|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Situation | Comment | Request CMD | Positive Rep | Negative Rep |
| Invalid Message | All invalid messages will get this responsible. | N/A | N/A | *{* **"command"***: "INVALID\_MESSAGE",* **"info"***: "xxxxxx" }* |
| Server authenticates |  | *{* **"command"***: "AUTHENTICATE",* **"secret"** *: "fmnmpp3ai91qb3gc2bvs14g3ue" }* | N/A | *{* **"command"** *: "AUTHENTICATION\_FAIL",* **"info"** *: "the supplied secret is incorrect: ${secret\_str}" }* |
| Server communication | Server Announce | *{* **"command"** *: "SERVER\_ANNOUNCE",* **"id"** *: "fmnmpp3ai91qb3gc2bvs14g3ue",* **"load"** *: 5,* **"hostname"** *: "128.250.13.46",* **"port"** *: 3570 }* |  |  |
|  | Activity broadcast | *{* **"command"** *: "ACTIVITY\_BROADCAST",* **"activity"** *: { ... } }* |  |  |
|  | Lock request | *{* **"command"** *: "LOCK\_REQUEST",* **"username"** *: "aaron",* **"secret"** *: "fmnmpp3ai91qb3gc2bvs14g3ue" }* | *{* **"command"** *: "LOCK\_ALLOWED",* **"username"** *: "aaron",* **"secret"** *: "fmnmpp3ai91qb3gc2bvs14g3ue" }* | *{* **"command"** *: "LOCK\_DENIED",* **"username"** *: "aaron",* **"secret"** *: "fmnmpp3ai91qb3gc2bvs14g3ue" }* |
|  |  |  |  |  |
|  |  |  |  |  |
| Client Register |  | *{* **"command"** *: "REGISTER",* **"username"** *: "aaron",* **"secret"** *: "fmnmpp3ai91qb3gc2bvs14g3ue" }* | *{* **"command"** *: "REGISTER\_SUCCESS",* **"info"** *: "register success for aaron" }* | *{* **"command"** *: "REGISTER\_FAILED",* **"info"** *: "aaron is already registered with the system" }* |
| Client login |  | *{* **"command"** *: "LOGIN",* **"username"** *: "aaron",* **"secret"** *: "fmnmpp3ai91qb3gc2bvs14g3ue" }*  or  *{* **"command"** *: "LOGIN",* **"username"** *: "anonymous" }* | *{* **"command"** *: "LOGIN\_SUCCESS",* **"info"** *: "logged in as user xxx" }*  or  *{* **"command"** *: "REDIRECT",* **"hostname"** *: "123.456.78.9",* **"port"** *: 1234 }* | *{* **"command"** *: "LOGIN\_FAILED",* **"info"** *: "attempt to login with wrong secret" }* |
| Client logout |  | *{* **"command"** *: "LOGOUT" }* | N/A | N/A |
| Client activity |  | *{* **"command"** *: "ACTIVITY\_MESSAGE",* **"username"** *: "aaron",* **"secret"** *: "fmnmpp3ai91qb3gc2bvs14g3ue",* **"activity"** *: { ... } }* |  | *>A* |
|  |  |  |  |  |