

### Use Case I3S5: Detailed Description

Use Case Name: Manage Mission Data

Scenario: S5 Save Mission Data

Brief Description: With the System Running, the User requests to save the current data to the current Database. The user also saves off the data in text format by entering the directory and file name where to save the data (usually in .csv format).

Actors: User, Database Administrator

Related Use Cases: none

Stakeholders: Users who want to archive the data. Database Administrators who want to maintain and safely archive the Mission data.

Preconditions: The system is running. Mission Data is loaded onto the System: See Use Cases **I3S1-I3S4**, View Temperature Data, View Humidity Data, View Heat Index Data, View Dew Point Data. The Data Base is set up, with the Data Base Server running.

Postconditions: The Mission Data is saved to the appropriate CSV file and/or to the appropriate Data Base.

#### Flow of Events

User	System
1. Request to Save the Mission Data	
	2. Presents the dialog box to save the data in CSV format
3. Decides if to save the data in CSV format and where entering the Data as appropriate	
	4. Opens the CSV file and saves the data.
	5. Appends the appropriate data to the Data Base: Temperature, Humidity Dewpoint, Heat Index with the Appropriate Time and the Appropriate Units (Fahrenheit, Celsius, Kelvin) for the Temperature, Dewpoint, Heat Index
	6. Sends the appropriate "save" message to the User, indicating the data was saved to the appropriate CSV file (if the user requested) and to the appropriate Data Base

#### Exception Conditions

2a, 4a, 5a. If there is no data to save, then the system notifies the user there is no data.

4b. If there is an error in saving the CSV file, then the system notifies the user of the problem.

5b. If the data base is not open/loaded, then the system notifies the user the data cannot be saved to the Database.

5c. If there is a write error in appending the data to the Database, then the System notifies the user of the write error, and the inability of the Database to save/append the data.