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| **Student Name** | **Student ID** | **Date** |
| Alexander Craig | 100741774 | February 15th, 2011 |
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| **Use Case Name:** | **Notify Break-In** |
| **Brief Description:** | A break-in signal (or a failed self-test) from a connected sensor causes the system to trigger a break-in notification. The system logs the event, and starts a timeout during which a password can be entered to dismiss the break-in alert. |
| **Precondition** | The system is enabled.  The system is armed. |
| **Primary Actor** | Sensor |
| **Secondary Actors** | Timer, Display |
| **Dependency** | EXTENDED BY USE CASE Handle Break-In |
| **Generalization** |  |

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| **Basic Flow** | |
| **Step #** |  |
|  | A sensor sends a break-in signal to the system (or fails to respond to a self-test signal before the self-test timeout expires) |
|  | The systems logs the current time and identifying information of the sensor the break-in signal (or test failure) originated from. |
|  | The system sends a signal to the display to output an indication that a break-in alert has been triggered. |
|  | The system sends a signal to the display to output the identifying information of the sensor that triggered the alarm. |
|  | The system sends a signal to the timer to initiate a timeout of predefined length. |
|  | IF the system does not cancel the timeout before it expires THEN EXTENDED BY USE CASE Handle Break-In |
| **Postcondition**: | A break-in alert timeout is triggered by the system.  A message is displayed on the system display indicating that a break-in alert has been triggered. |