

Use Case I4S2: Detailed Description

Use Case Name: Manage Mission Data

Scenario: S2: Save Mission Data

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

Actors: User

Related Use Cases: Use Case I4S1: *The User Shall View Mission Data*

Stakeholders: User who want to save the current Mission Data, for either/or **temperature** and/or **humidity**. Users who want to save the current Mission Data, for either/or **temperature** and/or **humidity**.

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

Postconditions: The Mission Data (either **temperature**, **humidity**, or both) is retrieved from the iButton and saved off in a user-directed file.

Flow of Events

User	System
1. Requests Mission data for saving: either Temperature, Humidity or both	
2. Inputs the file name and location for saving the requested mission data.	
3. Requests the units for the temperature: (Celsius, Fahrenheit, Kelvin), if requested.	
	4. Retrieves the current requested mission data
	5. Converts the temperature mission data into the user requested units (as appropriate).
	6. Saves the data to user specified file.
	7. Indicates to the user the requested data was saved in the specified file.

Exception Conditions

4a. 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).

6a. If the requested data of the current mission cannot be saved, then the system indicates the error to the user.