

Use Case I4S1: Detailed Description

Use Case Name: Manage Mission Data

Scenario: S1: View Mission Data

Brief Description: With the System Running, the User requests to view the current Mission Data (regardless if a Mission is running).

Actors: User

Related Use Cases: N/A

Stakeholders: Users who want to view the current Mission Data: both **temperature** and **humidity**. Users who want to view particular mission data (either **temperature** or **humidity**).

Preconditions: The System is running, the iButton is connected to the receptor or another reading device. The iButton receptor or other reading device is connected to the computer.

Postconditions: The Mission Data (either **temperature**, **humidity** or both is retrieved from the iButton.

Flow of Events

User	System
1. Requests Mission Data for viewing: either the Temperature, Humidity or both	
2. Requests the units for displaying the temperature: (Celsius, Fahrenheit, Kelvin), if temperature requested	
	3. Retrieves the current requested mission data
	4. Converts the temperature mission data into the user requested units (if the. User requested Temperature mission data)
	5. Presents requested mission data to User for viewing

Exception Conditions

3a. If the requested data of the current mission cannot be retrieved, then the system indicates the error to the user with a possible reason (One Wire Network issues, One Wire Device issues).