

# LIGHTS, CAMERA, ACTION: DO USERS UNDERSTAND THE IMPLICATIONS OF HOME AUTOMATION?

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## WHY DO WE CARE WHERE OUR INFORMATION GOES?

Home automation has become increasingly popular, with new interconnected home devices being introduced on a regular basis. While the benefits advertised by these devices have enticed end users, they may not fully understand the complexities of using these devices. Gaps in end users' understanding of how these devices operate, use and share their data (e.g., location tracking or automatically captured picture) can leave them vulnerable to security and privacy threats.

## DO USERS THINK THERE IS DATA ON THEIR DEVICES

	Camera	Light	Lock
Data on Device	20-Yes	16-Yes	13-Yes
Sensitive Data	18-Yes	13-Yes	17-Yes
Share Data	10-Yes	8-Yes	7-Yes

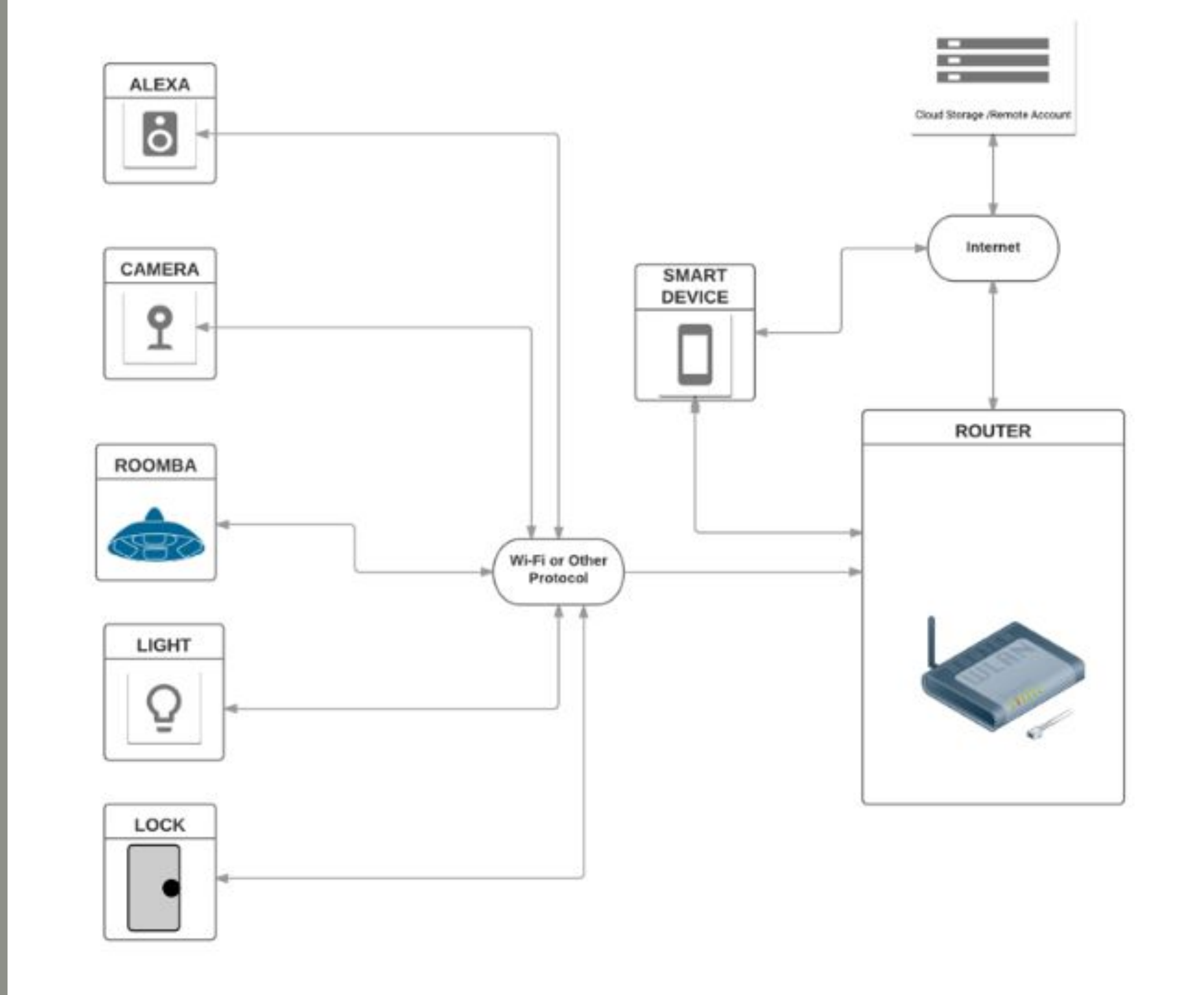
## THE USER STUDY

- 24 participants
- 12 technical and nontechnical.
- Background and IoT background survey
- Pre-Map of how the devices talk
- Participants were then asked to set up a Philips Hue light, Nest Camera and Insteon Lock.
- Post-Map of how the devices talk
- Scenario Questions
- Technical Survey

## TECHNICAL DEGREE OR NOT DOESN'T CHANGE USERS UNDERSTANDING

	Lights	Camera	Lock
Technical	3(25%)	25(52.08%)	15(41.67%)
Non-Technical	5(41.67%)	23(47.92%)	12(33.33%)

Incorrect Answers to Scenario Questions



Home Automation Network Architecture

Users don't understand their devices are talking and sharing their information outside of their home and/or smart device

Insteon lock → Controller → Internet

Participant 15's Device map for Insteon Lock

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