CITP Documentation  
Chat Information Transition Protocol

**Server**

Protocol Fields

|  |  |
| --- | --- |
| Field: | Description |
| Name: | Username |
| Func: | See below |
| To: | The sender's distention room/user |
| Params: | The functions parameters |

Functions

|  |  |  |
| --- | --- | --- |
| Function | Description | Parameters |
| message | A text massage | The Message |
| kick | Kick a user of the group | The user |
| mute | Mute a user of the group | The user |
| appoint-manager | Appoint a manager - Make a user a manager at that group | The user |
| exit | Disconnects user from group | none |
| create | Creates a new room | Room's name  "To" contains participants |
| add | Adds a participant to a group |  |
| view-managers | View managers | None |
| view-participants | View all users in a group | Which group |

**User**

Protocol Fields

|  |  |
| --- | --- |
| Field: | Description |
| Name: | The user which preformed the function |
| Func: | What function he acted upon |
| To: | where is his victim |
| Time: | When |
| Params: | The functions parameters |

Functions

|  |  |  |
| --- | --- | --- |
| Function | Description | Parameters |
| message | A text massage | The Message |
| kick | Kick a user of the group | The user |
| mute | Mute a user of the group | The user |
| appoint-manager | Appointed manager | The user |
| joined | Someone joined the group | none |
| exit | Disconnected user from a group | none |
| view-managers | A list of all manger | mangerA, mangerB,… |
| view-participants | A list of all users in a certin group | usersA, userB, … |

The packet structure is very similar to an HTTP packet where each parameter is separated by the sequence "\r\n" except of the last parameter "Params" **which is not stated by a  
"PARAMETER: # " label** but rather begins after the sequence "\r\n\r\n"

Constants:

"Name: @#username#" - means the #username# is a manager in the room in which he is being referred to, which is why **other names are not allowed to start with an '@'**.

"To: globally" or "Params: globally" - means that this action is supposed to be sent to everybody connected to the server or is performed in the main room, which is why **no room can have the name globally.**

None – if any parameter is labeled "None" except for the message parameter inside a "message" function, the request will be discarded.

DSP Documentation  
Discover Server Protocol

To discover where on the local network the server is being run without needing to manually enter the serve's IP address on each client, every second the server sends a message to the IP broadcast of the local subnet "Here Be Server: #IP#". When a new client is trying to connect to the sever he will first need to listen to the "Here Be Server" message, after that he will be able to extract the IP and then connect to the server.