**Use case template**

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| --- | --- |
| **Use case ID:** UC-x | **Use case name:** |
| **Description/Story:**  **Story:**  Simple description of the use case  **Includes:**  UC-x name  …  **Frequency of Use:**  As specific as possible, e.g. daily  **Special Requirements:**  If there is any  **Assumption:**  If there is any  **Notes/Issues:**  If there is any | |
| **Pre-condition:**  Precondition 1  ... | |
| **Post-condition:**  Postcondition 1  ... | |
| **Actor(s):** | **Package:** |
| **Status:** Submitted/In Progress/… | **Priority:** High/Medium/Low |
| **Created by:** | **Created Date:** |
| **Normal flow:**  User Action 1 System response 1  ... | |
| **Alternative flow:**  User Action 1 System response 1  ... | |
| **Exceptions:**  Exception 1.0.E.1  User Action 1 System response 1  ... | |
| **Business Requirements:**  BR-xx Any business requirements associated  ... | |
| **Software Requirements:**  SR-xx Any software requirements associated  ... | |

**STORY:**

TLS's Emergency mode is triggered by malfunction input. This state lasts until the system is reset by a maintenance crew member.

**INCLUDES:**

UC-1 Day mode operation;

UC-2 Day mode/night mode switch.

**FREQUENCY OF USE:**

Rare.

**SPECIAL REQUIREMENTS:**

Reset button need to be accessible only to maintenance crew.

**ASSUMPTIONS:**

Malfunction input works correctly. Maintenance crews will be present and able to properly use the reset button.

**NOTES/ISSUES:**

None.

**STORY:**

The system enters the Night state at 10 pm and returns to the Default state at 6 am every day.

**INCLUDES:**

UC-1 Day mode operation;

UC-3 Emergency mode.

**FREQUENCY OF USE:**

At 6 am and 10pm once.

**SPECIAL REQUIREMENTS:**

None.

**ASSUMPTION:**

All devices (traffic lights, magnetic sensor and pedestrian button) and malfunction input function correctly in all weather conditions.

**NOTES/ISSUES:**

None.

**STORY:**

The system handles signals from magnetic sensor and pedestrian button, and manages the light transitions without the external intervention between 6 am and 10 pm every day.

**INCLUDES:**

UC-2 Day mode/night mode switch;

UC-3 Emergency mode.

**FREQUENCY OF USE:**

Every 60 to 90 seconds.

**SPECIAL REQUIREMENTS:**

None

**ASSUMPTION:**

All devices (traffic lights, magnetic sensor and pedestrian button) and malfunction input function correctly in all weather conditions.

**NOTES/ISSUES:**

None