

SAFEHOME**Use-Case Template for Surveillance Function**

Use case: *Access camera surveillance via the Internet*

Primary actor: HomeOwner

Goal in context: To view output of camera placed throughout the house from any remote location via the Internet

Preconditions: System must be fully configured; appropriate user ID and passwords must be obtained.

Trigger: The homeowner decides to take a look inside the house while away.

Scenario:

1. The homeowner logs onto the **SafeHomeAssured.com** website.
2. The homeowner enters his or her user ID.
3. The homeowner enters two passwords (each at least eight characters in length).
4. The system displays all major function buttons.
5. The homeowner selects "Surveillance" from the major function buttons.
6. The homeowner selects "Pick a camera."
7. The system displays the floor plan of the house.
8. The homeowner selects a camera icon from the floor plan.
9. The homeowner selects the "View" button.
10. The system displays a viewing window that is identified by the camera ID.
11. The system displays video output within the viewing window at one frame per second

Extensions:

1. ID or passwords are incorrect or not recognized. See use case *Validate ID and passwords*
2. Surveillance function not configured for this system—system displays appropriate error

message. See use case *Configure surveillance function*.

3. Homeowner selects "View thumbnail snapshots for all cameras." See use case *View thumbnail snapshots for all cameras*.
4. A floor plan is not available or has not been configured—display appropriate error message. See use case *Configure floor plan*.
5. An alarm condition is encountered. See use case *Alarm condition encountered*.

Priority: Moderate priority, to be implemented after basic WebApp functions

When available: Sixth increment

Frequency of use: Moderate

Channel to actor: Via PC-based or mobile device browser and Internet connection

Secondary actors: System administrator, cameras

Channels to secondary actors:

1. System administrator: PC-based system
2. Cameras: Wireless connectivity

Open issues:

1. What mechanisms protect unauthorized use of this capability by employees of CPI Corporation?
2. Is security sufficient? Hacking into this feature would represent a major invasion of privacy.
3. Will the system response via the Internet be acceptable given the bandwidth required for camera views?
4. Will we develop a capability to provide video at a higher frames-per-second rate when high-bandwidth connections are available?

Referring to the formal use-case template shown in the sidebar, the secondary scenarios are represented as extensions to the basic sequence described for *Access camera surveillance via the Internet*.

It's reasonable to ask whether all this is really necessary for every function that is identified. In general, it isn't. You should develop a narrative usage scenario