الهيئة العامة للطيران المدني
GENERAL CIVIL AVIATION AUTHORITY

United Arab Emirates

ATM Data and Cyber Security Portal (ADCS)

MSG/6, Cairo, Egypt 3-5 Dec 2018

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- ADCS Portal
- ADCS Portal Enhancements
- Conclusion

Introduction

With the continuous evolution of ATM systems and the interconnectivity enhancements throughout the region it is essential to ensure that adequate cyber security measures are in place.

As per the Annex 17, Doc 4444 and as per MIDANPIRG 16/26 decision the ATM Data and Security Action Group (ADSAG) was established with the UAE taking the lead for the Mid region to develop, in co-ordination with the other states, a security baseline for the various systems in use.

As part of this security initiative 7 Minimum Security Baseline (MSB) documents were created which cover the various technologies and systems in use within our industry.

Introduction

These documents were presented in WP 12 at this year's CNS SG/8 and are currently under review by the members of the ADSAG.

The MSB's will then be presented at the MIDANPIRG 17 for review and endorsement.

As a further enhancement to the MSB's an online portal, known as the ATM Data and Cyber Security Portal, has been developed by the UAE to allow ANSP's and other stakeholders to report cyber events as well as share knowledge and information on cyber security incidents.

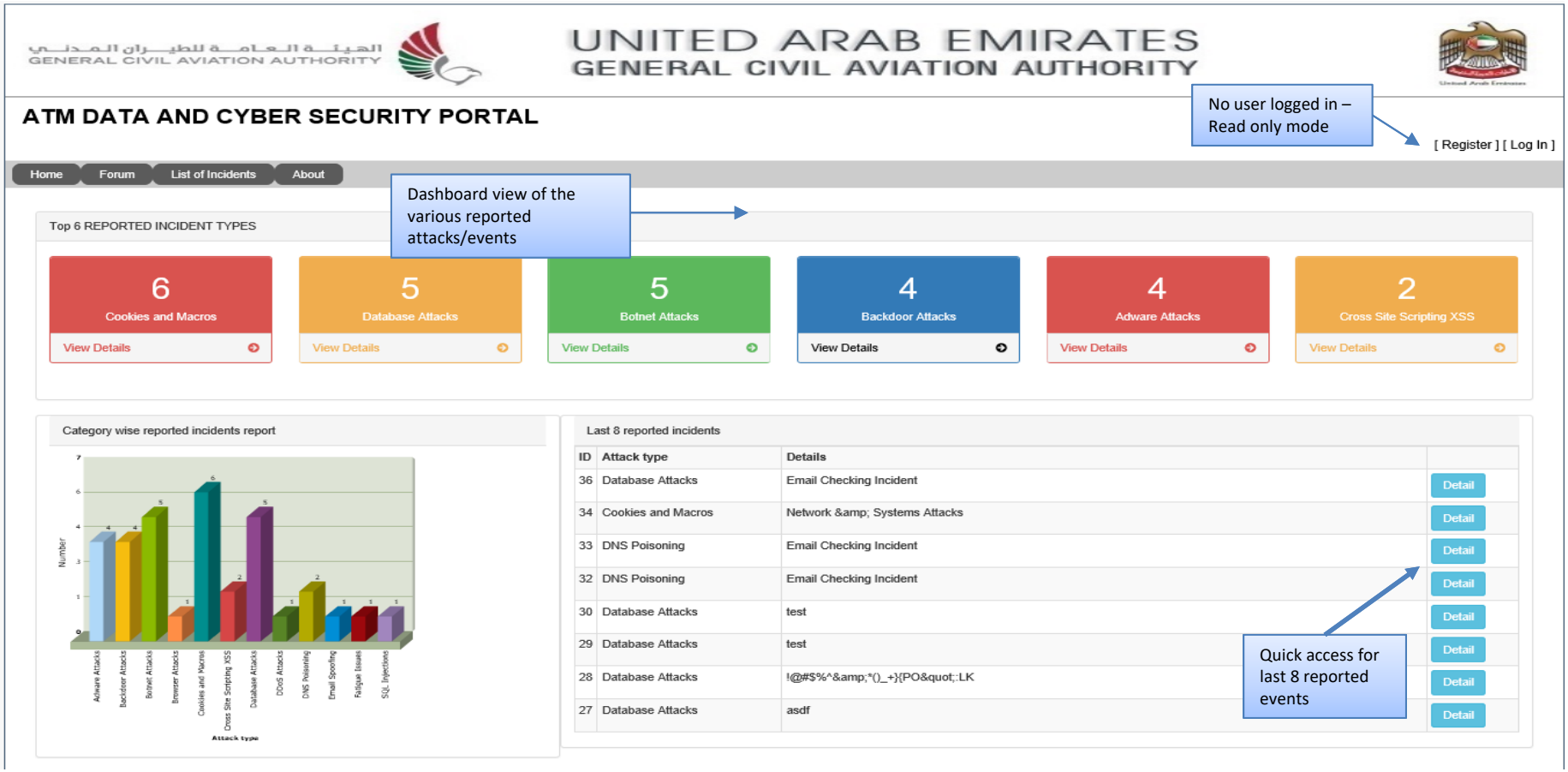
ATM Data & Cyber Security Portal

- This prototype portal is not intended to be a comprehensive solution for cyber security but rather a platform where cyber events can be logged, information related to cyber attacks shared and discussions held on various cyber topics on the forum.
- To ensure this is not abused by outside users, access will be restricted to approved ANSP/industry users only.
- Access will be requested via a template provided on the website and once approved, we will provide the user credentials to the respective applicant.
- Usage of the portal will be monitored to ensure user compliance and prevent misuse of the portal.
- This prototype portal will be undergoing testing and enhancements, based on feedback from users until Q1 2019.

ATM Data & Cyber Security Portal

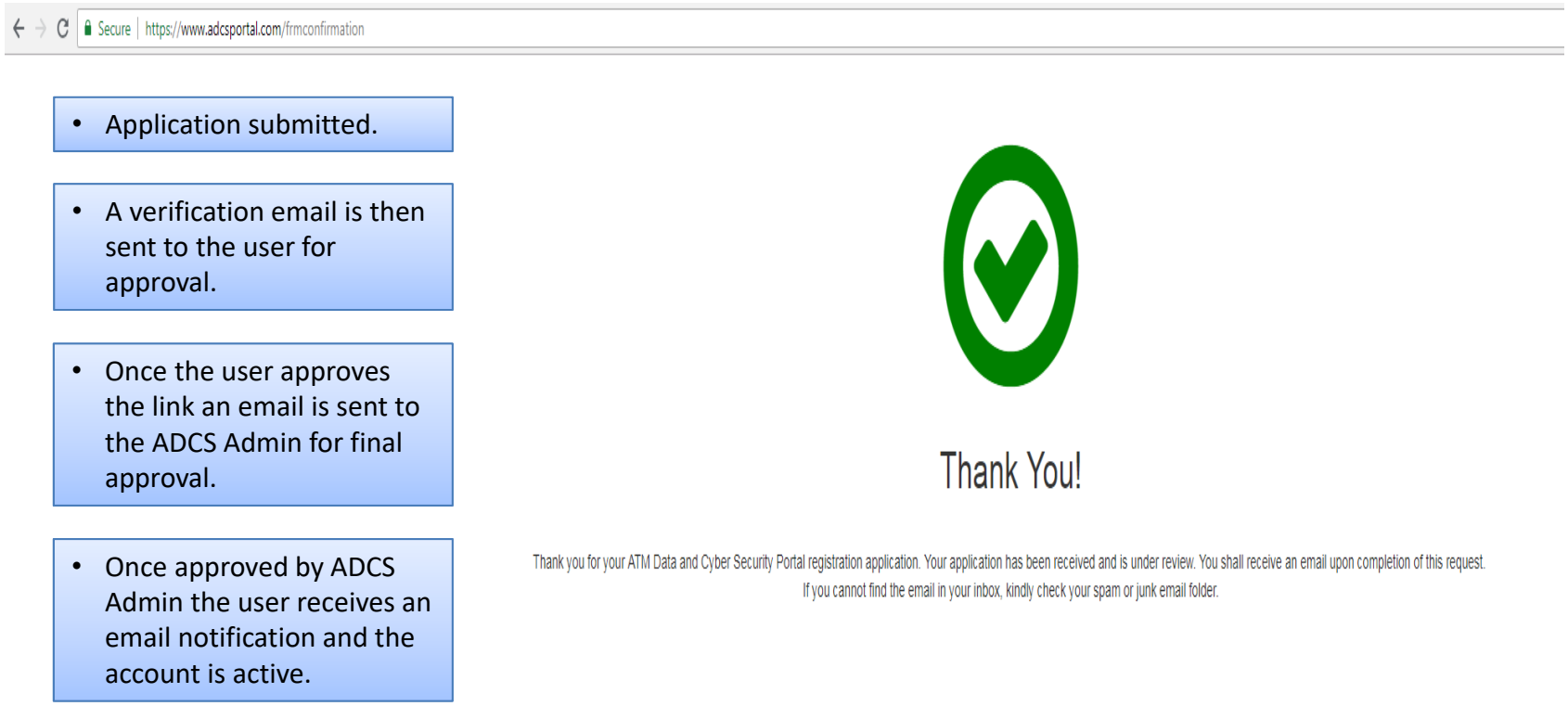
- This portal has been developed from scratch and is fully customizable.
- We will be hosting the site on a dedicated, secured server at SZC and access and site issues can be reported to the adcs@szc.gcaa.ae.
- The address for this portal is https://www.adcsportal.ae
- The planned implementation date for the portal will be will be in conjunction with MIDANPIRG 17 decision.

ADCS Portal – Home Page



ADCS Portal – Registration Page

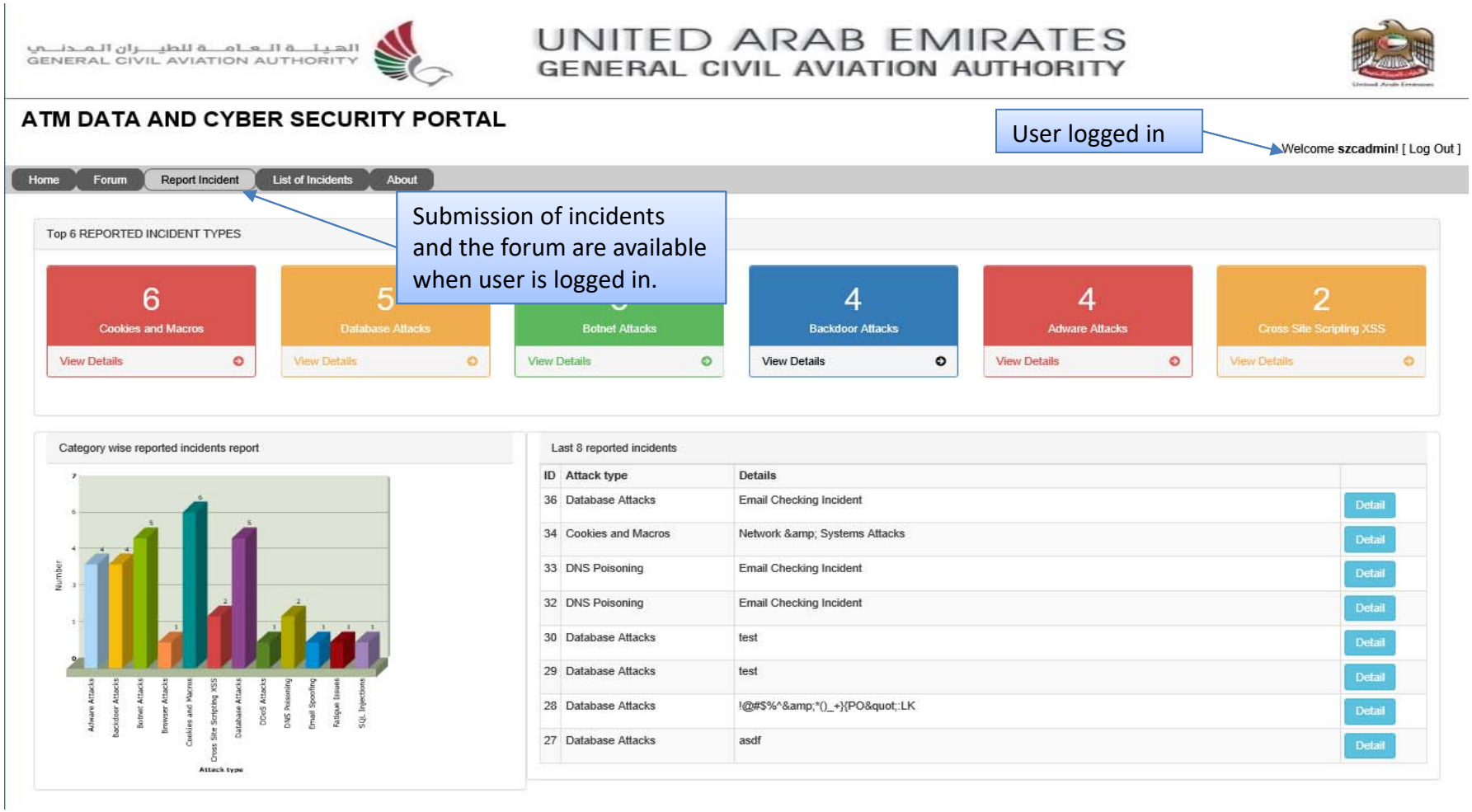
ADCS Portal – Registration Process



- Application submitted.
- A verification email is then sent to the user for approval.
- Once the user approves the link an email is sent to the ADCS Admin for final approval.
- Once approved by ADCS Admin the user receives an email notification and the account is active.

ADCS Portal – User Login

ADCS Portal – Home Page & User Login



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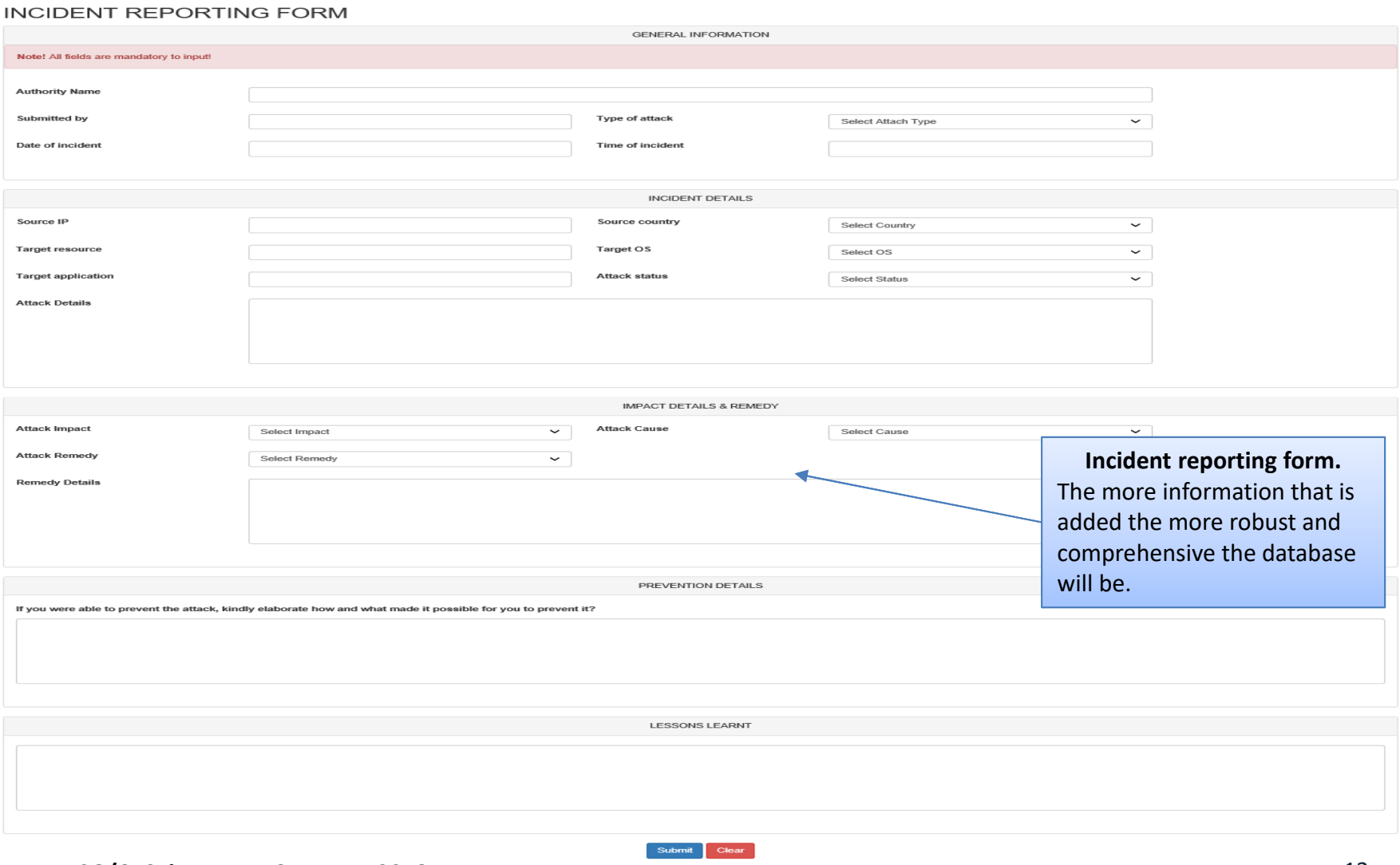
ADCS Portal – Submission of an Incident



Incident reporting form.
The more information that is added the more robust and comprehensive the database will be.

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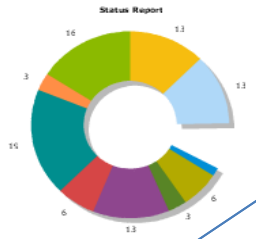
ADCS Portal – List of Incidents

Home | Forum | Report Incident | List of Incidents | About

- Categories
- View all Rported incidents
- Network & Systems Attacks
- Web & Application Attacks
- Database Injections
- Human Factors
- Spam and Phishing
- Useful links

SUB CATEGORIES WISE ALL REPORTED INCIDENTS

GENERAL INFORMATION



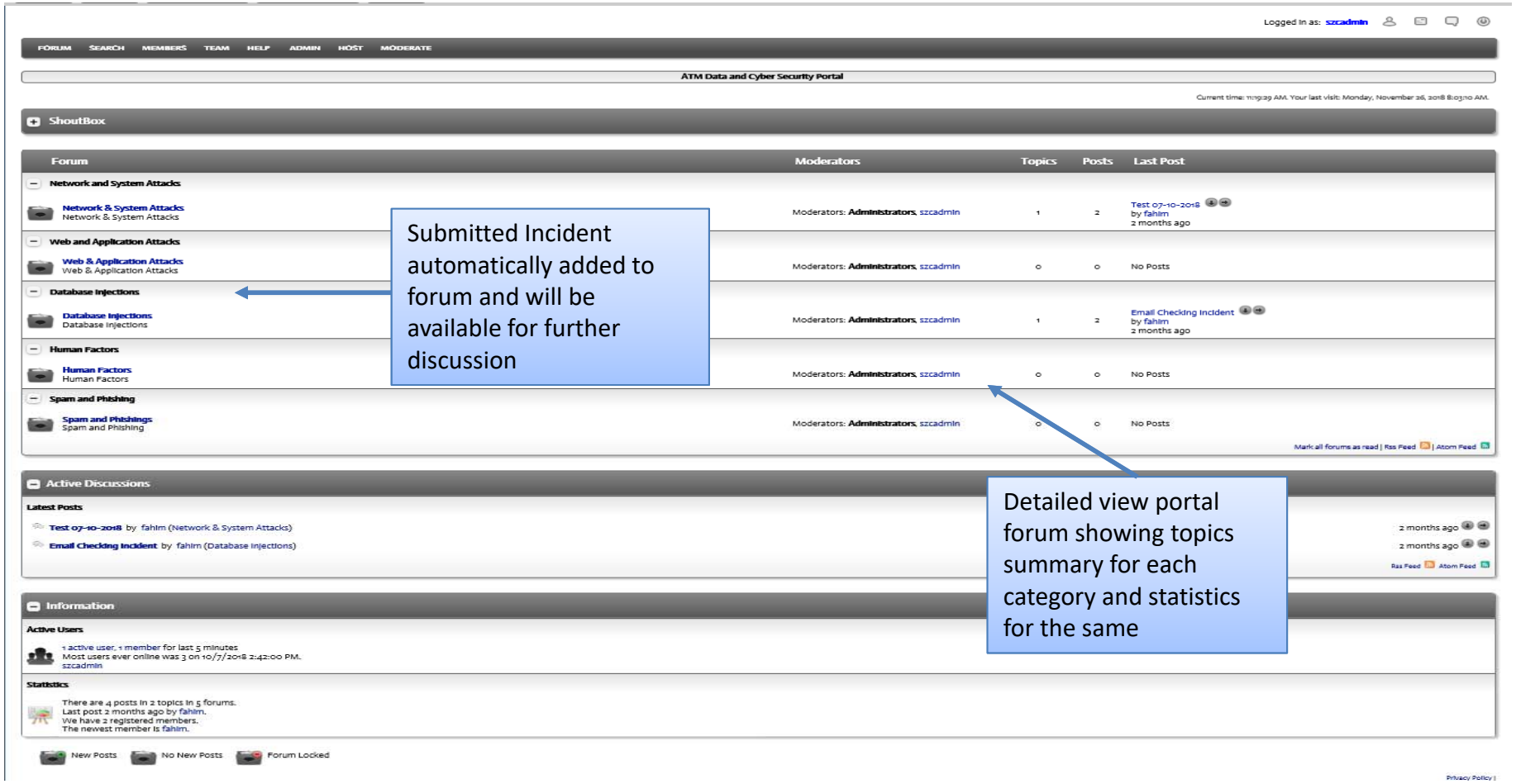
Incident List form.
List of Incidents

REPORTED INCIDENTS

ID	Authority Name	Incident date	Target resource	Attack status	Attack type	Detail
36	Email Checking Incident	31/10/2018	Email Checking Incident	Prevented	Database Attacks	Detail
34	Email Checking Incident	27/09/2018	Network & Systems Attacks	Impacted	Cookies and Macros	Detail
33	Email Checking Incident	29/09/2018	Email Checking Incident	Impacted	DNS Poisoning	Detail
32	Email Checking Incident	29/09/2018	Email Checking Incident	Impacted	DNS Poisoning	Detail
30	teset	18/09/2018	test	Prevented	Database Attacks	Detail
29	teset	25/07/2036	test	Impacted	Database Attacks	Detail
28	!@#$%^&*()_+}{PO":LK	30/11/2017	!@#$%^&*()_+}{PO":LK	Impacted	Database Attacks	Detail
27	teset	19/09/2018	1.1.1.2	Prevented	Database Attacks	Detail
26	GCA	05/09/2018	ABC	Impacted	Browser Attacks	Detail
25	Trigger the incident into forum	28/09/2018	Test Incident for Email Check	Impacted	Cookies and Macros	Detail

1234

ADCS Portal – Forum Dashboard



Submitted Incident automatically added to forum and will be available for further discussion

Detailed view portal forum showing topics summary for each category and statistics for the same

ADCS Portal – Incident Discussion Page

ADCS Portal – Post Comment

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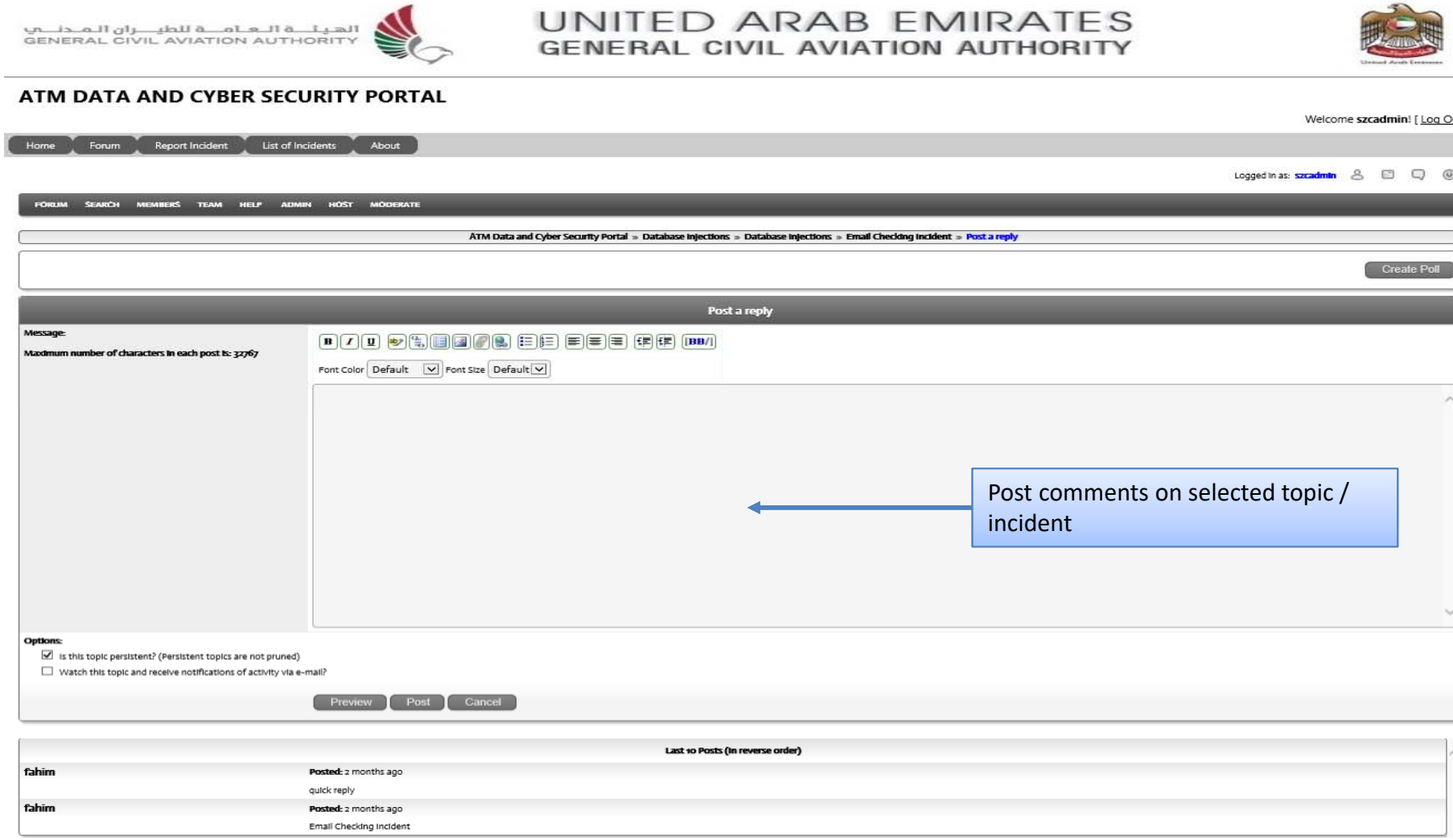

ADCS Portal Enhancements

- An updated and more comprehensive forum
- More robust backend configuration
- Updating of submitted tickets by the respective user.
- Other suggestions..

Conclusion

- The ADCS Portal is available online and states are urged to register and provide feedback on additional enhancements.
- The use of this portal is to share knowledge in conjunction with the MSB's and will ensure a far more robust and secure data connectivity within the region.
- There is no 100% secure cyber solution available however having the best possible processes and diligence in place will greatly improve our resilience to attacks and ensure safe air navigation services within the MID region.

SERVICE LEVELS AND STATISTICS: