

Use Case 2: Request to Load Parameter File

Scope: Data Feeder

Primary Actor: System Administrator

Secondary Actor: (Lunar Mission)System

Related Use Cases: *Use Case 3: Start the Data Feeder*

Stakeholders & Interests:

- (Lunar Mission)System: Wants to load a parameter file to monitor the current Mission
- System Administrator: Wants to load a parameter file to start the current Mission

Pre-Conditions: Data Feeder is started (see *Use Case 3: Start the Data Feeder*)

Post-Conditions: The Parameter File is loaded, the Data Feeder is generating Mission Data based on the Parameters in the Parameter File

Flow of Events:

System Administrator	Data Feeder
1. Enters the Parameter File Path	
2. Enters the Parameter File Name	
	3. Opens the Parameter File
	4. Reads the Parameter File
	5. Loads the Mission Data Parameters with the data from the Parameter file
	6. Periodically generates Mission Data based on the Parameter File Inputs

Alternative Flows:

- 3a If the file is not available, the Data Feeder alerts the Primary and Secondary actors and no data is loaded
- 4a If any of the Parameters are unreadable by the Data Feeder, then the Data Feeder ignores the values, setting the values to the default(error) value
- 5a If the Data Feeder attempts to load a parameter that is not in the Parameter File, then the Data Feeder sets that value to the Default(error) Value
- 5b If there are parameters in the Parameter File not loaded by the Data Feeder, then those Parameters are ignored
- 5c If any of the Data Feeder Parameters are not of the correct number format, then the Data Feeder ignores the value, setting the value to the default(error) value

Special Requirements

- None

Open Issues

- 6a Technically this Flow is an addition to the Use Case Flow of events, and would be mentioned in this section (as it is now)