Communication Protocol

This is a quick view of what are the different communications of client/server:

Login

<u>Game</u>

- Actions
 - Action grab phase
 - Action run phase
 - Action shoot phase
 - Action use power up phase
- Power Ups
 - Targeting scope
 - Newton
 - Tagback granade
 - Teleporter
- Various communication messages

Login

++	+
Client ++	Server
	+
<	ping
pong	
	< ا
	login
I I	 insert a nickname
<	۱ ۱
nickname	
	>

login request (server)

login\n insert a nickname\n

login reply (client)

nickname\n

Game

Turn phase

+ Client	•	•
+		
 <	ping	 -
 pong 	:	
 	wake	 - -
 insert a	action	
 <	response	this section can be repeated more than one time
 end tur: 	n :	 >
 <	sleep	

wake (server)

It's your turn\n

insert action (client)

insert action\n (grab,run,shoot,use power up)

response (server)

response\n (ok/error)

end turn (client)

end turn\n (declare the end of you turn)

sleep (server)

Your turn is over\n

<u>Actions</u>

Action grab phase

++	+	-+
Client	Server	I
++	+	-+
1		
1	where?	
<		I
1		
insert where		
	>	
1		this section can be repeated
1	response	if there are errors
<		
1		
insert a weapon		
	>	
1		this section can be repeated
1	response	if there are errors
<		

where?(server)

where?\n

insert where(client)

insert where\n (as coordinates(x,y))

response (server)

response\n (ok/error/choose a weapon)

insert a weapon(client)

insert a weapon\n

response (server)

Action run phase

++	++	
Client	Server	
++	++	
	I	
	where?	
<		
insert where		
	>	
	this section can be	e repeated
	response if there are e	rrors
<		

where?(server)

where?\n

insert where(client)

insert where\n (as coordinates(x,y))

response (server)

response\n (ok/error)

Action shoot phase

++	+	+
Client	Server	1
++	+	+
I		I
I	where?	I
<		
I		I
insert where		I
	>	
I		\mid this section can be repeated \mid
I	response	if there are errors
<		

where?(server)

where?\n

insert where(client)

insert where\n (as coordinates(x,y) or color of room or player)

response (server)

Action use power up phase

++	+	+
Client	Server	I
++	+	+
I		
I	which power up?	
<		
I		
insert power up		
	>	
I		\mid this section can be repeated \mid
I	response	if there are errors
<		

which power up?(server)

which power up?\n

insert power up(client)

insert power up\n (as power up name)

response (server)

Power Ups

Targeting scope

++	++
Client	Server
++	++
I	1
1	who target?
<	
I	I
insert who	I
	this section can be repeated
	response if there are errors
<	

who target?(server)

who target?\n

insert who(client)

insert who\n (as enemy player)

response (server)

response\n (ok/error)

Newton

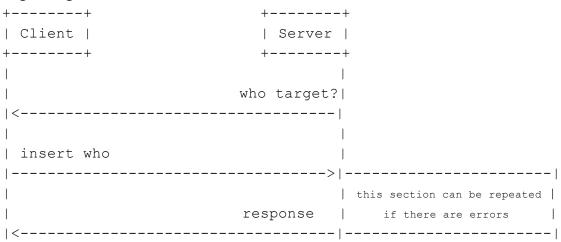
++	+	+
Client	Server	I
++	+	+
I		
I	who target?	
<		
I		
insert who		
I		this section can be repeated
I	response	if there are errors
<		
I		
I	where?	
<		
I		
insert where		
I		this section can be repeated
I	response	if there are errors
<		

who target?(server) who target?\n insert who(client) insert who\n (as enemy player) response (server) response\n (ok/error) where?(server) where?\n insert where(client) insert where\n (as coordinates(x,y))

response (server)

response\n (ok/error)

Tagback granade



Teleporter

++	++	+
Client	Server	I
++	++	H
	where?	
<		
insert where		
		this section can be repeated \mid
	response	if there are errors
<		

where?(server)

where?\n

insert where(client)

insert where\n (as coordinates(x,y))

response (server)

Various communication messages

Information message

++	++
Client	Server
++	++
T	
	ping
<	
1	1
pong	
1	1
1	message
<	

message(server)

message\n (such as movement of other player, how many points earned and so on..)