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Documentation of the Protocol MMP - MingMing Protocol

Messages Received by the Server

Message Format	Actions Taken
SET_ALIAS <client alias=""></client>	The client sends the message to the server, introducing itself to the server by giving its alias.
LEAVE <client id=""></client>	Client A sends the message to the server, saying that it wants to disconnect from the server. The server and the client then closes the sockets that connect them. Finally, the server informs the other clients that the client A has left.
READY <client id=""></client>	Client A sends the message to the server while in the waiting room, saying that it is ready (not ready) to play. The server then updates its variables and informs the clients of the change. It works like a toggle button.

GAME_CMD <command/>	Client A sends the message to the server
	during the game, saying that a certain
	action has happened from the client's
	side. The command could either be a
	TIMEOUT or a COMMAND (button press)
	from the control panel.
	(see the variations below)
GAME_CMD TIMEOUT	The server received a timeout message
	from client A. Meaning, the command
	given to the client was not executed
	within the time given. The server sends a
	new command to client A and informs the
	other clients of the game event.
GAME_CMD COMMAND: <cmd_num>:<state_num></state_num></cmd_num>	The server received a command message
	from client A.
	The server checks if the command sent by
	client A is any of the commands assigned
	to the other clients.
	If yes, the server updates the game
	variables, gives the clients an update of
	the current score, and assigns a new
	command to client A.
	Otherwise, the server discards the
	message.

Messages Received by the Client

Message Format	Actions Taken
	Client A was able to connect to the server.
SETID <status_code></status_code>	
<pre><status_code> - <client_id> - SERVER_BUSY the hosts in the room are currently playing</client_id></status_code></pre>	If the server sends the message containing
	client A's ID, it means that the client has
	been allowed to enter the waiting room.
	The server then informs the other clients
- SERVER_FULL the waiting room is full	that client A has entered the room.
- SERVER_DEAD the server has recently closed	Else, the server will send the status code
	indicating the reason the server cannot
	accommodate the client.
LEFT <client_id></client_id>	The client was informed that a certain
	client has left the room voluntarily.
KICK <client_id></client_id>	Client A was informed that a certain client
	has been kicked out (or is to be kicked
	out) of the room by the server.
	If <client_id> is equal to client A's ID,</client_id>
	Client A leaves the room.
SERVER_LEFT	The client was informed that the server
	has left or has been turned off. The client
	then leaves the room by closing its
	connection to the server.
	connection to the server.

<pre>PLAYERS <player1>,<player2>,</player2></player1></pre>	
<player3>,<player4></player4></player3>	The client receives player information from
	the server. Each player information
	includes the player's ID, Alias, and Ready
	status. The client updates its own player
	information to be displayed.
GAME START	The server informs the client that the
	game has started. The client then sets its
	status to playing.
GAME KILL	The client is informed that the server exits
	while the game is happening. The client
	then disconnects as well.
	then disconnects as well
GAME_UPDATE <update></update>	The client receives a game update from
	the server.
	(see variations below)
GAME_UPDATE PANELS <panel1>,<panel2>,<panel3>,</panel3></panel2></panel1>	The client receives the set of six switch IDs
<pre><pane12>, <pane15>, <pane16></pane16></pane15></pane12></pre>	that it will use for the stage.
	that it will use for the stage.
GAME_UPDATE CURRENT: <score> <client_id>:<cmd_num>:</cmd_num></client_id></score>	Client A receives a score update from the
<state_num></state_num>	server. Client A updates its own score
	value with <score> to be displayed.</score>
	Also, if the change in score is caused by
	client A (using <client_id>), it will update</client_id>
	the command assigned to it through the
	values <cmd_num> and <state_num>.</state_num></cmd_num>

Notes:

1. Each switch in a player's panel produces a command string when clicked.

The <cmd_num> indicates the switch's id in the switch database (see mingpanel.py), and the <state_num> indicates on which state the switch is currently on (toggle on/off, level 1-3, level 1-5)