

Protocol Server / Client

Babel



I/ Définition du type de communication

Protocole de transport : **TCP**

Contenu du data du protocole **TCP** :

Header		Data
Action code <i>unsigned int</i> 32 bits	Data size <i>unsigned int</i> 32 bits	Data Data size

II/ Structure de données

CLIENT_CONTACT_STRUCT

- login - *char[32]*
- isOnline - *unsigned int 32 bits* <<-- *change*

CLIENT_CALL_STRUCT

- login - *char[32]*
- ip - *char[16]* <<-- *change*
- port - *unsigned int 32 bits*

III/ Tableau des actions - **Client** -> **Server**

Action	Code	Arguments	Answer
Sign up	1	<ul style="list-style-type: none"> - login(char[32]) - password (char[32]) 	SUCCESS_LOGIN INTERNAL_ERROR LOGIN_USED
Log in	2	<ul style="list-style-type: none"> - login(char[32]) - password (char[32]) 	SUCCESS_SIGNUP INTERNAL_ERROR WRONG_CREDENTIALS LOGIN_USED
DEL(contact)	3	<ul style="list-style-type: none"> - login contact delete (char[32]) 	SUCCESS_DEL INTERNAL_ERROR NO_SUCH_USER
ADD(contact)	4	<ul style="list-style-type: none"> - login to contact add (char[32]) 	SUCCESS_ADD INTERNAL_ERROR NO_SUCH_USER
LEAVE	5	X	X
X	X	X	X
INVITE(call)	7	<ul style="list-style-type: none"> - uidConv (u_int_32) - login to invite in call (char[32]) 	SUCCESS_INVITE INTERNAL_ERROR NO_SUCH_USERwh NO_SUCH_CONV
LEAVE(call)	8	<ul style="list-style-type: none"> - idConv of client leave (u_int_32) 	SUCCESS_LEAVE INTERNAL_ERROR NO_SUCH_CONV
JOIN(call)	9	<ul style="list-style-type: none"> - idConv (u_int_32) (0 for create) - port (u_int_32) 	SUCCESS_JOIN INTERNAL_ERROR NO_SUCH_CONV

IV/ Tableau des actions - **Server** -> **Client**

Action	Code	Arguments
INVITE(call)	7	<ul style="list-style-type: none"> - uidConv (u_int_32) - client in conv (char[8][32]) - call owner (char[32])
LEAVE(call)	8	<ul style="list-style-type: none"> - client who has left (char[32])
JOIN(call)	9	<ul style="list-style-type: none"> - uidConv (u_int_32) - clients who join (CLIENT_CALL_STRUCT)
CONTACT_LIST	6	<ul style="list-style-type: none"> - contact list (CLIENT_CONTACT_STRUCT[50])

V/ Tableau des réponses

Action	Code	Arguments
SUCCESS	42	X
SUCCESS_JOIN	43	<ul style="list-style-type: none"> - uidConv (u_int_32) - list client in conv (CLIENT_CALL_STRUCT[8])
SUCCESS_LOGIN	44	X
SUCCESS_SIGNUP	45	X
SUCCESS_DEL	46	X
SUCCESS_ADD	47	X
SUCCESS_INVITE	48	X
SUCCESS_LEAVE	49	X
X	X	X
INTERNAL_ERROR	501	X

LOGIN_USED	502	X
WRONG_CREDENTIALS	503	X
X	X	X
NO_SUCH_USER	505	X
X	X	X
NO_SUCH_CONV	506	X