OFFICE AND INFORMATION SECURITY

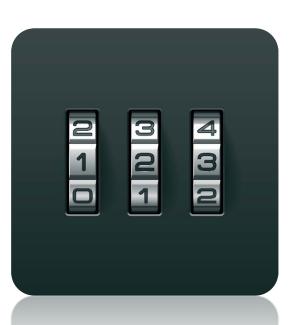
iNADO Workshop: 2016 Challenges and Opportunities in Anti-Doping





Agenda

- Background- the security project
- Methodology And Analysis
- The practical implementation
- Other security measures





Background

- From interest organization to authority
 - ADD has become subject to stricter regulatory requirements, including
 - Securing that the processing of data, documents and cases happens within the boundaries of the law, and are dealt
 with in a correct, proper, objective and factual manner → legal protection of individuals (Public Administration Act, the
 Privacy Act)
- In November 2013 we began a major review of the overall organizational as well as technical security of ADD, including:
 - Physical access, workflows, procedures as well as IT security, etc
 - Among other things to to ensure that ADD meet the requirements for safety, under the law applicable to public
 authorities' treatment of personal information.
- The Security project was initiated in cooperation with security company LinkGRC
 - LinkGRC has extensive experience in ensuring organizational and technical security of public authorities and private organizations



Background

- From IT Security to Information Security one collective effort!
- The information security policy serves as an asset that must ensure a platform of integrity and confidentiality for ADD's work with the athletes' data by issuing guidelines for appropriate treatment and protection of athletes' data across ADD.
- Security is based on:
 - CONFIDENTIALITY
 - that only authorized people can access the information
 - INTEGRITY
 - that data is always reliable, ie complete, accurate and updated
 - AVAILABILITY
 - the possibility to access systems and data for authorized persons when needed



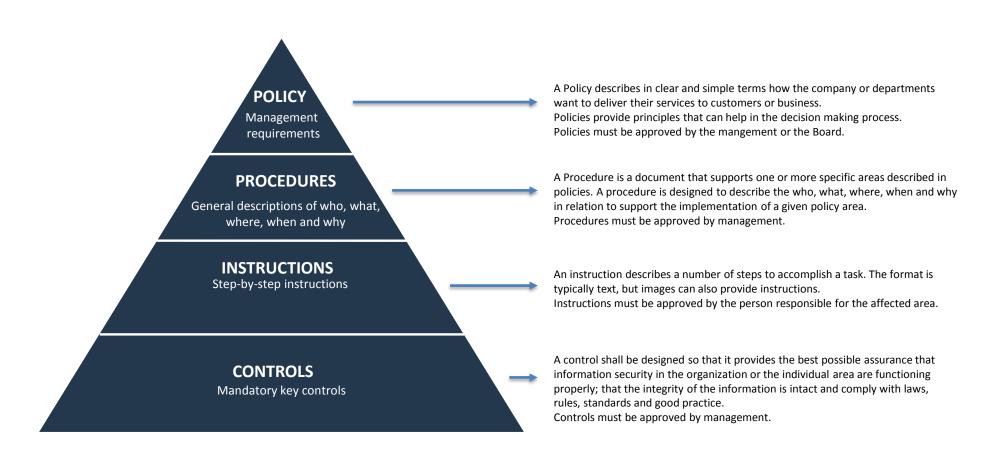
Security Objectives

- Based on ensuring athletes procedural and fundamental rights and to comply with applicable laws, the goal is:
- "To have an high information security level for all employees, users and partners as well as for the use of IT resources, such as IT systems, hardware and electronic media in ADD"





Governance framework





Cycle for Governance, Risk og Compliance





Governance framework

WHAT DO WE WANT?

Statutes for ADD

Procedures of the Board

Agreement with the Ministry of Culture and ADD Strategy for 2016-2018

WHAT DOES THE LAW SAY?

ISO27001/2:2013

The Privacy Act

National anti-doping rules

Anti-doping Regulations for fitness centers

Act on Promotion of integrity in sport

Order on the promotion of drug-free sport

Act on the promotion of drugfree sport Act amending the Act on the promotion of drug-free sport

Act amending the Act on the promotion of drug-free sport

Act to amend the Act on allocations ...

Act to amend the promotion of drug-free sport and the Tax
Assessment Act

Act prohibiting certain doping substances

Act to amend the Act prohibiting certain doping substances

Act to amend the the Penal Code

Act on distribution of profits from the lottery ...

HOW WE DO IT?

Policies

Procedures

Instructions / Guides

HOW DO WE ENSURE THAT WE DO THINGS PROPERLY?

Controls

Self assessment

Awareness



ANALYSIS

- Identification of all ADD's assets and business processes
- Risk assessment of information security
 - business systems, infrastructure, documents and data
- Reports
 - Summary of Information Assets, retention requirements and classification
 - Development of information security policy
 - Preparation of 17 procedures
 - Drafting of instructions and controls



ASSETS ANTI DOPING DANMARK



Business Systems

ABP

ADAMS

ADRQ (WADA)

AntiDoping APP

COE Questionnaire

CPRSøg

Renvinder.

Doping register

Filserver

ADDIN (Intranet)

Kontroldatabasen

Lessor Lønsystem

Maconomy

Office 2013

365

Sitecore CMS

SKAT. dk

Stopdoping Etik

Timestream

Infrastructure Systems

Applikations server

server

Software

Infrastructure components

Bærbare

Fax

Firewalls

IPADs

Mobil telefoner

Printere

Routere

Switch

Telefon

Telefon system

Documents

Advarsels

Aftaler

Ansøgninger og CV

Ansøgnings Skema TUE Bestyrelses møde materiale

Bestyrelses møde Fortroligt

Budgetter

Kendelse

Kvartals rapporter

Notater Følsomme

Overdrag elsesbrev

Protokoller Negative

Protokoller Positive

Regnskaber

Risici

Statistikker

Strategi

Årsplaner

Data

Bprøver

Biologiske data

CPRnr

Disciplinær straf

Kontaktdata Fortroligt

Kontaktdata Generelt

Løninforma tioner

Medicin

Regnskabs poster

atlets oiologiskpas

Test chain custody

est chain of custody positive

Test doping kontrol formular negativ Test doping kontrol formular positiv

Test mission orders negative

Test mission orders positive

Test resultater A

Test resultater negativ

Test resultater AAF

TUE godkendelse formular medicinske informationer

ift atlets biologiskpas



ADD's 17 Procedures

Access Control

Protection of Information Assets

Operation controls of service provider

Physical security

Incident management

Information Assets

Encryption

Service Level Agreement Logging and monitoring

Personnel security

Personal Information

Project, delivery and task management

Risk management

Managing IT security incidents

Vulnerability Scanning Development and testing

Change management

Independent IT operating environment

 Went from an "uncertain" common IT operating environment to a 100% independent and closed IT operating environment

That is:

- Our own SLA (service level agreement)
- Our own server environment, print server and printer, own AD (Active Directory), a private wired and wireless network, etc. in order to improve IT security as well as:
 - Improve monitoring/surveillance of access to ADD's information and data
 - Facilitate the process of setting up operating controls
 - Minimizing the risks of error when creating / disabling of users etc.



Service Level Agreement (SLA)

Power & Cooling

- Dedicated transformer
- Own emergency power system consisting of redundant uninterruptible power supply (UPS) and 400 KVA diesel generator
- Separate redundant cooling unit

Physical security

- Datacenter with the latest alarm technology (each employee has electronic-key and personal code)
- The whole building is monitored internally and externally via IP cameras with motion detectors
- Security Guard (dog patrol assigned 24 hours/day)

Fire protection

- The data center is equipped with inergen systems for fire-fighting (when a fire, the system will pump 220,000 liters of fire extinguishing agent (inergen) into the server room.
- The entire building has ABDL fire alarm (automatic fire door-close systems) with direct connection to Aarhus Fire Brigade

IT security

- Firewall (Cisco ASA 5500 Series Security Appliances)
- Antispam (using. Smartermail and Microsoft Exchange spam filters)
- Patching (continuous Windows update)
- Antivirus (MS Forefront security antivirus scanning system and MS Intune Endpoint Protection)



PHYSICAL SECURITY

- Mapping the current framework for physical access to ADD
- Developed instructions for physical access to ADD
- **Installed new entry system** (automatic door lock and intercom)
- Signed agreement with security vendor on the safe storage, collection and shredding of sensitive personal and other confidential information (Danish Security Shredding)
- Secure physical storing of particularly important and confidential documents
 - Installed two locked fireproof document cabinets, in two different locations













Access Control

We need to know what needs to be secured, how it should be secured and who is in charge of securing it.

- There has been established a base line for access control in ADD, which has resulted in a centrally located list of systems etc. that employees of ADD and partners use in their daily work.
- Furthermore, employees' existing entries, roles etc. in the systems, has been mapped.
 - Based on this, every employee has been assigned a file with their rights to the business systems they use
 - Access Roles (rights r / w)
 - Password policy





Operational controls

- There has been develop a detailed operational controls plan for our IT hosting partner as part of the SLA.
- The Operational Control plan includes monthly to annual checks that all operating requirements are met
- The plan specifies how the hosting partner must document the above mentioned.





Supplier Management

- Developed instructions to all data processors, to ensure that they:
 - Comply with the general rules on data security laid down in the Act on Processing of Personal Data (Privacy Act) §§ 41-42
 - Provide a statement of assurance annually or when major changes take place in the treatment of data, documenting the level of security is in place in accordance with Act on Processing of Personal Data
 - Delivers a workflow description which describes how the processor handles the data and who is authorized to do so at the processor
 - Processes personal data in accordance with best data processing practice etc. as stated in the Act on Processing of Personal Data §§ 5 -8
 - In addition, the Act on Processing of Personal Data provisions are generally applicable to all processing carried out by the signatory data processor



Personnel security

- All of the secretariat employees at ADD are in the process of being security approved by PET (Danish Security and Intelligence Service)
 - The first two are already approved
- All employees has signed a confidentiality agreement.
 - and is subject to the Criminal Code and security Circular





Encryption

- Enabled encryption to secure email communication for all employees working at ADD
 - All employees send and receive sensitive and confidential information encrypted
 - This in order to ensure data integrity and comply with the rules for handling this type of information.





AWARENESS

- Organizing awareness workshops with key players in the field of security
- Developed various materials:
 - "Information security for employees"
 - "System Ownership at ADD"
 - Poster with 10 tips on safe behavior







FORSVARETS EFTERRETNINGSTJENESTE





10 TIPS ON SAFE CONDUCT

- 1. Make a secure password
- 2. Your password is personal do not share it with others
- 3. Lock your PC when you leave your seat (Windows key + L)
- 4. Never store any data on the "desktop" Save in ECDM
- 5. Always send person sensitive and confidential information through secure mail
- 6. Do not open e-mails where there is uncertainty about the content (attachments, strange links, desire bank information, etc.).
- 7. Do not download programs directly from the Internet unless you fully trust the vendor
- 8. Always keep your PC updated (browser, Java, Adobe Acrobat Reader DC, etc.)
- 9. Always shred papers with sensitive or confidential information
- 10. Check that doors and windows are closed when you leave

Use your common sense and ask others for help if you are in doubt!



ECDM (Electronic Case and Document Management system)

- Safe and structured processing of the business information
- It is good governance:
 - To archive documents received or sent by an authority as part of administrative proceedings relating to its business, to the extent that the document is relevant to a case or proceedings in general.
 - Having version control
 - To log all actions

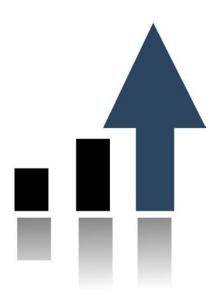




Why use an Electronic Case and Document Management system

Internal advantages:

- Increased efficiency
- Better service
- Lower costs
- Better control with data
- Reduced risk
- Enhanced security
- Knowledge sharing
- Less time wasted on searching information
- Improved quality
- Effective and skilled handling of public acces to documents
- Reliable partner to other government departments that have similar systems
- Honor athletes and partners (legitimate) expectations for safe handling of data, efficient use of resources, etc.





MOBILE SAFETY

Password

• 6-digit password on all mobile devices

Auto lock

The mobile device locks after a maximum of 30 sec's inactivity

Find my iPhone

- The app "Find my iPhone" shall be enabled
- This means that if the mobile device is lost or stolen it can be traced and all data can be deleted.

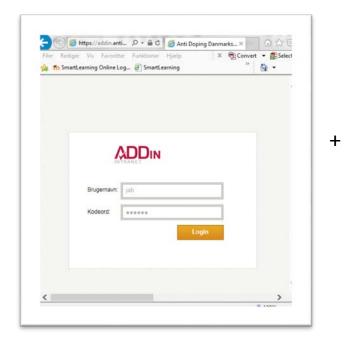






Login to the intranet (ADDin) and our Remote Desktop

- Multi-factor access
- HTTPS (SSL) encrypted site





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Whistleblower Communication Center

- Reporting is done through an encrypted and anonymous reporting form
 - All that is recorded is the actual intelligence. Neither the computers IP address or machine ID, will be logged. Cookies are not used or stored.
- You are also able to call anonymously to the Whistleblower hot line
 - This is an IP voicemail, where you can anonymously leave your information without having the phone number traced.





Positive and less positive

Positive:

- Control of data, data storage and data traffic
- Reduced risk of error or deliberate manipulation of data
- Reliable partner for other public authorities that have similar systems
- Possible / easier to engage in intelligence cooperates

Less positive:

- Increased operational costs both with respect to increased personnel as well as financial resources
- Increased level of complexity ie less "flexibility"
- Any operational benefits arising out of being on common network and server environment disappears.



New projects

- All employees shall be security approved by PET (Danish Security and Intelligence Service)
- Implement mobile exchange policy centrally controlled security on mobile
- Install video monitoring of access to ADD
- Focus on IT security incidents
- Look at vulnerability scanning
- Further awareness on safe conduct for employees







Where are we heading ;-)?





THANK YOU FOR YOUR ATTENTION!