

Use Case U1: Request Current Weather Data**Scope:** Weather Station**Level:** User Goal**Primary Actor:** User**Scenario:** Request Dewpoint Data**Related Use Cases:** N/A**Stakeholders and Interests:**

- User: Wants accurate and current Dewpoint data

Preconditions: The Weather Station is running.**Success Guaranties (Postconditions):** Dewpoint Data is returned to the requesting user.**Main Success Scenario:**

User	System
1. Request Dewpoint Data in the Requested Units (Metric, English, Absolute).	
	2. Retrieves the Temperature Data.
	3. Retrieves the Humidity Data.
	4. Calculates the Dewpoint.
	5. Converts the Dewpoint to the requested units.
	6. Presents the Dewpoint to the User in the requested units.

Alternative Flows:

2a. If the System cannot measure the Temperature, then the System informs the User the Dewpoint cannot be measured: stating the reason.

3a. If the System cannot measure the Humidity, then the System informs the User the Dewpoint cannot be measured: stating the reason.

Special Requirements: Both the Temperature and Humidity are needed for calculation.**Technology and Variations List:** None**Frequency of Occurrence:** Could be nearly continuous.**Open Issues:**

- Consider calibrating dewpoint via the Dry Bulb, Wet Bulb formula