

# Spider keylogger network protocol

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Tuesday, October 14th 2014

## 1 Handshake

Client: protocol version

Client: identifier

Server: response

**protocol version** 4 bytes, specifies protocol version to check for compatibility with the server

**identifier** byte array, terminated by a null byte. Used by the server to group log by client.

**response** a Short response, defined below

Upon connection to the server, the client must follow this handshake until receipt of the server's response. Failure to do so will result in ignored commands or rejection of the client's connection.

## 2 Keystroke

Client: 1

Client: size

Client: text

**1** 1 byte, this is the command identifier that defines what the rest of the packet will be

**size** 2 bytes, the size of text

**text** byte array, utf-8 encoded string

The client can send keystrokes separately whenever it catches them or it can send text blocks. It may construct text blocks based on the time that passes between keystrokes to decide if they belong to the same block. Blocks would be sent when sufficient time passes after the insertion of the last keystroke. Each block received by the server is stored separately.

### 3 Mouse click

Client: 2  
Client: button  
Client: position

**2** 1 byte, this is the packet identifier that defines what the rest of the packet will be

**button** 1 byte, 0 = left click, 1 = middle click, 2 = right click

**position** 4 bytes, 2 for position X, and the other 2 for position Y

Mouse clicks are sent whenever they are caught.

### 4 Command

Server: 10  
Server: length  
Server: command  
Client: data

**10** 1 byte, this is the packet identifier that defines what the rest of the packet will be

**length** 2 bytes, length of command, in bytes

**command** byte array, encoded ASCII string interpreted by client

**data** a Command response, defined below

### 5 Short reponse

Server: 11  
Server: success

**11** 1 byte, this is the packet identifier that defines what the rest of the packet will be

**success** 1 byte, 1 = success, 0 = failure

### 6 Command response

Client: 3  
Client: success  
Client: size  
Client: data

**3** 1 byte, this is the packet identifier that defines what the rest of the packet will be

**success** 1 byte, 1 = success, 0 = failure

**size** 4 bytes, size of data

**data** byte array, various possibilities of data depending on the command that caused the response