**Operations Taskings Submodule Design**

**1. Purpose & Scope**

This submodule provides Operations personnel with a centralized interface to manage tactical and logistical taskings during an incident. It enables:

* **Task ingestion:** Receive assignment requests (reflex taskings) from Planning or Command
* **Task creation & editing:** Define new tasks with detailed attributes
* **Assignment & tracking:** Assign tasks to teams, units, or individuals and monitor status
* **Notifications & alerts:** Notify recipients via the Communications module
* **Form integration:** Quick-print relevant ICS forms (e.g., ICS 213 General Message, ICS 215 Operational Planning Worksheet, ICS 218 Resource Status Change)

**2. Key Features**

* **Task List Dashboard:** Paginated, sortable, and filterable grid showing all active and archived tasks
* **Task Detail View:** Full metadata display (description, priority, due time, assigned unit, creator, ICS form links)
* **New Task Wizard:** Step-by-step form to capture all required fields and suggest ICS form templates
* **Bulk Actions:** Enable batch assignment, status updates, or printing multiple form outputs
* **Real-time Status Updates:** Reflect changes instantly in the dashboard and send notifications
* **Role-Based Access:** Only Operations Officer and above can create or delete; Team Leads can update status

**3. Data Model**

| **Table Name** | **Purpose** | **Key Columns (non-exhaustive)** |
| --- | --- | --- |
| **tasks** | Core task records | id (PK), title, description, priority, status, task\_type\_id, category\_id, assigned\_to, created\_by, created\_at, due\_time, ics\_form\_link, updated\_at |
| **task\_types** | Lookup of task types (filtered by category) | id (PK), category\_id (FK), name |
| **categories** | Lookup of task categories | id (PK), name |
| **narrative\_entries** | Logs of narrative updates | id (PK), task\_id (FK), timestamp, entry\_text, entered\_by, team\_number, critical\_flag, entered\_at |
| **task\_teams** | Which teams are assigned to each task | id (PK), task\_id (FK), team\_id (FK), sortie\_number, status, assigned\_ts, briefed\_ts, enroute\_ts, arrival\_ts, discovery\_ts, complete\_ts |
| **teams** | Master list of teams | id (PK), name, leader\_id (FK→personnel), leader\_phone |
| **task\_personnel** | Personnel on a task | id (PK), task\_id (FK), personnel\_id (FK), role, organization, time\_assigned |
| **personnel** | Master list of personnel | id (PK), name, phone, organization, … |
| **task\_vehicles** | Vehicles on a task | id (PK), task\_id (FK), vehicle\_id (FK) |
| **vehicles** | Master list of vehicles | id (PK), type, identifier, … |
| **assignment\_ground** | “Ground Information” subtabs for task | task\_id (PK & FK), prev\_search\_efforts, time\_allocated, size, expected\_pod\_responsive, expected\_pod\_unresponsive, expected\_pod\_clues, dropoff\_instructions, pickup\_instructions |
| **assignment\_air** | “Air Information” subtabs for task | task\_id (PK & FK), wmirs\_area, dep\_airport, dest\_airport, etd, ete, … (all fields from Air Information) |
| **radio\_channels** | Radios tied to a task (ICS 205 fields) | id (PK), task\_id (FK), channel\_name (FK→ics205\_channels), function, zone, channel\_number, rx\_freq, rx\_tone, tx\_freq, tx\_tone, mode, remarks |
| **ics205\_channels** | Master list of ICS 205 channel definitions | channel\_name (PK), zone, channel\_number, rx\_freq, rx\_tone, tx\_freq, tx\_tone, mode, remarks |
| **debriefs** | Debrief header records | id (PK), task\_id (FK), sortie\_number, debriefer\_id (FK→personnel), debrief\_type, created\_at, updated\_at |
| **debrief\_ground\_sar** | Ground-SAR debrief detail | debrief\_id (PK & FK), assignment\_summary, search\_efforts, unable\_to\_search, clues\_tracks\_signs, hazards\_encountered, suggestions, time\_entered, time\_exited, time\_spent, conditions\_clouds, precipitation, light\_conditions, visibility, terrain, ground\_cover, wind\_speed |
| **debrief\_area\_search** | Area Search Supplement | debrief\_id (PK & FK), num\_searchers, time\_spent, search\_speed, area\_size, spacing, visibility\_distance, vis\_determination, areas\_skipped, pattern\_description, additional\_comments |
| **debrief\_tracking** | Tracking Team Supplement | debrief\_id (PK & FK), likelihood, existing\_trap\_desc, erased\_trap\_desc, new\_trap\_desc, route\_taken, discontinue\_reason |
| **debrief\_hasty\_search** | Hasty Search Supplement | debrief\_id (PK & FK), visibility, attract\_methods, hearing\_conditions, trail\_conditions, offtrail\_conditions, map\_accuracy, found\_features, tracking\_conditions, hazards\_attractions |
| **debrief\_air\_general** | Air (General) Debrief | debrief\_id (PK & FK), flight\_plan\_closed, atd, ata, hobbs\_start, hobbs\_end, hobbs\_total, tach\_start, tach\_end, fuel\_used, oil\_used, fuel\_oil\_cost, receipt\_no, summary, results, weather, remarks, sortie\_effectiveness, not\_success\_reason |
| **debrief\_air\_sar** | Air (SAR Worksheet) Debrief | debrief\_id (PK & FK), area\_name, grid, nw\_lat, nw\_long, ne\_lat, ne\_long, sw\_lat, sw\_long, se\_lat, se\_long, pattern, visibility\_nm, altitude\_agl, speed\_knots, track\_spacing, terrain, cover, turbulence, pod, time\_to\_search, time\_started, time\_ended, time\_in\_area, time\_from\_area, total\_sortie\_time, crew\_remarks, effectiveness\_rating, visibility\_rating |
| **audit\_logs** | Change log entries | id (PK), task\_id (FK), timestamp, field\_changed, old\_value, new\_value, changed\_by |
| **attachments** | Uploaded files and form outputs | id (PK), task\_id (FK), filename, file\_type, uploaded\_by, timestamp, size, version |
| **planning\_links** | Links tasks to strategic goals | id (PK), task\_id (FK), goal\_id (FK→strategic\_goals), checklist\_data (JSON) |
| **strategic\_goals** | Master list of planning goals | id (PK), name, description |

**4. Backend API Endpoints**

Place under backend/modules/operations/taskings/api.py:

### 1. Tasks

| **Method** | **Path** | **Description** | **Request Body** | **Response** |
| --- | --- | --- | --- | --- |
| GET | /api/operations/taskings | List tasks (filtering, paging, sorting) | Query params: status, priority, assigned\_to, date\_from, date\_to, page, page\_size, sort\_by | { tasks: Task[], total: number, page, page\_size } |
| POST | /api/operations/taskings | Create a new task | { title, description, category\_id, task\_type\_id, priority, assigned\_to, due\_time?, task\_id? } | { id: UUID, ...full Task } |
| GET | /api/operations/taskings/{taskId} | Retrieve a single task (with nested sub-resources) | — | { ...full Task, narrative:[], teams:[], ... } |
| PUT | /api/operations/taskings/{taskId} | Update all metadata on a task | { title?, description?, category\_id?, task\_type\_id?, priority?, assigned\_to?, due\_time?, task\_id?, ics\_form\_link? } | { ...updated Task } |
| PATCH | /api/operations/taskings/{taskId}/status | Update only the task’s status | `{ status: Draft | Planned |
| DELETE | /api/operations/taskings/{taskId} | Archive/delete a task | — | 204 No Content |

### 2. Narrative Entries

| **Method** | **Path** | **Description** | **Request Body** | **Response** |
| --- | --- | --- | --- | --- |
| GET | /api/operations/taskings/{taskId}/narrative | List narrative log entries | Query params: sort\_by, order, page, page\_size | { entries: NarrativeEntry[], total } |
| POST | /api/operations/taskings/{taskId}/narrative | Append a new narrative entry | { entry\_text, entered\_by, team\_number?, critical\_flag? } | { id: number, timestamp, ... } |
| PATCH | /api/operations/taskings/{taskId}/narrative/{entryId} | Update critical flag (any user) | { critical\_flag: boolean } | { id, critical\_flag, timestamp } |

### 3. Team Assignments

| **Method** | **Path** | **Description** | **Request Body** | **Response** |
| --- | --- | --- | --- | --- |
| GET | /api/operations/taskings/{taskId}/teams | List teams on a task | — | { teams: TaskTeam[] } |
| POST | /api/operations/taskings/{taskId}/teams | Assign a new team | { team\_id, sortie\_number? } | { id: number, assigned\_ts } |
| PATCH | /api/operations/taskings/{taskId}/teams/{ttId} | Change team status (auto-stamp) | { status: string } | { id, status, updated\_ts } |
| DELETE | /api/operations/taskings/{taskId}/teams/{ttId} | Remove a team assignment | — | 204 No Content |

### 4. Personnel

| **Method** | **Path** | **Description** | **Request Body** | **Response** |
| --- | --- | --- | --- | --- |
| GET | /api/operations/taskings/{taskId}/personnel | List personnel on a task | — | { personnel: TaskPersonnel[] } |
| POST | /api/operations/taskings/{taskId}/personnel | Add a person | { personnel\_id, role, organization, time\_assigned? } | { id, time\_assigned } |
| PATCH | /api/operations/taskings/{taskId}/personnel/{pId} | Update time assigned | { time\_assigned: ISODateTime } | { id, time\_assigned } |
| DELETE | /api/operations/taskings/{taskId}/personnel/{pId} | Remove from task | — | 204 No Content |

### 5. Vehicles

| **Method** | **Path** | **Description** | **Request Body** | **Response** |
| --- | --- | --- | --- | --- |
| GET | /api/operations/taskings/{taskId}/vehicles | List vehicles on a task | — | { vehicles: TaskVehicle[] } |
| POST | /api/operations/taskings/{taskId}/vehicles | Assign a vehicle | { vehicle\_id } | { id, task\_id, vehicle\_id } |
| PATCH | /api/operations/taskings/{taskId}/vehicles/{vId} | Reassign to a different team | { team\_assignment: string } | { id, team\_assignment } |
| DELETE | /api/operations/taskings/{taskId}/vehicles/{vId} | Remove a vehicle | — | 204 No Content |

### 6. Assignment Details

| **Method** | **Path** | **Description** | **Request Body** | **Response** |
| --- | --- | --- | --- | --- |
| GET | /api/operations/taskings/{taskId}/assignment | Fetch both ground & air details | — | { ground: {...}, air: {...} } |
| PUT | /api/operations/taskings/{taskId}/assignment/ground | Update ground information | { prev\_search\_efforts, time\_allocated, size, expected\_pod\_responsive, expected\_pod\_unresponsive, expected\_pod\_clues, dropoff\_instructions, pickup\_instructions } | { ground: {...} } |
| PUT | /api/operations/taskings/{taskId}/assignment/air | Update air information | { wmirs\_area, dep\_airport, dest\_airport, etd, ete, /\* all other air fields \*/ } | { air: {...} } |

### 7. Communications

| **Method** | **Path** | **Description** | **Request Body** | **Response** |
| --- | --- | --- | --- | --- |
| GET | /api/operations/taskings/{taskId}/communications | List radio channels for task | — | { channels: RadioChannel[] } |
| POST | /api/operations/taskings/{taskId}/communications | Add a radio channel | { channel\_name, function } | { id, channel\_name, function } |
| PATCH | /api/operations/taskings/{taskId}/communications/{cId} | Update function for a channel | { function: string } | { id, function } |
| DELETE | /api/operations/taskings/{taskId}/communications/{cId} | Remove a radio channel | — | 204 No Content |

### 8. Debriefing

| **Method** | **Path** | **Description** | **Request Body** | **Response** |
| --- | --- | --- | --- | --- |
| GET | /api/operations/taskings/{taskId}/debriefs | List debrief records | — | { debriefs: Debrief[] } |
| POST | /api/operations/taskings/{taskId}/debriefs | Create new debrief | { sortie\_number, debriefer\_id, debrief\_type, /\* additional fields per type \*/ } | { id, created\_at } |
| PUT | /api/operations/taskings/{taskId}/debriefs/{dId} | Update an existing debrief | { /\* fields as above, per debrief type \*/ } | { id, updated\_at } |
| DELETE | /api/operations/taskings/{taskId}/debriefs/{dId} | Delete a debrief record | — | 204 No Content |

### 9. Audit Logs

| **Method** | **Path** | **Description** | **Request Body** | **Response** |
| --- | --- | --- | --- | --- |
| GET | /api/operations/taskings/{taskId}/logs | Fetch the change history | Query params: field?, date\_from?, date\_to? | { logs: AuditLog[] } |

### 10. Attachments/Forms

| **Method** | **Path** | **Description** | **Request Body** | **Response** |
| --- | --- | --- | --- | --- |
| GET | /api/operations/taskings/{taskId}/attachments | List all attachments and forms | — | { attachments: Attachment[] } |
| POST | /api/operations/taskings/{taskId}/attachments | Upload a file or form template | multipart/form-data: file, type, generate\_forms? | { id, filename, url } |
| DELETE | /api/operations/taskings/{taskId}/attachments/{aId} | Remove an attachment | — | 204 No Content |

### 11. Planning Links

| **Method** | **Path** | **Description** | **Request Body** | **Response** |
| --- | --- | --- | --- | --- |
| GET | /api/operations/taskings/{taskId}/planning | Fetch linked strategic goals | — | { links: PlanningLink[] } |
| POST | /api/operations/taskings/{taskId}/planning | Link a new strategic goal | { goal\_id, checklist\_data (JSON) } | { id, goal\_id, checklist\_data } |
| DELETE | /api/operations/taskings/{taskId}/planning/{linkId} | Unlink a strategic goal | — | 204 No Content |

All endpoints use the mission-specific database connection and emit real-time notifications via the Communications WebSocket.

**5. Frontend Components & UI Flow**

**5.1 Task Screen Layout**

* **Main Status Board:** Full-page, row-based view where each task occupies one row; column headers allow sorting and reordering. (Columns to be defined later.)
* **Row Interaction:** Single-click selects a row; double-click opens the Task Detail window.

**5.2 Task Detail Window**

**Design Note:** Layout and element grouping should draw inspiration from the CAD-style screenshot provided, but this submodule’s UI should not be an exact copy—use our app’s theme, clean spacing, and simplified controls.

A floating, draggable window containing:

* **Window Background:** Color varies by Task Category.
* **Top Toolbar (4 dropdowns):**
  1. **Category:** Dropdown with predefined options: <New Task>(Default)/Air SAR/Damage Assessment/Ground SAR/Logistics Support/Other/Photography/Relocation
  2. **Task Type:** Dropdown list populated from a predefined CSV of task types, dynamically filtered based on the selected **Category**.
  3. **Priority:** Predefined choices: Low, Medium, High, Critical.
  4. **Status (Task):** Predefined workflow states: Draft, Planned, In Progress, Completed, Cancelled.  
     *Note:* This dropdown controls the overall task status only; the **Status** column in the Teams tab uses its own set of team-specific statuses.
  5. **Task ID:** Free-text input for entering or overriding the unique Task Identifier.

**Dropdown Options Reference:**

* **Categories:** <New Task>(Default)/Air SAR/Damage Assessment/Ground SAR/Logistics Support/Other/Photography/Relocation  
  **Priorities:** Low, Medium, High, Critical  
  **Statuses (Task):** Draft, Planned, In Progress, Completed, Cancelled Low, Medium, High, Critical
* **Statuses (Task):** Draft, Planned, In Progress, Completed, Cancelled

**Location Bar**:\*\* Single-line free-text input for location or assignment name.

* **Narrative Entry Box:** Large multiline input; pressing Enter appends to the narrative log.

**Bottom Tab Panel**

The Task Detail window includes a tab panel with ten tabs:

1. **Narrative**  
   Read‑only, sortable table with columns:
   * **Date/Time**
   * **Entry**
   * **Entered By**
   * **Team Number**
   * **Critical** (rows highlight red if Yes)
   * **ICS 214 Export** button  
     *Text editable only by admin; Critical flag editable by any user.*
2. **Teams**  
   Sortable table with columns:
   * **Sortie Number** (optional)
   * **Team Name**
   * **Team Leader**
   * **Team Leader Phone Number**
   * **Status:** Dropdown presenting only the statuses valid for the task’s category or type, enabling quick manual updates.
   * **Assigned:** Date/time stamp set when assigned.
   * **Briefed:** Date/time stamp set on “Briefed.”
   * **Enroute:** Date/time stamp set on “En Route.”
   * **Arrival:** Date/time stamp set on “On Scene.”
   * **Discovery:** Date/time stamp set on “Discovery/Find.”
   * **Complete:** Date/time stamp set on “Complete.”  
     **Actions:** Add Team, Remove Team, Change Status (triggers timestamp update).
3. **Personnel**  
   Table view, sortable by any column:
   * **Auto‑Populate:** Entries derive from team assignments; manual add/remove allowed.
   * **Columns:**
     + **ID**
     + **Name**
     + **Role**
     + **Phone Number**
     + **Organization**
     + **Team Name**
     + **Time Assigned**  
       **Actions:** Add/Remove Personnel, Edit Time Assigned (inline date/time picker).  
       **Features:** Filtering by Organization/Role; Bulk operations.
4. **Vehicles**  
   Table view, sortable by any column:
   * **Auto‑Populate:** Entries derive from team assignments; manual add/remove not permitted.
   * **Columns:**
     + **Vehicle ID**
     + **Type**
     + **Team Assignment**  
       **Actions:** Reassign Vehicle (inline dropdown).  
       **Features:** Live status indicator; Inventory filter.
5. **Assignment Details**  
   *Goal:* Support CAPF 109, SAR 104, and ICS 204 by capturing form-specific details not located elsewhere in the tab.  
   Contains two subtabs:
   * **Ground Information** (default)
     + Previous and Present Search Efforts in Area
     + Time Allocated
     + Size of Assignment
     + Expected POD
       1. Options of High/Medium/Low in categories of Responsive Subj, Unresponsive Subj, Clues
     + Drop off and Pickup instructions
   * **Air Information** — Aviation assignment details
     + WMIRS Area of Operations
     + Dep. Airport
     + Dest. Airport
     + ETD
     + ETE
     + Other Aircraft in Area (Location & Callsign)
     + Ground Teams in Area (Location & Callsign)
     + Sortie Objectives
     + Sortie Deliverables
     + Actions To Be Taken on Objectives & Deliverables
     + Route of Flight
     + Altitude Assignment & Restrictions
     + Airspeed Expected & Restrictions
     + Aircraft Separation (Adjoining Areas)
     + Emergency/Alternate Fields
     + Military Low Altitude Training Routes
     + Hazards to Flight
     + Sortie Search Plan
       1. Search Pattern
       2. Search Visibility (NM)
       3. Search Altitude (AGL)
       4. Search Speed (Knots)
       5. Track Spacing (NM)
       6. Terrain
          1. Flat/Rolling Hills/Rugged Hills/Mountainous
       7. Cover
          1. Open/Moderate/Heavy/Light Snow/Heavy Snow
       8. Turbulence
          1. Light/Moderate/Heavy
       9. Probability of Detection
       10. Time to Search Area
       11. Time Started Search
       12. Time Ended Search
       13. Time in Search Area
       14. Time from Search Area
       15. Time From Search Area
       16. Total Sortie Time
6. **Communications**  
   Table mirroring ICS 205 Basic Radio Channel Use; only **Channel Name** and **Function** editable, others read‑only. Data populates from ICS 205 via selected channel:
   * **Channel Name** (dropdown)
   * **Zone**
   * **Channel Number**
   * **Function** (editable)
   * **RX Frequency**
   * **RX Tone/NAC**
   * **TX Frequency**
   * **TX Tone/NAC**
   * **Mode** (A/D/M)
   * **Remarks**
7. **Debriefing**  
   Post-task review interface capturing debrief notes, lessons learned, and personnel feedback. Initial screen contains a log of completed debriefs. Button at the top labeled “Add Debrief”. This opens a window asking for the sortie number, Debriefer (Enter ID to reference name) and a checklist of different debrief types. Types include Ground (SAR), Area Search Supplement, Tracking Team Supplement, Hasty Search Supplement, Air (General), Air (SAR Worksheet). Ground (SAR) must be selected in order for area search, tracking team, or hasty search to be selected. Air (General) must be selected in order for Air (SAR Worksheet) to be selected. This check list selects which forms will be displayed. After entering sortie number, debriefer ID, and selecting forms, the user clicks create which opens up the appropriate forms. After saving the form, debriefs may be edited. Information is sent to the planning debrief module and flagged for review.
   * **Ground (SAR)**
     + Assignment Summary (Free Text)
     + Describe Search Efforts in Assignment (Free Text)
     + Describe Portions Unable to Search (Free Text)
     + Describe Clues/Tracks/Signs or any Interviews (Free Text)
     + Describe any Hazards or Problems Encountered (Free Text)
     + Suggestions for Further Search Efforts In or Near Assignment (Free Text)
     + Time Entered
     + Time Exited
     + Time Spent
     + Conditions
       1. Clouds
          1. Clear/Scattered/Broken/Overcast
       2. Precipitation
          1. None/Rain/Scattered/Snow
       3. Light Conditions
          1. Bright/Dull/Near Dark/Night
       4. Visibility
          1. > 10 Miles/> 5 Miles/> 1 Mile/< 1 Mile
       5. Terrain
          1. Flat/Rolling Hills/Rugged Hills/Mtns
       6. Ground Cover
          1. Open/Moderate/Heavy/Other
       7. Wind Speed
          1. Calm/< 10 mph/< 20 mph/< 30 mph
     + Attachments
       1. Debriefing Maps
       2. Original Briefing Document
       3. Supplemental Debriefing Forms
       4. Interview Log
       5. Other
   * **Area Search Supplement**
     + Number of Searchers
     + Time Spent Searching
     + Search Speed
     + Area Size (Actually Searched)
     + Spacing
     + Visibility Distance (Free Text)
     + How was Visibility Distance Determined (Free Text)
     + Types of Areas Skipped Over (Ie Heavy Brush, Wetlands, Cliffs) (Free Text)
     + Describe the Direction and Pattern of your Search (Free Text)
     + Comments for Additional Area Searching of this Assignment (Free Text)
   * **Tracking Team Supplement**
     + Discuss Likelihood of Finding Tracks or Sign on the Trails (Free Text)
     + Describe the Location and Nature of Existing Track Traps (Free Text)
     + Did You Erase Any Track Traps (Free Text)
     + Did You Create Any New Track Traps (Free Text)
     + Describe the Route Taken by Any Tracks You Followed (Free Text)
     + Why Did You Discontinue Following These Tracks (Free Text)
     + Attachments
       1. Individual Track Sketches Attached
       2. Track Trap Summary Sketches Attached
   * **Hasty Search Supplement**
     + Visibility During Search (Day/Dusk/Night/Other) (Free Text)
     + Describe Your Efforts to Attract a Responsive Subject (Free Text)
     + Describe Ability to Hear a Response (Background Noise) (Free Text)
     + Describe the Trail Conditions (Free Text)
     + Describe the Off-Trail Conditions (Free Text)
     + Does the Map Accurately Reflect the Trails (Free Text)
     + Did You Locate Features That Would Likely Contain the Subject (Free Text)
     + How Are the Tracking Conditions (Free Text)
     + Describe any Hazards or Attractions You Found (Free Text)
   * **Air (General)**
     + Flight Plan Closed (Boolean Yes/No)
     + ATD
     + ATA
     + Hobbs Start
     + Hobbs End
     + Hobbs To/From
     + Hobbs in Area
     + Hobbs Total
     + Tach Start
     + Tach End
     + Fuel Used (Gal)
     + Oil Used (Qt)
     + Fuel & Oil Cost
     + Receipt #
     + Summary (Free Text)
     + Results/Deliverables (Free Text)
     + Weather Conditions (Free Text)
     + Remarks (Free Text)
     + Sortie Effectiveness
       1. Successful/Marginal/Unsuccessful/Not Flown/Not Required
     + Reason (if not successful)
       1. Weather/Crew Unavailable/Aircraft Maintenance/Customer Cancellation/Equipment Failure/Other
     + Attachments/Documentation
       1. CAPF 104A SAR
       2. CAPF 104B Recon Summary
       3. ICS 214 Unit Log
       4. Receipts
       5. AIF ORM Matrix
   * **Air (SAR Worksheet)**
     + Search Area
       1. Name
       2. Grid
       3. NW Corner (Lat/Long)
       4. NE Corner (Lat/Long)
       5. SW Corner (Lat/Long)
       6. SE Corner (Lat/Long)
     + Sortie Search Actual
       1. Search Pattern
       2. Search Visibility (NM)
       3. Search Altitude (AGL)
       4. Search Speed (Knots)
       5. Track Spacing (NM)
       6. Terrain
          1. Flat/Rolling Hills/Rugged Hills/Mountainous
       7. Cover
          1. Open/Moderate/Heavy/Light Snow/Heavy Snow
       8. Turbulence
          1. Light/Moderate/Heavy
       9. Probability of Detection
       10. Time to Search Area
       11. Time Started Search
       12. Time Ended Search
       13. Time in Search Area
       14. Time from Search Area
       15. Time From Search Area
       16. Total Sortie Time
     + Crew Remarks and Notes
       1. Effectiveness
          1. Excellent/Good/Fair/Poor
       2. Visibility
          1. Excellent/Good/Fair/Poor
8. **Log**  
   System audit trail, sortable table with columns:
   * **Timestamp**
   * **Field Changed**
   * **Old Value**
   * **New Value**
   * **Changed By**  
     **Features:** Filtering by date/field; Export CSV; Keyword search.
9. **Attachments/Forms**  
   Table with columns:
   * **Filename**
   * **Type**
   * **Uploaded By**
   * **Timestamp**
   * **Size**  
     **Actions:** Upload File, Download/Preview, Annotate.  
     **Features:** Version control; File size warnings.  
     **Forms Generation:** **Generate Forms** button for CAPF 109, SAR 104, ICS 204, etc.
10. **Planning**
    * **Purpose:** Link task to strategic goals; provide checklist for planning items.
    * **Fields:** TBD.

**Close/Minimize Controls:** Standard window chrome for hiding or closing the window.:\*\* Standard window chrome for hiding or closing the window.

Develop these components in React under frontend/src/modules/operations/taskings/ frontend/src/modules/operations/taskings/ frontend/src/modules/operations/taskings/.

**6. Module Cross Links**

 **Communications**

* Send/receive real-time notifications and alerts when tasks are created, updated, or completed
* Populate the “Communications” tab’s radio channels data from the ICS 205 channel definitions
* Use the IM/213 messaging system for cross-team alerts

 **Planning**

* Ingest reflex taskings and strategic task requests from the Planning (Strategic Tasks) module
* Link tasks to strategic goals via the Planning tab (and push debrief outcomes back into Planning’s reviews)

 **Personnel & Role Management**

* Lookup and validate personnel IDs for “Created By,” “Entered By,” Debriefer, etc.
* Auto-populate the Personnel tab when assigning teams
* Enforce Role-Based Access (e.g., only Officers can create/delete tasks)

 **ICS Forms & Documentation**

* Retrieve form templates (ICS 204, ICS 213, CAPF 109, SAR 104, etc.)
* Generate and store completed forms via the Attachments/Forms tab’s “Generate Forms” action

 **Log/Audit Trail**

* Hook into the global Audit Logs system to record every CRUD operation on tasks, narrative entries, team assignments, debriefs, etc.
* Surface filtered log views in the Log tab

 **Status Boards**

* Optionally publish high-level task summaries to any Status Boards (e.g., overall Progress board)

 **Reference Library**

* Provide lookup help text or reference links for form instructions, radio channel standards, debrief checklists, etc.

 **Data Persistence/Core**

* Use the mission-specific database in core/data/ for storing all tasking tables and relationships
* Integrate with any shared “master” lookup tables (e.g., ICS 205 channels, personnel directory, vehicle inventory)

 **Strategic Tasks (Planning Submodule)**

* Accept “tasking” requests from the Strategic Tasks module and allow planners to mark items as “reflex taskings” back into Operations