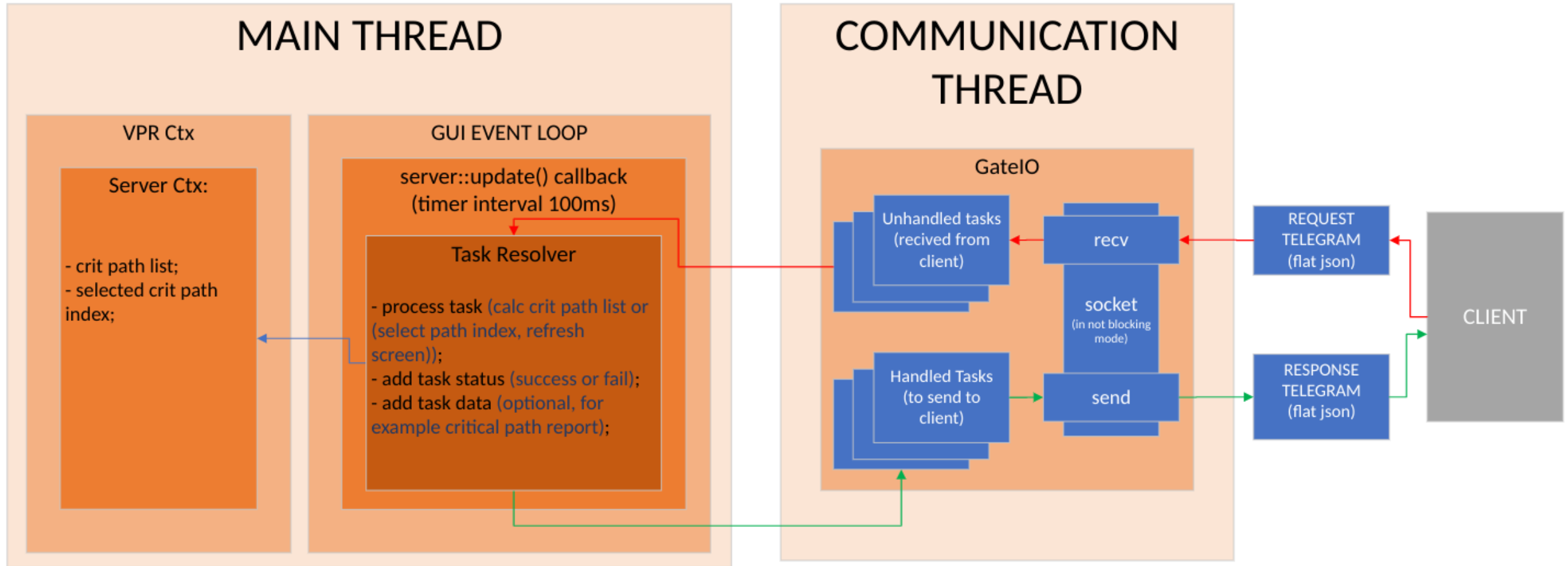


VPR server mode workflow



Start VPR in server mode

`vpr --server --port 65000`

start timer with
server::update
callback and
interval 100ms

start COMM_THREAD,
where the socket with
specified port number will
be started

Communication: telegram structure

Request:



Response:



Communication: options field in telegram

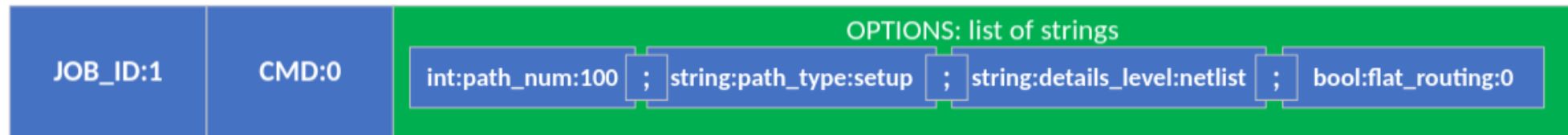
- Single option pattern.



The diagram illustrates a single option pattern within a telegram. It consists of three green rectangular blocks arranged horizontally. The first block contains the text '{option_data_type}', the second block contains a colon ':', the third block contains '{option_name}', the fourth block contains a colon ':', and the fifth block contains '{option_value}'. The blocks are separated by thin white vertical lines.

{option_data_type} : {option_name} : {option_value}

- An example demonstrating specific options based on the 'Get Path List Request'.



Communication: telegrams examples

- "Get Path List" request telegram.

```
{"JOB_ID":"1","CMD":"0","OPTIONS":"int:path_num:6;string:path_type:setup;string:details_level:netlist;bool:is_flat_routing:0"} {0x17}
```

- "Select Path" request telegram.

```
{"JOB_ID":"2","CMD":"1","OPTIONS":"int:path_index:0;string:hight_light_mode:Crit Path Flylines"}{0x17}
```

- "Select Path" response telegram.

```
{"JOB_ID":"2","CMD":"1","OPTIONS":"int:path_index:0;string:hight_light_mode:Crit Path Flylines","DATA":"","STATUS":"1"}{0x17}
```