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ZConnect Documentation

0.1.1

ZConnect is a universal GPIO handling server

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1.0 Starting Zconnect

usage: zconnect.py [-h] [-v] [-p PORT] [-s SALT] [-t] [-l] [-w]

optional arguments:

-h,	--help	Show this help message and exit
-v,	--version	Show program's version number and exit
-p	PORT, --port PORT	Defines the port to run on
-s	SALT, --salt SALT	Defines the salt for token authentication
-t,	--nosec	Disables token authentification
-l,	--nolog	Disables request logging
-w,	--nowar	Disables GPIO warnings
-d,	--debug	Debug mode

If no port (-p) is specified, ZConnect will use port 1337.
If no salt (-s) is specified, Zconnect will use „m3t4s3c“ as salt.

1.1 Token Authentication

„192.168.44.133:1337/?pin=<intPin>&action=setState&state=<intState>&token=<strToken>“

All parameters are required. The definitions are as follows:

intPin	=	The pin number on the RaspberryPi. Between 1 and 26
intState	=	„0“ or „1“
strToken	=	SHA1 hexdigest

Token syntax (SHA1) e.g. „cf23df2207d99a74fbe169e3eba035e633b65d94“.

If token authentication is used, any request requires the additional „token“ parameter.
The value is the SHA1 hexdigest of the current date (dd/mm/yyyy/) + the salt.

1.2 Set States

„192.168.44.133:1337/?pin=<intPin>&action=setState&state=<intState>“

All parameters are required. The definitions are as follows:

intPin	=	The pin number on the RaspberryPi. Between 1 and 26
intState	=	„0“ or „1“

1.3 Get States

„192.168.44.133:1337/?pin=<intPin>&action=getState“

All parameters are required. Returns the current pin state.
If „2“ is returned, the pin was not used, yet. The definitions are as follows:

intPin	=	The pin number on the RaspberryPi. Between 1 and 26

1.4 Set Names

„192.168.44.133:1337/?pin=<intPin>&action=setName&name=<strName>“

All parameters are required. Names are automaticly saved and loaded.
The definitions are as follows:

intPin	=	The pin number on the RaspberryPi. Between 1 and 26
strName	=	The name you want to apply to the pin

1.5 Get Names

„192.168.44.133:1337/?pin=<intPin>&action=getName“

All parameters are required. Returns the pin name.
If „none“ is returned, the pin was not named, yet. The definitions are as follows:

intPin	=	The pin number on the RaspberryPi. Between 1 and 26