Protocol Documentation - Server/database and Devices group

Homedork - Interactive Smart House

Revision History

Name	Associated Letter	
Sam Mcmurray	A	
Wills Ekanem	В	

Date	Version	Description	Author
-	-	-	-
-	-	-	-
21/11/2021	1.0	Communication protocol	В
15/11/2021	1.4	Updated protocol and entire document	A,B

Abbreviations

- 1) Local Hub LB
- 2) Database Server DBS

Communication method

A TCP socket is set up between the DBS and LB address gotten from the device being updated. The socket connection isn't encrypted for now.

Communication format

DEVICE-TYPE:PIN-NUMBER:ACTION

ACTION \rightarrow **ON** or **OFF** in terms of **STATE**. Double value range (101) for **LEVEL**.

DEVICE-TYPE \rightarrow LAMP, FAN, CURTAIN, THERMOMETER, ...

PIN-NUMBER \rightarrow Pin slot of connected device.

Action: Client → Web or mobile app

Nr	Operation	Command	Response
1	Turn device on	deviceType:pinNumber:ON	Success/Failure
2	Turn device off	deviceType:pinNumber:OFF	Success/Failure
3	Slide device level	deviceType:pinNumber:44	Success/Failure

Action: User → on physical LB

Nr	Operation	Command	Response
1	Turn device on	deviceType:pinNumber:ON	Success/Failure
2	Turn device off	deviceType:pinNumber:OFF	Success/Failure
3	Slide device level	deviceType:pinNumber:44	Success/Failure