



WELCOME

Success stories for Small & Medium  
Enterprises (SME) risk management and  
ISMS implementation

10 February 2021



# Some Housekeeping before we start

- Make sure you appear on MS Teams with the same First Name, Last Name used for registration to acquire CPEs.
- Presentation might be recorded, along with the slides it might be released by mail after the session
- Please mute your microphone and stop sharing your video camera as soon as you enter the session
- If you have any questions, please use the raise hand feature or type it in the chat box



Thanks for attending ISACA Square Tables

Next Square Table Webinar: February 17, 2021

Different Time: 18:00 – 19:00h

Oh! My supplier did not deliver...  
How to build resiliency in supply chain  
Speaker: Sunil Bakshi

# Agenda

- About the speakers
- SME in the Netherlands
- ISMS example 1 (Atlassian)
- ISMS example 2 (Office 365)



# Gilbert van Zeijl

- Certified Security and Privacy Officer
- > 25 years IT experience
- > 20 years Health care experience
- Information quality and security
- Privacy
- IT Risk management
- IT auditor
- Software & SAAS companies
- Health Care & Cure
- Small Medium Enterprises



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# Nico van Rooyen

- Certified Information Security Manager
- Certified Information Systems Auditor
- Certified Ethical Hacker
- > 8 years Privacy and security experience
- Regulation Compliance
- IT auditor
- ISO 27001
- Online gambling
- E-Commerce
- Small Medium Enterprises



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# Small Medium Enterprises in the Netherlands



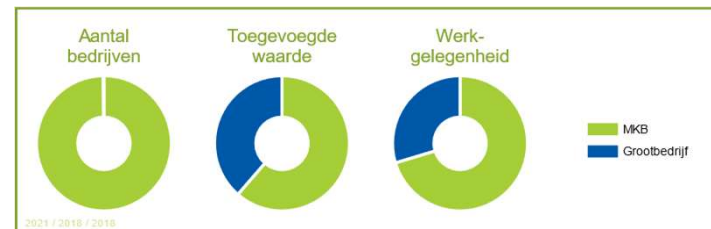
70% Dutch employed persons



€1027 Bilion yearly revenue



1.92 Milion SME companies



60% added value



# Company size, The Netherlands

werkzame personen, begin vierde kwartaal 2015



Source: De Staat van het MKB 2015; CBS



# SME definition

## MKB in beeld

Het midden- en kleinbedrijf bestaat uit ondernemingen met maximaal **250 werknemers**. Van alle Nederlandse bedrijven valt **96% in deze categorie**.



**MICRO  
ONDERNEMING**  
< 10 werknemers  
omzet van  
€ 700K



**KLEINE  
ONDERNEMING**  
< 50 werknemers,  
omzet van  
€ 12 miljoen



**MIDDELGROTE  
ONDERNEMING**  
< 250 werknemers  
omzet van  
€ 40 miljoen

Micro: < 10 employees  
< €700 k

Small: < 50 employees  
< €12 M

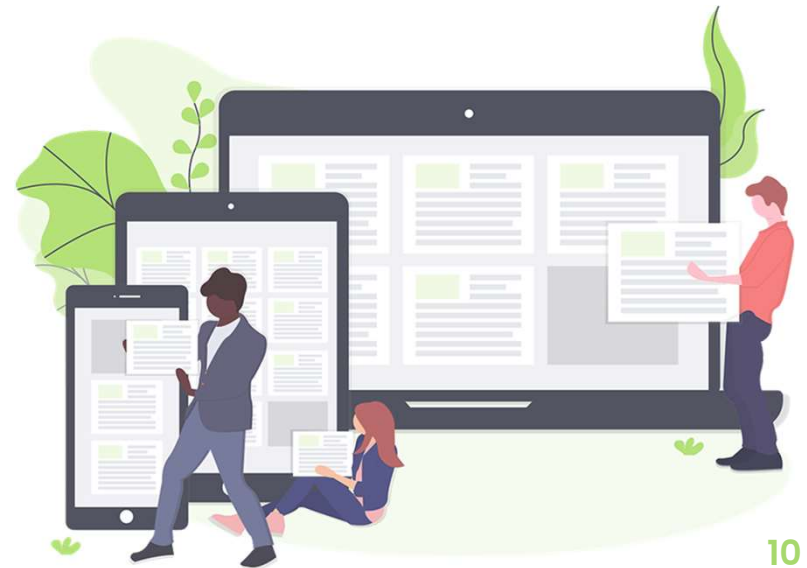
Medium: < 250 employees  
< €40 M



Source: MKB in beeld ([MKB servicedesk.nl](https://mkb.servicedesk.nl))

# ISMS example 1

- Using Atlassian



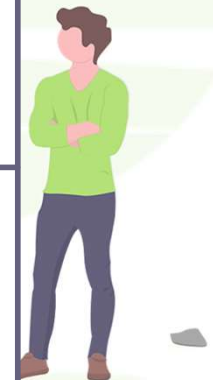
# ISO High Level Structure



# Example of a Software company

## Context of the organisation using Business Canvas

<b>Key Partners</b>  IT hosting partner IT housing partner  Marketing partner Knowledge partner  External developers External testers  Finance & administration	<b>Key Activities</b>  <b>Product Development</b>  <b>Product delivery</b>  <b>Customer Support</b>  <b>Sales &amp; Marketing</b>	<b>Value Proposition</b>  SAAS dienst, App of Web.  Software  Consultancy	<b>Customer relationships</b>	<b>Customer Segments</b>
	<b>Key resources</b>  IP / knowledge Employees Director/owner  Primary Information system  Customer data		<b>Channels</b>  Webpage Digital newsletter  Direct marketing	
<b>Cost Structures</b>  Labour / personell (In- External) 80% Hosting / housing IT Rest: marketing, administration, advisors, suppliers		<b>Revenu Streams</b>  Recurring revenu.  One-time / project revenue		



# Planning, support, operation

**Jira Software** Your work **Projects** Filters Dashboards People Apps **Create**

**ISMS English**  
Classic business project

- Summary
- Board**
- Issues
- Reports
- Project management with...
- Business projects basics
- Add item
- Project settings
- Give feedback

Projects / ISMS English  
**Board**

**Assigned to me** **Due this week**

TO DO 5	IN PROGRESS 3	DONE 1
<div>Keep trustworthy employees during Employment</div> <div>IE-1</div>	<div>Decide about DPIA for new product X</div> <div>IE-2 <b>GZ</b></div>	<div>Recurring task: Supplier evaluation</div> <div>✓ IE-4 <b>GZ</b></div>
<div>Building Zero trust architecture</div> <div>IE-6</div>	<div>Recurring task: Management evaluation</div> <div>IE-3 <b>GZ</b></div>	
<div>Automatic Software testing</div> <div>IE-7</div>	<div>Recurring task: Incident evaluation</div> <div>IE-5 <b>GZ</b></div>	
<div>Hire development team Moldavie</div> <div>IE-8</div>		
<div>Improvement: DDOS washing street</div> <div>Start typing...</div> <div>Save Cancel</div>		

# Risk management

- Management involvement
- Based on business canvas as risk framework
- Percieved risk is thus business risk
- Mitigating measures defined on improvement board (Jira)
- Simple feedback on status in risk matrix (Jira Query)
- Examples in Jira / Confluence

# Risk management Example

Confluence ZoergZuid

https://zoergzuid.atlassian.net/wiki/spaces/TE/pages/1777369110/Risk+analysis

Risk analysis - ISMS Template English - Confluence

Context of the organisation

Example Software

Employees Director/owner	Digital newsletter
Primary Information system	Direct marketing
Customer data	

Cost Structures

Labour / personell (In- External) 80%  
Hosting / housing IT  
Rest: marketing, administration, advisors, suppliers

Revenue Streams

Recurring revenue.  
One-time / project revenue

Canvas Square	Item	Risico nr	Risk (current risk)	Risk Class	Information risk (Y/N)	Explanation to the score, impact and frequency	Impact	Frequency	Risico treatment	Ideas (potential measures)	Measures (improvement point references)	Priorit y	Residu al risk												
Key activities	Development	R01	Quality of software must improve	High	Yes	Still too many software issues. Rework is bleeding the profit margin. Strategic target: 'safest software in the market' is threatened.	Medium	High	Mitigation	Improved software test, peer review of code, software baseline, more standardization, better skills, development process, tools.	<table border="1"> <tr> <th>Key</th> <th>Summary</th> <th>P</th> <th>Status</th> </tr> <tr> <td>IE-10</td> <td>Implement software security baseline</td> <td>↑</td> <td>DONE</td> </tr> <tr> <td>IE-7</td> <td>Automatic Software testing</td> <td>↑</td> <td>TO DO</td> </tr> </table>	Key	Summary	P	Status	IE-10	Implement software security baseline	↑	DONE	IE-7	Automatic Software testing	↑	TO DO	High	Medium
Key	Summary	P	Status																						
IE-10	Implement software security baseline	↑	DONE																						
IE-7	Automatic Software testing	↑	TO DO																						
Key resource	Employees	R02	Criminals seek to get grip on employees	Medium	Yes	Our customer is worried about the supply chain and the chance of criminals who want to get a grip on employees, by blackmail for example.	Medium	Low	Mitigation	Social culture, HR policies for helping employees with (financial) difficulties, separation of duties, quality control	<table border="1"> <tr> <th>Key</th> <th>Summary</th> <th>P</th> <th>Status</th> </tr> <tr> <td>IE-1</td> <td>Keep trustworthy employees</td> <td>↑</td> <td>TO DO</td> </tr> </table>	Key	Summary	P	Status	IE-1	Keep trustworthy employees	↑	TO DO	Medium	Medium				
Key	Summary	P	Status																						
IE-1	Keep trustworthy employees	↑	TO DO																						

2 issues Refresh



# Link ISO standard with internal policies

SPACE SHORTCUTS

+ Add shortcut

Pages

Audit and compliance

Statement of ap...

Compliance over...

Index Annex A to Internal policies

Index Annex A to...

Audit & Methodo...

Detail contro...

A.5.1.1 P...

A.5.1.2 R...

A.6.1.1 In...

A.6.1.2 S...

A.6.1.3 C...

A.6.1.4 C...


A.6.1.5 In...

A.6.2.1 M...

A.6.2.2 T...


ISMS

Go Homepage



DPO service

DO IT YOURSELF DATA PROTECTION



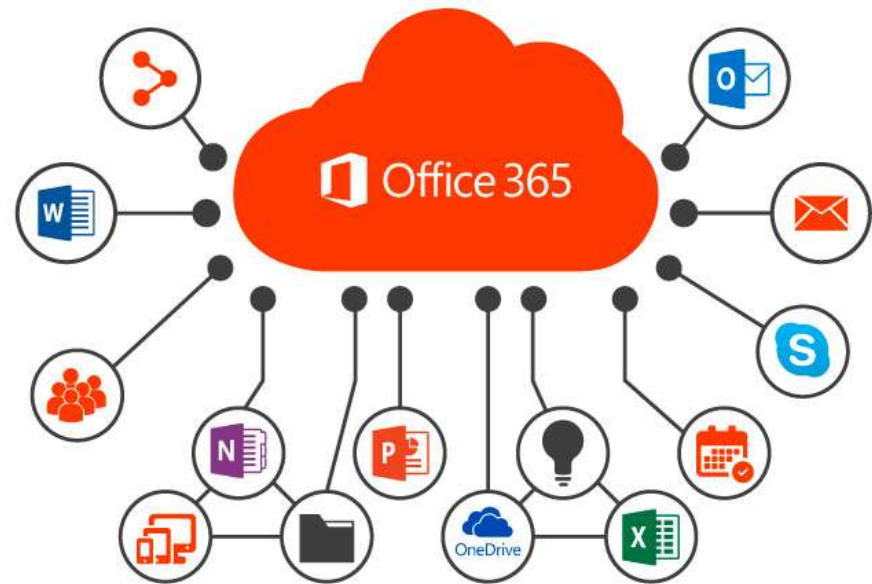
Information Security & Privacy Management System (ISMS) Template.

Reference index between Annex A & internal policies

Control	Subclause	Control	Applicable	Policy	Policy_links	Compliance_status	Audit_date	Improvement_points
<a href="#">A.5.1.1 Policies for information security</a>	A.5.1 Information security policies	A set of policies for information security shall be defined, approved by management, published and communicated to employees and relevant external parties.	Yes	Information Security Policy, see link	<a href="#">Information Security Policy</a>	Compliant		
<a href="#">A.5.1.2 Review of the policies for information security</a>	A.5.1 Information security policies	The policies for information security shall be reviewed at planned intervals or if significant changes occur to ensure their continuing suitability, adequacy and effectiveness.	Yes	Review yearly during management evaluation. Standard part of the agenda		Compliant		
<a href="#">A.6.1.1 Information security roles and responsibilities</a>	A.6.1 Internal organization	All information security responsibilities shall be defined and allocated.	Yes	Roles related to policy definition, planning, execution and control have been defined in annex to Information security policy		Non-Compliant		
<a href="#">A.6.1.2 Segregation of duties</a>	A.6.1 Internal organization	Conflicting duties and areas of responsibility shall be segregated to reduce opportunities for unauthorized or unintentional modification or misuse of the organization's assets.	Yes			Compliant		
<a href="#">A.6.1.3 Contact with authorities</a>	A.6.1 Internal organization	Appropriate contacts with relevant authorities shall be maintained.	Yes					
<a href="#">A.6.1.4 Contact with special interest groups</a>		Appropriate contacts with special interest groups or other specialist security forums and professional associations shall be maintained.	Yes					

# ISMS example 2

- Using Office 365



# Working with SMEs

## The Good

- Limited bureaucracy
- Few decision makers
- Fast adapting and ever changing organisation culture
- Major contributions by few people

## The Bad

- Limited resources (man power and funds)
- Dependency on key recourses
- Projects loose momentum
- Expect more pay less attitude
- Limited accountability

## The Ugly truth

- More systems than employees
- Outsourcing is often cost effective
- Limited skill inhouse



# Before you start your ISMS

## What do you need to know?

- Your organisational strategy
- Your cost per control
- The impact of the ISMS on the way of working
- Tools and skills at your disposal

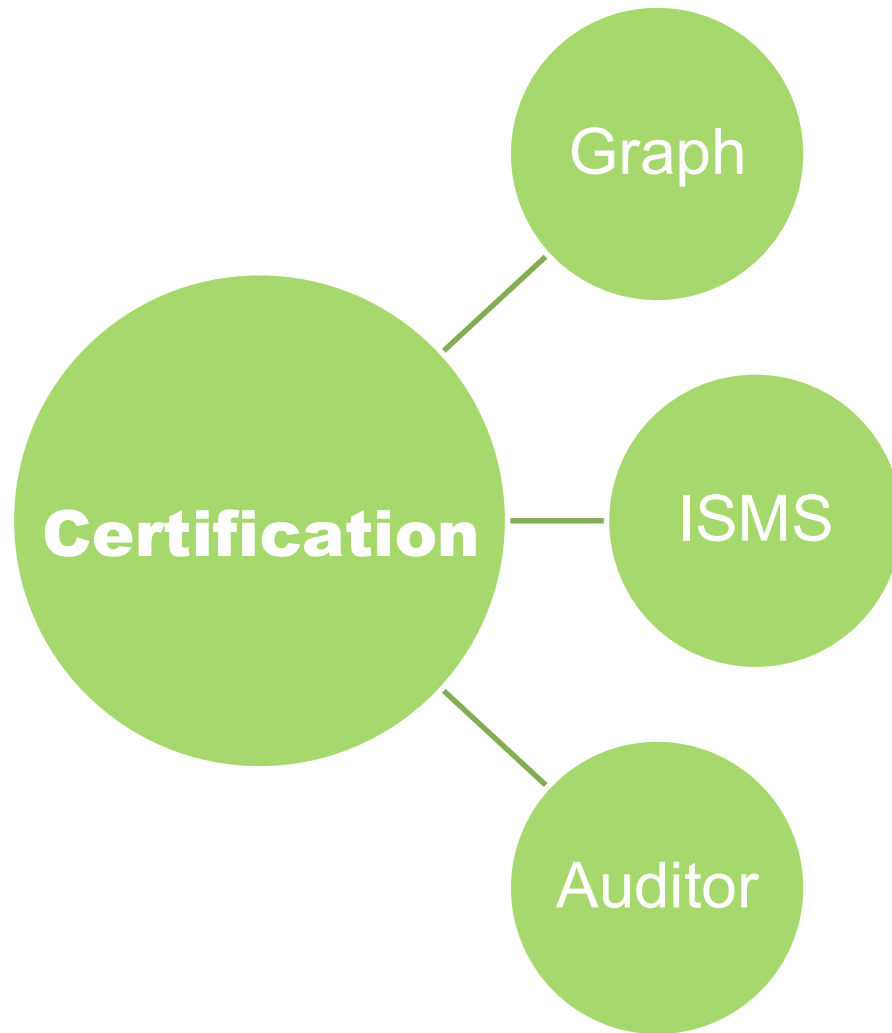
## What do you need to do?/ Where do you start?

- First, Integrate effective controls
- Integrate low hanging fruit
- Integrate full or limited audit scope
- Lastly, integrate failed controls by designing them as effective controls

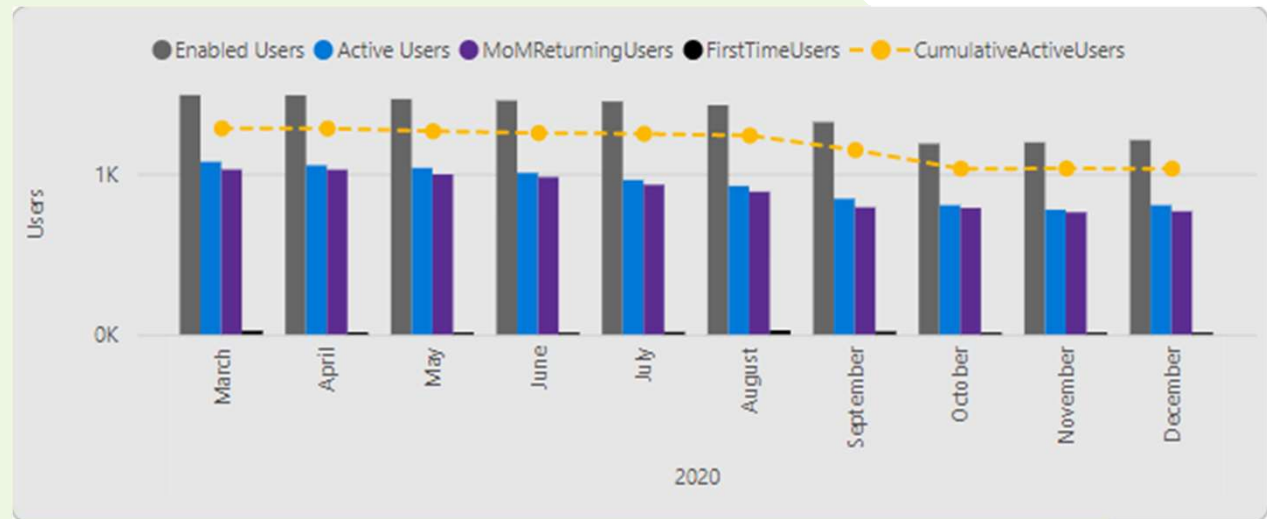
**Automation is key!** Comply with more controls using fewer people and less resources.

**“Auditors  
think in lists. Auditees think in  
graphs.  
As long as this is true,-  
auditees win.”  
John Lambert**





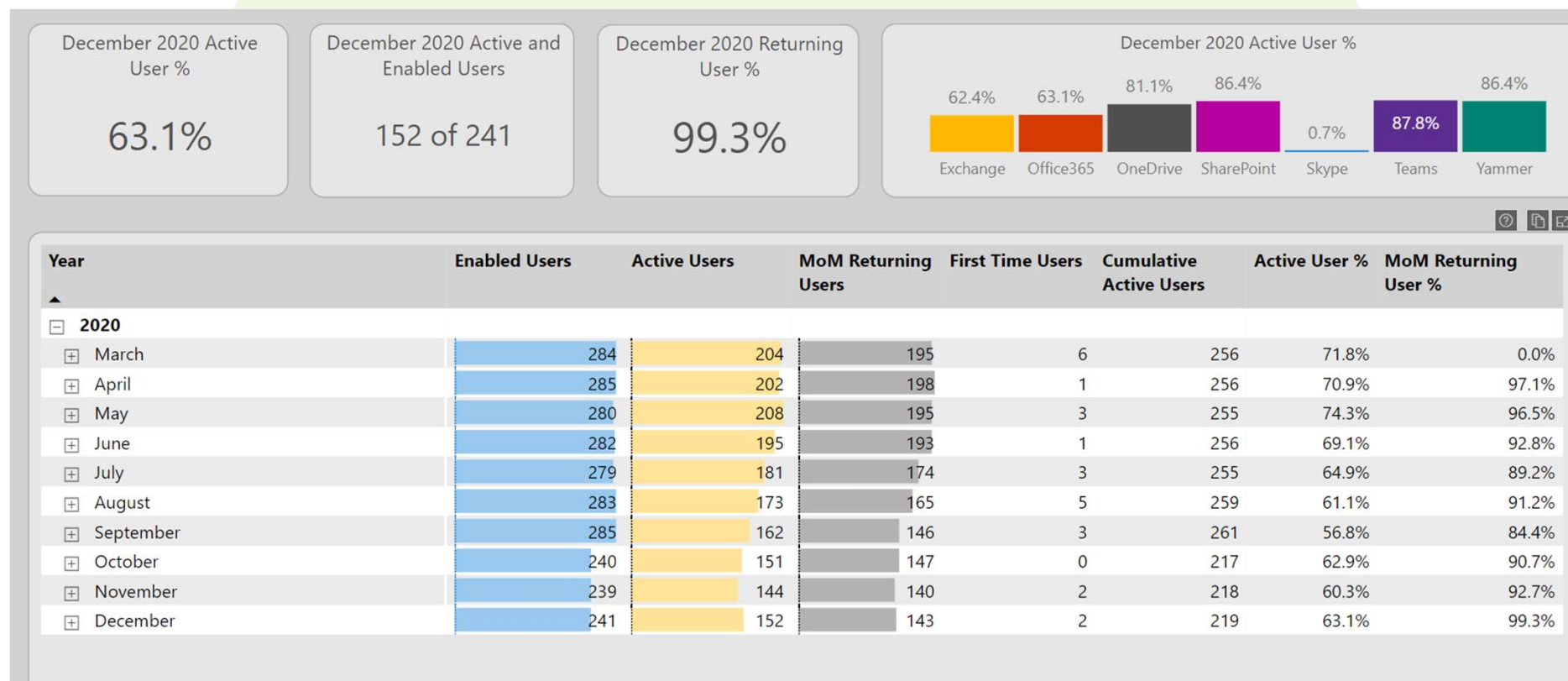
# Graph



- Enabled users = number of licences allocated / available
- Active users = users active in the month
- MoM returning users = users active in the month that were also active in the preceding month
- First time users = New users / employees



# Drill down view



# ISMS

Ref. #	Control Name	ISO 27001 Requirement	NIST Requirement	GDPR Relevant / Article	A	I	Ad e	Mandatory documents list ISO 27001	Nice to have documents list	Observations & Recommendations
A.9.2	User Access Management									
Control Objective	To ensure authorized user access and to prevent unauthorized access to systems and services.									
A.9.2.1	User Registration and deregistration	A formal user registration and de-registration process shall be implemented to enable assignment of access rights	<a href="#">AC-1</a> <a href="#">AC-2</a> <a href="#">IA-1</a> <a href="#">IA-2</a> <a href="#">IA-3</a> <a href="#">IA-4</a> <a href="#">IA-5</a> <a href="#">IA-6</a> <a href="#">IA-7</a> <a href="#">IA-8</a> <a href="#">IA-9</a> <a href="#">IA-10</a> <a href="#">IA-11</a>	Article 16 Article 17						
A.9.2.2	User access provisioning	A formal user access provisioning process shall be implemented to assign or revoke access rights for all user types to all systems and services								
A.9.2.3	Management of privileged access rights	The allocation and use of privileged access rights shall be restricted and controlled								
A.9.2.4	Management of secret authentication information of users	The allocation of secret authentication information shall be controlled through a formal management process								
A.9.2.5	Review of User Access Rights	Asset owners shall review users' access rights at regular intervals								
A.9.2.6	Removal or adjustment of access rights	The access rights of all employees and external party users to information and information processing facilities shall be removed upon termination of their employment, contract or agreement, or adjusted upon change								

Auditor

# Audit PBC list

IT algemeen	Indienst	Vastlegging van indienstprocedure voor een medewerker die toegang heeft gekregen tot [REDACTED]
IT Algemeen	Checklist uitdienst	Checklist uitdienst voor een medewerker welke toegang had tot [REDACTED]

# The end

