.x

Platform: Windows* 3.1, Windows NT*, Windows*95

Service: Login Extension

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGEVTSend (
    nint          deliveryType,
    pNWLGAcessRec pAccess,
    nint          NWLG_IO_FILE
    nint          eventType,
    nint          eventSubType,
    nparam        param1,
    nparam        param2,
    nflags32      flags);
```

Parameters

deliveryType

(IN) Specifies the type of processing to be completed on the event.

pAccess

(IN) Points to the NWLGAcessRec structure.

eventType

Is unused (pass zero).

eventSubType

Is unused (pass zero).

param1

Points to the nstr string for the file name to be processed.

param2

Specifies the indicator for the file format (raw or filtered).

flags

None.

NWLG_IO_FINISH_LOG

Is a login message generated by Login or Login Extensions

NetWare Server: 3.x, 4.x

Platform: Windows* 3.1, Windows NT*, Windows*95

Service: Login Extension

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY(NWCCODE) NWLGEVTSend (
    nint                deliveryType,
    pNWLGAcessRec      pAccess,
    nint                NWLG_IO_FINISH_LOG
    nint                eventType,
    nint                eventSubType,
    nparam              param1,
    nparam              param2,
    nflags32            flags);
```

Parameters

deliveryType

(IN) Specifies the type of processing to be completed on the event.

pAccess

(IN) Points to the NWLGAcessRec structure.

eventType

Is unused (pass zero).

eventSubType

Is unused (pass zero).

param1

None.

param2

None.

flags

None.

NWLG_IO_FINISH_UI

Is a login message generated by Login or Login Extensions

NetWare Server: 3.x, 4.x

Platform: Windows* 3.1, Windows NT*, Windows*95

Service: Login Extension

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGEVTSend (
    nint                deliveryType,
    pNWLGAccessRec      pAccess,
    nint                NWLG_IO_FINISH_UI
    nint                eventType,
    nint                eventSubType,
    nparam              param1,
    nparam              param2,
    nflags32            flags);
```

Parameters

deliveryType

(IN) Specifies the type of processing to be completed on the event.

pAccess

(IN) Points to the NWLGAccessRec structure.

eventType

Is unused (pass zero).

eventSubType

Is unused (pass zero).

param1

Points to the nstr string for the command line.

param2

Points to the NWLGStartInfo structure.

flags

None.

NWLG_IO_IDENTITY

Is a login message generated by Login or Login Extensions

NetWare Server: 3.x, 4.x

Platform: Windows* 3.1, Windows NT*, Windows*95

Service: Login Extension

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGEVTSend (
    nint          deliveryType,
    pNWLGAcessRec pAccess,
    nint          NWLG_IO_IDENTITY
    nint          eventType,
    nint          eventSubType,
    nparam        param1,
    nparam        param2,
    nflags32      flags);
```

Parameters

deliveryType

(IN) Specifies the type of processing to be completed on the event.

pAccess

(IN) Points to the NWLGAcessRec structure.

eventType

Is unused (pass zero).

eventSubType

Is unused (pass zero).

param1

Points to the NWLGUserID structure for the user.

param2

None.

flags

None.

NWLG_IO_MSG_PAUSE

Is a login message generated by Login or Login Extensions

NetWare Server: 3.x, 4.x

Platform: Windows* 3.1, Windows NT*, Windows*95

Service: Login Extension

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGEVTSend (
    nint                deliveryType,
    pNWLGAcessRec      pAccess,
    nint                NWLG_IO_MSG_PAUSE
    nint                eventType,
    nint                eventSubType,
    nparam              param1,
    nparam              param2,
    nflags32            flags);
```

Parameters

deliveryType

(IN) Specifies the type of processing to be completed on the event.

pAccess

(IN) Points to the NWLGAcessRec structure.

eventType

Is unused (pass zero).

eventSubType

Is unused (pass zero).

param1

Points to the nstr string for a message to display in the output display window while paused.

param2

None.

flags

None.

NWLG_IO_SOUNDS

Is a login message generated by Login or Login Extensions

NetWare Server: 3.x, 4.x

Platform: Windows* 3.1, Windows NT*, Windows*95

Service: Login Extension

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGEVTSend (
    nint          deliveryType,
    pNWLGAccessRec pAccess,
    nint          NWLG_IO_SOUNDS
    nint          eventType,
    nint          eventSubType,
    nparam        param1,
    nparam        param2,
    nflags32      flags);
```

Parameters

deliveryType

(IN) Specifies the type of processing to be completed on the event.

pAccess

(IN) Points to the NWLGAccessRec structure.

eventType

Is unused (pass zero).

eventSubType

Is unused (pass zero).

param1

Points to the file name of sound file to be played.

param2

None.

flags

Specifies the number of times to play the sound file.

NWLG_IO_START_LOG

Is a login message generated by Login or Login Extensions

NetWare Server: 3.x, 4.x

Platform: Windows* 3.1, Windows NT*, Windows*95

Service: Login Extension

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGEVTSend (
    nint                deliveryType,
    pNWLGAccessRec      pAccess,
    nint                NWLG_IO_START_LOG
    nint                eventType,
    nint                eventSubType,
    nparam              param1,
    nparam              param2,
    nflags32            flags);
```

Parameters

deliveryType

(IN) Specifies the type of processing to be completed on the event.

pAccess

(IN) Points to the NWLGAccessRec structure.

eventType

Is unused (pass zero).

eventSubType

Is unused (pass zero).

param1

None.

param2

None.

flags

None.

NWLG_IO_START_UI

Is a login message generated by Login or Login Extensions

NetWare Server: 3.x, 4.x

Platform: Windows* 3.1, Windows NT*, Windows*95

Service: Login Extension

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGEVTSend (
    nint          deliveryType,
    pNWLGAccessRec pAccess,
    nint          NWLG_IO_START_UI
    nint          eventType,
    nint          eventSubType,
    nparam        param1,
    nparam        param2,
    nflags32       flags);
```

Parameters

deliveryType

(IN) Specifies the type of processing to be completed on the event.

pAccess

(IN) Points to the NWLGAccessRec structure.

eventType

Is unused (pass zero).

eventSubType

Is unused (pass zero).

param1

Points to the nstr string for the command line.

param2

Points to the NWLGStartInfo structure.

flags

None.

NWLG_IO_YES_NO

Is a login message generated by Login or Login Extensions

NetWare Server: 3.x, 4.x

Platform: Windows* 3.1, Windows NT*, Windows*95

Service: Login Extension

Syntax

```
#include <nwlogin.h>

N_EXTERN_LIBRARY (NWCCODE) NWLGEVTSend (
    nint          deliveryType,
    pNWLGAcessRec pAccess,
    nint          NWLG_IO_YES_NO
    nint          eventType,
    nint          eventSubType,
    nparam        param1,
    nparam        param2,
    nflags32      flags);
```

Parameters

deliveryType

(IN) Specifies the type of processing to be completed on the event.

pAccess

(IN) Points to the NWLGAcessRec structure.

eventType

Is unused (pass zero).

eventSubType

Is unused (pass zero).

param1

Points to the nstr string for the message to be displayed in the output display window.

param2

None.

flags

None.