

## Case Details

### Introduction

At 15:31 on 2017-07-17 Chuncheon Emergency Services received a phone call from a local apartment building manager. A man that lived in the apartment building claimed that his wife was attacked inside their apartment. Police responded.

15:40 2017-07-17

Police arrive on-scene, and find the husband (Simon HALLYM) and apartment manager (KIM Kil Whan) outside of the apartment.

The apartment is secured, and a woman is found laying on the ground in the living room. She is not breathing and has no pulse. From an initial assessment it appears as though she was stabbed multiple times. Medical services arrive and confirm she is deceased.

15:50 2017-07-17

Investigator 1 interrogates the building manager (Mr. KIM) and husband (Mr. HALLYM). The building manager claims the Mr. Hallym ran down the stairs screaming for the police.

Full transcripts of the interrogation of Mr. Hallym can be found in Appendix A.

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A search of the apartment revealed the following digital devices:

1. Door sensors at the main door
2. Motion sensor on the shelf
3. Wristband on the floor where the victims' (Betty Hallym) body was found
4. Mobile Phone on the floor where the victims' (Betty Hallym) body was found
5. Amazon Echo device
6. Google OnHub wifi router connected to SmartThings Hub and IPTime switch
7. Samsung Smart things hub
8. IPTime Switch OnHub (6) and Modem (ISP)
9. Raspberry Pi connected via HDMI to TV
10. Bluetooth headphone
11. Door sensor at the bedroom door
12. Husband's (Simon Hallym) mobile phone

### Data Acquisition

- Acquired image of Betty Hallym's Samsung Note II (Black)
  - /002-BettyNote2Black/SHV-E250L\_Physical\_20170717/
- Synced Simon Hallym's Samsung Note II (White) with Samsung SmartThings App
- Acquired image of Simon Hallym's Samsung Note II (White)
  - /003-SimonNote2White/SHV-E250S\_Physical\_20170718/
- Acquired image of Raspberry Pi (SmartTV)
  - /003-SimonNote2White/SHV-E250S\_Physical\_20170718/
- Acquired diagnostic report from Google OnHub
  - 004-Onhub-diagnostic-report
- Acquired data from Amazon Echo / Alexa Cloud UI
  - 005-Amazon-Ech-Alexa-Web-Scrape
- Acquired SmartHome network traffic logs from Acme, Inc.
  - 006-SmartHome-Cloud-Provider-AcmeInc-NetworkDump.tcpdump

# Appendix A: Interrogation of Simon Hallym

15:49 2017-07-17

1. What is your full name?

– Simon Hallym

2. What do you do?

– I am a computer programmer.

3. Are you living in this Home?

– Yes, I am living with Betty. She is my wife, Betty Hallym.

4. Could you please describe what happened?

– I was watching a movie. After finishing the movie, I came into the living room and found her on the ground.

5. Do you know someone who would want to hurt your wife?

- No. No one.

6. Did she have friends or acquaintances in the area?

- I don't think so. We just moved here.

7. Where did you watch the video?

– I was in our bedroom.

8. Could you remember what time?

– Almost 3?, I don't know exactly. Maybe around 3pm. I think that's when we got home.

9. When you was watching video, didn't you hear anything?

– She listens to music, so I used headphones. I didn't hear anything.

10. Can you remember what you were watching?

– It was a drama from Youtube.

11. We found SmartThings sensors around your home. Do you have access to this data?

– Yes, I get it on my phone.

12. May we have permission to access your phone?

- Yes, ok.

13. May we have permission to access your SmartThings data?

- Alright.

14. Can you identify this black Samsung Note II, and Mi step monitor?

– Those are Betty's.

15. Do you know any passwords for the phone?

- No.

16. What are the passwords to your WIFI?

- Home is iot14306, but the guest network is iot14305