



# AVIATION TECHNOLOGY SOLUTIONS



## WE ARE A COMPANY SPECIALIZING IN AVIATION TECHNOLOGIES

QMSmart is a Technology provider specialized in Aviation domain with a strong foot-print. With our Low-Code platform we have invented and developed a framework that helps in optimizing any aviation process, be it Safety, Compliance, Hazard & Risk, Crew, Document or even Task Management



## CONTACT US


QMSMART TECHNOLOGIES

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# OUR SOLUTIONS

## **Safety Management**

With systems that help report incidents/changes/risk, investigations, and give corrective or preventive measures seamlessly, and make sure that no incident goes unnoticed. We keep your safety our top priority.

## **Audit Management**

A system that allows creating question banks, choices & choice types with regulations attached. Making it easy to build checklists for audits and also schedule audits seamlessly. You can also get all audit reports and always be on track.

## **Risk Management**

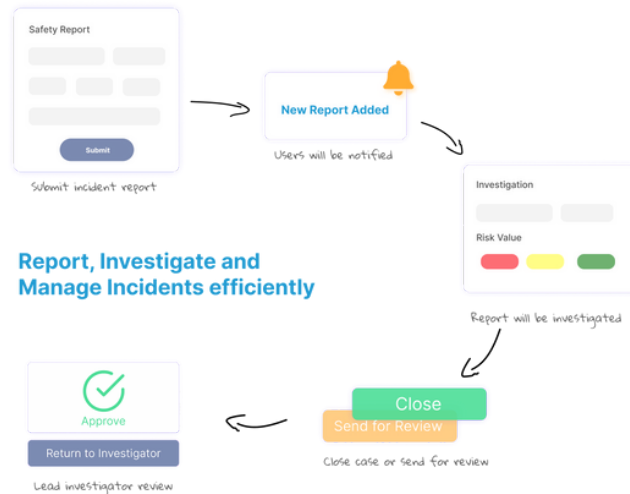
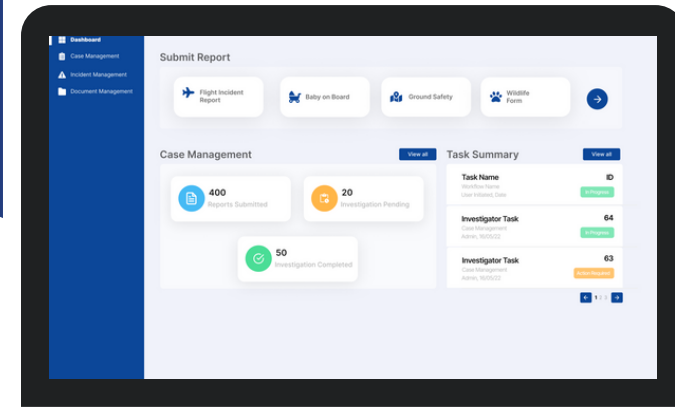
A system that enables to report of hazards or changes and ensures a systematic risk assessment is being conducted for the same in order to mitigate any potential accidents or incidents.

## **Document Management**

A system that allows the creation, storage, managing, indexing, protection, and retrieval of digital documents. You can organize all your files and data in one place, keep track of all your critical documents, speed up your workflow, improve accuracy and provide around-the-clock access to documents from any part of the world.

CUSTOMIZE OUR  
PRE-BUILT  
SOLUTIONS TO  
YOUR NEEDS

# NO INCIDENTS WILL GO UNNOTICED



Access reports on the GO  
with your mobile phone



## SAFETY MANAGEMENT SYSTEM

## ONE PLACE TO

- ✓ Report Incidents
- ✓ Investigate incidents
- ✓ Track investigations
- ✓ Create and implement CAPA
- ✓ Assign risk ratings to incidents

## TRACK INVESTIGATIONS AND GET SAFETY INTELLIGENCE ANALYTICS

# HOW SMS WORKS

## Incident Reporting

QMSmart

Dashboard Administration 1. Safety Policy 3. Safety Reports 4. Case & Incident Mgmt. 6. Safety Assurance Audit Management Check List Management DMS Master Data Mgmt. My Planner Risk Management SMS Dashboard

mytri My Tasks Admin

Type of Report •  
 Engineering  
 Flight

Incident Date •  
dd-mm-yyyy

Select Aircraft Registration •  
 VT-PRM  
 VT-PVK

Destination •  
Enter Destination

Flight Phase

Instruction

Origin •  
Enter Origin

Title of Incident •

Flight Additional Info

PAX Details  
Enter PAX Details

Crew Details  
Enter Crew Details

Engineering Details  
Eng MP2

Report incidents using a fully customizable form. A user can simply fill in all the details and submit.

## Report Validation

Once an incident report is submitted, the report goes through a validation stage where a gatekeeper will validate if the investigation is required or not.

## Investigation

After a report is validated. Our system automatically creates a case and triggers an investigation task for investigators. Where a group of investigators or an individual investigator can investigate the case.

Initial Risk Value: 3C

Initial Risk Classification: Medium

SAFETY RISK	Probability	SEVERITY				
		Catastrophic	Hazardous	Major	Minor	Negligible
		A	B	C	E	F
Frequent	5	5A	5B	5C	5D	5E
Occasional	4	4A	4B	4C	4D	4E
Remote	3	3A	3B	3C	3D	3E
Improbable	2	2A	2B	2C	2D	2E
Extremely Improbable	1	1A	1B	1C	1D	1E

Most Credible Outcome: Minor Accident



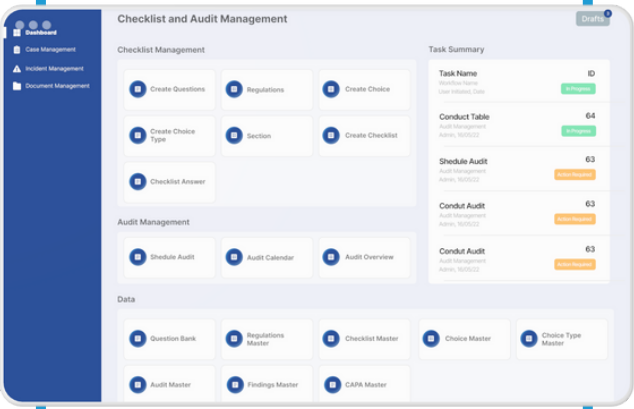
# HOW SMS WORKS

## Lead investigation and final risk rating

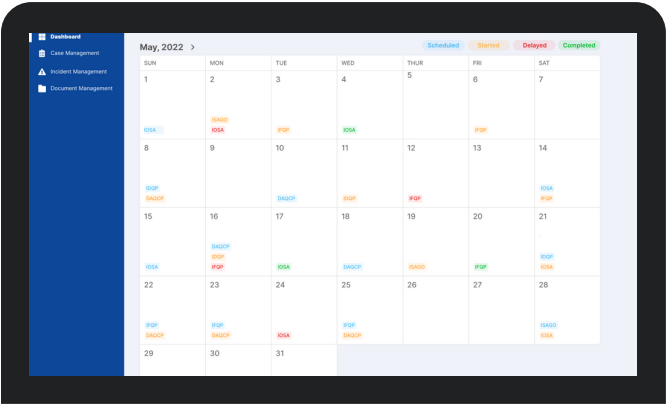
Once initial risk ratings and investigation is done the investigator can send the report for review by a lead investigator. After review, the lead investigator can give final risk ratings and close or return the case.

## Track workflow

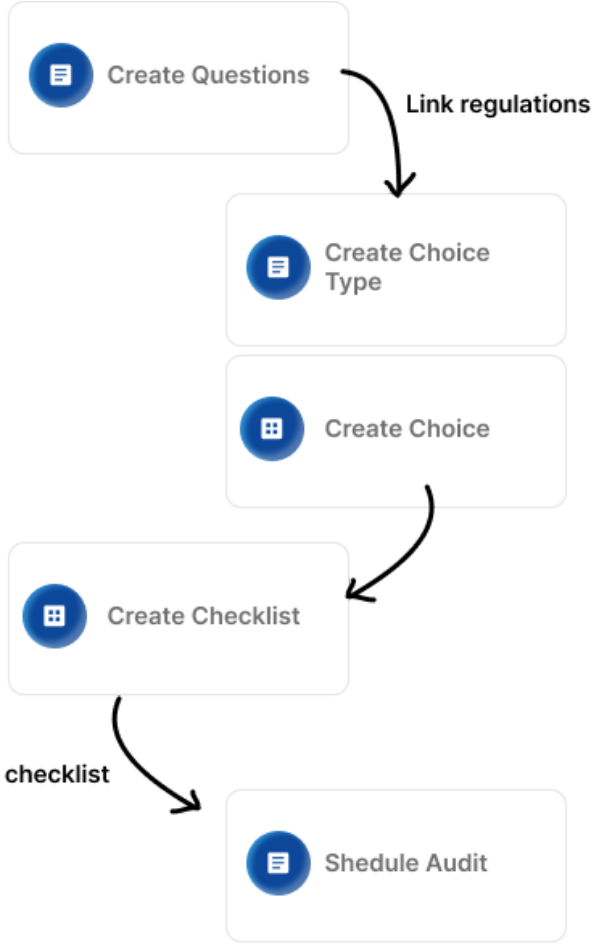
#	Task	Assigned By	Assigned On	Actioned By	Completed On	Status
1	Case Investigation	150001	27-07-2022 05:07:29	150001	27-07-2022 05:07:29	Completed
2	Investigator Task	150001	27-07-2022 05:07:29	15002	27-07-2022 05:08:29	Completed
3	Investigation In-Progress	15002	27-07-2022 05:08:29	15002	27-07-2022 05:09:14	Completed
4	Task to Lead Investigator	15002	27-07-2022 05:09:14	15002	27-07-2022 05:09:14	In Progress



# CREATE, SCHEDULE AND TRACK AUDITS



# AUDIT MANAGEMENT SYSTEM



# ONE PLACE TO

- ✓ Create question banks
- ✓ Manage regulations
- ✓ Build and publish the checklist
- ✓ Schedule and track audit
- ✓ View audit reports

# SCHEDULE AND CONDUCT AUDITS SEAMLESSLY

# CREATE QUESTIONS, CHOICE TYPE AND CHOICES

## Create Questions with Regulations

Enter Questions

**B** *I* U ~~S~~ Segoe UI 10 pt **A** tt

Enter Enter Questions

Select Regulations

id :	reg_type :	reg_name :	Actions :
No data to display			
0 total			

## Create Choice Types and Choices

### Choice Type Name

Enter Choice Type Name

### Enter Choices

Enter Enter Choices

### Choice Types

# CREATE CHECKLIST

The screenshot shows the 'Create Checklist' interface in the Auditee application. The interface is divided into three main sections:

- Left Panel:** A vertical sidebar with a menu icon at the top. Below it are six buttons, each with three dots on the left and a label: 'Section', 'Question', 'Regulation', 'Notes and Media', 'Signature', and 'Comment'.
- Center Panel:** The main workspace for creating a checklist item. It features a header 'Checklist Name' with a '+ Select Choice Type' link. Below this is a large blue button labeled 'Section Name'. Underneath is a text area containing placeholder text: 'Lorem ipsum dolor sit amet, consectetur adipiscing elit. Lectus ac nulla pretium et aliquam in facilis a. Quam ut curabitur nunc odio.' Below the text are three icons: 'Add Notes', 'Add Media', and 'Regulation'. A dashed box with a '+' sign is positioned below these icons. Further down is a 'Signature' field with an 'Add Signature' button. At the bottom is a text input field with the placeholder 'Enter question here or [select from the question bank](#)' and another dashed box with a '+' sign.
- Right Panel:** A 'Properties' section with three checkboxes: 'Allow to assign section-wise', 'Add notes and media to all question', and 'Add mandatory questions'.

At the top right of the interface, there is a notification bell icon, a user profile icon labeled 'Auditee', and three buttons: a refresh icon, a circular arrow icon, and a 'Save' button. A 'Publish' button is also visible at the top right of the main workspace.

Create and customize the checklist for audit with an easy-to-use drag and drop components. Add multiple sections with questions, enable the auditor to add media and notes as audit evidence and also edit and view all the regulations linked with the questions.



← Audit Calendar

Schedule Audit

May, 2022 >

Scheduled Started Delayed Completed

SUN	MON	TUE	WED	THUR	FRI	SAT
1 IOSA	2 ISAGO IOSA	3 IFQP	4 IOSA	5	6 IFQP	7
8 IDQP DAQCP	9	10 DAQCP	11 IDQP	12 IFQP	13	14 IOSA IFQP
15 IOSA	16 DAQCP IDQP IFQP	17 IOSA	18 DAQCP	19 ISAGO	20 IFQP	21 IDQP IOSA
22 IFQP DAQCP	23 IFQP DAQCP	24 IOSA	25 IFQP DAQCP	26	27	28 ISAGO IOSA
29 IOSA	30 IOSA	31 IFQP				

**Audit Calendar to view and track scheduled audits**

# SCHEDULE AUDIT

Using our smart forms, add audit details, briefing and attach the published checklist. You can also select multiple checklist and assign different lead auditors for different checklists.

← **Conduct Audit** Audit Details → **Checklist** → Audit Summary

### Audit Details

**Audit ID**  
12

**Audit Title**  
Maintenance

**Start Date** **End Date**  
Date Date

**Audit category** **Department**  
14-06-2022 Dept

**Audit scope**  
Lorem ipsum dolor sit amet, consectetur adipiscing elit. A leo, suspendisse vulputate enim, est nec. Cursum in pellentesque vel blandit.

IOSA Checklist ↓

**Safety Management**

0/300 questions

Dummy Question Lorem ipsum dolor sit amet, consectetur adipiscing elit. Tellus eu amet, velit, libero morbi nisl non. Id et nunc risus tortor enim.

Documented
Not Documented
Add Finding

📝 Add Notes 📎 Add Media 📄 Regulation

Dummy Question Lorem ipsum dolor sit amet, consectetur adipiscing elit. Tellus eu amet, velit, libero morbi nisl non. Id et nunc risus tortor enim.

Documented
Not Documented
Add Finding

📝 Add Notes 📎 Add Media 📄 Regulation

### Assign Audit

Once an audit is scheduled from the audit office and the lead investigator accepts it. The lead investigator can assign different sections of the audit checklist to different auditors to optimize the resources. In addition to that lead auditor can also self assign the checklist.

### Conduct Audit and Raise Findings

After the sections are assigned the auditor can conduct the audit answer the checklist and also raise findings for the questions. The auditor will also be able to view regulation attached with the questions, upload evidences for the audit and also they will be able to answer the checklist in their smart phones as well.

# ASSIGN AND CONDUCT AUDIT

# IDENTIFY AND IMPLEMENT CAPA

## **Identify CAPA**

Once the checklist is answered and the audit is completed and submitted by the auditor, the findings are approved by the quality manager. After which CAPA is identified for the findings that were raised during audit

## **CAPA Approval**

After CAPA is identified, it goes for approval from the QA.

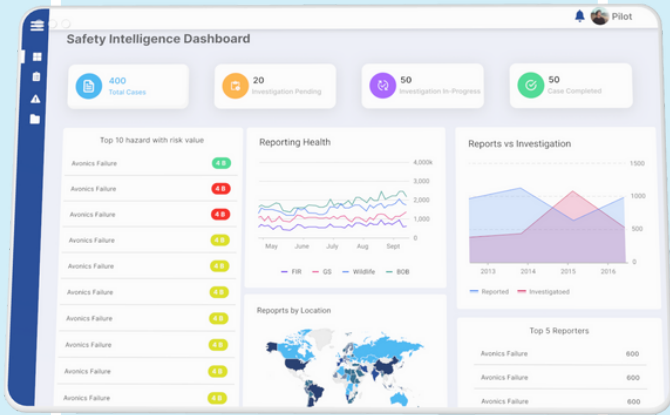
## **CAPA Implementation**

A system that enables to report of hazards or changes and ensures a systematic risk assessment is being conducted for the same in order to mitigate any potential accidents or incidents.

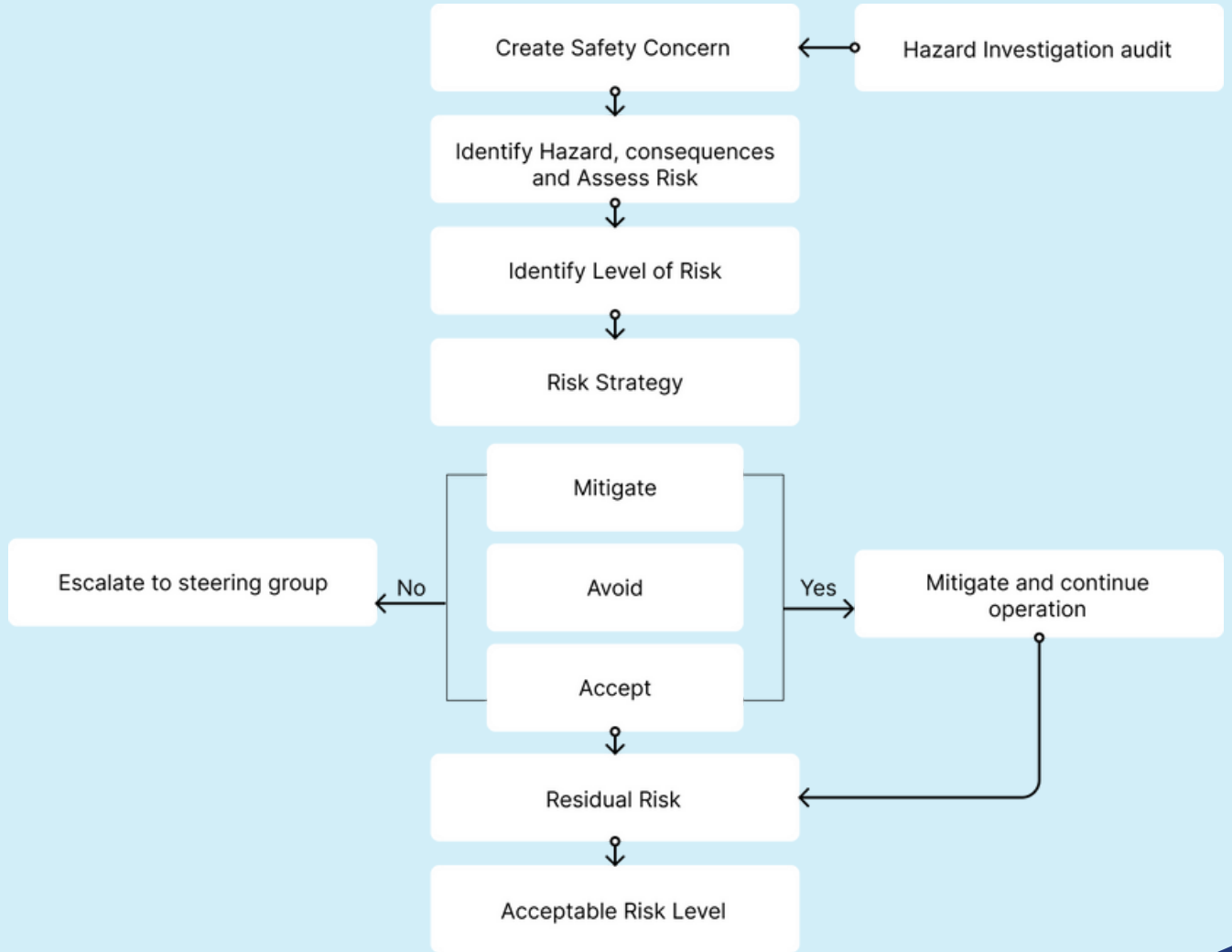
## **CAPA Closed**

Once CAPA implementation is completed and verified the CAPA is closed

# MANAGE RISK IN AVIATION OPERATIONS



# RISK MANAGEMENT SYSTEM





# RESPOND TO RISKS IN REAL-TIME

Through continuous monitoring and automation, QMSmart delivers a real-time view of compliance and risk, improves decision making, and increases performance in a cross-functional organization. Only QMSmart can enable to run an organization-wide risk assessment in an integrated environment. QMSmart Risk Management is built based on ICAO 9859 principles and Risk Management tool will enable you to

## **Risk Management**

Detect, and assess the likelihood as well as the business impact of an event based on data aggregated across your extended enterprise, and respond to critical changes in risk posture.

## **Group Activity Risk Management**

This feature will enable Airlines to conduct risk in an integrated manner with an ability for cross functioning

## **Hazard Management**

In the process of Risk Assessment, various departments conduct Hazard identification and this requires numerous man hours to analyze. QMSmart tool will enable users to re-use one existing Hazard for various other Risk Assessments.

## **Vendor Risk Management**

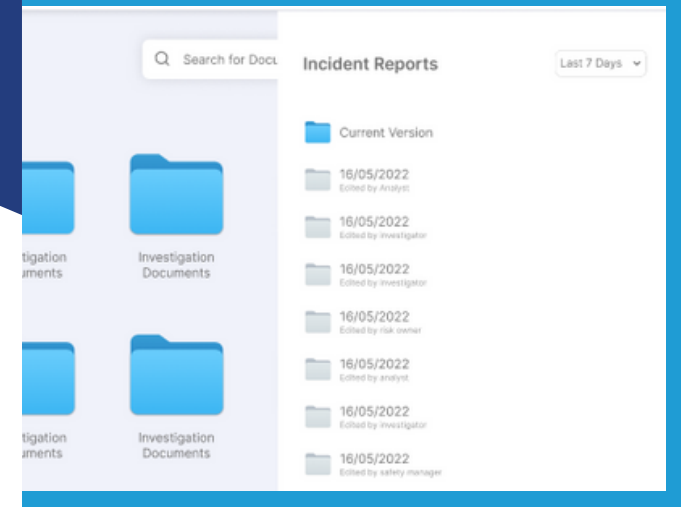
Institute a standardized and transparent process to manage the lifecycle for risks assessments, due diligence, and risk response with business partners and vendors



# UPLOAD, ORGANIZE AND MANAGE DOCUMENTS

A Document Management System or DMS, as the name implies, is a system or software that allows the creation, storage, managing, indexing, protection, and retrieval of digital documents. DMS will help you organize all your files and data in one place, keep track of all your critical documents, speed up your workflow, improve accuracy and provide around-the-clock access to documents from any part of the world.

## DOCUMENT MANAGEMENT SYSTEM



## ONE PLACE TO

- ✓ Manage documents hierarchically
- ✓ Control user management
- ✓ See and control version history
- ✓ Manage Format Consistency
- ✓ Manage document workflow

**Create Folders**

**Manage User Access**

**Add Sub-Folders and Files**

**View and Control Version History**



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