

# M&M's PROTOCOL (FTP)

## 1. PROTOCOL COMMANDS

### a. ACCESS CONTROL COMMANDS

The following commands specify access control identifiers (command codes are shown in parentheses).

LOGIN (/login)

The argument field is a Telnet string identifying the user. It corresponds to the user name.

LOGOUT (/logout)

This command terminates a USER and if file transfer is not in progress, the server closes the control connection. If file transfer is in progress, the connection will remain open for result response and the server will then close it.

SEND A PRIVATE MESSAGE (/send)

The argument field is a Telnet string identifying another user. It corresponds to another user uuid. This command allows the user to send a private message with another user.

LIST ALL MESSAGE EXCHANGE WITH ANOTHER USER (/messages)

The argument field is a Telnet string identifying another user. It corresponds to another user uuid. This command lists all messages exchanged with a user.

SUBSCRIBE TO A TEAM (/subscribe)

The argument field is a Telnet string identifying another user. It corresponds to a team uuid. This command allows the user to subscribe to the event of a team and its sub directories.

LIST ALL SUBSCRIBED TEAM (/subscribed)

The argument field is a Telnet string identifying another user. It corresponds to a team uuid. If no team uuid is given, this command lists all subscribed teams. If an uuid is given, this command lists all users subscribed to a team.

UNSUBSCRIBE (/unsubscribe)

The argument field is a Telnet string identifying another user.

It corresponds to a team uuid.

This command allows the user to unsubscribe to the event of a team and its sub directories.

#### USE A TEAM/CHANNEL/THREAD (/use)

The argument field is a Telnet string identifying another user.

It corresponds to a team/channel/thread uuid.

If no argument is given, it's like the user doesn't use any team/channel/thread.

It works like a cd, it specifies where the user is.

#### CREATE A NEW TEAM/CHANNEL/THREAD/COMMENT (/create)

This command has two arguments.

These arguments are two Telnet string.

The first one is the name of the team/channel/thread, the second is the description.

If the user is on a thread (see use), this command takes one argument (a Telnet string).

This argument is a comment for the current thread.

#### LIST EXISTING TEAMS/CHANNELS/THREADS/COMMENTS (/list).

This command doesn't take any argument.

It depend where is the user:

- Nowhere : list all existing teams.
- On a team : list all existing channels on this team.
- On a channel : list all existing threads on this channel.
- On a thread : list all existing comments on this thread.

#### RECOVER INFO ABOUT USERS/TEAM/CHANNEL/THREAD (/info)

This command doesn't take any argument.

It depend where is the user:

- Nowhere : display all logged users info.
- On a team : display currently selected team infos.
- On a channel : display currently channel infos..
- On a thread : display currently selected thread infos..

#### LIST ALL USERS THAT EXIST ON THE DOMAIN (/users)

This command lists all the users that exist on the server.

#### GET INFORMATION ABOUT A USER (/user)

The argument field is a Telnet string identifying another user.

It displays information about this user.

#### b. COMMANDS WHICH DOES NOT NEED TO BE CONNECTED

##### SHOW HELP (/help)

This command displays the help.

## 2. REPLY CODE BY FUNCTION GROUPE

The replies code located in the 300 or 400 correspond to error replies code.

Server error:

- 400 Name size invalid
- 401 Description size invalid
- 402 Message size invalid
- 403 Missing quotes

Global error:

- 300 Connection required
- 301 Unknown command
- 302 Invalid argument
- 303 User uuid invalid
- 304 Team uuid invalid
- 305 Channel uuid invalid
- 306 Thread uuid invalid
- 307 Object already exist

Access command:

- 210 Login successful "user\_uuid" "user\_name"
- 311 Already connected
  
- 215 Logout successful "user\_uuid" "user\_name"
- 316 Already logout
  
- 200 Command ok
  
- 201 List users "user\_uuid" "user\_name" "user\_state"
  
- 202 User information "user\_uuid" "user\_name" "user\_state"
  
- 220 Message send
  
- 225 Display messages "sender\_uuid" "time" "body"
  
- 230 Successful subscription
- 331 Already subscribed
  
- 235 Display all teams
- 236 Display all users on a team
  
- 240 Successful unsubscribe
- 341 Not subscribe to the team
  
- 250 Use successful
  
- 255 Team create

256 Channel create  
257 Thread create  
258 Comment create

260 Team listing  
261 Channel listing  
262 Thread listing  
263 Comment listing

265 Users info  
266 Team info  
267 Channel info  
268 Thread info

290 Private message receive  
291 Thread message receive  
292 Team create  
293 Channel create  
294 Thread create

### 3. COMMAND LIST

The following are the list of the commands:

```
/help <CRLF>
/login <SP> <username> <CRLF>
/logout <CRLF>
/users <CRLF>
/user <SP> <user_uuid> <CRLF>
/send <SP> <used_uuid> <CRLF>
/messages <SP> <use_uuid> <CRLF>
/subscribe <SP> <team_uuid> <CRLF>
/subscribed <SP> ?<team_uuid> <CRLF>
/unsubscribe <SP> <team_uuid> <CRLF>
/use <SP> ?<team_uuid> <SP> ?<channel_uuid> <SP> ?<thread_uuid> <CRLF>
/create <SP> ?<object_name> <SP> <object_description> <CRLF>
/list <CRLF>
/info <CRLF>
```

### 4. COMMAND REPLY SEQUENCES

In this section, the command-reply sequence is presented. Each command is listed with its possible replies.

```
/login
    210
    311
/logout
    215
    316
```

/help  
200  
/users  
201  
/user  
202  
/send  
220  
290  
/messages  
225  
/subscribe  
230  
331  
/subscribed  
235  
236  
/unsubscribe  
240  
341  
/use  
250  
/create  
255  
256  
257  
258  
291  
292  
293  
294  
/list  
260  
261  
262  
263  
/info  
265  
266  
267  
268