



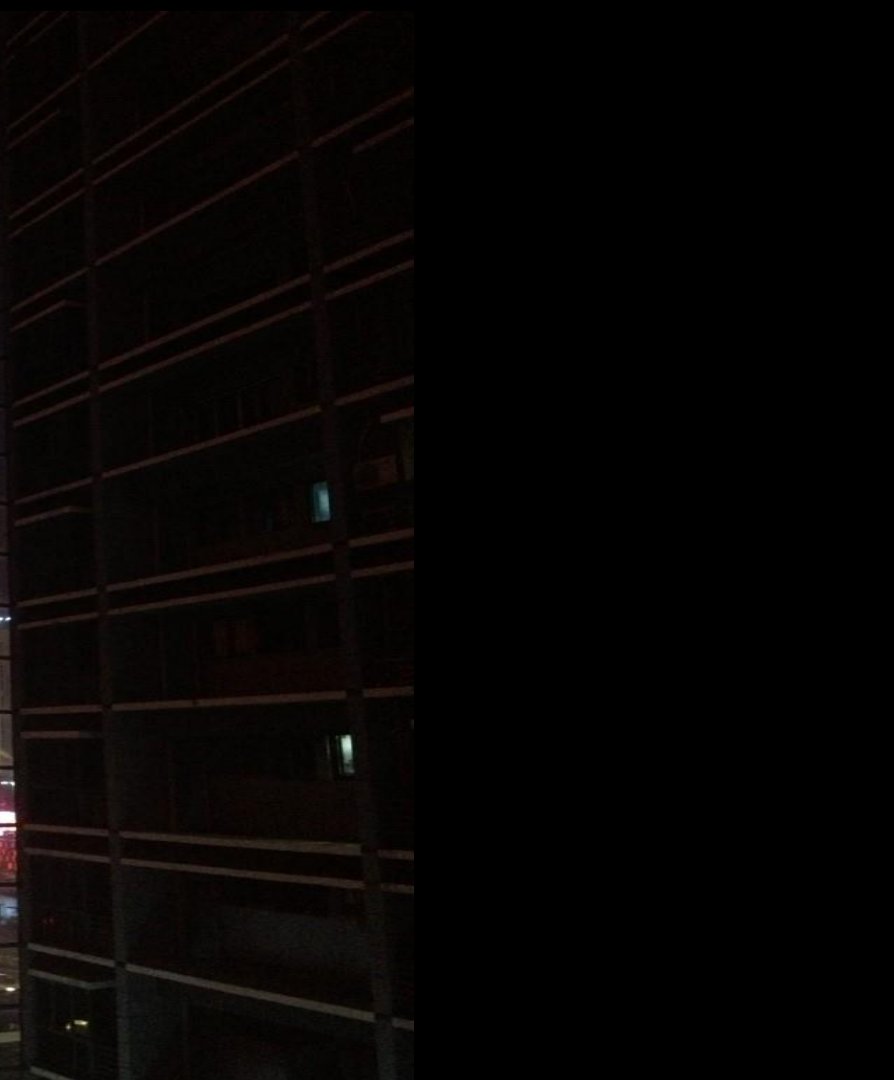
**PREVIEW:**

**LEARN HOW TO CONTROL EVERY ROOM AT A  
LUXURY HOTEL REMOTELY: THE DANGERS OF  
INSECURE HOME AUTOMATION DEPLOYMENT**

**by Jesus Molina**

**THE ST. REGIS SHEN ZHEN**

HOTEL  
IS HERE







  
**black hat**<sup>®</sup>  
USA 2014





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- This is NOT unique to the St. Regis Shen Zhen
  - Many hotel are starting to roll this amenity
  - The same reasons as Home Automation (decrease energy usage, comfort) plus added benefits
    - Sell services by bundling
    - Aid in the discovery of room features

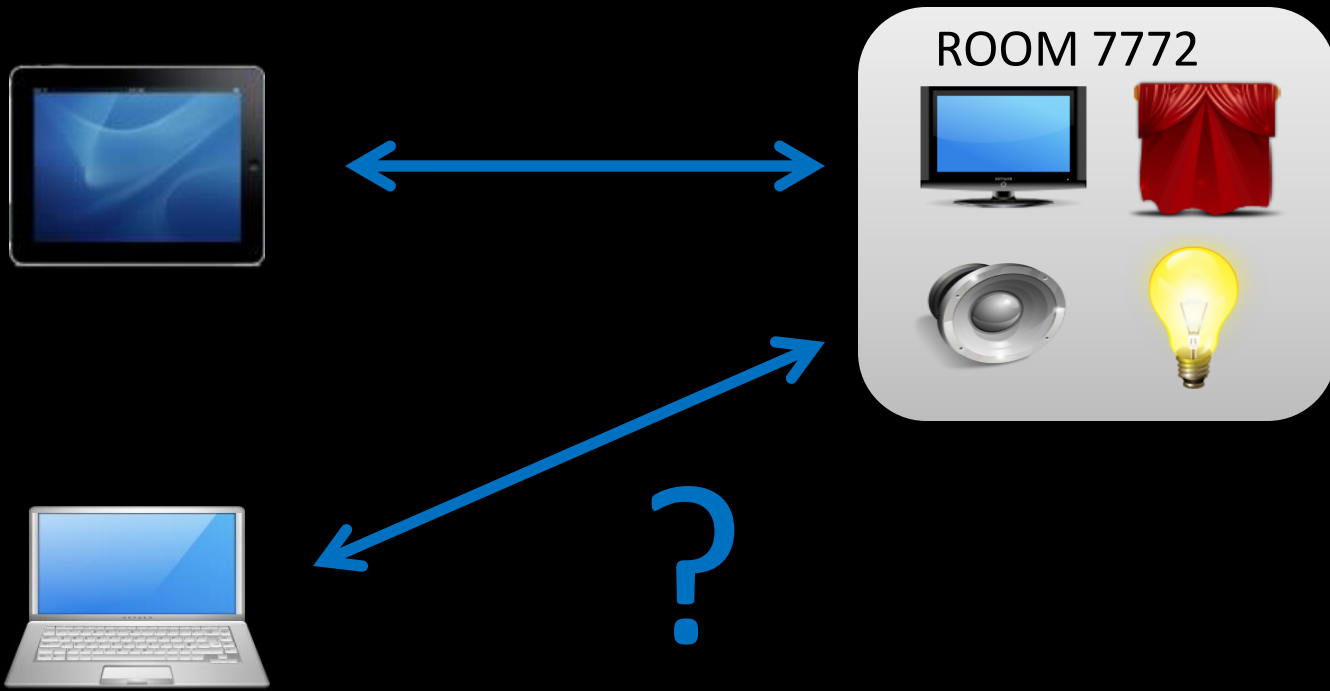
- 
- But how the room control works?????
  - This question is very relevant because...

# Hotel Security

- Hotel security is hard!
- Hotels share amenities in both time and space
- With more technology in the rooms, more sophisticated security is required
- Room key evolution



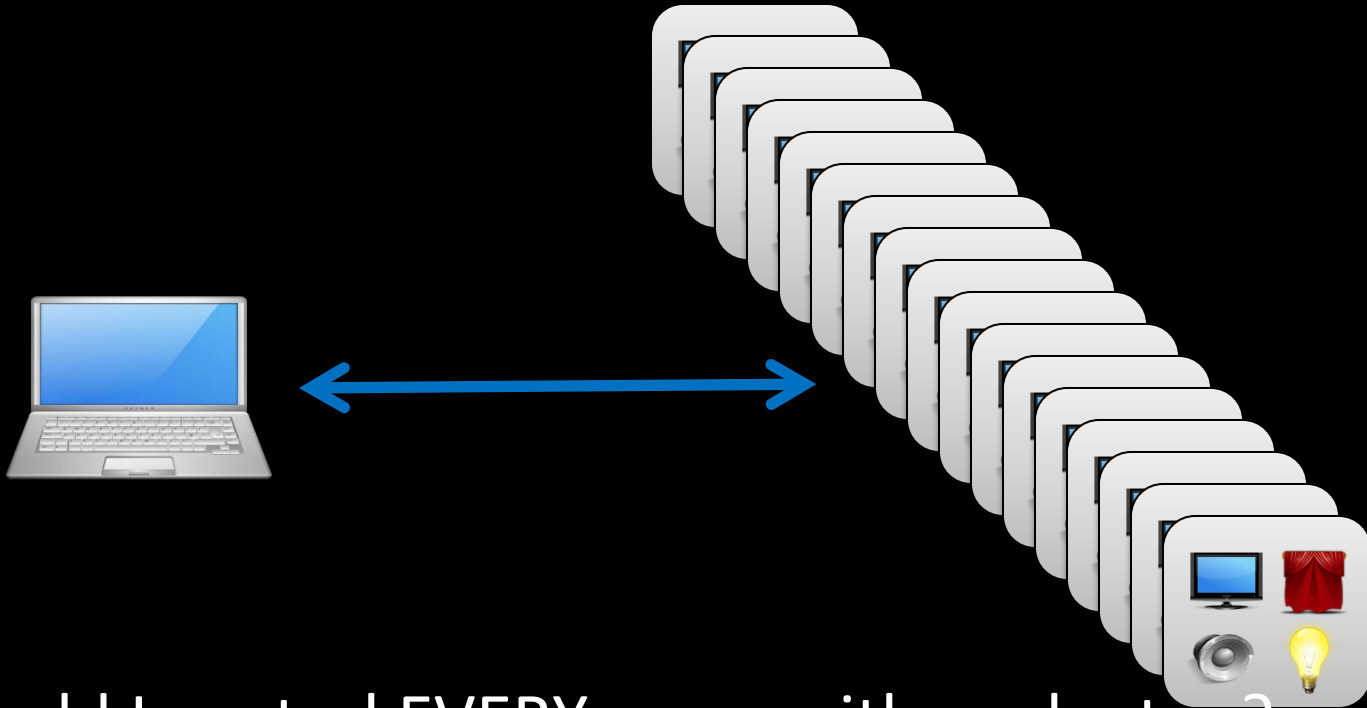




Could I control the room with my laptop?

# The Elephant in the Hotel Room

- I was a guest at the hotel, not a planned security evaluation
- Limited time and resources
- Fear of making a bad mistake
- I **did not** hack anything
  - But that will have not matter much should I have got caught blinking the corridor lights by security



Could I control EVERY room with my laptop?

NO IPAD ☹️



# Pranking in the Age of the IoT

- Spooky room joke
- Stage a Hollywood Hack in real life
- Create an interactive game
- Send your own ideas to  
[@verifythetrust](#) [#hotelhack](#)



# So what will be in the talk?

- Large scale automation protocols are...old and/or closed
- What does this mean for the IoT
- Step by Step dissection of the security evaluation
- Discussion of home automation protocols and security
- KNX!
- Maybe (bad) Videos 😊

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