

Use Case I3: Detailed Description

Use Case Name: Alter Data Collection Rate

Scenario: N/A

Brief Description: With the System Running, the User set the data collection rate prior to starting a mission. The System sets the data collection rate, and starts the requested mission (See **Use Case I2S2**)

Actors: User

Related Use Cases: Use Case I2S2 *Start A Mission*

Use Case I2S1 *Stop A Mission*

Stakeholders: Users who want to change the data collection rate on the iButton (from the default setting).

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 Collection rate on the iButton is altered.

Flow of Events

User	System
1. Request to alter the iButton data collection rate	
	2. Stops the current Mission (see Use Case I2S1)
	3. Sets the new data collection rate
	4. Starts a new mission (see Use Case I2S2) by setting the data collection rate requested the User
	5. (Possibly) Indicates to the User the new data collection rate in the mission started message (see Use Case I2S2).

Exception Conditions

2a. If the current Mission cannot be stopped in the iButton, then the system indicates the error to the user with the possible reason (One Wire Network issues, One Wire Device issues). **See Use Case I2S1 for more information regarding starting a Mission.**

3a. If the new data collection rate cannot be set, then the system indicates the error to the user with a possible reason (One Wire Network Issues, One Wire Device issues), maintaining the current collection rate.

4a. If the new Mission Cannot be started in the iButton, then the system indicates the error to the user with a possible reason (One Wire Network issues, One Wire Device issues). **See Use Case I2S2 for more information regarding starting a Mission.**