

Use Case Name:

Point of Contact Name:

Use Case Name

Give a short descriptive name for the use case to serve as a unique identifier. Consider goal-driven use case name.

Goal

The goal briefly describes what the user intends to achieve with this use case.

Summary

Give a summary of the use case to capture the essence of the use case (no longer than a page). It provides a quick overview and includes the goal and principal actor.

Actors

List actors, people or things outside the system that either acts on the system (primary actors) or is acted on by the system (secondary actors). Primary actors are ones that invoke the use case and benefit from the result. Identify sensors, models, portals and relevant data resources. Identify the primary actor and briefly describe role.

Preconditions

Here we state any assumptions about the state of the system that must be met for the trigger (below) to initiate the use case. Any assumptions about other systems can also be stated here, for example, weather conditions. List all preconditions.

Triggers

Here we describe in detail the event or events that brings about the execution of this use case. Triggers can be external, temporal, or internal. They can be single events or when a set of conditions are met, List all triggers and relationships.

Basic Flow

Often referred to as the primary scenario or course of events. In the basic flow we describe the flow that would be followed if the use case were to follow its main plot from start to end. Error states or alternate states that might be highlighted are not included here. This gives any browser of the document a quick view of how the system will work. Here the flow can be documented as a list, a conversation or as a story.(as much as required)

- 1)
- 2)
- 3)
- 4)
- 5)
- 6)
- 7)
- 8)
- 9)

Alternate Flow

Here we give any alternate flows that might occur. May include flows that involve error conditions. Or flows that fall outside of the basic flow.

- 1)
- 2)
- 3)
- 4)

Post Conditions

Here we give any conditions that will be true of the state of the system after the use case has been completed.

Activity Diagram

Here a diagram is given to show the flow of events that surrounds the use case. It might be that text is a more useful way of describing the use case. However often a picture speaks a 1000 words.

Notes

There is always some piece of information that is required that has no other place to go. This is the place for that information.

Resources

In order to support the capabilities described in this Use Case, a set of resources must be available and/or configured. These resources include data and services, and the systems that offer them. This section will call out examples of these resources.

Data:

Data	Type	Characteristics	Description	Owner	Source System
(dataset name)	Remote, In situ, Etc.	e.g. – no cloud cover	Short description of the dataset, possibly including rationale of the usage characteristics	USGS, ESA, etc.	Name of the system which supports discovery and access

Modeling Services

Model	Owner	Description	Consumes	Frequency	Source System
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(model name)	Organization that offers the model	Short description of the model	List of data consumed	How often the model runs	Name of the system which offers access to the model

Event Notification Services

Event	Owner	Description	Subscription	Source System
(Event name)	Organization that offers the event	Short description of the event	List of subscriptions (and owners)	Name of the system which offers this event

Application Services

Application	Owner	Description	Source System
(Application name)	Organization that offers the Application	Short description of the application portal	Name of the system which offers access to this resource

Other resources

Resource	Owner	Description	Availability	Source System
(sensor name)	Organization that owns/ manages resource	Short description of the resource	How often the resource is available	Name of system which provides resource