PLC Control API Documentation

This API provides endpoints for PLC control, supporting both GET and POST requests. All endpoints return standard JSON responses.

> Default server port: `5001`

Table of Contents

Connect to PLC `/connect_plc`

- **Method**: GET / POST
- **Parameters**:
  - `Host` (string, optional, default: `192.168.1.11`)
  - `Port` (int, optional, default: `502`)
- **Response**:

```
{
"Function": "ConnectPLC",
"Result": true,
"Message": "Connect PLC Successful 192.168.1.11:502",
"timestamp": "2025-01-25 13:41:27_396084"
}
```

- **Example**:

```
curl "http://127.0.0.1:5001/connect_plc?Host=192.168.1.11&Port=502"
```

Disconnect PLC `/disconnect_plc`

- **Method**: GET / POST
- **Parameters**: None
- **Response**:

```
{
"Function": "DisconnectPLC",
"Result": true,
"Message": "Close Successful",
"timestamp": "2025-01-25 13:43:47_847322"
}
```

- **Example**:

```
curl "http://127.0.0.1:5001/disconnect_plc"
```

Execute PLC Command `/execute_command`

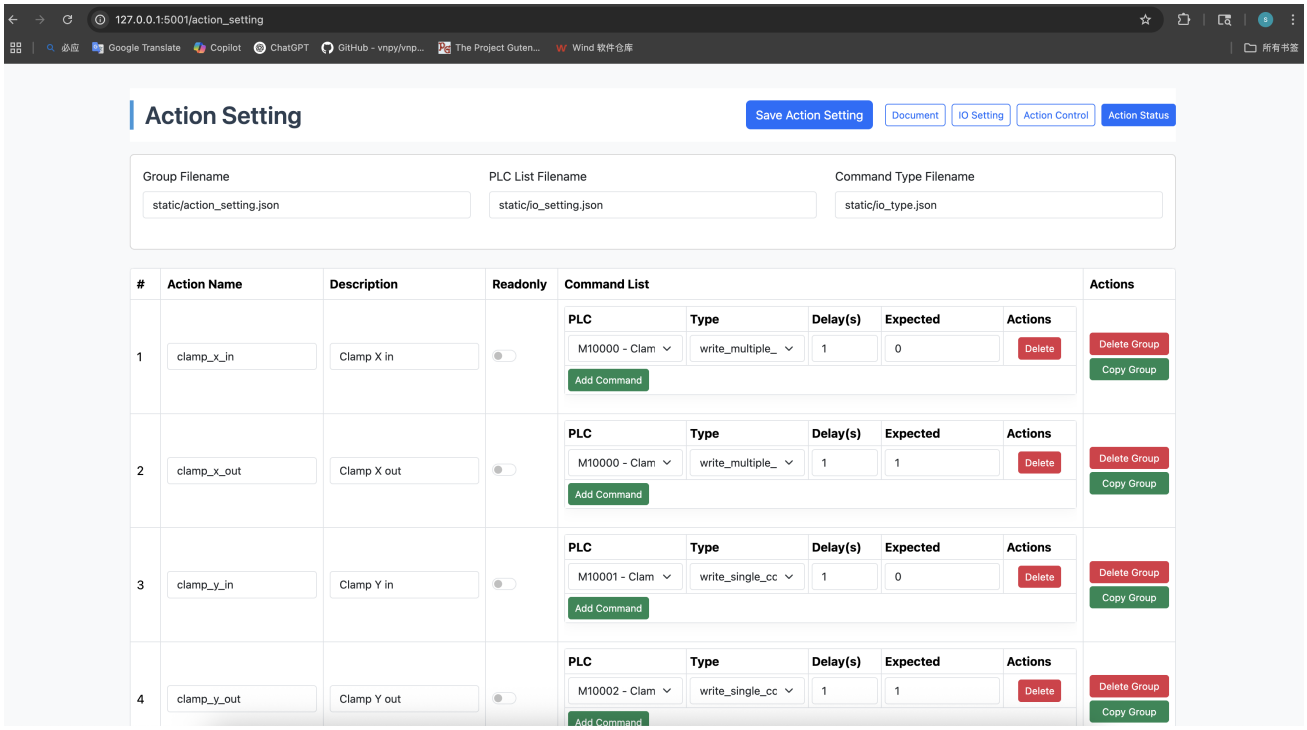
- **Method**: GET / POST
- **Parameters**:
  - `action` (string, required)
- **Response**:

```
{
"Function": "execute_plc_command",
"Result": true,
"Message": "sample_action command successful",
"timestamp": "2025-01-25 13:44:32_943210"
}
```

- **Example**:

```
curl -X POST "http://127.0.0.1:5001/execute_command" -H "Content-Type: application/json" -d '{"action": "sample_action"}'
```

Note: The available action names can be found on the action configuration page.



Get API Version `/get_version`

- **Method**: GET / POST
- **Parameters**: None
- **Response**:

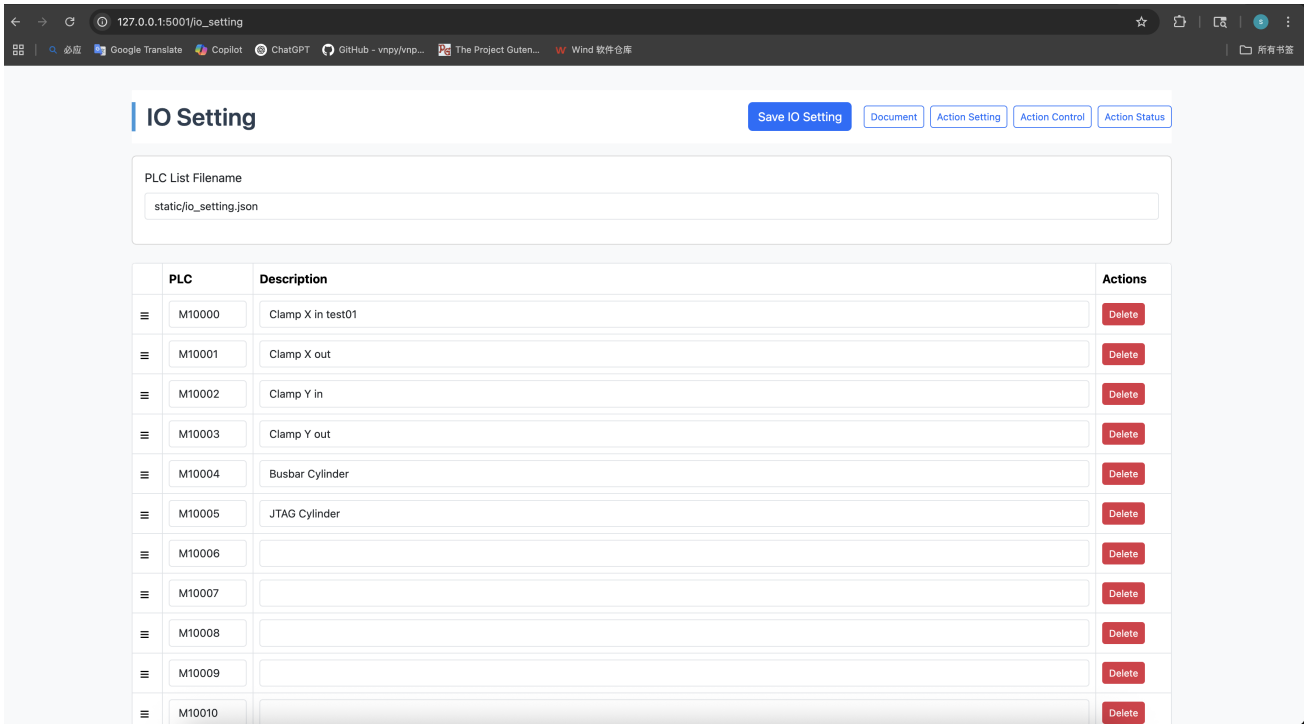
```
{
"Function": "get_api_version",
"Result": true,
"Message": "1.0.0",
"timestamp": "2025-01-25 13:50:00_000000"
}
```

- **Example**:

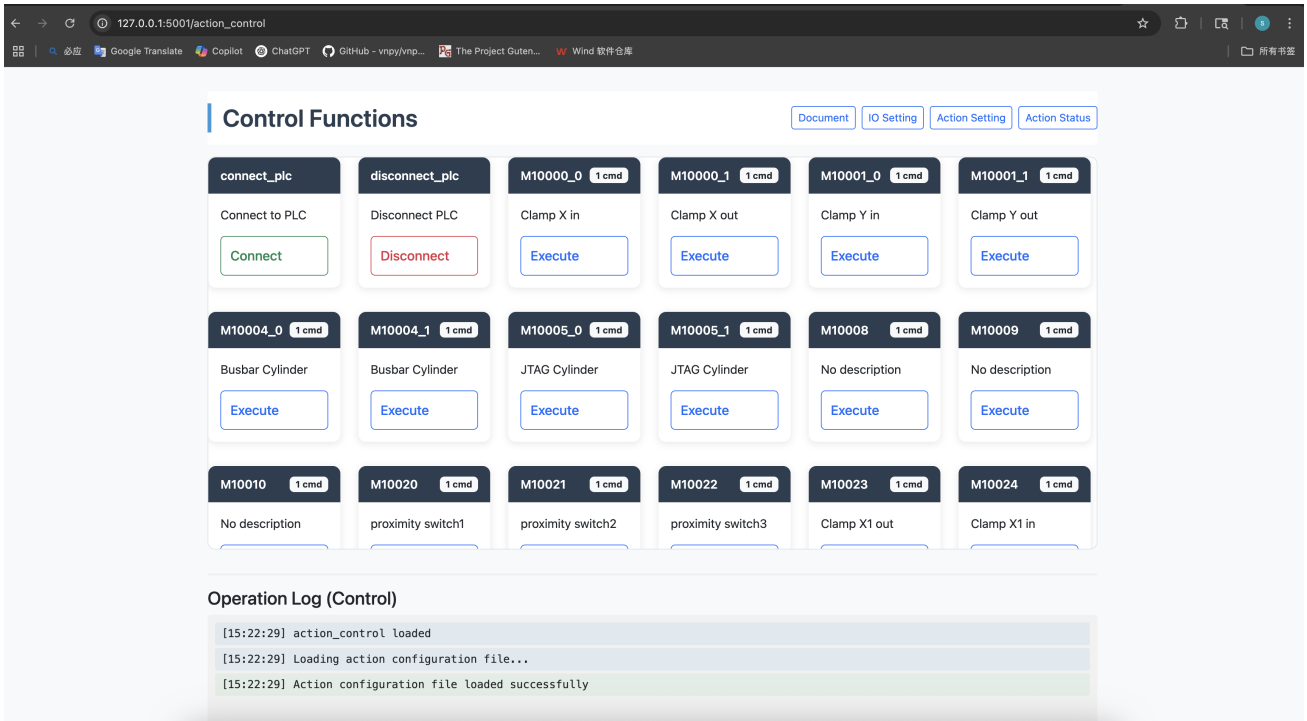
```
curl "http://127.0.0.1:5001/get_version"
```

Page Endpoints

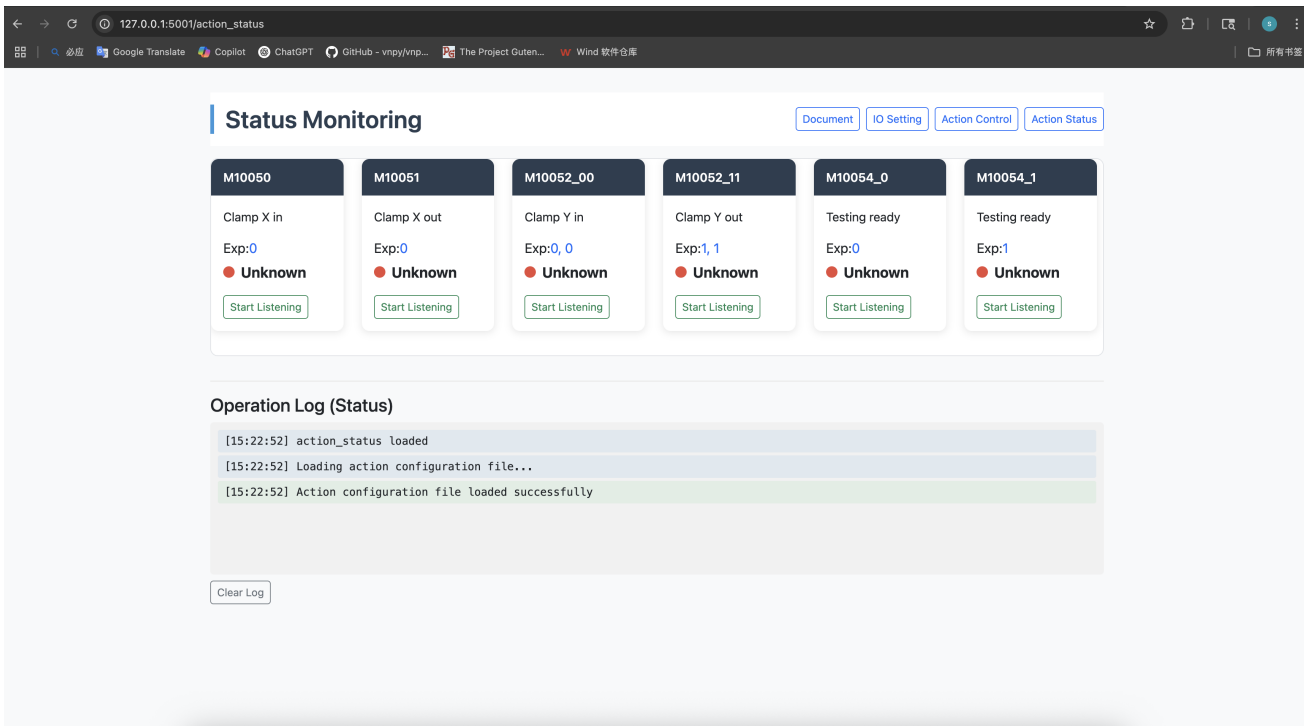
- `/io_setting` — IO configuration page



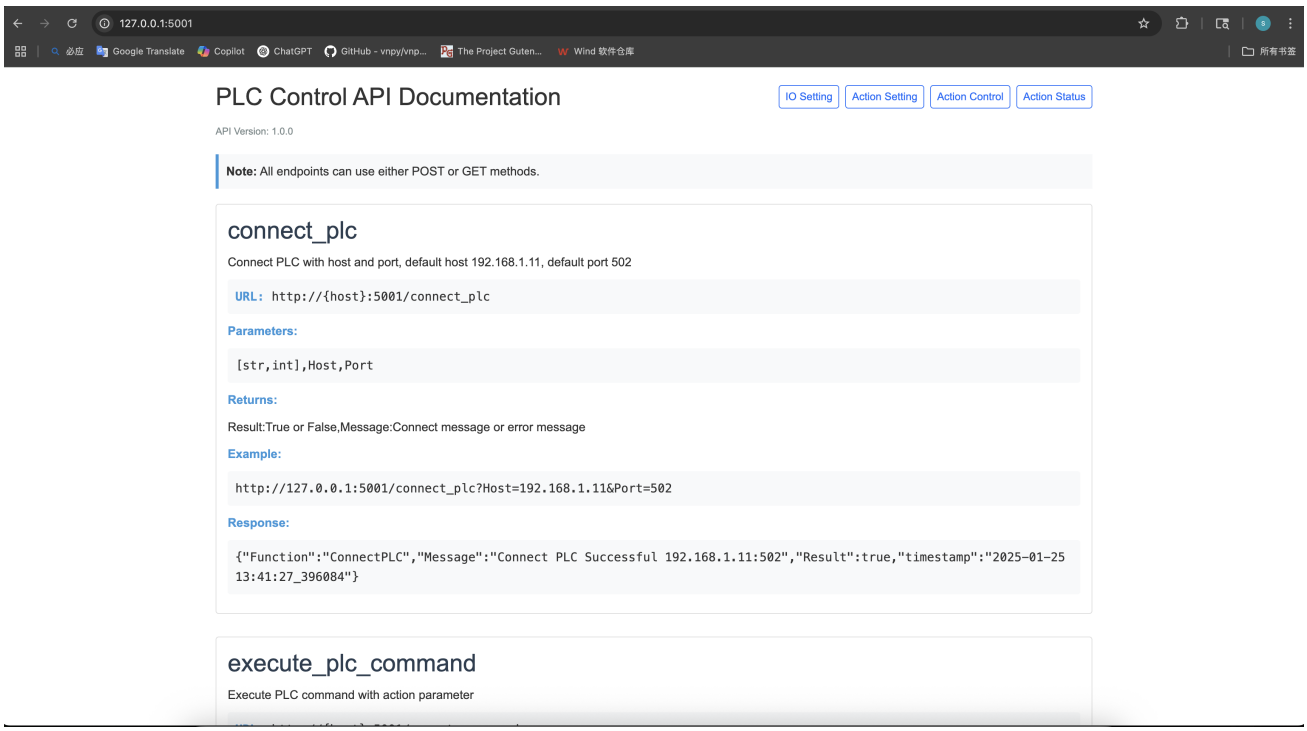
- `/action_setting` — Action configuration page
-
- `/action_control` — Action control page



- `/action_status` — Status monitoring page



- `/` — API documentation page (supports `?format=json` for JSON format)



Error Response Examples

404:

```
{
  "Function": "Error",
  "Result": false,
  "Message": "Resource not found",
  "timestamp": "..."
}
```

500:

```
{
  "Function": "Error",
  "Result": false,
  "Message": "Internal server error",
  "timestamp": "..."
}
```

For further assistance, please contact the developer.