

FriendUP Developer's Manual

Volume 3, FriendUP API documentation

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Introduction

This document describes the HTTP/Websocket interface between FriendCore and the Workspace - the Workspace uses websockets for most of the calls to optimise speed.

Most requests are self-explanatory. Some probably are not as Friend comes with a couple of unique features. Please refer to our Developers' manual to get explanatory information on the different parts of the API.

While we will strive hard to keep the API as stable as possible there might be changes in upcoming releases. Watch out for unfinished functionality and use with caution.

The system.library

The system.library in FriendUP is the extensible component that handles most of the logic in Friend Core. It establishes the operating system template in the server core. It upgrades operating system features of the underlying OS (Linux or Windows) to behave like a Friend system.

Using devices

In Friend Core, devices are units connected to Friend Core using DOS drivers and DOS handlers. There are a few ways to manipulate these using the device library calls of the system.library.

System.library misc

system.library/help

Function return all available Friend WebCalls

Parameters

sessionid (required) - id of user session

system.library/login

Function allow user to login and get user session id

Parameters

- username** (required) - name of user
- password** (required) - user password
- deviceid** (required) - id which recognize device which is used to login
- encryptedblob** - used by keys which allow to login
- appname** - application name which want
- sessionid** - session id of logged user

Returns

information about login process "{result:-1,response: success/fail, code:error code }

system.library/module

Function allow user to call functions handled in modules

Parameters

- sessionid** - (required) session id of logged user
- module** - (required) module which will be used (all other params will be taken from request)

Returns

output from modules

System.library user

system.library/user/create

Create user. Function require admin rights.

Parameters

- sessionid** - (required) session id of logged user
- username** - (required) user name
- password** - (required) password
- fullname** - full user name
- email** - user email
- level** - groups to which user will be assigned, separated by comma

Returns

{ create: success } when success, otherwise error with code

system.library/user/delete

Delete user. Function require admin rights.

Parameters

- sessionid** - (required) session id of logged user
- id** - (required) id of user which you want to delete

Returns

{ Result: success} when success, otherwise error with code

system.library/user/updatepassword

Update password

Parameters

- sessionid** - (required) session id of logged user
- username** - (required) name of the user which will go through change password process
- password** - (required) new password

Returns

{ updatepassword: success!} when success, otherwise error with code

system.library/user/update

Update user. Changes on other user accounts require admin rights.

Parameters

sessionid - (required) session id of logged user

id - (required) id of user which you want to change

username - new user name

password - new password

fullname - new full user name

email - new user email

level - new groups to which user will be assigned. Groups must be separated by comma sign

Returns

{ update: success!} when success, otherwise error with code

system.library/user/logout

Logout user

Parameters

sessionid - (required) session id of logged user

Returns

{ logout: success!} when success, otherwise error with code

system.library/user/sessionlist

Get sessions attached to user

Parameters

- sessionid** - (required) session id of logged user
- username** - (required) name of user which sessions you want to get

Returns

sessions attached to users in JSON format, otherwise error code

system.library/user/killsession

Kill user session (remote logout)

Parameters

- sessionid** - (required) session id of logged user
- sesid** - (required if deviceid and username are not available) session id of user which you want to kill
- deviceid** - (required if sesid is not available) device id of user which you want to kill
- username** - (required if sesid is not available) user name of user which you want to kill

Returns

{ killsession: success} when success, otherwise error code

system.library/user/activelist

Get active user list (available in FC memory)

Parameters

- sessionid** - (required) session id of logged user
- usersonly** - if set to 'true' get unique user list

Returns

all users in JSON list when success, otherwise error code

system.library/user/activelwsist

Get active user list, all users have working websocket connections

Parameters

sessionid - (required) session id of logged user

usersonly - if set to 'true' get unique user list

Returns

all users in JSON list when success, otherwise error code

system.library/user/updatekey

Update key. Function reload key assigned to user from database

Todo:

this function should not be here probably

Parameters

sessionid - (required) session id of logged user

keyid - (required) key id which will be reloaded

Returns

{ result: success } when success, otherwise error code

System.library services

system.library/services/list

List all available services. Function send commands to all connected servers and get information about services available.

Parameters

sessionid - (required) session id of logged user

Returns

servers and services available on them in JSON format when success, otherwise error code

system.library/services/<service_name>/start

Start service

Parameters

sessionid - (required) session id of logged user

Returns

{ Status:ok } when success, otherwise error code

system.library/services/<service_name>/stop

Stop service

Parameters

sessionid - (required) session id of logged user

Returns

{ Status:ok } when success, otherwise error code

system.library/services/<service_name>/pause

Pause service

Parameters

sessionid - (required) session id of logged user

Returns

{ Status:ok } when success, otherwise error code

system.library/services/<service_name>/install

Install service

Parameters

sessionid - (required) session id of logged user

Returns

{ Status:ok } when success, otherwise error code

system.library/services/<service_name>/uninstall

Uninstall service

Parameters

sessionid - (required) session id of logged user

Returns

{ Status:ok } when success, otherwise error code

system.library/services/<service_name>/status

Get status of service

Parameters

sessionid - (required) session id of logged user

Returns

{ Status:ok } when success, otherwise error code

system.library/services/<service_name>/command

Send command to service

Parameters

sessionid - (required) session id of logged user

cmd - command passed to service

servers - if not available then command will be send to all FC with current service. If parameter will be available then command will be passed to servers separated by comma

Returns

{ Status:ok } when success, otherwise error code

system.library/services/<service_name>/getwebgui

Get service user interface (html form)

Parameters

sessionid - (required) session id of logged user

Returns

GUI form when success, empty <div><> when gui is not available

System.library device

Our device interface describes the options for managing users' drives and other devices.

system.library/device/refreshlist

Refresh user drives. This function check database Filesystem changes and mount unmounted devices.

Parameters

sessionid - (required) session id of logged user

Returns

information which devices are mounted

system.library/device/knock

Get detailed information about drive.

Parameters

sessionid - (required) session id of logged user

devname - (required) device name

Returns

ok + separator + message when call passed without problems, otherwise error code will be returned

system.library/device/polldrives

Return list of available drives

Parameters

sessionid - (required) session id of logged user Hogne give more details

system.library/device/mount

Mount device

Parameters

sessionid - (required) session id of logged user

devname - (required) device name. Parameter and logged user id is used to get user device parameters from Filesystem table.

path - used by most filesystems to point directory which will be mounted (like server filesystem)

enc - set to 'true' to encode data on disk

type - filesystem type

execute - point to application which will be launched when mount function will be called

visible - set to 'true' if you want to make device visible for users

Returns

{ Response: Mounted successfully. } when success, otherwise error number

system.library/device/unmount

Unmount device

Parameters

sessionid - (required) session id of logged user

devname - (required) device name which system will try unmount.

Returns

{ Response: Successfully unmounted } when success, otherwise error code

system.library/device/refresh

Refresh user drive in FriendCore

Parameters

sessionid - (required) session id of logged user

devname - (required) device name. Parameter and logged user id is used to get user device parameters from Filesystem table.

Returns

{ Result: Device updated!} when success, otherwise error number

system.library/device/share

Refresh user drive in FriendCore

Parameters

sessionid - (required) session id of logged user

devname - (required) device name which you want to share with another user

username - (required) name of the user to which you want to share your drive

Returns

{ Result: Device shared successfully} when success, otherwise error code

system.library/device/list

List mounted devices

Parameters

sessionid - (required) session id of logged user

Returns

All devices and their attributes in JSON when success, otherwise error

system.library/device/listsys

List all available filesystems

Parameters

sessionid - (required) session id of logged user

Returns

All filesystems and their attributes in JSON when success, otherwise error

system.library/device/update

Store device attributes in database

Parameters

sessionid - (required) session id of logged user

Returns

{ Result: Database updated} when success, otherwise error code

System.library file

system.library/file/info

Get information about file

Parameters

sessionid - (required) session id of logged user

path - (required) path to file with device name before ':' sign

Returns

return information about file in JSON format when success, otherwise error code

system.library/file/call

Call file

Parameters

sessionid - (required) session id of logged user

path - (required) path to file with device name before ':' sign

args - (required) additional parameters to call function

Returns

return call response in JSON format when success, otherwise error code

system.library/file/dir

Get directory content

Parameters

sessionid - (required) session id of logged user

path - (required) path to directory

Returns

return directory entries in JSON format when success, otherwise error code

system.library/file/rename

Rename file or directory

Parameters

sessionid - (required) session id of logged user

path - (required) path to file which name you want to change

newname - (required) new file name

Returns

{ response:0 } when success, otherwise error number

system.library/file/delete

Delete file or directory

Parameters

sessionid - (required) session id of logged user

path - (required) path to file which you want to delete

Returns

{ response:0 } when success, otherwise error number

system.library/file/makedir

Make directory in specified path

Parameters

sessionid - (required) session id of logged user

path - (required) path which will be used to generate directory

Returns

{ response:0 } when success, otherwise error number

system.library/file/exec

Execute file

Parameters

sessionid - (required) session id of logged user

path - (required) path to file which you want to delete

Returns

response generated by file when success, otherwise error code

system.library/file/read

Read or download file

Parameters

sessionid - (required) session id of logged user

path - (required) path to file which you want to read

mode - (required) "rb" - read bytes, "rs" - read as stream

offset - offset from which file will be readed

bytes - number of bytes which you want to read

download - if set to 1 then whole file will be readed and no friend special header will be added

Returns

file content when success, otherwise error number

system.library/file/write

Write data to file

Parameters

- sessionid** - (required) session id of logged user
- path** - (required) path to file which you want to delete
- mode** - (required) "wb" - write binary
- data** - (required) data which will be stored in file
- size** - (required) number of bytes which will be stored in file
- encoding** - type of encoding, currently only "url" type is supported

Returns

{ FileDataStored : <number of="" bytes="" stored>="" } when success, otherwise error number

system.library/file/copy

Copy file from one place to another

Parameters

- sessionid** - (required) session id of logged user
- from** - (required) path to source file
- to** - (required) path to destination path

Returns

{ response: 0, Written: <number of="" bytes="">="" } when success, otherwise error number

system.library/file/upload

Upload file to Friend drive

Parameters

sessionid - (required) session id of logged user

path - (required) path where file will be uploaded

Returns

{ Uploaded files: <number>} when success, otherwise error number

system.library/file/diskinfo

Get information about disk

Parameters

sessionid - (required) session id of logged user

path - (required) path with device name

Returns

{ Disksize: <size of disk in bytes>, StoredBytes: <user disk space> } when success, otherwise error number

system.library/file/expose

Share file (make this file available from outside)

Parameters

sessionid - (required) session id of logged user

path - (required) path to file which you want to share

Returns

{hash:<generated hash>, name:<name of shared file> } when success, otherwise error number

system.library/file/conceal

Unshare file (make this file not available from outside)

Parameters

sessionid - (required) session id of logged user

path - (required) path to file which you want to share

Returns

{ response: } when success, otherwise error number

system.library/file/checkaccess

Check if actual user have access to file

Parameters

sessionid - (required) session id of logged user

path - (required) path to file which access rights you want to check

Returns

{ Result: access } when success, otherwise error number

system.library/file/access

Get file access rights

Parameters

sessionid - (required) session id of logged user

path - (required) path to file which access rights you want to check

Returns

file access rights when success, otherwise error number

system.library/file/protect

Protect file, directory or drive

Parameters

- sessionid** - (required) session id of logged user
- path** - (required) path to file on which access rights will be set
- user** - access rights for file owner (ARWED string)
- group** - access rights for user groups
- other** - access rights for others

Returns

{ Result: access } when success, otherwise error number

system.library/file/notificationstart

Create new notification. When notification is set on path and event will appear on it then user will get notification.

Parameters

- sessionid** - (required) session id of logged user
- path** - (required) path to file or directory on which notification will be set
- id** - notification id, if its set then FC is trying to update notification instead of create new one

Returns

{ Result: 0 } when success, otherwise error number

system.library/file/notificationremove

Delete notification.

Parameters

- sessionid** - (required) session id of logged user
- path** - (required) path to directory or file where you are
- id** - notification id which you want to remove

Returns

{ Result: 0 } when success, otherwise error number

system.library/file/notifychanges

Send notification to all UserSessions which set notification on path

Parameters

- sessionid** - (required) session id of logged user
- path** - (required) path to file

Returns

{ Result: 0 } when success, otherwise error number

system.library/file/compress

Compress files and folders

Parameters

- sessionid** - (required) session id of logged user
- files** - (required) path to files or directories which you want to archive. Entries must be separated by semicolon
- archiver** - (required) type or archiver. Currently only zip is supported
- destination** - (required) path to place where archive will be stored

Returns

{ Result: 0 } when success, otherwise error number

system.library/file/decompress

Decompress file

Parameters

- sessionid** - (required) session id of logged user
- path** - (required) path to place where archive will be decompressed
- archiver** - (required) type or archiver. Currently only zip is supported

Returns

{ Result: 0 } when success, otherwise error number

system.library/file/infoget

Get metadata from file

Parameters

- sessionid** - (required) session id of logged user
- path** - (required) path to file or directory from which you want to get metadata
- key** - (required) key name

Returns

metadata in JSON format when success, otherwise error number

system.library/file/infoset

Set metadata on file

Parameters

- sessionid** - (required) session id of logged user
- path** - (required) path to file or directory on which you want to set metadata

key - (required) key name

value - (required) data which will be stored inside the key

Returns

{ Result: Info Set for file"} when success, otherwise error number

system.library/file/getmodifydate

Get file or directory modification date

Parameters

sessionid - (required) session id of logged user

path - (required) path to file or directory from which modification date will be taken

Returns

{ modifytime: <date>} when success, otherwise error number

System.library ufile

system.library/ufile/open

Open file

Parameters

sessionid - (required) session id of logged user

path - (required) path with device name to file

mode - (required) mode in format "rb" - read binary, "wb" - write binary, "rs" - read stream

Returns

{fileptr:<number>} when success, otherwise error code

system.library/ufile/close

Close file

Parameters

sessionid - (required) session id of logged user

fptr - (required) pointer to opened file

Returns

{result:success} when success, otherwise error code

system.library/ufile/read

Read file

Parameters

sessionid - (required) session id of logged user

fptr - (required) pointer to opened file

size - (required) number of maximum bytes which you want to receive

Returns

received bytes when success, otherwise error code

system.library/ufile/write

Write file

Parameters

sessionid - (required) session id of logged user

fptr - (required) pointer to opened file

size - (required) number of bytes which you want to send

data - (required) data which you want to send

Returns

{filestored:<stored bytes>} when success, otherwise error code

System.library connection

system.library/connection/list

Get information about FC connections

Parameters

sessionid - (required) session id of logged user

id - provide if you want to get information about specific connection

Returns

function return information about FriendCore connection

system.library/connection/listcluster

Get information about FCCluster connections

Parameters

sessionid - (required) session id of logged user

address - provide internet address you want to get information about specific connection

Returns

function return information about FriendCore connection

system.library/connection/add

add new FCConnection

Parameters

- sessionid** - (required) session id of logged user
- address** - (required) internet address (ip or DNS name)
- name** - (required) name which describe new connection
- type** - type of connection, available values are: 0 - normal server, 1 - cluster node, 2 - cluster master, 3 - master of Friend servers

Returns

return code 59 if everything was created without problems, otherwise error number

system.library/connection/edit

edit FCConnection

Parameters

- sessionid** - (required) session id of logged user
- id** - (required) id of entry which you want to update
- address** - internet address
- name** - name of connection
- destinationfcid** - Friend Core ID of destination server
- pem** - ssl key in "pem" format

- clusterid** - id in cluster
- approved** - 1 if server was approved by admin, 0 - if not
- servertype** - type of connection, available values are: 0 - normal server, 1 - cluster node, 2 - cluster master, 3 - master of Friend servers

Returns

return code 0 if everything was updated without problems, otherwise error number

system.library/connection/add

add new FCConnection

Parameters

- sessionid** - (required) session id of logged user
- id** - (required if name is not provided) id of entry which you want to remove (disconnect)
- name** - (required if id is not provided) name of entry which you want to remove (disconnect)

Returns

return code 63 if everything was created without problems, otherwise error number

System.library app

system.library/app/help

add new FCConnection

Parameters

sessionid - (required) session id of logged user

Returns

return information about available functions (app section)

system.library/app/list

return all application names available on the server

Parameters

sessionid - (required) session id of logged user

Returns

return application available on the server in JSON format

system.library/app/userlist

List of all users connected to Application Shared Session

Parameters

sessionid - (required) session id of logged user

sasid - (required) shared session id

usersonly - set true if you want to get only unique user names

Returns

string with information which users are connected to shared session

system.library/app/register

Register new Application Shared Session

Parameters

sessionid - (required) session id of logged user

authid - (required) authentication id (provided by application)

Returns

{ SASID: <number> } when success, otherwise response with error code

system.library/app/unregister

Unregister Application Shared Session

Parameters

sessionid - (required) session id of logged user

sasid - (required) shared session id which will be removed

Returns

{SASID:<number>} when success, otherwise error code

system.library/app/accept

Accept invitation from assid owner

Parameters

sessionid - (required) session id of logged user

sasid - (required if authid is not provided) shared session id

authid - (required if sasid is not provided) application authentication id

Returns

{response:success,identity:<user name>="">}, when success, otherwise error code

system.library/app/decline

Decline invitation from assid owner

Parameters

sessionid - (required) session id of logged user

sasid - (required) shared session id

Returns

{response:success,identity:<user name>=""}, when success, otherwise error code

system.library/app/share

Share your Application Shared Session with other users

Parameters

sessionid - (required) session id of logged user

sasid - (required) shared session id

users - (required) users which we want to invite to Shared Application Session.
Function expect user names separated by comma

message - information which we want to send invited people

Returns

{response:success,identity:<user name>=""}, when success, otherwise error code

system.library/app/unshare

Unshare your Application Shared Session. Terminate

Parameters

sessionid - (required) session id of logged user

sasid - (required) shared session id

users - (required) users which we want to remove from Shared Application Session.
Function expect user names separated by comma

Returns

list of users removed from SAS

system.library/app/send

Send message to other users (not owner of sas)

Parameters

- sessionid** - (required) session id of logged user
- asid** - (required) shared session id
- usernames** - users to which we want to send message. Function expect user names separated by comma
- msg** - (required) message which we want to send to users

Returns

{response:success}, when success, otherwise error code

system.library/app/sendowner

Send message to SAS owner

Parameters

- sessionid** - (required) session id of logged user
- asid** - (required) shared session id
- msg** - (required) message which we will be send

Returns

{response:success}, when success, otherwise error code

system.library/app/takeover

Take over other user SAS session

Parameters

- sessionid** - (required) session id of logged user

- sasid** - (required) shared session id
- username** - (required) user name which will take over of SAS
- deviceid** - (required) deviceid of user device which will take over SAS

Returns

{response:success}, when success, otherwise error code

system.library/app/switchsession

Switch user SAS session

Parameters

- sessionid** - (required) session id of logged user
- sasid** - (required) shared session id
- deviceid** - (required) deviceid of user device to which user want to switch in SAS

Returns

{response:success}, when success, otherwise error code

system.library/app/putvar

Put variable into Application Session

Parameters

- sessionid** - (required) session id of logged user
- sasid** - (required) shared session id
- var** - (required) variable which will be stored in SAS
- varid** - variable ID, if not provided new will be created. Otherwise updated
- mode** - set to "private" if you want to have private variable. Otherwise it will be public

Returns

{VariableNumber:<number>}, when number > 0 then variable was created/updated. Otherwise error number will be returned

system.library/app/getvar

Get variable from Application Session

Parameters

sessionid - (required) session id of logged user

sasid - (required) shared session id

varid - variable ID from which data will be taken

Returns

{VariableData:<data>} when success, otherwise error with code

system.library/app/install

Install application

Parameters

sessionid - (required) session id of logged user

url - (required) url to application which will be installed

Returns

Function not finished

System.library admin

system.library/admin/info

Function return information about FriendCore

Parameters

sessionid - (required) session id of logged user

Returns

function return information about FriendCore

system.library/admin/listcores

Function return information about FriendCore and connected FCores

Parameters

sessionid - (required) session id of logged user

module - (required) module which will be used (all other params will be taken from request)

Returns

function return information about FriendCore and connected FCores

system.library/admin/connectionsinfo

Get information about FC connections

Parameters

sessionid - (required) session id of logged user

Returns

function return information about FriendCore connections

system.library/admin/remotecommand

Send command to remote server

Parameters

sessionid - (required) session id of logged user

Returns

remote functions response

system.library/admin/servermessage

Send message to all sessions

Parameters

sessionid - (required) session id of logged user

Returns

remote functions response

system.library/admin/restartws

Restart Websockets function

Parameters

sessionid - (required) session id of logged user

System.library INVAR

system.library/invar/listgroups

Return all INVAR groups

Parameters

sessionid - (required) session id of logged user

Returns

return available INVAR groups

system.library/invar/listgroup

List all available entries in INVAR group

Parameters

sessionid - (required) session id of logged user

gid - (required) invar group id

Returns

return available INVAR entries in group

system.library/invar/centry

Create INVAR entry and add it to group

Parameters

sessionid - (required) session id of logged user

gid - (required) invar group id

name - (required) entry name

data - (required) user data

Returns

string status:ok, response:<invar entry>=""> when success, otherwise error code

system.library/invar/dentry

Delete INVAR entry

Parameters

sessionid - (required) session id of logged user

gid - (required) invar group id

eid - (required) entry id

Returns

string status:ok when success, otherwise error code

system.library/invar/uentry

Update INVAR entry

Parameters

sessionid - (required) session id of logged user

eid - (required) entry id

data - (required) user data

Returns

string status:ok, response:<invar entry>=""> when success, otherwise error code

system.library/invar/gentry

Get INVAR entry

Parameters

sessionid - (required) session id of logged user

eid - (required) entry id

Returns

string status:ok, response:<invar entry>=""> when success, otherwise error code

system.library/invar/cgroup

Create INVAR group

Parameters

sessionid - (required) session id of logged user

name - (required) group name

Returns

string status:ok, response:<invar entry>=""> when success, otherwise error code

system.library/invar/dgroup

Delete INVAR group

Parameters

sessionid - (required) session id of logged user no finished