my-Teams RFC SAN

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1 History

2 Introduction

2.1 client:

The client sent information is defined by a line starting with a command in uppercase letters, followed by a Space $\langle SP \rangle$, followed by its arguments (if needed) separated by a Space $\langle SP \rangle$, written between double-quotes, and terminated by the end-of-line code $\langle LF \rangle$. The client command must not exceed 512 characters.

2.2 server:

The server reply is defined to contain the 3-digit code, followed by Space $\langle SP \rangle$, followed by one line of text, a list of information for specific commands separeted by a ';' and terminated by the end-of-line code $\langle LF \rangle$.

2.3 code:

1XX: informative reply code 2XX: notifications code 3XX: success reply code 4XX: server error

9XX: fatal error

5XX: error reply code

- 1. <-: Request command from client to server
- 2. ->: Reply from server to client
- 3. Arguments preceded by a '?' are not mandatory.

3 Commands

- 1. HELP
- 2. LOGIN
- 3. LOGOUT
- 4. USERS
- 5. USER
- 6. SEND
- 7. MESSAGES
- 8. SUBSCRIBE
- 9. SUBSCRIBED
- 10. UNSUBSCRIBE
- 11. USE
- 12. CREATE
- 13. LIST
- 14. INFO
- 15. **QUIT**
- 16. UNKNOWN

3.1 Exemple

4 Notifications

- 1. New Private message
- 2. New Channel message
- 3. New Thread message
- 4. Team created
- 5. Channel created
- 6. Thread created

5 RFC commands

-> 503

1. HELP Takes no argument. Show help, displays the different commands and their uses. Success: -> 101 2. LOGIN<SP>"username" Takes one argument. Set the username used by client. Connect user if it already exists, create a new one otherwise. Success:-> 102 -> 301 -> 302 Errors: -> 501, 502, 511 3. LOGOUT Takes no argument. Disconnect the client from the server. Success: -> 303 Errors:

4. USERS

Takes no argument. Get the list of all users that exist on the domain.

Success:

-> 311

Errors:

-> 501, 503

5. USER<SP>"user uuid"

Takes a user uuid as argument. Get information about the user.

Success:

-> 312

Errors:

- -> 501, 502, 503, 504
- -> 521

6. SEND<SP>"user uuid"<SP>"message content"

Takes a user uuid and a message as arguments. Send the message to the user.

Success:

-> 313

Errors:

- -> 501, 502, 503, 504
- -> 521

7. MESSAGES<SP>"user uuid"

Takes a user uuid as argument. List all messages exchanged with the user.

Success:

```
-> 314<SP>("received" or "sent")<SP>"message content" ; ... <LF>
```

Errors:

- \rightarrow 501, 502, 503, 504
- -> 521

8. SUBSCRIBE<SP>"team uuid"

Takes a team uuid as argument. Subscribe to the event of the team and its sub directories (enable reception of all events from a team).

Success:

- -> 103
- -> 315

Errors:

- -> 501, 502, 503, 504
- -> 522

9. SUBSCRIBED<SP>?"team uuid"

Takes no argument or a team uuid.

List all subscribed teams or list all users subscribed to a team.

Success:

- -> 316
- -> 317

Errors:

- -> 501, 503, 504
- -> 522

10. UNSUBSCRIBE<SP>"team uuid"

Takes a team uuid as argument. Unsubscribe from the team.

Success:

- -> 104
- -> 318

Errors:

- \rightarrow 501, 502, 503, 504
- -> 522

11. USE<SP>?"team uuid"<SP>?"channel uuid"<SP>?"thread uuid"

Takes a context unid as argument.

Use specify the context team/channel/thread.

Success:

-> 319

Errors:

- -> 501, 503, 504
- -> 522, 523, 524

12. CREATE

Takes one or two arguments depending on the context. Based on what is being used create the sub resource.

Success:

The context is not defined:

<SP>"team name" <SP>? "team description"

-> 321

Team uuid is defined:

<SP>"channel name" <SP>? "channel description"

-> 322

Team uuid and channel uuid are defined:

<SP>"thread title" <SP>? "thread message"

-> 323

Team uuid, channel uuid and thread uuid are defined:

<SP>"comment body"

-> 324

Errors:

-> 501, 503, 504

-> 512, 513

13. LIST

Takes no argument.

Based on what is being used create the sub resource.

Success:

The context is not defined.

$$\rightarrow$$
 331("team uuid"); ...

Team uuid is defined.

$$\rightarrow$$
 332 $<$ SP $>$ ("channel uuid"); ... $<$ LF $>$

Team uuid and channel uuid are defined.

$$\rightarrow$$
 333 $<$ SP $>$ ("thread uuid"); ... $<$ LF $>$

Team uuid, channel uuid and thread uuid are defined.

$$\rightarrow$$
 334 $<$ SP $>$ ("replie"); ... $<$ LF $>$

Errors:

-> 501, 503

14. INFO

Takes no argument.

Based on what is being used create the sub resource.

Success:

The context is not defined.

-> 341 <SP>"user uuid" <SP>"username" <SP>?"team uuid "<SP>?"channel uuid" <SP>"thread uuid"; ... <LF>

Team uuid is defined.

 $-\!>$ 342<SP>"team name" <SP>"team uuid" <SP>"team description"; ... <LF>

Team uuid and channel uuid are defined.

-> 343<SP>"channel name" <SP>"channel uuid" <SP>"channel description"); ... <LF>

Team uuid, channel uuid and thread uuid are defined.

Errors:

-> 501, 503

15. QUIT

Takes no argument. Quit the server.

Success:

-> 304

Errors:

-> 501, 503

16. UNKNOWN

The command does not exist.

-> 500

6 Exemple

- <- LOGIN <SP> "username"
- -> 501 Missing double quotes
- <- LOGIN <SP> "username"
- -> 301 User created.
- <- SEND $<\!\!\operatorname{SP}\!\!>$ "user uuid" $<\!\!\operatorname{SP}\!\!>$ "message"
- \rightarrow 313 Message sent.

7 RFC Notification

1. New Private Message

Receive a user uuid and his private message.

Return:

- -> 201 < SP > (from)"uuid"< SP > (to)"uuid"< SP >"message content"< LF >
- 2. New Channel Message

Receive message notification from a channel.

Return:

- $-\!\!> 202 <\!\!\mathrm{SP}\!\!>\!\!(\mathrm{from})$ "uuid" <\!\!\mathrm{SP}\!\!>"Team uuid" <\!\!\mathrm{SP}\!\!>"Channel uuid" <LF $\!\!>$
- 3. New Thread Message

Receive message notification from a thread.

Return:

- $-\!>$ 202<SP>(from)"uuid"<SP>"Team uuid"<SP>"Channel uuid"<SP>"thread uuid"<LF>
- 4. New Team created

Notify a team creation.

Return:

- -> **211**<SP>"Team uuid"<LF>
- 5. New Channel Created

Notify a channel creation.

Return:

- $-\!\!>$ 212<SP>"Team uuid"<SP>"channel uuid"<LF>
- 6. New Thread created

Notify a thread creation.

Return

-> 213<SP>"Team uuid"<SP>"channel uuid"<SP>"thread uuid"<LF>

8 Code

8.1 Information

- 101 Displays the different commands and their uses.
- 102 Already logged-in.
- 103 Already subscribed.
- 104 Not subscribed.

8.2 Success

8.2.1 Connection

- 301 User created.
- 302 User connected.
- 303 User disconnected.
- 304 User quit.

8.2.2 User

- 311 List all users.
- 312 Show user information.
- 313 Message sent.
- 314 List all exchanged messages
- 315 Successfully subscribed.
- 316 List all subscribed clients.
- 317 List all subscribed teams.
- 318 Successfully unsubscribed.
- 319 New context specified.

8.2.3 Create

- 321 New team created.
- 322 New channel created.
- 323 New thread created.
- 324 New reply created.

8.2.4 List

- 331 List all existing teams.
- 332 List all existing channels.
- 333 List all existing threads.
- 334 List all existing replies.

8.2.5 Info

- 341 Display currently logged user infos.
- 342 Display currently selected team infos.
- 343 Display currently selected channel infos.
- 344 Display currently selected thread infos.

8.2.6 Notifications

- 201 Private message received.
- 202 New channel message.
- 203 New thread message.
- 211 New Team created.
- 212 New Channel created.
- 213 New Thread created.

8.3 Errors

- 501 Missing double quotes
- 502 Command missing arguments
- 503 Not logged-in
- 504 Too long command
- 511 Already logged-in
- 512 Already exists
- 513 Not subscribed
- 521 Wrong user uuid
- 522 Wrong team uuid
- 523 Wrong channel uuid
- 524 Wrong thread uuid