**Task ID**

TK- “Giver Dept.Code”-”Assignee Dept.Code”-R.X (X=Request number)  
(e.g “TK-EPS-TT&C-R.01”)

**File Name:**   
From “Giver Dept. Code” to “Assignee Dept. Code” – Deadline data (set a deadline) – Task Objective  
(e.g “From EPS to TT&C – 01.05.2025 – Activation Time of S-Band”)

**Request from:** Payload – Seyed Ali Rashidi

**Deadline:**  
DD/MM/YYYY

1. **Task Description:** The purpose of this request is to obtain predicted values for the satellite’s **altitude**, **viewing angle (theta)**, and, if available, the **corresponding date and time** of observation. This data is required to enhance the accuracy of a dataset currently being built for prediction modeling related to thermal imaging and signal analysis.
2. **Expected Outcome:** 
   * A **CSV table** or **Excel file** containing:  
     Date, Time, Altitude (m), Viewing Angle (deg).
   * Optional: graphical plots of altitude or angle over time.
   * Data should ideally cover **multiple satellite passes** to support correlation across several dataset records.
   * Any assumptions or modeling conditions used in the prediction (e.g., orbit model, fixed altitude) should be clearly mentioned.
3. **Additional Notes:**
   * This information will directly contribute to thermal image signal-to-noise ratio modeling and ground resolution calculations.
   * **For “viewing angle,” the intended definition is:**  
     *the angle between the camera boresight and the perpendicular (nadir direction) to the target plane.*  
     This clarification is provided to avoid ambiguity and ensure the predicted angle matches the intended observation geometry.

*Seyed Ali Rashidi*

*Employee - Payload*

*IGNIS*