The Group Edition Suite

This document describes the Apple Events supported by the programs in Group Edition version 3.0, including Node Server, User Manager, Caller Log, and Transfer Log.

Node Server Events

The primary purpose of the Node Server events is to provide external applications control over the execution of Node Server.

For example, an external application may want to bring Node Server off-line to free memory during maintenance persiods, or to free a serial port so that another commnucatoins program may use it, or to act as a "Front Door" to the BBS to pre-process incoming connections.

The Get Node Name event provides external applications a way of distinguishing a specific BBS node from the several that may be running on a given Macintosh.

Also refer to the document: "GEHEvents."

Send User an Alert

This event sends a short (up to 127 character) message to the on-line user. The message is buffered ff a file transfer is in progress. Node Server can buffer just one message at a time. The message is discarded if there is not a user on-line, or if a mnessage is alredy in the buffer. The event is asyncrhonous.

The user sees this message in the "TeleFinder Message" window.

Event Class	kGehClass
Event ID	kGehSendUserAlert
Parameters	

kGehAlertMessage	Description A string containing the message. The length can be up to 127 characters.
	Descriptor Type: typeChar Required or Optional? Required

Reply Parameters	None

Result Codes Operating system error or zero for no error

Note An FSSpec record may be passed into the event instead of an alias record.

Cancel any Transfers in Progress

This event instructs Node Server to cancel any transfers a user may have in progress. Nothing occurs if a user is not transferring a file. The event is asyncrhonous.

Event Class	kGehClass
Event ID	kGehCancelXfrs
Parameters	None
Reply Parameters	None
Result Codes	always 0

Disconnect User

This event instructs Node Server to disconnect any on-line user. Node Server stops the session in progress, then hangs up the phone. Node Server remains on-line for new calls. The event is syncrhonous.

Event Class	kGehClass
Event ID	kGehDisconnectUser
Parameters	None

Reply Parameters	None
Result Codes	Always 0

Go Off-Line

This event instructs Node Server to go off-line. Node Server will stop polling for incoming calls, reset the modem, and close it's serial port. The event is asyncrhonous.

Event Class	kGehClass
Event ID	kGehGoOffline
Parameters	None
Reply Parameters	None
Result Codes	Always 0

Go On-Line

This event instructs Node Server to go on-line. Node Server will open its serial port, wake and initialize the modem, and start polling for incoming calls. The event is asyncrhonous.

Event Class	kGehClass
Event ID	kGehGoOnline
Parameters	None
Reply Parameters	None
Result Codes	Always 0

Make Direct Connection

This event instructs Node Server to start the user logon process.

Event Class	kGehClass
Event ID	kGehGoDirect
Parameters	

kGehBaudRate	Description An integer describing the baud rate to start the logon at. Valid values are: 300, 1200, 2400, 4800, 9600, 14400, 19200, 38400, 57600. Descriptor Type: typeLongInteger Required or Optional? Required

Reply Parameters	None
Result Codes	1: Not online 2: Completed

Get Node Name

This event queries Node Server for it's Node Name. This is the string the sysop enters in the "BBS Node Options" dialog to identify a node of the BBS.

Event Class	kGehClass
Event ID	kGehNodeName
Parameters	None

Reply Parameters

kGehBaudRate

> Description   A string containing the Node Name. The length will be up to 31 characters.
> Descriptor Type:
>   typeLongInteger
> Required or Optional?
>   Required

Result Codes	0: Completed. <0: System error code.

User Manager Events

The User Manager events are an integral part of the operation of a Group Edition BBS. They allow Node Server to get the name, password, and privilege information it needs to provide proper security and access to the BBS. They also allow Node Server, and other applications to perform maintenance on the user data base.

Also refer to the documents: "UMAppleEvents.h," "UserFile.h," "UserAccessFile.h," and "UMEvents.c."

Start User Manager

This event queries User Manager for the active user data base. The receipt of this event triggers a user warning if a user tries to close the active user data base. The reply to the event contains an error code, and aliases of the user database, and folder containing access group files.

Event Class	umClass
Event ID	umStartUM

Parameters
umPassword

> Description   A string containing the access password to the user database. The length can be up to 9 characters.
> Descriptor Type: typeChar
> Required or Optional?
>   optional, User Manager 3.0 ignores this parameter

Reply Parameters
umUserFileSpec

> Description   An alias of the active TeleUsers file.
> Descriptor Type: typeAlias

umAGFolderSpec

> Description   An alias of the

folder containing the access group files.
Descriptor Type: typeAlias

Result Codes   0: Completed.
1005: There is not an active user database.
<0: System error code.

Note: The AppleEvent manager will automatically coerce typeAlias to typeFSSpec so that you do not need to manually resolve the alias.

Get User

Use this event to fetch the user record of a specific user.

Event Class   umClass

Event ID   umGetUser

Parameters
umPassword   Description   A string containing the access password to the user database. The length can be up to 9 characters.
Descriptor Type: typeChar
Required or Optional?
        optional, User Manager 3.0 ignores this parameter.

umUserName   Description   A string containing a user name. The length can be up to 31 characters.
Descriptor Type: typeChar
Required or Optional?
        required.

Reply Parameters
umUserRecord   Description   The UserRecord structure for the user. See "UserFile.h" for details of this structure.
Descriptor Type: typeWildCard

Result Codes   0: Completed.
1001: User not found.
1005: There is not an active user database.
<0: System error code.

Add a User

Use this event to to add a new user record to the user database. This event requires that you create a mailbox and the UserRecord data structure. This event lets you specify the exact contents of the user record. Use the "Create a User" event when you want User Manager to create the mailbox and structure for you.

Event Class   umClass

Event ID   umAddUser

Parameters
umPassword   Description   A string

| | | containing the access password to the user database. The length can be up to 9 characters.
Descriptor Type: typeChar
Required or Optional?
      optional, User Manager 3.0 ignores this parameter. |
| umUserRecord | | Description   The UserRecord structure for the user. See "UserFile.h" for details of this structure.
Descriptor Type: typeWildCard
Required or Optional?
      required. |

Reply Parameters	None

Result Codes	0: Completed. 1002: Duplicate user name. 1005: There is not an active user database. <0: System error code.

Create a User

Use this event to to add a new user record to the user database. You only need to provide a user name, password, and voice telephone number for this event. User Manager will create a mailbox for the user, and create the UserRecord data structure using its "New User Settings" information.

Event Class	umClass

Event ID	umCreateUser

Parameters

umPassword		Description A string containing the access password to the user database. The length can be up to 9 characters. Descriptor Type: typeChar Required or Optional? optional, User Manager 3.0 ignores this parameter.
umUserName		Description A string containing the name of the new user. The length can be up to 31 characters. Descriptor Type: typeChar Required or Optional? required.
umUserPassword		Description A string containing the password for the new user. The length can be up to 9 characters. Descriptor Type: typeChar Required or Optional? required.
umUserPhone		Description A string

containing the voice phone number for the new user. The length can be up to 19 characters.
Descriptor Type: typeChar
Required or Optional?
     required.

Reply Parameters	None

Result Codes	0: Completed.
	1002: Duplicate user name.
	1005: There is not an active user database.
	<0: System error code.

Delete a User

Use this event to delete the user record and mailbox of a specific user.

Event Class	umClass

Event ID	umDeleteUser

Parameters

umPassword
Description   A string containing the access password to the user database. The length can be up to 9 characters.
Descriptor Type: typeChar
Required or Optional?
    optional, User Manager 3.0 ignores this parameter.

umUserName
Description   A string containing a user name. The length can be up to 31 characters.
Descriptor Type: typeChar
Required or Optional?
    required.

Reply Parameters	None

Result Codes	0: Completed.
	1001: User not found.
	1005: There is not an active user database.
	<0: System error code.

Change a User

Use this event to to add a change the record of a user in the user database. This event requires that you prooerly fill in the UserRecord data structure. This event lets you specify the exact contents of the user record.

Event Class	umClass

Event ID	umChangeUser

Parameters

umPassword
Description   A string containing the access password to the user database. The length can

be up to 9 characters.
Descriptor Type: typeChar
Required or Optional?
            optional, User Manager
3.0 ignores this parameter.

umUserRecord   Description   The
                                                       UserRecord structure for the user.
                                                       See "UserFile.h" for details of
                                                       this structure.
                                                       Descriptor Type: typeWildCard
                                                       Required or Optional?
                                                                   required.

Reply Parameters   None

Result Codes   0: Completed.
                              1001: User not found.
                              1005: There is not an active user database.
                              <0: System error code.

Update a User's Statistics

Use this event to update a user's last logon time, mail, file transfer, and message statistics.

Event Class   umClass

Event ID   umUpdateUser

Parameters
umPassword   Description   A string
                                                       containing the access password to
                                                       the user database. The length can
                                                       be up to 9 characters.
                                                       Descriptor Type: typeChar
                                                       Required or Optional?
                                                                   optional, User Manager
                                                       3.0 ignores this parameter.

umUserName   Description   A string
                                                       containing a user name. The
                                                       length can be up to 31 characters.
                                                       Descriptor Type: typeChar
                                                       Required or Optional?
                                                                   required.

umUserRecord   Description   The
                                                       UserRecord structure for the user.

                                                             The fields used are:
                                                       lastUpdate, totalTime,
                                                       kb_uploaded, kb_downloaded,
                                                       email_sent, and msgs_posted.

                                                             Send the totals
                                                       accumulated in the session in the
                                                       event.

                                                             See "UserFile.h" for
                                                       details of this structure.

	Descriptor Type: typeWildCard
	Required or Optional?
	required.

Reply Parameters   None

Result Codes   0: Completed.
                                    1001: User not found.
                                    1005: There is not an active user database.
                                    <0: System error code.

Change a User's Password

Use this event to change a user's password.

Event Class   umClass

Event ID   umChangePassword

Parameters

umPassword	Description A string containing the access password to the user database. The length can be up to 9 characters.
	Descriptor Type: typeChar
	Required or Optional?
	optional, User Manager 3.0 ignores this parameter.

umUserName	Description A string containing a user name. The length can be up to 31 characters.
	Descriptor Type: typeChar
	Required or Optional?
	required.

umUserPassword	Description A string containing the user's new password. The length can be up to 9 characters.
	Descriptor Type: typeChar
	Required or Optional?
	required.

Reply Parameters   None

Result Codes   0: Completed.
                                    1001: User not found.
                                    1005: There is not an active user database.
                                    <0: System error code.

Get a User's Mailbox

Use this event to find the location of the folder that is the user's mailbox.

Event Class   umClass

Event ID   umGetMailPath

Parameters

umPassword   Description   A string
                                                            containing the access password to
                                                            the user database. The length can
                                                            be up to 9 characters.
                                                            Descriptor Type: typeChar
                                                            Required or Optional?
                                                                  optional, User Manager
                                                            3.0 ignores this parameter.

umUserName   Description   A string
                                                            containing a user name. The
                                                            length can be up to 31 characters.
                                                            Descriptor Type: typeChar
                                                            Required or Optional?
                                                                  required.

Reply Parameters

umMailPath   Description   An alias of the
                                                            user's mailbox folder.
                                                            Descriptor Type: typeAlias

Result Codes   0: Completed.
                              1001: User not found.
                              1005: There is not an active user database.
                              <0: System error code.

Note: The AppleEvent manager will automatically coerce typeAlias to typeFSSpec so that you do not need to manually resolve the alias.

Scan User Name List

Use this event to scan through the list of user names in the active user database.

Event Class   umClass

Event ID   umScanUsers

Parameters

umPassword   Description   A string
                                                            containing the access password to
                                                            the user database. The length can
                                                            be up to 9 characters.
                                                            Descriptor Type: typeChar
                                                            Required or Optional?
                                                                  optional, User Manager
                                                            3.0 ignores this parameter.

umLastUser   Description   A string
                                                            containing a reference user name.
                                                            The length can be up to 31
                                                            characters.
                                                            Descriptor Type: typeChar
                                                            Required or Optional?
                                                                  required.

umGoForward   Description   A value that
                                                            tells user manager to go
                                                            forward(1), or backward(0), from

the reference user name.
Descriptor Type: typeSMInt
Required or Optional?
              required.

umDoLoadUser   Description   A value that
                                                      tells user manager whether or not
                                                      to return the UserRecord data
                                                      structure with the name in the
                                                      AppleEvent reply.
                                                      Descriptor Type: typeSMInt
                                                      Required or Optional?
                                                                    required.

Reply Parameters
umUserName   Description   A string
                                                      containing a reference user name.
                                                      The length can be up to 31
                                                      characters.
                                                      Descriptor Type: typeChar

umUserRecord   Description   The
                                                      UserRecord structure for the user.
                                                      See "UserFile.h" for details of
                                                      this structure. The data is valid
                                                      only if the "umDoLoadUser"
                                                      value is not zero.
                                                      Descriptor Type: typeWildCard

Result Codes   0: Completed.
                                    1001: User not found.
                                    1005: There is not an active user database.
                                    <0: System error code.

Transfer Log Events

The Transfer Log events provide Node Server a way to communicate trnafer activity to Transfer Log, and
learn the location and name of the ZMODEM Partial Files database. The Partial files database contains
information that Node Server uses to re-start failed ZMODEM file transfers.

External programs may want to receive these events to pre-process them, or to take special action in response
to certain transfer events; then pass them through to Transfer Log so that it may also process them.   An
external program could also receive and process the event and replace the Transfer Log program altogether.

Also refer to the document: "FLEvents.h" and "SendFLEvent.c"

Add Activity to Transfer List

Use this event to add transfer or mail activity to Transfer Log's list.

Event Class   flClass

Event ID   flAddFileToList

Parameters
flUserName   Description   A string
                                                      containing the name of the user
                                                      responsible for the activity.   The
                                                      length can be up to 31 characters.
                                                      Descriptor Type: typeChar
                                                      Required or Optional?

Required.

flBBSName

Description   A string containing the BBS Node Name. The length can be up to 31 characters.
Descriptor Type: typeChar
Required or Optional?
      required.

flFileSpec

Description   An alias describing the file.
Descriptor Type: typeAlias
Required or Optional?
      required.

flXfrCode

Description   A code to describe the type of activity the event is reporting. See "Activity Codes" in the Transfer Log constants defined at the end of this document.
Descriptor Type: typeSMInt
Required or Optional?
      required.

flDirType

Description   A code to describe the type of directory the event took place in. This is always 0 in Group Edition ver 3.0, future versions will pass defined values here.
Descriptor Type: typeSMInt
Required or Optional?
      required.

flElapsedTime

Description   The elapsed time of the file tranfer in seconds.
Descriptor Type:
      typeLongInteger
Required or Optional?
      required.

flBytesSent

Description   The number of bytes sent in the file tranfer.
Descriptor Type:
      typeLongInteger
Required or Optional?
      required.

flFileSize

Description   The size of the file, in bytes.
Descriptor Type:
      typeLongInteger
Required or Optional?
      required.

flRetransmit

Description   The number of re-transmits that occurred during the file transfer.
Descriptor Type: typeSMInt
Required or Optional?
      required.

flBaudRate	Description	The connection baud rate in bits per second, 0 if speed is not applicable.
	Descriptor Type:	typeLongInteger
	Required or Optional?	required.
flThruPut	Description	The average transfer thru-put in bits per second.
	Descriptor Type:	typeLongInteger
	Required or Optional?	required.
flTimeComplete	Description	The Mac system time at the moment the file transfer completed.
	Descriptor Type:	typeLongInteger
	Required or Optional?	required.

Reply Parameters   None

Result Codes   0: Completed.
                              <0: System error code.

Get Partial Files File

This event queries Transfer Log for a description of the partial files database. The reply to the event contains an error code and the alias of the partial files file.

Event Class   flClass

Event ID   flGetPartialFile

Parameters   None

Reply Parameters
flFileSpec   Description   An alias of the partial files file.
                              Descriptor Type: typeAlias

Result Codes   0: Completed.
                              <0: System error code.

Note: The AppleEvent manager will automatically coerce typeAlias to typeFSSpec so that you do not need to manually resolve the alias.

Caller Log Events

Caller Log responds to events to add users to its list of calls to the BBS. The events takes two forms, one form adds the caller to the list, another form of the event adds call summary information to the list.

External programs may want to receive these event to pre-process them; then pass them through to Caller Log so that it may also process them.   An external program could also receive and process the events and replace

the Caller Log program altogether.

Also refer to the document: "CLEvents.h" and "CLEvents.c."

Add a New Call to the Caller List

Use this event to add a new incoming call to Caller Log's list. Only succesful logons are reported with this event. Node Server sends this event to reserve a call number that will be updated by a subsequent apple event.

Event Class	clClass

Event ID	clNewCaller

Parameters

clUserName	Description A string containing the name of the user making the call. The length can be up to 31 characters. Descriptor Type: typeChar Required or Optional? Required.
clBBSName	Description A string containing the BBS Node Name which received the call. The length can be up to 31 characters. Descriptor Type: typeChar Required or Optional? required.
clLogonTime	Description The Mac system time at the moment the call was reported. Descriptor Type: typeLongInteger Required or Optional? required.
clConnectBPS	Description The connection baud rate in bits per second, 0 if speed is not applicable. Descriptor Type: typeLongInteger Required or Optional? required.

Reply Parameters

clCallNum	Description The number of calls the BBS has received up to this point, plus 1. Descriptor Type: typeLongInteger Required or Optional? required.

Result Codes	0: Completed. <0: System error code.

Add a Call to the Log

Use this event after a call is complete. You can also use this event to report unsuccessful connections, unsuccessful logons, or connections that are passed to another program (like fido-net crash mail is).

Event Class   clClass

Event ID   clAddCaller

Parameters
 clUserName   Description   A string containing the name of the user making the call.   The length can be up to 31 characters.
Descriptor Type: typeChar
Required or Optional?
          Required.

 clBBSName   Description   A string containing the BBS Node Name which received the call. The length can be up to 31 characters.
Descriptor Type: typeChar
Required or Optional?
          required.

 clLogonTime   Description   The Mac system time at the moment the call was reported.
Descriptor Type:
          typeLongInteger
Required or Optional?
          required.

 clConnectBPS   Description   The connection baud rate in bits per second, 0 if speed is not applicable.
Descriptor Type:
          typeLongInteger
Required or Optional?
          required.

 clElapsedTime   Description   The elapsed time of the call in seconds.
Descriptor Type:
          typeLongInteger
Required or Optional?
          required.

 clKbUpload   Description   The number of kilo bytes uploaded during the call.
Descriptor Type:
          typeLongInteger
Required or Optional?
          required.

 clKbDownload   Description   The number of kilo bytes downloaded during the call.
Descriptor Type:

	typeLongInteger Required or Optional? required.

clNumEMail	Description The number of e-mail mnesasges sent during the call.
	Descriptor Type:
	    typeLongInteger
	Required or Optional?
	    required.

clNumPosted	Description The number of mnesasges posted to topcis during the call.
	Descriptor Type:
	    typeLongInteger
	Required or Optional?
	    required.

clCallErrorCode	Description A code to describe the type of activity the event is reporting. See "Call Codes" in the Caller Log constants defined at the end of this document. Descriptor Type: typeSMInt Required or Optional? required.

clCallNum	Description The call number that Node Server received from the "Add a New Call to the Caller List" event.
	Descriptor Type:
	    typeLongInteger
	Required or Optional?
	    required.

Reply Parameters	None
Result Codes	0: Completed. <0: System error code.

Constants defined in the Group Edition Suite

Node Server Events

kGehClass	'TFhs'
kGehSendUserAlert	'snda'
kGehCancelXfrs	'cxfr'
kGehDisconnectUser	'disu'
kGehGoOffline	'goff'
kGehGoOnline	'gonl'
kGehGoDirect	'gdir'
kGehGetNodeName	'nodn'
kGehAlertMessage	'galm'
kGehNodeName	'genn'
kGehBaudRate	'gbrt'

User Manager Events

umClass	'UMan'
umStartUM	'Strt'
umCreateUser	'Crte'
umGetUser	GUsr'
umAddUser	AUsr'
umDeleteUser	'DUsr'
umChangeUser	'CUsr'
umGetMailPath	'GMPt'
umUpdateUser	'Updt'
umChangePassword	'ChPs'
umScanUsers	'Scan'
umUserName	'UNam'
umLastUser	'LNam'
umUserPassword	'UPas'
umUserPhone	'UPho'
umPassword	'Pwrd'
umUserRecord	'URec'
umMailPath	'Mail'
umUserFileSpec	'TUfd'
umAGFolderSpec	'AGfd'
umGoForward	'GoFw'
umDoLoadUser	'DoLU'

Transfer Log Events

flClass	'TFfl'
flAddFileToList	'tadf'
flGetPartialFile	'brkn'
flUserName	'tusr'
flBBSName	'tbbs'
flFileSize	tfsz'
flFileSpec	'tfss'
flXfrCode	'txcd'
flDirType	'tdtp'
flElapsedTime	'tept'
flBytesSent	'tsnt'
flRetransmit	'trtx'
flBaudRate	'tbps'
flThruPut	'ttrp'
flTimeComplete	'tcmp'

flXfrCode Activity Codes:
kLogMailReceived = 1
kLogPostToTopic = 2
kLogCreateTopic = 3
kLogXMRcvSuccess = 4
kLogZMRcvSuccess = 5
kLogXMSendSuccess = 6
kLogZMSendSuccess = 7
kLogXMCancel = 8
kLogZMCancel = 9

Caller Log Events

clClass   'TFcl'

clNewCaller   'TFnc'
clAddCaller   'TFac'

clUserName   'CLnm'
clBBSName   'CLbb'
clLogonTime   'CLlg'
clElapsedTime   'CLet'
clKbUpload   'CLul'
clKbDownload   'CLdl'
clNumEMail   'CLem'
clNumPosted   'CLnp'
clConnectBPS   'CLbp'

Call Codes

kNormalCall = 1
kPasswordError = 2
kConnectionError = 3
kNewUserRegistered = 5
kUserQuitBeforeLogon = 6
kFidonetMailerScheduleTime = 7
kFidonetIncomingCrashmail = 8