**Royal Sundaram Insurance - Proposal Management API Documentation**

**Overview**

This documentation covers the API endpoints required for the Proposal Management and Bulk Download functionality in the Royal Sundaram Insurance mobile application.

**Base URL**

https://api.royalsundaram.com/v1

**Authentication**

All APIs require Bearer token authentication:

Authorization: Bearer <access\_token>

**API Endpoints**

**1. Get All Proposals**

**Endpoint:** GET /proposals

**Description:** Fetch all proposals with filtering options

**Query Parameters:**

* page (optional): Page number (default: 1)
* limit (optional): Items per page (default: 20)
* sector (optional): Filter by sector (All, Motor, Health, Commercial)
* status (optional): Filter by status (Initiated, Action Required, Closed)
* from\_date (optional): Start date filter (YYYY-MM-DD)
* to\_date (optional): End date filter (YYYY-MM-DD)
* search (optional): Search term for proposal number or name

**Response:**

{

"success": true,

"data": {

"proposals": [

{

"id": "12345",

"proposal\_number": "PC05708720",

"policy\_number": "VMT024603600100",

"customer\_name": "Thangavelu",

"sector": "Motor",

"package\_type": "MotorCyclePackage",

"status": "Initiated",

"status\_color": "blue",

"inward\_code": "NA",

"posted\_date": "2025-02-01",

"premium": 1358,

"currency": "₹",

"additional\_info": "Inward Received",

"download\_available": true

}

],

"total\_count": 32,

"current\_page": 1,

"total\_pages": 2

}

}

**2. Get Proposal Sectors**

**Endpoint:** GET /proposals/sectors

**Description:** Get available sectors for filtering

**Response:**

{

"success": true,

"data": {

"sectors": [

{

"id": "all",

"name": "All",

"is\_default": true

},

{

"id": "motor",

"name": "Motor",

"is\_default": false

},

{

"id": "health",

"name": "Health",

"is\_default": false

},

{

"id": "commercial",

"name": "Commercial",

"is\_default": false

}

]

}

}

**3. Get Proposal Statuses**

**Endpoint:** GET /proposals/statuses

**Description:** Get available statuses for filtering

**Response:**

{

"success": true,

"data": {

"statuses": [

{

"id": "initiated",

"name": "Initiated",

"color": "blue"

},

{

"id": "action\_required",

"name": "Action Required",

"color": "red"

},

{

"id": "closed",

"name": "Closed",

"color": "green"

}

]

}

}

**4. Download Single Proposal**

**Endpoint:** GET /proposals/{proposal\_id}/download

**Description:** Download a single proposal document

**Path Parameters:**

* proposal\_id: The ID of the proposal

**Response:** Binary file (PDF) or redirect URL

**5. Bulk Download Proposals**

**Endpoint:** POST /proposals/bulk-download

**Description:** Initiate bulk download of selected proposals

**Request Body:**

{

"proposal\_ids": ["12345", "12346", "12347"],

"filters": {

"sector": "all",

"status": "all",

"from\_date": "2025-07-01",

"to\_date": "2025-07-31"

},

"download\_format": "xlsx"

}

**Response:**

{

"success": true,

"data": {

"download\_id": "bulk\_download\_67890",

"status": "processing",

"message": "Bulk download initiated. You will be notified when ready.",

"estimated\_completion": "2025-05-28T10:00:00Z"

}

}

**6. Check Bulk Download Status**

**Endpoint:** GET /proposals/bulk-download/{download\_id}/status

**Description:** Check the status of bulk download

**Path Parameters:**

* download\_id: The ID of the bulk download request

**Response:**

{

"success": true,

"data": {

"download\_id": "bulk\_download\_67890",

"status": "completed",

"download\_url": "https://api.royalsundaram.com/downloads/bulk\_download\_67890.xlsx",

"expires\_at": "2025-05-30T10:00:00Z",

"file\_size": "2.5MB",

"total\_records": 32

}

}

**7. Get Available Date Range**

**Endpoint:** GET /proposals/date-range

**Description:** Get the available date range for proposals

**Response:**

{

"success": true,

"data": {

"min\_date": "2024-01-01",

"max\_date": "2025-05-28",

"default\_range": {

"from": "2025-01-01",

"to": "2025-05-28"

}

}

}

**Error Responses**

All APIs follow standard HTTP status codes and return errors in this format:

{

"success": false,

"error": {

"code": "VALIDATION\_ERROR",

"message": "Invalid date range provided",

"details": {

"field": "from\_date",

"reason": "Date cannot be in the future"

}

}

}

**Common Error Codes:**

* UNAUTHORIZED (401): Invalid or expired token
* FORBIDDEN (403): Insufficient permissions
* VALIDATION\_ERROR (400): Invalid request parameters
* NOT\_FOUND (404): Resource not found
* RATE\_LIMIT\_EXCEEDED (429): Too many requests
* INTERNAL\_SERVER\_ERROR (500): Server error

**Notes for Backend Team**

1. **Pagination:** Implement cursor-based pagination for better performance with large datasets
2. **Caching:** Cache sector and status lists as they change infrequently
3. **File Storage:** Store bulk download files temporarily (24-48 hours) before cleanup
4. **Notifications:** Implement push notifications for bulk download completion
5. **Rate Limiting:** Implement rate limiting for bulk download requests
6. **Security:** Validate user permissions for accessing specific proposals
7. **Audit Logging:** Log all download activities for compliance

sequenceDiagram

participant MA as Mobile App

participant BE as Backend API

participant DB as Database

participant FS as File Storage

Note over MA, FS: Initial App Load & Proposals Screen

MA->>BE: GET /proposals/sectors

BE->>DB: Query available sectors

DB-->>BE: Return sectors data

BE-->>MA: Return sectors list

MA->>BE: GET /proposals/statuses

BE->>DB: Query available statuses

DB-->>BE: Return statuses data

BE-->>MA: Return statuses list

MA->>BE: GET /proposals?page=1&limit=20

BE->>DB: Query proposals with pagination

DB-->>BE: Return proposals data

BE-->>MA: Return proposals list (32 total)

Note over MA, FS: User Applies Filters

MA->>BE: GET /proposals?sector=motor&status=initiated&from\_date=2025-07-01&to\_date=2025-07-31

BE->>DB: Query filtered proposals

DB-->>BE: Return filtered results

BE-->>MA: Return filtered proposals

Note over MA, FS: User Searches Proposals

MA->>BE: GET /proposals?search=PC05708720

BE->>DB: Search proposals by number/name

DB-->>BE: Return search results

BE-->>MA: Return matching proposals

Note over MA, FS: Single Proposal Download

MA->>BE: GET /proposals/12345/download

BE->>DB: Validate user access to proposal

DB-->>BE: Access granted

BE->>FS: Generate/Retrieve proposal document

FS-->>BE: Return file or download URL

BE-->>MA: Return file/redirect to download

Note over MA, FS: Bulk Download Process

MA->>BE: POST /proposals/bulk-download<br/>{proposal\_ids: [...], filters: {...}}

BE->>DB: Validate proposals and user access

DB-->>BE: Validation successful

BE->>BE: Create bulk download job

BE-->>MA: Return download\_id and status "processing"

Note over MA, FS: Check Bulk Download Status (Polling)

loop Every 5 seconds

MA->>BE: GET /proposals/bulk-download/{download\_id}/status

BE->>DB: Check job status

DB-->>BE: Return current status

alt If still processing

BE-->>MA: Status: "processing"

else If completed

BE->>FS: File ready in storage

FS-->>BE: File URL and metadata

BE-->>MA: Status: "completed" + download\_url

else If failed

BE-->>MA: Status: "failed" + error details

end

end

Note over MA, FS: Download Completed File

MA->>BE: GET /downloads/bulk\_download\_67890.xlsx

BE->>FS: Retrieve bulk download file

FS-->>BE: Return file content

BE-->>MA: Return Excel/PDF file

Note over MA, FS: Error Handling Scenarios

MA->>BE: GET /proposals (with invalid token)

BE-->>MA: 401 Unauthorized

MA->>BE: GET /proposals?from\_date=2025-12-01 (future date)

BE-->>MA: 400 Validation Error

MA->>BE: POST /proposals/bulk-download (too many requests)

BE-->>MA: 429 Rate Limit Exceeded

Architeture digram for front end

**graph** TD

    A[User Login] **-->** B{Login Success?}

    B **-->**|No| C[Show Error]

    C **-->** A

    B **-->**|Yes| D[All Proposals Screen]

    D **-->** E[Search/Filter Options]

    E **-->** F[Category: All/Motor/Health/Commercial]

    E **-->** G[Search Bar]

    F **-->** H[Display Filtered Proposals]

    G **-->** I{Search Query?}

    I **-->**|Yes| H

    I **-->**|No| J[Show All Proposals]

    H **-->** K{Proposals Found?}

    J **-->** K

    K **-->**|No| L[No Proposals Message]

    K **-->**|Yes| M[List Proposals with Status]

    M **-->** N[Proposal Status Types]

    N **-->** N1[Initiated]

    N **-->** N2[Action Required]

    N **-->** N3[Closed]

    M **-->** O[Individual Download]

    M **-->** P[Bulk Download Button]

    P **-->** Q[Bulk Download Form]

    Q **-->** R[Select Date Range]

    Q **-->** S[Select Status Filter]

    Q **-->** T[Select File Format]

    R **-->** U{Valid Dates?}

    U **-->**|No| V[Show Date Error]

    V **-->** R

    U **-->**|Yes| W[Dates Accepted]

    S **-->** X[Status Filter Applied]

    T **-->** Y[Format Selected]

    W **-->** Z[Form Validation Complete]

    X **-->** Z

    Y **-->** Z

    Z **-->** AA[Download Button Enabled]

    AA **-->** BB[Click Download]

    BB **-->** CC{Download Success?}

    CC **-->**|No| DD[Show Download Error]

    CC **-->**|Yes| EE[File Downloaded]

    DD **-->** Q

    EE **-->** D

    L **-->** FF[Refresh/Go Back]

    FF **-->** D

    style A fill:#ffffff,stroke:#000000,stroke-width:2px,color:#000000

    style C fill:#ffffff,stroke:#000000,stroke-width:2px,color:#000000

    style D fill:#ffffff,stroke:#000000,stroke-width:2px,color:#000000

    style L fill:#ffffff,stroke:#000000,stroke-width:2px,color:#000000

    style V fill:#ffffff,stroke:#000000,stroke-width:2px,color:#000000

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    style EE fill:#ffffff,stroke:#000000,stroke-width:2px,color:#000000