



ATM Data and Cyber Security Portal

ATM SG/6, Hong Kong 30 Jul -3 Aug 2018

United Arab Emirates



Outline

- Introduction
- ATM Data & Cyber Security Portal
- 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 8168 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 an ADSAG group meeting was scheduled at the MID office from 24-26 June 2018, where after the documents will be finalised.

The MSB's will then be presented at the MIDANPIRG 17 for 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.com>
- The planned implementation date for the portal will be will be in conjunction with MIDANPIRG 17 decision.



ADCS Portal – Home Page

Home Page - ATM DATA x

Secure | https://www.adcsportal.com/Default

ATM DATA AND CYBER SECURITY PORTAL

Register Log in

No user logged in – Read only mode

Dashboard

Categories

Useful links

Search...

Dashboard view of the various reported attacks/events

Top 6 REPORTED INCIDENT TYPES

Incident Type	Count	View Details
Botnet Attacks	3	View Details
Backdoor Attacks	1	View Details
Adware Attacks	1	View Details
Email Spoofing	1	View Details
Fatigue Issues	1	View Details
SQL Injections	1	View Details

Category wise reported incidents report

Quick access for last 8 reported events

Last 8 reported incidents

ID	Attack type	Detail
8	Email Spoofing	Detail
7	Backdoor Attacks	Detail
6	Fatigue Issues	Detail
5	Botnet Attacks	Detail
4	Botnet Attacks	Detail
3	Adware Attacks	Detail
2	SQL Injections	Detail
1	Botnet Attacks	Detail



ADCS Portal – Registration Page

ATM DATA AND CYBER SECURITY PORTAL

Register Log in

Search...

Dashboard

Categories

- View all Rported incidents
- Network & Systems Attacks
- View all Network & Systems Attacks
- Botnets
- Malwares
- Ransomware
- Worms & Trojans
- DDoS
- Registry Attacks

Sign up form

Your Name

Enter Full Name

Your Email

Enter Email

Password

Enter Password

Comapny Name

Enter Company

Designation

Enter Designation

Country

Select Country

Register

All fields are mandatory and subject to verification.



ADCS Portal – Registration Process

← → ↻ Secure | <https://www.adcsportal.com/firmconfirmation>

- 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.



Thank You!

Thank you for your ATM Data and Cyber Security Portal registration application. Your application has been received and is under review. You shall receive an email upon completion of this request. If you cannot find the email in your inbox, kindly check your spam or junk email folder.



ADCS Portal – Home Page & User Login

User logged in –
Read/Write
mode

Home Page - ATM DATA x

Secure | https://www.adcsportal.com/Default

ATM DATA AND CYBER SECURITY PORTAL

Welcome! CNS Duty Engineer Log Out

الهيئة العامة للطيران المدني
GENERAL CIVIL AVIATION AUTHORITY

Search...

Dashboard

Categories

Useful links

Submit your incident

Forum Area

Submission of incidents and the forum are available when user is logged in.

Top 6 REPORTED INCIDENT TYPES

Incident Type	Count
Botnet Attacks	3
Backdoor Attacks	1
Adware Attacks	1
Email Spoofing	1
Fatigue Issues	1
SQL Injections	1

Category wise reported incidents report

Attack type	Number
Adware Attacks	1
Backdoor Attacks	1
Botnet Attacks	3
Email Spoofing	1
Fatigue Issues	1
SQL Injections	1

Last 8 reported incidents

ID	Attack type	Detail
8	Email Spoofing	Detail
7	Backdoor Attacks	Detail
6	Fatigue Issues	Detail
5	Botnet Attacks	Detail
4	Botnet Attacks	Detail
3	Adware Attacks	Detail
2	SQL Injections	Detail
1	Botnet Attacks	Detail



ADCS Portal – Submission of an Incident

ATM DATA AND CYBER SECURITY PORTAL

Incident reporting form.

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

INCIDENT REPORTING FORM

GENERAL INFORMATION

Authority Name:

Submitted by: Type of attack:

Date of incident: Time of incident:

INCIDENT DETAILS

Source IP: Source country:

Target resource: Target OS:

Target application: Attack status:

Attack Details:

IMPACT DETAILS & REMEDY

Attack Impact: Attack Cause:

Attack Remedy:

Remedy Details:

PREVENTION DETAILS

If you were able to prevent the attack, kindly elaborate how and what made it possible for you to prevent it?

LESSONS LEARNED



ADCS Portal – Forum Page

ATM DATA AND CYBER SECURITY PORTAL

Welcome! CNS Duty Engineer Log Out

الهيئة العامة للطيران المدني
GENERAL CIVIL AVIATION AUTHORITY

Search...

[Dashboard](#)

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Forum Post submission page

Sub your post

Post form

Title

Message

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ADCS Portal – Forum Post example

ATM DATA AND CYBER SECURITY PORTAL

Welcome! CNS Duty Engineer Log Out

الهيئة العامة للطيران المدني
General Civil Aviation Authority

Search...

Dashboard

Categories

Useful links

Submit your incident

Forum Area

Forum discussion board

Post created by user

Comments posted by various users

Post Comments

Post form

Title Ransomware attack

Message

Hi all. Just a notification for all, we have received a suspicious email and web link from an a company called ANSPstarsolutions that supposedly provides ANSP software for ATFM solutions. Has anyone on the forum heard of this company and are they a legitimate company as I cannot get a lot of information online about them?

Comments

Post

CNS User

6/21/2018 9:23:43 AM

Yes we have received the same email and web link from this company. We went and did an MX record lookup on their domain and it is found to be a fake website. We suggest that you avoid opening any links and files received from them.

Shahzad

6/21/2018 10:17:04 AM

Hello, It is never advisable to open any link or attachment which you are not aware of even if it comes from apparently a legitimate company/website because phishing scams usually contain spoofed email addresses of legitimate companies as well which may lead to malicious websites. We would suggest to always redirect such emails to your IT/Security department for analyses and investigation purposes and never try opening them yourself. Speaking about this specific email you mentioned, we did a little bit of investigation and can confirm it a phishing scam email as the sender email address has raised the reverse DNS lookup, thereby making it fake/spoofed domain.

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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.



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.

