

Test Document

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Event Ordering by Synchronized Physical times(Test cases)-

Test case 1- When user comes into home-

When user comes into home, door sensor first detects and then motion signal detects. Hence messages should be processed in the order of door sensor and later motion sensor at server. To do that first signals are stored in latest events entry and then after processing these messages and taking a decision, these entries are discarded from latest entry table.

In this scenario, door signal should be processed first and then motion signal as per the FSM, now the server waits at state 2 for presence beacon. Server searches for beacon signal in latest entries if it doesn't find, it will wait for 5 seconds there. In the following figure, this test case is simulated where messages can be clearly seen. First door sensor data received and then motion, server waits for both data and take a decision to process door first because it happened first and motion next as can be seen by physical clock times. Server searches for presence in database entries, which doesn't have waited for 5 seconds in which it reached the server. Now server changes system state to HOME and switch on bulbs and outlets.

```
2017-04-03 04:23:43,748 - INFO - Processing register request...
2017-04-03 04:23:43,748 - INFO - added device to db...
2017-04-03 04:23:43,749 - INFO - Processing register request...
2017-04-03 04:23:43,749 - INFO - added device to db...
2017-04-03 04:23:47,117 - INFO - Processing register request...
2017-04-03 04:23:47,138 - INFO - added device to db...
2017-04-03 04:23:48,359 - INFO - Processing register request...
2017-04-03 04:23:48,365 - INFO - added device to db...
2017-04-03 04:23:50,327 - INFO - Processing register request...
2017-04-03 04:23:50,345 - INFO - added device to db...
2017-04-03 04:23:52,093 - INFO - Processing register request...
2017-04-03 04:23:52,115 - INFO - added device to db...
2017-04-03 04:23:53,831 - INFO - Processing register request...
2017-04-03 04:23:53,894 - INFO - added device to db...
2017-04-03 04:23:55,376 - INFO - Processing register request...
2017-04-03 04:23:55,379 - INFO - added device to db...
[0: u'server', 1: u'serverbackend', 2: u'doorsensor', 3: u'motionsensor', 4: u'presencesensor', 5: u'tempsensor', 6: u'lightbulb', 7: u'smartoutlet']
[u'serverbackend', u'doorsensor', u'motionsensor', u'presencesensor', u'tempsensor', u'lightbulb', u'smartoutlet']
2017-04-03 04:23:55,432 - INFO - started vector clock
user selection clock
2017-04-03 04:24:21,430 - INFO - Pushed state to server
2017-04-03 04:24:21,434 - INFO - Door sensor data received
2017-04-03 04:24:21,435 - INFO - [0, 0, 1, 0, 0, 0, 0, 0]
2017-04-03 04:24:21,452 - INFO - [0, 1, 0, 0, 0, 0, 0, 0]
2017-04-03 04:24:21,459 - INFO - [0, 2, 0, 0, 0, 0, 0, 0]
2017-04-03 04:24:21,472 - INFO - [0, 3, 0, 0, 0, 0, 0, 0]
2017-04-03 04:24:24,716 - INFO - Pushed state to server
2017-04-03 04:24:24,718 - INFO - Motion sensor data received
2017-04-03 04:24:24,722 - INFO - Door sensor data received at1260.441525
2017-04-03 04:24:24,722 - INFO - Motion sensor data received at1440.727028
2017-04-03 04:24:26,240 - INFO - Pushed state to server
2017-04-03 04:24:26,242 - INFO - Presence sensor data received
*****USER ENTERS HOME*****
2017-04-03 04:24:26,254 - INFO - Pushed state to server
2017-04-03 04:24:26,257 - INFO - [0, 3, 1, 0, 0, 0, 0, 0]
2017-04-03 04:24:26,262 - INFO - [0, 4, 1, 0, 0, 0, 0, 0]
2017-04-03 04:24:26,266 - INFO - Switching on lightbulb
2017-04-03 04:24:26,290 - INFO - Pushed state to server
2017-04-03 04:24:26,298 - INFO - [0, 3, 1, 0, 0, 0, 0, 0]
2017-04-03 04:24:26,304 - INFO - [1, 5, 1, 0, 0, 0, 0, 0]
2017-04-03 04:24:26,309 - INFO - Switching on outlet
```

Figure 1. User Enters Home

Test case 2 - When user exit home-

In this case motion happened before door sensor which can be seen in physical time stamps printed in simulations. Hence user is exiting home and server changes its state to AWAY and switches off bulbs and outlets.

```

2017-04-03 04:30:36,996 - INFO - [0, 73, 7, 4, 2, 0, 0, 0]
^Z
[12]: Stopped python server_gateway.py
chandu@chandu-VPCEH25EN:~/Downloads/005/spring17-lab2-maneesh4848/src$ python server_gateway.py
2017-04-03 04:30:50,167 - INFO - Processing register request...
2017-04-03 04:30:58,177 - INFO - added device to db...
2017-04-03 04:30:58,178 - INFO - Processing register request...
2017-04-03 04:30:58,179 - INFO - added device to db...
2017-04-03 04:31:02,859 - INFO - Processing register request...
2017-04-03 04:31:02,951 - INFO - added device to db...
2017-04-03 04:31:04,524 - INFO - Processing register request...
2017-04-03 04:31:04,544 - INFO - added device to db...
2017-04-03 04:31:06,355 - INFO - Processing register request...
2017-04-03 04:31:06,386 - INFO - added device to db...
2017-04-03 04:31:08,079 - INFO - Processing register request...
2017-04-03 04:31:08,098 - INFO - added device to db...
2017-04-03 04:31:10,572 - INFO - Processing register request...
2017-04-03 04:31:10,585 - INFO - added device to db...
2017-04-03 04:31:14,299 - INFO - Processing register request...
2017-04-03 04:31:14,301 - INFO - added device to db...
[0: u'server', 1: u'serverbackend', 2: u'doorsensor', 3: u'motionsensor', 4: u'tempsensor', 5: u'lightbulb', 6: u'smartoutlet']
[u'serverbackend', u'doorsensor', u'motionsensor', u'tempsensor', u'lightbulb', u'smartoutlet']
2017-04-03 04:31:14,661 - INFO - started vector clock
user selection clock
2017-04-03 04:31:25,373 - INFO - Pushed state to server
2017-04-03 04:31:25,377 - INFO - Motion sensor data received
2017-04-03 04:31:25,377 - INFO - [0, 0, 0, 1, 0, 0, 0]
2017-04-03 04:31:25,393 - INFO - [0, 1, 0, 0, 0, 0, 0]
2017-04-03 04:31:25,401 - INFO - [0, 2, 0, 0, 0, 0, 0]
2017-04-03 04:31:25,411 - INFO - [0, 3, 0, 0, 0, 0, 0]
2017-04-03 04:31:38,433 - INFO - [0, 4, 0, 1, 0, 0, 0]
2017-04-03 04:31:42,450 - INFO - [0, 5, 0, 1, 0, 0, 0]
2017-04-03 04:31:51,454 - INFO - [0, 6, 0, 1, 0, 0, 0]
2017-04-03 04:31:53,473 - INFO - Pushed state to server
2017-04-03 04:31:53,476 - INFO - Door sensor data received
2017-04-03 04:31:53,479 - INFO - Door sensor data received at3180.486158
2017-04-03 04:31:53,479 - INFO - Motion sensor data received at1500.393867
*****USER LEAVES HOME*****
2017-04-03 04:31:53,480 - INFO - Switching off Bulbs
2017-04-03 04:31:53,488 - INFO - Pushed state to server
2017-04-03 04:31:53,491 - INFO - *****STATE IDLE*****
2017-04-03 04:31:53,492 - INFO - [0, 6, 0, 1, 0, 0, 0]

```

Battery Critical
2% charge remaining

Figure 2. User Exits Home

Test case 3- Intruder-

This is a case happened in case 1, If there is no beacon entry in latest entry of database and there is no signal for some wait time then it means the one entered doesn't have a beacon . Hence he is not a user. Server changes its state to ALERT and switches on bulbs and switches off bulbs. These messages flows can be seen in the snapshot below.

```

2017-04-03 04:24:34,506 - INFO - [2, 9, 1, 1, 2, 0, 0, 0]
2017-04-03 04:24:38,491 - INFO - [2, 10, 1, 1, 2, 0, 0, 0]
2017-04-03 04:24:47,535 - INFO - [2, 11, 1, 1, 2, 0, 0, 0]
2017-04-03 04:24:55,833 - INFO - [2, 12, 1, 1, 2, 0, 0, 0]
2017-04-03 04:25:00,549 - INFO - [2, 13, 1, 1, 2, 0, 0, 0]
2017-04-03 04:25:12,866 - INFO - [2, 14, 1, 1, 2, 0, 0, 0]
2017-04-03 04:25:13,574 - INFO - [2, 15, 1, 1, 2, 0, 0, 0]
2017-04-03 04:25:26,604 - INFO - [2, 16, 1, 1, 2, 0, 0, 0]
2017-04-03 04:25:29,891 - INFO - [2, 17, 1, 1, 2, 0, 0, 0]
2017-04-03 04:25:39,073 - INFO - Pushed state to server
2017-04-03 04:25:39,077 - INFO - *****STATE IDLE*****
2017-04-03 04:25:39,077 - INFO - [2, 17, 2, 1, 2, 0, 0, 0]
2017-04-03 04:25:39,081 - INFO - [2, 18, 1, 1, 2, 0, 0, 0]
2017-04-03 04:25:39,633 - INFO - [2, 19, 2, 1, 2, 0, 0, 0]
2017-04-03 04:25:46,012 - INFO - Pushed state to server
2017-04-03 04:25:46,013 - INFO - Door sensor data received
2017-04-03 04:25:46,014 - INFO - [2, 19, 3, 1, 2, 0, 0, 0]
2017-04-03 04:25:46,016 - INFO - [2, 20, 2, 1, 2, 0, 0, 0]
2017-04-03 04:25:46,923 - INFO - [2, 21, 3, 1, 2, 0, 0, 0]
2017-04-03 04:25:47,096 - INFO - Pushed state to server
2017-04-03 04:25:47,098 - INFO - Motion sensor data received
2017-04-03 04:25:47,100 - INFO - Door sensor data received at2760.023079
2017-04-03 04:25:47,101 - INFO - Motion sensor data received at2820.110245
2017-04-03 04:25:52,104 - INFO - Presence sensor data received
2017-04-03 04:25:52,106 - INFO - presence sensor data is not received
*****INTRUDER ALERT*****
2017-04-03 04:25:52,106 - INFO - Switching on lightbulb
2017-04-03 04:25:52,118 - INFO - Pushed state to server
2017-04-03 04:25:52,122 - INFO - *****STATE IDLE*****
2017-04-03 04:25:52,122 - INFO - [2, 21, 3, 1, 2, 0, 0, 0]
2017-04-03 04:25:52,126 - INFO - [2, 22, 3, 1, 2, 0, 0, 0]
2017-04-03 04:25:52,134 - INFO - Switching off outlets
2017-04-03 04:25:52,149 - INFO - Pushed state to server
2017-04-03 04:25:52,152 - INFO - Motion sensor data received
2017-04-03 04:25:52,152 - INFO - [2, 21, 3, 1, 2, 0, 0, 0]
2017-04-03 04:25:52,157 - INFO - [3, 23, 3, 1, 2, 0, 0, 0]
2017-04-03 04:25:52,160 - INFO - [2, 21, 3, 2, 2, 0, 0, 0]
2017-04-03 04:25:52,164 - INFO - [3, 24, 3, 1, 2, 0, 0, 0]
2017-04-03 04:25:52,645 - INFO - [4, 25, 3, 2, 2, 0, 0, 0]
2017-04-03 04:26:03,948 - INFO - [4, 26, 3, 2, 2, 0, 0, 0]
2017-04-03 04:26:05,675 - INFO - [4, 27, 3, 2, 2, 0, 0, 0]

```

Figure 3 Intruder

Event Ordering by Vector clock(Test cases)-

Test case 1 in physical clock synchronizations are now simulated to order events by vector clock. User enters home because of the vector data, door opened first and then motion is detected. Hence system state will be HOME and bulbs and outlets will be switched on.


```

2017-04-03 04:45:34,182 - INFO - added device to db...
2017-04-03 04:45:37,173 - INFO - Processing register request...
2017-04-03 04:45:37,191 - INFO - added device to db...
2017-04-03 04:45:38,348 - INFO - Processing register request...
2017-04-03 04:45:38,367 - INFO - added device to db...
2017-04-03 04:45:40,160 - INFO - Processing register request...
2017-04-03 04:45:40,175 - INFO - added device to db...
2017-04-03 04:45:41,762 - INFO - Processing register request...
2017-04-03 04:45:41,919 - INFO - added device to db...
2017-04-03 04:45:43,320 - INFO - Processing register request...
2017-04-03 04:45:43,393 - INFO - added device to db...
2017-04-03 04:45:47,689 - INFO - Processing register request...
2017-04-03 04:45:47,698 - INFO - added device to db...
(0: u'server', 1: u'serverbackend', 2: u'doorsensor', 3: u'motionsensor', 4: u'tempsensor', 5: u'lightbulb', 6: u'smartoutlet', 7: u'presencesensor')
[u'serverbackend', u'doorsensor', u'motionsensor', u'tempsensor', u'lightbulb', u'smartoutlet', u'presencesensor']
2017-04-03 04:45:47,753 - INFO - started vector clock
user selection clock
2017-04-03 04:45:55,519 - INFO - Pushed state to server
2017-04-03 04:45:55,524 - INFO - Door sensor data received
2017-04-03 04:45:55,525 - INFO - [0, 0, 1, 0, 0, 0, 0, 0]
2017-04-03 04:45:55,547 - INFO - [0, 1, 0, 0, 0, 0, 0, 0]
2017-04-03 04:45:55,560 - INFO - [0, 2, 0, 0, 0, 0, 0, 0]
2017-04-03 04:45:55,568 - INFO - [0, 3, 1, 0, 0, 0, 0, 0]
2017-04-03 04:45:58,114 - INFO - Pushed state to server
2017-04-03 04:45:58,116 - INFO - Motion sensor data received
2017-04-03 04:45:58,119 - INFO - motion occurred at 0,3,1,1,0,0,0,0
2017-04-03 04:45:58,120 - INFO - door occurred at 0,0,1,0,0,0,0,0
2017-04-03 04:46:03,124 - INFO - Presencesensor detected beacon
*****USER ENTERS HOME*****
2017-04-03 04:46:03,136 - INFO - Pushed state to server
2017-04-03 04:46:03,139 - INFO - [0, 3, 1, 0, 0, 0, 0, 0]
2017-04-03 04:46:03,142 - INFO - [0, 4, 1, 0, 0, 0, 0, 0]
2017-04-03 04:46:03,152 - INFO - Switching on Bulbs
2017-04-03 04:46:03,167 - INFO - Pushed state to server
2017-04-03 04:46:03,170 - INFO - [0, 3, 1, 0, 0, 0, 0, 0]
2017-04-03 04:46:03,172 - INFO - [0, 5, 1, 0, 0, 0, 0, 0]
2017-04-03 04:46:03,175 - INFO - Switching on Outlets
2017-04-03 04:46:03,175 - INFO - [0, 3, 1, 0, 0, 0, 0, 1]
2017-04-03 04:46:03,180 - INFO - [0, 6, 1, 0, 0, 0, 0, 0]
2017-04-03 04:46:08,593 - INFO - [0, 7, 1, 0, 0, 0, 0, 1]
2017-04-03 04:46:12,601 - INFO - [0, 8, 1, 0, 0, 0, 0, 1]
2017-04-03 04:46:21,856 - INFO - [0, 9, 1, 0, 0, 0, 0, 1]
2017-04-03 04:46:29,635 - INFO - [0, 10, 1, 0, 0, 0, 0, 1]
2017-04-03 04:46:34,886 - INFO - [0, 11, 1, 0, 0, 0, 0, 1]
2017-04-03 04:46:39,336 - INFO - Pushed state to server
2017-04-03 04:46:39,340 - INFO - *****STATE IDLE*****
2017-04-03 04:46:39,341 - INFO - [0, 11, 2, 0, 0, 0, 0, 1]
2017-04-03 04:46:39,344 - INFO - [0, 12, 1, 0, 0, 0, 0, 1]
2017-04-03 04:46:42,904 - INFO - Pushed state to server
2017-04-03 04:46:42,907 - INFO - Motion sensor data received
2017-04-03 04:46:42,907 - INFO - [0, 12, 2, 1, 0, 0, 0, 1]
2017-04-03 04:46:42,911 - INFO - [0, 13, 2, 0, 0, 0, 0, 1]
2017-04-03 04:46:46,599 - INFO - Pushed state to server
2017-04-03 04:46:46,602 - INFO - Door sensor data received
2017-04-03 04:46:46,605 - INFO - motion occurred at 0,12,2,1,0,0,0,1
2017-04-03 04:46:46,605 - INFO - door occurred at 0,13,3,1,0,0,0,1
*****USER LEAVES HOME*****
2017-04-03 04:46:46,616 - INFO - Pushed state to server
2017-04-03 04:46:46,619 - INFO - *****STATE IDLE*****
2017-04-03 04:46:46,620 - INFO - [0, 13, 2, 1, 0, 0, 0, 1]
2017-04-03 04:46:46,622 - INFO - [0, 14, 2, 1, 0, 0, 0, 1]
2017-04-03 04:46:46,628 - INFO - Switching off Bulbs
2017-04-03 04:46:46,650 - INFO - Pushed state to server
2017-04-03 04:46:46,652 - INFO - Motion sensor data received
2017-04-03 04:46:46,653 - INFO - [0, 13, 2, 1, 0, 0, 0, 1]
2017-04-03 04:46:46,660 - INFO - [0, 15, 2, 1, 0, 0, 0, 1]
2017-04-03 04:46:46,669 - INFO - Switching off Outlets
2017-04-03 04:46:46,675 - INFO - [0, 13, 3, 1, 0, 0, 0, 1]
2017-04-03 04:46:46,684 - INFO - [0, 16, 2, 1, 0, 0, 0, 1]
2017-04-03 04:46:46,702 - INFO - [0, 17, 2, 1, 0, 0, 0, 1]
2017-04-03 04:46:47,910 - INFO - [0, 18, 3, 1, 0, 0, 0, 1]

```

Figure 4. User Enters Home

Test case 2 is simulated with vector clocks. Since motion happened first and the door opened later as seen from the vector clocks in the snapshot.

System changes to AWAY and switches off bulbs and outlets.

```

2017-04-03 04:46:03,139 - INFO - [0, 3, 1, 0, 0, 0, 0, 0]
2017-04-03 04:46:03,142 - INFO - [0, 4, 1, 0, 0, 0, 0, 0]
2017-04-03 04:46:03,152 - INFO - Switching on Bulbs
2017-04-03 04:46:03,167 - INFO - Pushed state to server
2017-04-03 04:46:03,170 - INFO - [0, 3, 1, 0, 0, 0, 0, 0]
2017-04-03 04:46:03,172 - INFO - [0, 5, 1, 0, 0, 0, 0, 0]
2017-04-03 04:46:03,175 - INFO - Switching on Outlets
2017-04-03 04:46:03,175 - INFO - [0, 3, 1, 0, 0, 0, 0, 1]
2017-04-03 04:46:03,180 - INFO - [0, 6, 1, 0, 0, 0, 0, 0]
2017-04-03 04:46:08,593 - INFO - [0, 7, 1, 0, 0, 0, 0, 1]
2017-04-03 04:46:12,601 - INFO - [0, 8, 1, 0, 0, 0, 0, 1]
2017-04-03 04:46:21,856 - INFO - [0, 9, 1, 0, 0, 0, 0, 1]
2017-04-03 04:46:29,635 - INFO - [0, 10, 1, 0, 0, 0, 0, 1]
2017-04-03 04:46:34,886 - INFO - [0, 11, 1, 0, 0, 0, 0, 1]
2017-04-03 04:46:39,336 - INFO - Pushed state to server
2017-04-03 04:46:39,340 - INFO - *****STATE IDLE*****
2017-04-03 04:46:39,341 - INFO - [0, 11, 2, 0, 0, 0, 0, 1]
2017-04-03 04:46:39,344 - INFO - [0, 12, 1, 0, 0, 0, 0, 1]
2017-04-03 04:46:42,904 - INFO - Pushed state to server
2017-04-03 04:46:42,907 - INFO - Motion sensor data received
2017-04-03 04:46:42,907 - INFO - [0, 12, 2, 1, 0, 0, 0, 1]
2017-04-03 04:46:42,911 - INFO - [0, 13, 2, 0, 0, 0, 0, 1]
2017-04-03 04:46:46,599 - INFO - Pushed state to server
2017-04-03 04:46:46,602 - INFO - Door sensor data received
2017-04-03 04:46:46,605 - INFO - motion occurred at 0,12,2,1,0,0,0,1
2017-04-03 04:46:46,605 - INFO - door occurred at 0,13,3,1,0,0,0,1
*****USER LEAVES HOME*****
2017-04-03 04:46:46,616 - INFO - Pushed state to server
2017-04-03 04:46:46,619 - INFO - *****STATE IDLE*****
2017-04-03 04:46:46,620 - INFO - [0, 13, 2, 1, 0, 0, 0, 1]
2017-04-03 04:46:46,622 - INFO - [0, 14, 2, 1, 0, 0, 0, 1]
2017-04-03 04:46:46,628 - INFO - Switching off Bulbs
2017-04-03 04:46:46,650 - INFO - Pushed state to server
2017-04-03 04:46:46,652 - INFO - Motion sensor data received
2017-04-03 04:46:46,653 - INFO - [0, 13, 2, 1, 0, 0, 0, 1]
2017-04-03 04:46:46,660 - INFO - [0, 15, 2, 1, 0, 0, 0, 1]
2017-04-03 04:46:46,669 - INFO - Switching off Outlets
2017-04-03 04:46:46,675 - INFO - [0, 13, 3, 1, 0, 0, 0, 1]
2017-04-03 04:46:46,684 - INFO - [0, 16, 2, 1, 0, 0, 0, 1]
2017-04-03 04:46:46,702 - INFO - [0, 17, 2, 1, 0, 0, 0, 1]
2017-04-03 04:46:47,910 - INFO - [0, 18, 3, 1, 0, 0, 0, 1]

```

Figure 5. User exiting home

Test case 3 is now simulated with vector clocks. As presence beacon is not reached. The one entered is not user. Hence system changes to Intruder and switches on lights and offs outlets

```
2017-04-03 04:46:46,633 - INFO - [0, 13, 2, 1, 0, 0, 0, 1]
2017-04-03 04:46:46,660 - INFO - [0, 15, 2, 1, 0, 0, 0, 1]
2017-04-03 04:46:46,669 - INFO - Switching off Outlets
2017-04-03 04:46:46,675 - INFO - [0, 13, 3, 1, 0, 0, 0, 1]
2017-04-03 04:46:46,684 - INFO - [0, 16, 2, 1, 0, 0, 0, 1]
2017-04-03 04:46:46,702 - INFO - [0, 17, 2, 1, 0, 0, 0, 1]
2017-04-03 04:46:47,910 - INFO - [0, 18, 3, 1, 0, 0, 0, 1]
2017-04-03 04:47:00,939 - INFO - [0, 19, 3, 1, 0, 0, 0, 1]
2017-04-03 04:47:03,722 - INFO - [0, 20, 3, 1, 0, 0, 0, 1]
2017-04-03 04:47:13,968 - INFO - [0, 21, 3, 1, 0, 0, 0, 1]
2017-04-03 04:47:20,730 - INFO - [0, 22, 3, 1, 0, 0, 0, 1]
2017-04-03 04:47:22,162 - INFO - Pushed state to server
2017-04-03 04:47:22,164 - INFO - Door sensor data received
2017-04-03 04:47:22,166 - INFO - [0, 22, 4, 1, 0, 0, 0, 1]
2017-04-03 04:47:22,168 - INFO - [0, 23, 3, 1, 0, 0, 0, 1]
2017-04-03 04:47:26,996 - INFO - [0, 24, 4, 1, 0, 0, 0, 1]
2017-04-03 04:47:32,886 - INFO - Pushed state to server
2017-04-03 04:47:32,899 - INFO - Door sensor data received
2017-04-03 04:47:32,892 - INFO - [0, 24, 5, 1, 0, 0, 0, 1]
2017-04-03 04:47:32,896 - INFO - [0, 25, 4, 1, 0, 0, 0, 1]
2017-04-03 04:47:34,514 - INFO - Pushed state to server
2017-04-03 04:47:34,517 - INFO - Motion sensor data received
2017-04-03 04:47:34,520 - INFO - motion occurred at 0,25,5,2,0,0,0,1
2017-04-03 04:47:34,521 - INFO - door occurred at 0,24,5,1,0,0,0,1
2017-04-03 04:47:37,705 - INFO - [0, 26, 5, 1, 0, 0, 0, 1]
2017-04-03 04:47:39,526 - INFO - Presencesensor detected beacon
2017-04-03 04:47:39,528 - INFO - Preseencesensor detected no beacon
*****INTRUDER ALERT*****
2017-04-03 04:47:39,540 - INFO - Pushed state to server
2017-04-03 04:47:39,543 - INFO - *****STATE IDLE*****
2017-04-03 04:47:39,544 - INFO - [0, 26, 5, 1, 0, 0, 0, 1]
2017-04-03 04:47:39,547 - INFO - [0, 27, 5, 1, 0, 0, 0, 1]
2017-04-03 04:47:39,553 - INFO - Switching on Bulbs
2017-04-03 04:47:39,583 - INFO - Pushed state to server
2017-04-03 04:47:39,586 - INFO - Motion sensor data received
2017-04-03 04:47:39,586 - INFO - [0, 26, 5, 1, 0, 0, 0, 1]
2017-04-03 04:47:39,597 - INFO - [0, 28, 5, 1, 0, 0, 0, 1]
2017-04-03 04:47:39,603 - INFO - Switching off Outlets
2017-04-03 04:47:39,603 - INFO - [0, 25, 5, 2, 0, 0, 0, 1]
2017-04-03 04:47:39,607 - INFO - [0, 29, 5, 1, 0, 0, 0, 1]
2017-04-03 04:47:40,026 - INFO - [0, 30, 5, 2, 0, 0, 0, 1]
```

Figure 6. Intruder