

Protocol for Remote Control of BrainDesigner via UDP

Remote Control via UDP. BrainDesigner listens on configurable port (standard: 44044). All communication using XML commands.

Request: `<command type="info" />`

Answer: `<structure name="string">
 % Name of the current structure
 <input name="string" id="int" />
 % List of all inputs
 ...
 <param name="string" min="double" max="double"
 value="double" />
 % List of all parameters, with name min, max and
 % value defined by the sliders in the BrainDesinger
 ...
 <output name="string" id="int" />
 % all outputs of the structure
 ...
</structure>`

Request: `<command type="run">
 <input id="int" />
 % wanted inputs
 ...
 <output id="int" />
 % wanted outputs
 ...
 <param name="string" value="double" />
 % parameters to set
 ...
 <steps value="int" />
 % run X timesteps
</command>`

Answer: `<s n="int">
 % step number
 <i v="double" />
 <o v="double" />
 % wanted inputs and outputs in order like in answer
 % of info command
 ...
<\s>`

Errors: `<answer type="error" message="string" />`

Possible error messages:

- Could not parse XML
- Please send a command
- Unknown type of command
- Unknown value for parameter 'X'
- Could not parse the opened structure