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# 1 Communication protocol definition

## 1.1 Execute command

COMMAND=command name

TYPE=param|param1=value1|param2=value2|.....|paramN=valueN

TYPE=option|option 1=value1|option 2=value2|.....|option=valueN

exemple :

COMMAND=WHOISUP

TYPE==PARAMS|PSEUDO=PAUL|IP=82.218.126.92|PORT=25502

TYPE=OPTIONS

## 1.2 Response, Message format

Exemple :

```
RESPONSE=WHOISUP
```

```
TYPE=ERROR
```

```
TYPE=META|nb=3|machineID=3|sessionID=jlklj45LJJ3jkk234kmkm3424
```

```
TYPE=READ|machineID=3|pseudo=PAUL|ip=82.218.126.92|port=25502
```

```
TYPE=READ|machineID=4|pseudo=BOB|ip=82.235.166.91|port=25501
```

```
TYPE=READ|machineID=5|pseudo=ROB|ip=82.245.176.79|port=25501
```

### 1.2.1 First line RESPONSE= label

Defined is the name of the response.

The other line have a type.

### 1.2.2 TYPE=ERROR

One line for each error.

TYPE=ERROR retrun the error. The Errors are defined by a label and by a code :

```
TYPE=ERROR|LABEL= error|code=12
```

### 1.2.3 TYPE=META

Only one line META should be return, defined the common data of the message.

### 1.2.4 TYPE=READ

One line for each read. Each read have the same key.

### 1.2.5 Exemple :

```
RESPONSE=WHOISUP
```

```
TYPE=ERROR
```

```
TYPE=META|nb=3|machinID=1
```

```
TYPE=READ|machinID=1|pseudo=PAUL|ip=82.218.126.92|port=25502
```

```
TYPE=READ|machinID=2|pseudo=BOB|ip=82.235.166.91|port=25501
```

```
TYPE=READ|machinID=3|pseudo=ROB|ip=82.245.176.79|port=25501
```

See [2.1.2 Response / message](#) for description.

## 2 Available Command

### 2.1 WHOISUP

#### 2.1.1 command

This command is used to open a session and get the list of connected machine.

##### PARAMS :

- pseudo ( string ) : pseudo od the machine
- ip ( ip ) : the machine as a sockect listen on this ip address
- port ( integer ) : the machine as a sockect listen on this port

##### OPTIONS :

- none

Exemple :

```
COMMAND=WHOISUP
TYPE==PARAMS|pseudo=PAUL|ip=82.218.126.92|port=25502
TYPE=OPTIONS
```

#### 2.1.2 Response / message

**RESPONSE=WHOSISUP**

##### META :

- sessionID ( string ) : session id provide by the server, when the machine send another command ( IAMDOWN )to the server, it have to give this sessionID as parameters.
- MachineID ( integer ) : id of machine provide by the server. This id change for each new connexion
- nb ( integer ) : number of connected machines.

##### READ :

- machineID ( integer ) : machine id
- pseudo ( string ) : pseudo of the machine
- ip ( ip ) : the machine as a sockect listen on this ip address
- port ( integer ) : the machine as a sockect listen on this port

##### ERROR :

Exemple :

```
RESPONSE=WHOISUP
TYPE=ERROR
TYPE=META|nb=3|machineID=12|sessionID=kjnsdkjk8798kjhnJHJKH67808UHN
TYPE=READ|machineID=12 |pseudo=PAUL|ip=82.218.126.92|port=25502
TYPE=READ|machineID=13 |pseudo=BOB|ip=82.235.166.91|port=25501
TYPE=READ|machineID=14|pseudo=ROB|ip=82.245.176.79|port=25501
```

## 2.2 IAMDOWN

Close the session, remove the machine from the list of connected machine.

### 2.2.1 Command

#### PARAMS :

- sessionID (string) : session identifier

#### OPTIONS :

- none

Exemple :

```
COMMAND=IAMDOWN
TYPE==PARAMS|sessionID=kjnsdkjk8798kjhnJHJKH67808UHN
TYPE=OPTIONS
```

### 2.2.2 Response

RESPONSE=IAMDOWN

#### META :

- processed ( integer ) : 1 on success / 0 if failed

#### READ :

- none

#### ERROR :

- CODE ( integer ) : 56
- LABEL( string ) : NO\_VALID\_SESSION

## 2.3 SAY

Send a message to another machine ( chat )

### 2.3.1 Command

#### PARAMS :

- macineID ( integer ) : my machine ID, trough this parameters , the machine who has received the message knows who send the message.
- message ( string ) : message to send

#### OPTIONS :

- none

Exemple :

```
COMMAND=IAMDOWN
TYPE==PARAMS|sessionID=kjnsdkjk8798kjhnJHJKH67808UHN
TYPE=OPTIONS
```

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## 3 Diagrame of sequence

