

Open-RDC communication protocol

Open-RDC uses TCP communication between the two hosts to send chat, connection and input devices commands. It also uses UDP only for sharing desktop view.

The program uses port 15000 for TCP connection and port 15001 for UDP.

TCP connection commands

Data sent via TCP is formatted in JSON. The string sent contains a field of type string with the command and a second field which is a JSON object which will be optional and contains the parameters of the request. An example of a request is shown below.

```
{
  "command": "my-command",
  "params": {
    "param1": "param1"
  }
}
```

Responses are also formatted in JSON. Each response string contains a field that could be any type the is called "data" and contains the response. Examples of responses received are shown below.

One string response

```
{
  "data": "my-data"
}
```

JSON object response

```
{
  "data": {
    "data1": "my-data1",
    "data2": "my-data2"
  }
}
```

Commands

- Opening connection:
The request to open the connection is made by the user who wants to remotely control the device

- Request:

```
{
  "command": "open",
  "params": {
    "username": "your-username"
  }
}
```

- Affirmative response:

User accept connection request

```
{
  "data": "y"
}
```

- Negative response:
User refuse connection request

```
{  
  "data": "n"  
}
```

- Close connection:

The request to close the connection can be sent by either host

- Request:

```
{  
  "command": "close"  
}
```
- Response:

```
{  
  "data": "ok"  
}
```