## USE CASE 5

## Use Case Descriptions

This section documents the complete business scenarios within the scope of this project.

### Subscriber Subscribes to a Channel

In this project scenario, a subscriber can subscribe or unsubscribe to a channel.

**Description:**

The scenario deals primarily with the subscriber. The latter can choose to subscribe or unsubscribe to a channel. Upon choosing whether to subscribe or unsubscribe, a request is sent to the Subscription Manager Module which handles the request accordingly.

**Actors:**

The follows actors are associated with this scenario:

1. Subscriber: an entity that handles events published on a channel. The subscriber has a “state” for each channel which determines how they handle an event.

**Preconditions:**

Prior to the scenario being performed:

1. The only precondition of the use case is that the channel exists. If the channel does not exist, then the Subscription Manager Module will not be able to fulfill the request.

**Post Conditions:**

After the preconditions are met, the following will occur:

1. The subscriber will be added in the list of subscribers for the given channel.

OR

1. The subscriber will be removed from the list of subscribers for the given channel.

**Scenario Text:**

1. Call Subscription Manager Module
   * 1. Take references for the channel
     2. Determine if channel exists or not
2. Add subscriber to list of subscribers in channel
3. Alternate scenario to subscribe (referenced below)

**Alternative Courses:**

1. Call Subscription Manager Module
   * 1. Take references for the channel
     2. Determine if channel exists or not
2. Remove subscriber from list of subscribers in channel

**Extends:**

None.

**User Interfaces:**

The subscriber (“ISubscriber”) object will have a reference ID, as well as the abstract channel name. Both are referenced in the functinos within the Subscription Manager Module that is called upon.

**Constraints:**

None.

**Questions:**

None.

**Notes:**

None.

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**Source Documents:**

## 1.1 Use Case Diagrams

## Sequencing Diagrams

## Collaboration Diagrams