Use Case I3S1: Detailed Description

Use Case Name: Manage Mission Data Scenario S1: View Temperature Data

Brief Description: With the System Running, the User requests to view the

current Temperature Data (regardless if a Mission is Running).

Actors: User

Related Use Cases: N/A

Stakeholders: Users who want to view the current Temperature Data from the current mission.

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 Temperature Data is retrieved from the iButton and presented to the User for display. (Either in textual or graphical form).

Flow of Events

User	System
1. Request Temperature Data for	
viewing	
	2. Retrieves the current temperature
	data
	3. Converts the temperature data
	into the three different units:
	Metric, English, Absolute.
	4. Retrieves the associated Date/Time
	for all the current temperature data
	5. Separates the temperature data by
	date.
	6. Determines the Min/Max of the current
	data, converting into the three different
	units: for every/all data separated by date.
	7. Presents the requested temperature
	data to the User for viewing.
8. Determines how to view the data	
(in Text or Graphical format)	
Makes request to the System	
	9. Presents the data in the requested
	format
10. Determines the Units	
Metric, Englilsh, Absolute and	
makes request to the System	
	11. Presents the data in the appropriate
	Units

Exception Contitions

1a. If no iButton Device is connected to the network, the the system indicates the error to the user with the reason (no iButton Atached).

2a. If the requested data of the current mission cannot be retrieved, then the system indicates the error to the user with the reason (One Wire Netwok Issues, One Wire Device Issues).