

Use Case W1: Detailed Description

Use Case Name: Request Temperature Data

Scenario: N/A

Brief Description: With the System Collecting weather data, the weather network requests temperature data by periodically requesting temperature data from the weather stations (system).

Actors: Weather Network

Related Use Cases:

Use Case A1: *The Administrator shall set the Measurement Rate foall all active sensors*

Use Case W10: *The Weather Network Shall request daily temperature extremes*

Use Case W15: *The Weather Network Shall set measurment units for weather data*

Use Case W16: *The Weather Network Shall log requested weather data*

Stakeholders: Local and National Weather Bureaus, other weather networks and individuals monitoring loacal weather data.

Preconditions: The System is running, the measurement rate is set, the network is set and working, the thermometer hardware is connected to the weather station.

Postconditions: The Temperature data is recieved from the weather station(s) (system).

Flow of Events

Weather Station	System
1. Periodically request temperature data from the System	2. Returns the temperature data requested in the appropriate units
3. Logs data returned by the system (See Use Case W16)	

Exception Conditions

2a. If the Temperature Sensors are not working properly, then the system shall report a default temperature (-999.9°).

2b. If the the System Network stops working properly, then the system shall report a default temperature (-999.9°).