

Aviation Security and Flight Security operation in Emirates Airline(CAPU)

Table of Contents

Abstract	4
Background to study	5
The significance of study	6
Objectives of the study.....	6
General Objective	6
Specific Objectives	6
Research Questions.....	6
Review of literature.....	7
THE EVOLUTION TO RISK-BASED AVIATION SECURITY	10
A NEW APPROACH TO AVIATION SECURITY.....	10
EMERGING THREATS	10
DEMAND FOR INFRASTRUCTURE AND INNOVATION.....	11
GLOBAL STANDARDS	12
Responsibilities of Emirates Group Security.....	13
Fraud prevention	13
Airport Document Verification.....	14
Cargo and aircraft protection	14
Cabin security checks	15
Conceptual framework and hypotheses	15
Proposed methodology.....	16
General outline.....	16
Primary Data	17
Survey instruments.....	17
Data analyses	17
Purpose of study.....	17
Results.....	17

Results to 1 st hypothesis.....	17
Results to 2 nd hypothesis.....	18
Results to 3 rd hypothesis	19
Results of the fourth hypothesis.....	20
Summary of hypotheses	21
Conclusion	22
References.....	23
Appendix.....	25
Questionnaire	25

Abstract

Airline security is considered the most important when it comes to meeting the standards of airline quality management and must be considered by the management. This investigation aimed to investigate security platforms deployed by the management of Emirates Airline. In recent days I have found that aviation security considered to be mostly focused area then other and even past history tells us that it always needs to be considered important. There are 4 measures parties responsible for aviation security activity in an airport the government Department responsible for Civil Aviation, Police Department, Operators of an airport and the Airline Operators themselves. This study carried out quantitative investigation to find out the role of different security parameters followed by Emirates Airline. The variables selected were Cargo and aircraft protection, Cabin security check, Fraud prevention and Airport document verification. 5-point Likert scale questionnaire was used for investigation, and a total of 100 employees were tested for investigation. The results through regression analysis showed that all the 4 parameters are focussed by the management of Emirates Airline. All 4 departments are always alert and always working in their own way for safety. The main function of security at the airport is to stop terrorists to enter the airport or aircraft as a passenger so that they can function without any hassle as their plans. There are also several categories of security tasks at the airport such as passenger security screening, checked baggage security control, access to the restricted area, cargo and mail security, and crisis management. This study aims to find out the Flight Security Operation of Dubai based airline Emirates.

Background to study

Aviation security is considered one of the most important aspects in the management of airlines, especially when it comes to meeting the demands of flights and ensuring timely delivery of aircraft operations. According to the research article of Mantur (2016), Aviation security is defined as making a combination of material and human resources for safeguarding civil aviation against unlawful activities. Unlawful interference can take place in the form of terrorism, threat to life and property, bombing, sabotage etc. Aviation security is considered one of the most important aspects in the development of airlines because it can allow the development of different frameworks, through which the workload can be divided, and managed by people. In an investigation presented by Sundarakani, Abdul Razzak and Manikandan (2018), it is argued that airport and aircraft security is considered very important it keeps all the employees at ease during the flight operations. Due to this reason, it is believed that the management of different airlines should be taking some important initiatives in managing the workload, and ensuring that destination can be reached safely.

- To identify the security flight conducted by Emirates
- To identify the working style of Emirates Group Security.
- To identify the Flight Operation in Emirates by Emirates Group Security.

Aviation sector being one of the fastest ways for transferring things it's also targeted by criminals and terrorists cause aviation sector is always in hype because of the investment made in millions of dollars and the numbers of human life that will involve in it. Because of the safety and security in aviation, it is always seen as one of the safest ways of transport. Even research tells us that air transport is safe in comparisons with Road, Trains/Rails, Water/Marine. In today's world security and safety has been one of the most important things in the world it can be of property, privacy, even life and in aviation it is always taken in as major subject. All airlines and airports are always in the search of advance security system so that they can safeguard their property, privacy, and run their business in a smooth way. Aviation sector is always considered as most vulnerable area in today's world because it can have destruction of millions of dollars with numbers of lives. The study is about the security of flight operation in Emirates. Personally, being an employee in the department of aviation security in Emirates, Emirates is always concerned about the safety of their flight, Passengers and their employee so it has a different department just for the security i.e. Emirates Group Security which works day and night to ensure that all the operation of flights done by Emirates is 100% safe.

The significance of study

Working as security in Aviation I came to know that the security department has lot do to in future just to maintain the safety in Aviation sector. Every day there are new challenges they face and need to be strict and even be ready to make harsh decisions most of the times which may seem unpleasant most of the time but for the safety, there is no other way. This study is significant as it will identify the security measures that are taken before a flight by Emirates Group Security which handles all the security department in Emirates.

The following proposal templets will highlight the definition, features, role and importance of security and the flight security operation in Emirates. I will clarify the following questions: What is aviation security? Why it is considered as a vulnerable, actions taken by Emirates Group Security to make Emirates as one of the safest airlines around the world, and the flight security operation done by Emirates Group Security. This proposal targets an overview of the flight security operation carried by Emirates Group Security.

Objectives of the study

General Objective

The main focus of this study is to overview the Aviation Security and Flight security operation in Emirates Airline.

Specific Objectives

The specific aims of this investigation include:

- To identify what is aviation Security.
- To Identify why Aviation Security is important
- To identify the security flight conducted by Emirates
- To identify the working style of Emirates Group Security.
- To identify the Flight Operation in Emirates by Emirates Group Security.

Research Questions

This thesis aims to evaluate the following research questions for investigation.

1. What is aviation security?
2. What is AVSEC?
3. Why is Aviation Security important?
4. Which is the department responsible for Security in Emirates?
5. What is the role of Emirates Group Security?

6. What is the responsibility of Emirates Group Security?
7. Vision, Mission of Emirates Group Security.
8. How dose Emirates Group Security operates?
9. How does Emirates Group Security Conducts Flight Security Operation?

Review of literature

This literature review is based on identification of airline security, and the strategies adopted by the management of Emirates Airline for securing their flight operations. In an investigation presented by Mantur (2016), it is argued that the aviation security team is responsible for covering all the operations in the workplace of Emirates airline. This team is responsible for covering all the flight operations at the local and international level. Adding on the argument, Sundarakani, Abdul Razzak and Manikandan (2018) wrote that aviation security team in Emirates ensures that it is meeting the standards set by the authorities. In Emirates Airline, the security standards set by the management include ICAO Annex 17, Doc 8973, and those principles set by the TSA, DOTARS, DFT and EU. Some of the highlights of responsibilities followed by the management of Emirates Airline in security perspective depend on the following parameters:

- Performing safeguarding activities and operations to ensure that unlawful interference is not faced.
- To develop and implement security procedures and measures for developing and implementing operations standards.
- To keep the Emirates security programs up to date according to industry standards, regulations and recommended practices.
- To perform risk assessment and threat analysis of the stations across the networks.
- To liaise with different standards, which include, TSA, ECAC, DOTARS, GCAA, DCA and DFT.
- Perform security control, analysis and assessment of deportees, cases, and escorted prisoners, for acceptance of DEPOs, AVR's and INADs.
- Develop procedures in emergency procedures and perform crisis management activities.

The augmentation in globalization throughout the years, Aviation industry has developed as a central axes of the interchange, which likewise enables the interconnection of all countries, to

the extent where the gateway to any country is their airports. The importance of this industry is an attractive platform for criminals and terrorists for the usage of civil aviation to fulfill their interests. The efforts for the protection of this industry are essential and tightened controls are present for the assurance of the safety and reliability in the industry.

It is often noticed that travelers being agitated at the time of the security check. Aviation safety was not the subject before the 1960s and was not strictest. The reasons for aviation security are mentioned below

1. **PROTECTION AGAINST TERRORISTS:** In the period of 1960s and 1970s, numerous airplanes were hijacked. As a consequence, measures like screening, ticketing, and monitoring were acquainted which continued till 2001. The occurrence of 9/11 modified the system and was an alarming sign which persuaded authorities to bring amendments in the protection of the airports. The development of new security measures was performed for the extraction of intelligently intended strategies by terrorists. All these stemmed in strict security standards help prevent potential terrorist risks.
2. **FIGHT AGAINST NARCOTICS:** Shortly, usage of airports for drug trafficking become prevalent, smugglers like Pablo Escobar become billionaires by transferring drugs through flying routes which impacted negatively on the aviation industry. As a result, the society and economy countries were influenced. Even presently, there is an exploration of new techniques for drug trafficking by aircraft, but the strict standards of security catches the accounted people.
3. **PREVENT SMUGGLING:** Including drugs, various commodities that are illegal to trade are also detected by aviation security. Items like gold, stolen souvenirs, unusual and exotic animals in handbags, but were unsuccessful in transportation due to high quality of airport security.
4. **CYBER-SECURITY:** Safety inspections before the flight is not a single measure carried by airport security. Airplane databases are being hacked to attain unauthorized access to the airport and hackers are formulating new means to assault aviation network computers. With the advancement of digital technology with respect to the aviation industry, urgent concern for cyber-security is mandated. Investments are committed by the administration for cyber-security. Cyber-threats which can result in massive monetary losses and can disrupt the conveyance network is being handled by aviation security.
5. **PROTECTS PASSENGERS INSIDE AIRPORT:** The airport security is active for the protection of passengers from the massive shooting events on the drift. In the absence of aviation security, the risk of terrorist attacks will leave airports vulnerable. Criminals are

discouraged because of the strict measures taken for the safety of the airport. The development of technology has enabled airports to undertake probable hazards to passengers and provide safer air traveling experience. Few examples are listed below of this addition to technology

- A.I.T SCANNERS
- BIOMETRIC SYSTEM
- MRI LUGGAGE SCANNERS
- CYBER-SECURITY SOLUTION

Fundamentally, the difficulty is the expenditure of aviation protection, the best allowance of scarce resources for the contraction of the possibility of a blooming attack against the civilians to an adequate level. Here, two important significance is linked to the economic notion of scarcity. Firstly, defense movements' resources of any kind (encompassing flying security) are not directly attributed to the increment of economic welfare (relatively such actions are the precautionary measures for probable deduction in welfare). The expansion of defense activity resources brigades in the resource allocation for investment in capital interests and technology. Secondly, the allocation of a finite fund for the prevailing action of national security. Reserved allowance of aviation safety deduces the non-aviation target budgets. Moreover, complications of resource allocation arise due to the fact that decisions of aviation security risk are strategic and are different from natural disaster risks. For instance, if resources are allocated to assure the earthquake-proof construction, it will not alter the likelihood of an earthquake happening. However, if fluctuations will be present in resource allotment of either security measure, this changes the probability of attacks by terrorists.

Until crucial modifications are compelled, the financial and monetary expenses of the present aviation security system, within 15-20 years, predictions of unsustainability levels will reach as the number of travelers and cargo increases.

The annual growth rate of air passengers is forecasted to be in the range of 4.2 and 4.7 percent till 2033. By 2030, around 6 billion travelers will be necessitate screening and security measures in the globe annually. European Commission provided approximations by a study that total expenditures on aviation security of Europe is V2.8 billion (\$2.7 billion US).

U.S. finance of the Transportation Security Agency (TSA) has amplified meaningfully from its inauguration, rising from \$2.2 billion in 2002 to almost \$8 billion in 2013.

THE EVOLUTION TO RISK-BASED AVIATION SECURITY

Till very presently, the aviation security system undertakes that every single traveler at an airfield is a probable terrorist pending to be revealed otherwise. This attitude enables every traveler to obtain same measures of screening while transitioning over security spot checks which consequences in postponements which has grown into the certainty of air travel now. Growth in acceptance of risk grounded aviation security actions can be grasped in recent years, as well as the invention of reliable traveler programs. This scheme works on the principle that passengers are distributed into risk classifications, and classifying usual traveling public as low-risk resulting in less usage of time and screening measures on the airport.

A NEW APPROACH TO AVIATION SECURITY

Unparalleled challenges are faced by the aviation industry which results in deprived amenability with global criterions, adjusting fluctuations and implementation of stricter security actions. Perceptions of airport has been affected by the risks prompting the method leading managers and boards make resolutions of investment significantly. Extension of fresh paths into evolving markets, the revitalization of prevailing airports or the growth of new-build airfields are also included. Furthermore, these can also affect the investment in modernization and operation of new digital equipment. Preservation of great protection and security principles across worldwide aviation processes and safeguard of acquiescence is related with the encounters which offers the growth by the capability to recognize and cope emerging threats and enhancement of efficiency of airport facilities through the usage of new technologies.

EMERGING THREATS

The hazards which are faced by flying business is in a role of constant evolution by the means of refined and complex physical outbreaks against aviation structure. Illegitimate actions and attacks, pressures to civil flight territory, and cyber-attacks for the disturbance of significant procedures like airplane regulator system, route-finding aids, and administration system are allowed by insiders and the use of compulsion. It has become a challenge to flying safety to classify and comprehend these intimidations which affects the embattled aircraft and make disastrous supply chain with extensive reaching, lengthy reputational and monetary repercussions.

It is often noticed that airport workers count on government authorities for the initial warnings and recommendations. Unlawful intervention acts are controlled by the imminent plans which are received from state authorities. However, the prerequisite for airfield workers is being proactive in the examination of the safety setting in which processes are being performed is

more significant due to high request being positioned on the predetermined capitals of state intellect facilities and law implementation assistances.

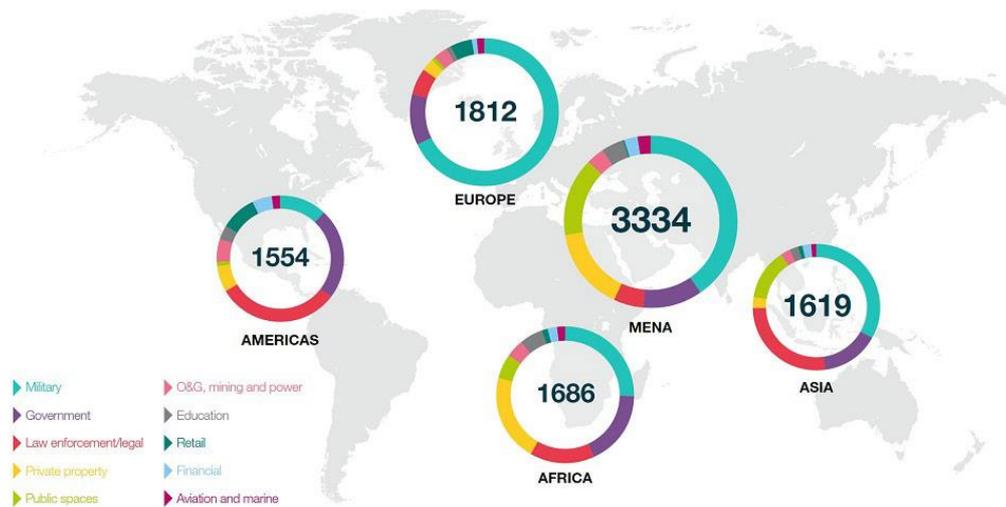


Figure 1 Global political violence and crime incidents by sector 2018

Establishment of instrument for the arrangement and verification of threat material, be it open resource, local systems or intermediary benefactors as a fraction of distinct threat managing process. Susceptibilities of processes should be assessable by this process. The required outline of a procedure should base on the competences and intent of recognition of threat actors and identification of risk facing operation subsequently. Conduction of analysis and assessment of every risk factor for interpretation of the actions and controls for the operation to decrease the risks to a satisfactory level.

Operational risk supervision is a continual process rather than being a onetime action. Current operation and judgments is studied by an efficient risk management at a calculated and active stage including the formation of new paths and stations. Cooperation and sharing of threat and risk statistics in a measured and synchronized method should be exhilarated for airlines which confirms protected and securer operations for everyone.

DEMAND FOR INFRASTRUCTURE AND INNOVATION

The increment in global air traveling and the demands it presents is being encountered by the world's airport with difficulty. The operational structure which was built according to the necessities of 1970-80s is not capable of managing requirements which are needed by airports nowadays. Additional strains including new terminal constructions, transportation relations, airstrips, airplanes drive zones, and the improvement of base service amenities are coped by consistent efforts. Construction of this additional ties are often completed inside the prevailing

perimeters of airport which results in complication of designs and number of added boundaries for airside and landsides. This factors is an additional argument for the task of safeguarding some of the hectic amenities in the realm.

GLOBAL STANDARDS

Difference in the efficiency of aviation safety can be observed at national and local level with aviation security planning being different at identification, analysis and application. Challenges are faced by the airlines moving across various routes with a different security measures including traveler and cargo inspection, the controller and entrance from landside to airside regions, safety constrained areas, and airplane and staff safety in a shift.

For the assurance of safety managing ICAO mechanize through the Chicago Convention's 192 associate countries through the application of SARPS: however, there is still a assistance essential for several countries, and airfield consultants and workers inside those countries for the enlargement and execution of operative flying security tactics. Factors including geo-political atmosphere, the budget, lawful and governing restraints and ethnic understandings around safety are existing. The 5 key priorities which are focused by ICAO's Global Aviation Security Plan (GASP) to support ICAO countries and investors for the improvement the efficacy of global flying safety.

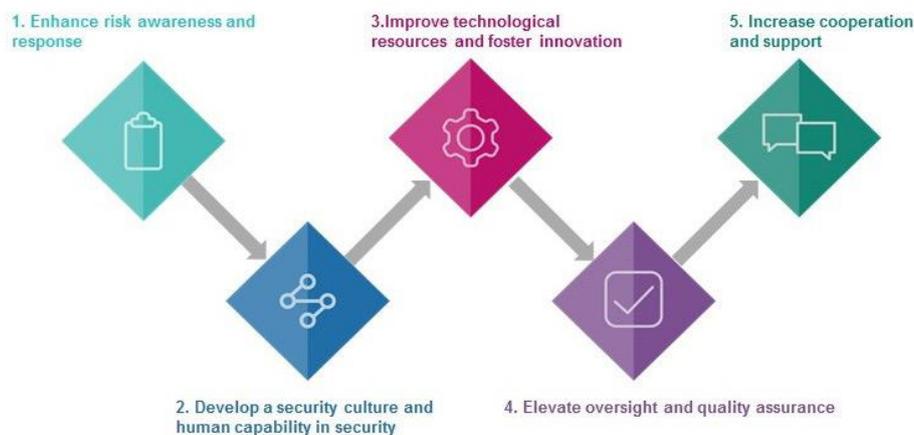


Figure 2 ICAO Global Aviation Security Plan priorities

Development of operative airfield safety plan is vital after the country describes and improves its state aviation security strategy. Risk based approach should be followed by security plan. Implementation of appropriately eligible and proficient workers, and that strengthens interior and exterior quality regulation and assertion programs are present to screen operation are guaranteed with suitable administrative arrangements, procedures, techniques and practices.

Daily based aviation operations and inclusion of contingency plan should be the part of the planning. . Emergency and crisis preparation should relate with business steadiness supervision and law execution and crisis provision response actions.

To deal with the contemporary and subsequent difficulties faced by aeronautical security, modern research improvements are required in both speculation and pragmatics. New possibilities consequently set the base for the field of operations research. Which has an essential function in giving latest systematic techniques and confirming these strategies to make sure that scarce resources are effectively allocated to improve security and limit the effect on our country's transportation system. To better accomplish this result, there is a need for a system of operations researchers to function with government and industry to give significant proposals to these large scale problems.

- To tackle the shortcomings in current facilities.
- To establish further capacities which are expected to improve the current procedure and approach. And;
- To make changes capabilities that will apparently change the aeronautics security world view.

Responsibilities of Emirates Group Security

Fraud prevention

One of the most important activities, needed to be performed by the management of an airline is fraud prevention because it is considered the most important operation in the management of airline security. In an investigation presented by Chang and Arami (2019), it is argued that in Emirates Airline, the management is always ensuring that fraud prevention activities should be performed by checking passenger tickets, brand loyalty programs, inflight duty-free sales and frequent flyer miles. However, the findings of Bose (2018) wrote that fraud prevention is also done by the management by ensuring that recovery of associated losses of the passengers is done in timely fashion so that losses and development measures are prevented. For this purpose, fraud prevention activities are carried out by the management of Emirates Airline, which assists travel agents against the fraud issues, and responds to their queries. According to an estimate, the management of Emirates Airline was able to recover the cost of AED 89 Million during 2007-2008.

The fraud prevention teams in Emirates airline perform various operations during the fraudulent activities precautions. According to Bose (2018), and Redpath, O'Connell and Warnock-Smith (2017), the fraud prevention team prevent ticket frauds, frequent flyer frauds,

and credit card frauds. However, Sultan (2019) wrote that management of Emirates Airline is weak in responding to queries which are related to law enforcement agencies, regarding cargo and passengers. In addition, serious financial frauds were not performed by the management in 2014, because the management was following poor anti-security measures at that time period.

Airport Document Verification

The airport Document Verification team working in Emirates Airline is always looking to protect aviation industry from forgoing fraudulent activities and using documents from illegal means. In an investigation presented by Sultan (2019), it is argued that team working in this department is supported by highly professional personnel, who remain updated continuously according to latest regulations and rules. These professionals always work with motivation and dedication to ensure that people are well trained and updated continuously so that the latest rules and regulations can be followed. Supporting the argument, Sadik (2018) wrote that the performance of different organisations is depending on appropriate deployment of security initiatives, which can come down, especially when the management is seeking for following security professional initiatives. Due to the efforts of Emirates Group, the team of Emirates has received the gate check status by the UK, and many awards by the management of different airlines. Some of the responsibilities carried out by document verification team include:

- To prevent passport and visa fraud activities.
- To ensure that profiling and document check is done by the management.
- To reduce inadmissible handling.
- Deportee personnel handling
- Provide training within specialised documents for airline and airport staff.

Cargo and aircraft protection

The cargo and aircraft protection team is responsible for many operations, which are related to aircraft protection and responsibilities. In an investigation presented by Wafik, Abou-Shouk and Hewedi (2017), it is argued that airlines management as performed by the Emirates Airline is comprehensive, and the management has many operations in place. If the performance of airlines is checked, it can be said that Aircraft's ground surveillance, board check baggage monitoring, escorting, and selected passenger handling is done regularly. However, the findings of Zhang (2016) and Klophaus (2016) showed that the management of Emirates Airline is weak in facilitating control access, limiting the access to unauthorized people, and controlling the activities and movements of staff members. Due to this reason, it is believed

that the management of Emirates Airline is weak in understanding the role of different departments, especially when it comes to managing the workload of the security teammates. Some other responsibilities undertaken by the management of Emirates Airline is handling cargo operations for security purpose, by screening and forwarding AOG spares, and controlling the activities of different mishandling. In an investigation presented by Klopheus (2016), it is argued that the management of Emirates Airline is always willing to introduce new perspectives in the understanding of security requirements, and because of that reason, it is believed that physical checking, and waiving the cooling period of EK Cargo is urgently done. In addition, the team is also responsible for maintaining Dubai Duty Free Shops, on the apprehending shoplifters and concourse.

Cabin security checks

They have been doing cabin security checks with boarding gate hand carry checks to their 3 major destinations with fully security-controlled flight's i.e. USA since 26th October 2017, UK since 21st March 2017, Australia since 6th April 2017 but from 2019 they have started doing cabin security search with access control into the aircraft of all their flights departing from Dubai and random boarding gate hand carry check for destinations in China too. The security that has been given the access control for the flight will reach the location 3hrs before scheduled time of departure and check all the possible threats around the aircraft and will be in his post controlling the access into and out of the aircraft while other departments finish their job and 85 minutes before departure a team of 5 members comes in which 4 will conduct the cabin security search and 1 will be supporting the access control guy on other entrance. Once cabin security search is completed, they will be waiting for the departure crew member and handover the aircraft to them and once it is completed, they leave the control of aircraft in the hand of crew except for flights that are departing directly to the United States of America cause those flights are fully in control of security. In those flights, the security personal on the access stays until the aircraft is pushed towards the runway.

Conceptual framework and hypotheses

After looking at the literature review above, this section covers conceptual framework and hypotheses being tested:

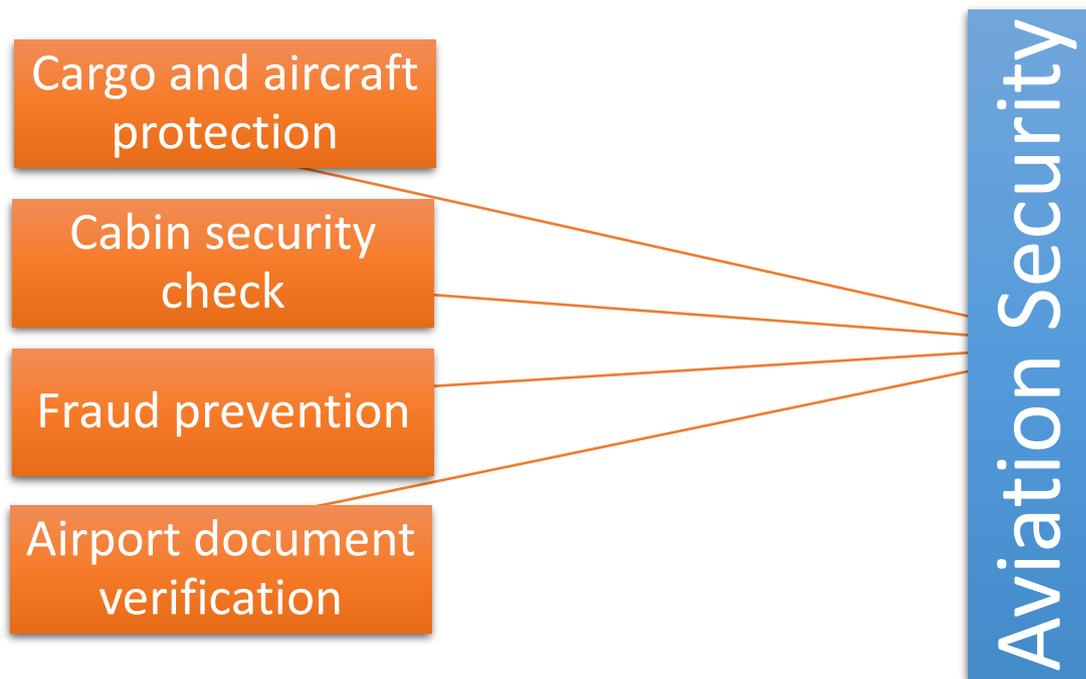


Figure 3 Conceptual framework

H1 – Cargo and aircraft protection are positively influencing aviation security platform in Emirates airline.

H2 – Cabin security check is positively influencing aviation security platform in Emirates airline.

H3 – Fraud prevention is positively influencing aviation security platform in Emirates airline.

H4 – Airport document verification is positively influencing aviation security platform in Emirates airline.

Proposed methodology

This section of the thesis explains the methodology selected for the investigation and the sample size.

General outline

This investigation carried out quantitative investigation with the employees of Emirates Airline. The data collection tool used by the investigators was making use of Likert scale questionnaire based on 5-point analysis. The questionnaire was distributed online to 100 employees of different employees working in Emirates Airline. The consent form was obtained by following the recommendations of Humphries (2017).

Primary Data

The primary data was collected by making use of Likert scale questionnaire, and dividing the dependent and independent variables in the investigation. The hypotheses were tested, by looking at the regression and correlation values. This assisted in understanding the relationship between the IV and DV so that the relationship between them can be tested. According to Fletcher (2017), the management of different airlines needs to ensure that there exist a lot of opportunities for improving security of airline and ultimately build on positive customer revenues.

Survey instruments

The survey instruments were utilizing 5-point Likert scale questionnaire and ensuring that there is a critical role of understanding various security factors contributing to airline security.

Data analyses

The data is analysed on the SPSS by application of regression and correlation analysis. Reason to select this analysis is to find out the reason behind the development of security platforms in the airline. For this reason, the method of regression and correlation is the most beneficial to understand the relationship and impact.

Purpose of study

The purpose of this investigation is to assess aviation Security and Flight Security operation in Emirates Airline (CAPU) along with its affectivity. In addition, the relationship between the variables highlighted in the conceptual framework is also assessed.

Results

The results section here is divided into different sections, and headings and subheadings. The purpose of this section is to critically evaluate the relationship between the operations measures undertaken by the management of Emirates Airline to elevate security operations and ultimately improve the performance of the airline.

Results to 1st hypothesis

The first hypothesis investigated from the respondents depicted following results:

Table 5.1 Regression of the first hypothesis

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate

1	.899 ^a	.808	.806	.505
---	-------------------	------	------	------

a. Predictors: (Constant), Cargo and aircraft protection

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	105.208	1	105.208	412.721	.000 ^b
	Residual	24.982	100	.255		
	Total	130.190	100			

a. Dependent Variable: Aviation security

b. Predictors: (Constant), Cargo and aircraft protection

Coefficients

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.236	.097		2.441	.016
	Aviation security	.858	.042	.899	20.316	.000

a. Dependent Variable: Aviation security

The results above show that the performance of the Emirates airline can improve if the management of Emirates airline keeps focussing on Cargo and aircraft protection. The value of R-square is obtained to be 0.899, highlighting the fact that Cargo and aircraft protection is lifting the aviation security platform of this airline. In addition, the value of significance is also less than 0.05, highlighting that the performance of this organisation is improving due to focus on Cargo and aircraft protection.

Results to 2nd hypothesis

The results of 2nd hypothesis can be observed in the table below:

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.895 ^a	.801	.799	.504

a. Predictors: (Constant), Cabin security check

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	100.136	1	100.136	394.686	.000 ^b
	Residual	24.864	100	.254		
	Total	125.000	100			

a. Dependent Variable: Aviation security

b. Predictors: (Constant), Cabin security check

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.245	.097		2.520	.013
	Aviation security	.853	.043	.895	19.867	.000

a. Dependent Variable: Aviation security

The second hypothesis was related to the assessment of how cabin security check is influencing aviation security platform in the Emirates Airline. The value of R-square is observed to be of 0.801, showing that aviation security is forcing various benefits for the management of Emirates Airline, which include the assessment of cabin security check. The employees investigated in this study showed satisfaction with cabin security check of the staff members and argued that it is according to the demands of the current airline standards. In addition, the value of variables shows that it is less than 0.00, hence the hypothesis should be accepted. Due to this reason, it can be argued that the performance of Emirates airline is positive, because it is according to the airline security standards, as per the security standards followed in the UK.

Results to 3rd hypothesis

The 3rd hypothesis results can be observed below:

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.896 ^a	.803	.801	.502

a. Predictors: (Constant), Fraud prevention

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	100.341	1	100.341	398.781	.000 ^b
	Residual	24.659	100	.252		
	Total	125.000	100			

a. Dependent Variable: Aviation security

b. Predictors: (Constant), Fraud prevention

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.288	.095		3.035	.003
	Aviation security	.810	.041	.896	19.970	.000

a. Dependent Variable: Aviation security

The aim of this hypothesis was to assess the impact of fraud prevention activities on security platform of the Emirates airline. The value of R-square once again shows the satisfaction of the staff members who argued that fraud prevention activities carried out during the security check is done in the comprehensive form by respected security personnel. The value of R-square is 0.803 showing that aviation security of Emirates Airline is influencing the performance of the airline, and lifting the standards of security. In addition, the value of significance in the results show that it is less than 0.05 hence hypothesis should be accepted. Based on the results, it can be said that management of workers in security department is being done in an effective manner by the management.

Results of the fourth hypothesis

The fourth hypothesis investigated in this study depicted following results:

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.842 ^a	.832	.832	.432

a. Predictors: (Constant), Airport document verification

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
-------	--	----------------	----	-------------	---	------

1	Regression	99.81	1	99.81	374.541	.000 ^b
	Residual	23.55	100	.238		
	Total	119.000	100			

a. Dependent Variable: Aviation security

b. Predictors: (Constant), Airport document verification

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.144	.088		2.991	.001
	Aviation security	.755	.037	.782	18.151	.000

a. Dependent Variable: Aviation security

Airport document verification is considered as one of the most important parameters in the development of security environment in the workplace because it allows the management to elevate the motivation level of the workers. In the investigation, it can be seen that value of R-square is 0.832 highlighting the fact that aviation security in Emirates Airline has improved by 83.2% due to focus on this parameter of aviation security. In addition, the performance of different airlines is depending on elevating aviation security platform, due to which the value of significance value is also less than 0.05. The respondents of this investigation said that airport documentation process in Emirates Airline is transparent, and supported by all the workers.

Summary of hypotheses

The results summary of hypotheses can be observed in the table below:

Table 2 Summary of hypotheses

Hypotheses	Accepted or rejected
H1 – Cargo and aircraft protection are positively influencing aviation security platform in Emirates airline.	Accepted
H2 – Cabin security check is positively influencing aviation security platform in Emirates airline.	Accepted
H3 – Fraud prevention is positively influencing aviation security platform in Emirates airline.	Accepted

H4 – Airport document verification is positively influencing aviation security platform in Emirates airline.	Accepted
--	----------

The results above show that all the hypotheses have been accepted and because of that reason, it can be said that the performance of Emirates Airline in terms of ensuring secure airline operations is comprehensive, and producing the desired results for the management. The value of different parameters and variables show that performance of Emirates Airline is depending on the elevation of secure platform, which can produce desired results in a short time period.

Conclusion

The aim of this investigation was to find out the role of different parameters which are kept in consideration by the management for enhancement of security in operations of the airline. The methodology selected for investigation was quantitative and four of the most important parameters contributing to the development of security platform in Emirates Group were investigated by performing regression and correlation analysis. The performance of this airline was tested by looking into the benefits of airline security management model and testing the reviews given by the employees on security actions followed in this airline. A total of 100 employees of Emirates airline were investigated in this study, and their responses were analysed on Likert scale questionnaire.

The aim of this thesis was to check how the performance of the Emirates Airline can be improved in the short time period. For this reason, the performance of Emirates Airline can be improved, if they start focusing on the development of new platforms for managing the operations and lifting the security platform. After critical evaluation of the questionnaire, and collecting the responses, it has been observed that management of this airline would be able to lift security platform furthermore, it starts focusing on the development of new body for handling inflight operations also. Overall, it can be concluded that the management of Emirates Airline is focusing heavily on security platform, and this allows the management to focus on the development of new measures to perform activities and lift performance parameters.

References

- Allison, S., & Danap, J. (2017). Bridging the Red Sea: How to Build an Africa–GCC Partnership. *Emergence*, 2, 9-10.
- Alshubaily, A. (2017). Exploring the key success factors for young airlines. A focus on emirates airlines and its regional competitors' strategy for success. *Saudi Journal of Business and Management Studies*, 2(1), 30-37.
- Bose, I. (2018). The Strategic Environment of the Aviation Industry in UAE: A Case Study on Etihad Airways. *IJUM Journal of Case Studies in Management*, 9(1), 21-27.
- Braillon, A., Bewley, S., & Ross, N. (2018). The Health Care System Flies in the Face of Airline Security Concepts. *JAMA internal medicine*, 178(8), 1142-1143.
- Chang, V., Ji, Z., & Arami, M. (2019, May). Privacy and ethical issues of big data in the airline industry. In *4th International Conference on Complexity, Future Information Systems and Risk* (pp. 139-148). SciTePress.
- Fletcher, A. J. (2017). Applying critical realism in qualitative research: methodology meets method. *International journal of social research methodology*, 20(2), 181-194.
- Humphries, B. (2017). *Re-thinking social research: anti-discriminatory approaches in research methodology*. Routledge.
- Klophaus, R. (2016). Fifth freedom airline network expansion: the case of Emirates flying between Germany and the USA. *International Journal of Aviation Management*, 3(2/3), 125-135.
- Kumar, R. (2019). *Research methodology: A step-by-step guide for beginners*. Sage Publications Limited.
- Ledford, J. R., & Gast, D. L. (2018). *Single case research methodology: Applications in special education and behavioral sciences*. Routledge.
- Mansour, A. M. (2017). From Bureaucracy to New Public Management: The Case Of The United Arab Emirates Federal Government. *International Public Management Review*, 18(1), 116-134.
- Mantur, N. (2016). *The Emirates: Airline Company or a global lifestyle brand?* (Doctoral dissertation).
- Mantur, N. (2016). *The Emirates: Airline Company or a global lifestyle brand?* (Doctoral dissertation).
- Mumtaz, S. H. (2017). *Analysis of Mental Health Issues and its Implications On Cabin Crew at Emirates Airlines* (Doctoral dissertation, Middle Tennessee State University).

- Nenem, S., Graham, A., & Dennis, N. (2020). Airline schedule and network competitiveness: A consumer-centric approach for business travel. *Annals of Tourism Research*, 80, 102822.
- Redpath, N., O'Connell, J. F., & Warnock-Smith, D. (2017). The strategic impact of airline group diversification: The cases of Emirates and Lufthansa. *Journal of Air Transport Management*, 64, 121-138.
- SADIK, R. M. (2018). Implementation of Total Quality Management in Airline (Case Study Emirates Airline). *International Journal*, 7(5).
- Samarūtel, S., Matulevičius, R., Norta, A., & Nõukas, R. (2016, November). Securing airline- turnaround processes using security risk-oriented patterns. In *IFIP Working Conference on The Practice of Enterprise Modeling* (pp. 209-224). Springer, Cham.
- Sultan, A. D. (2019). Impact of Capital Structure on Business Performance: A case of Emirates Airline. *Amazonia Investiga*, 8(21), 62-72.
- Sundarakani, B., Abdul Razzak, H., & Manikandan, S. (2018). Creating a competitive advantage in the global flight catering supply chain: a case study using SCOR model. *International Journal of Logistics Research and Applications*, 21(5), 481-501.
- Wafik, G. M., Abou-Shouk, M. A., & Hewedi, M. M. (2017). Airline Passenger Travel Cycle, Satisfaction and Loyalty: A Comparison of EgyptAir and Emirates Airlines. *International Journal of Hospitality and Tourism Systems*, 10(1), 1.
- Wall, R., & Tangel, A. (2018). Facing a Critical Pilot Shortage, Airlines Scramble to Hire New Pilots. *The Wall Street Journal*.
- ZHANG, Y. W. (2016). A Strategic Analysis of Emirates Airline. *DEStech Transactions on Social Science, Education and Human Science*, (icaem).

Appendix

Questionnaire

Variable	Statement	Options
Cargo and aircraft protection	The cargo and aircraft operation in the aircraft operations are carried out regularly.	1 = strongly agree 2 = agree 3 = neutral 4 = disagree 5 = strong disagree
	The Emirates airline received awards for focusing on Cargo and aircraft protection in security check.	1 = strongly agree 2 = agree 3 = neutral 4 = disagree 5 = strong disagree
	Emirates Airline is well known for focusing on Cargo and aircraft protection in security check.	1 = strongly agree 2 = agree 3 = neutral 4 = disagree 5 = strong disagree
Cabin security check	The cabin security check by the management is carried out regularly.	1 = strongly agree 2 = agree 3 = neutral 4 = disagree 5 = strong disagree

	The Cabin security check allowed the management of Emirates Ariline to receive numerous awards.	1 = strongly agree 2 = agree 3 = neutral 4 = disagree 5 = strong disagree
	Emirates Airline is well-known for focusing on Cabin security check in the airline industry.	1 = strongly agree 2 = agree 3 = neutral 4 = disagree 5 = strong disagree
Fraud prevention	Fraud prevention activities are carried out immediately by the management of Emirates Airline.	1 = strongly agree 2 = agree 3 = neutral 4 = disagree 5 = strong disagree
	Fraud prevention activities are given high importance by security department of Emirates Airline.	1 = strongly agree 2 = agree 3 = neutral 4 = disagree 5 = strong disagree
	Fraud prevention is considered necessary for the airline to improve efficiency and affectivity in security check.	1 = strongly agree 2 = agree 3 = neutral 4 = disagree 5 = strong disagree
Airport document verification	Airport document verification is considered necessary for the airlines when focusing on the management aspects.	1 = strongly agree 2 = agree 3 = neutral 4 = disagree 5 = strong disagree
	Airport document check helps management to reduce	1 = strongly agree 2 = agree 3 = neutral

	illegal activities during and after airline operations.	4 = disagree 5 = strong disagree
	Airport document check is one of the most necessary aspects when security check is needed to be improved.	1 = strongly agree 2 = agree 3 = neutral 4 = disagree 5 = strong disagree