



Basisadministratie Persoonsgegevens
en Reisdocumenten
*Ministerie van Binnenlandse Zaken en
Koninkrijksrelaties*

Development of Documents: the Dutch approach

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Development of Documents: the Dutch approach



Statement Mr. Ron Noble, SG Interpol

"Interpol considers stolen and lost passports to be among the most valuable assets for terrorists and international criminals"



Fundement





Security concept

- Creation of the security concept
- Aspects involved
- Role of the security concept



Questionnaire

1. Basic information

01.01 In which sector do you work?

public sector

private sector

01.02 If you work in the **public** sector, in which type of authority?

police

municipality

immigration

embassy

issuing authority

other, namely:

01.03 If you work in the **private** sector, in which kind of company?

bank

public transport

airline

other, namely:

(temporary) employment agency



Overview features

	Security feature		Frequency	Time
<input type="checkbox"/>	Microprint		.....	.....
<input type="checkbox"/>	Kinegram		.....	.....
<input type="checkbox"/>	Optically Variable Ink		.....	.....
<input type="checkbox"/>	Relief embossing		.....	.....
<input type="checkbox"/>	Secondary image		.....	.....
<input type="checkbox"/>	Multicoloured stitching thread		.....	.....



Fraud developments

- Forms of Fraud: counterfeit and forgery
- Stages of development (recent 50 years)

Fraud

Measures

Total counterfeit	More security features
Theft blanc stolen	Central personalisation
Photo substitution (forgery)	Integrated photograph
Look alike fraud	Chip with photograph



Categories

1. Tactile
2. Design
3. Substrates
4. Binding
5. Printing
6. OVD's
7. Inks
8. Personalization
9. Numbers



Examples of variables and answers and categories

- Applicable for type of document (ID 1 / ID 3)
- Inspection level (front office / back office)
- Inspection type (manual / automated)
- Inspection handling (look, tilt, feel)
- Inspection time (number of seconds)
- Inspection frequency (occasional / regular / frequent)
- Protects against (counterfeit / forgery / look alike)
- Perpetrated fraud (never / seldom / relatively often)
- Effectiveness (low / medium / high)
- Requirement in EU regulations (yes / no) etc.



Variables

Microsoft Excel spreadsheet showing variables for different DVD types. The spreadsheet is titled 'Echtheidskenmerk' and contains data for various DVD types (6.1 Hologram, 6.2 Identigram, 6.3 Movigram, 6.4 Alphagram, 6.5 Kinegram).

Varianten	afbeelding	toe te passen in type document	controle niveau	controle vorm	controle methode	instrumenteel voor controle	controle opbouw	controle frequentie	bescherm tegen	risico	veiligheidsgraad namaak	getrouweerd	komstvastheid	urzaankwaliteit	van toegepast	opmerking
6.1 Hologram		ID 13	front office	manueel	kantelen	nee	4,5s	fo: regelmatig | bo: frequent	namaak	laag	laag	m/g zelden | dig zelden	Ja >10	Italië ID	EU-verordening en ICAO: Optically Variable Fo	
6.2 Identigram		ID 13	front office	manueel	kantelen	nee	NB	NB	namaak, vervalsing	hoog	hoog	NB	Ja >10	Duitsland PP	EU-verordening en ICAO: Optically Variable Fo	
6.3 Movigram		ID 3	front office	manueel	kantelen	nee	NB	NB	namaak	riddersmidder	NB	NB	Ja <10	Litouwen PP	EU-verordening en ICAO: Optically Variable Fo	
6.4 Alphagram		ID 13	front office	manueel	kantelen	nee	NB	NB	namaak	riddersmidder	NB	NB	Ja >10	België ID	EU-verordening en ICAO: Optically Variable Fo	
6.5 Kinegram		ID 13	front office	manueel	kantelen	nee	4,5s	fo: frequent | bo: frequent	namaak	hoog	hoog	m/g zelden | dig zelden	Ja >10	Nederland PP	EU-verordening en ICAO: Optically Variable Fo	



Inspection ^{1/2}

- 3 levels:
 - front office (> 99%)
 - back office
 - forensic
- Front office is gatekeeper
- Effectiveness front office under pressure due to lack of time, (too) highly service orientated and not always sufficient knowledge and skills
- Current process: mainly manual (look, tilt, feel)



Inspection *2/2*

- Future: more and more automated processes:
 - border crossing (ePassport)
 - identity verification (hand-held scanners)
- Automated process demands different security features



Fraud

- Shift from manipulation document to look alike fraud and application fraud
- Document fraud: shift from mechanical/graphical to digital
- Document fraud international: decrease
- Professionalization of fraudsters (after two years control of new concept)
- Change from document fraud to identity fraud?!



Authentication features

- Limited security features for reliable automated document inspection
- Many security features protect from counterfeit, less protect from forgery
- Many security features based on 'look' (require references)
- Design of security features often too complex for front office inspector



Watermark



← Watermerk



Changing nature of the work



Consequences of changes for Governments and Suppliers



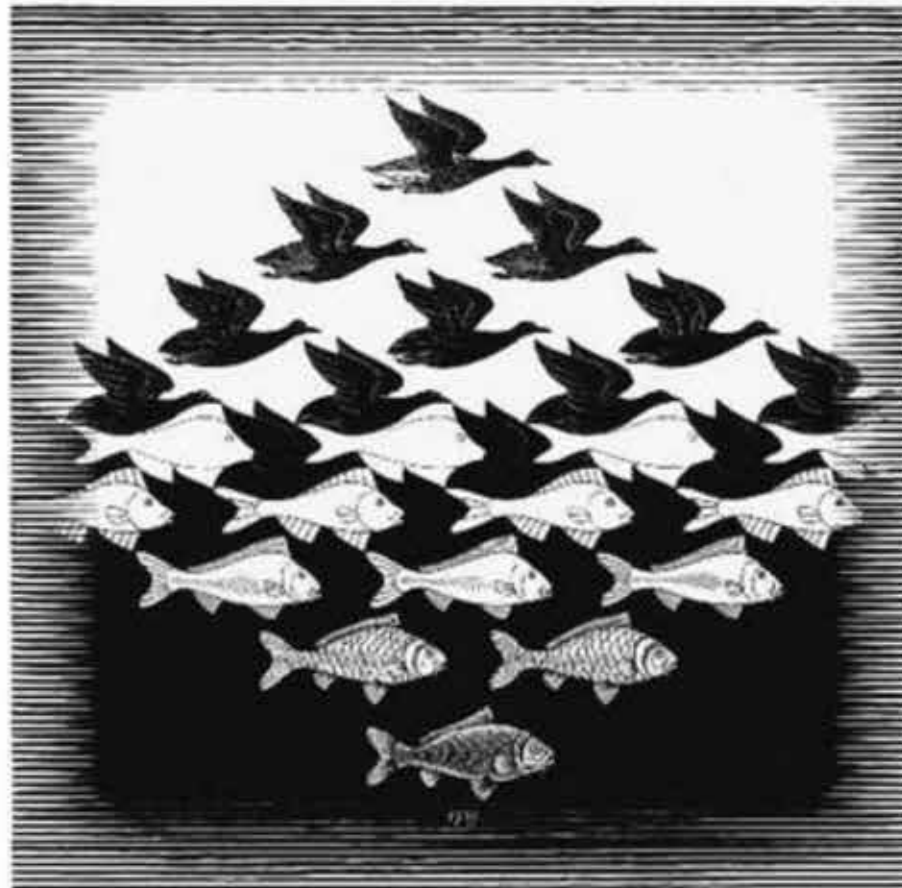


Conclusions

- Experiences gained with an existing document provide crucial input for the development of a new document.
- The collection of data, necessary for conducting a (fraud) risk analysis is a huge task and time-consuming.
- Analysis of authentication features that are used in a document gives a good picture of the risks covered by these features.
- Authentication features must be carefully considered when the design of a security concept is selected, and choices must be explainable and transparent.
- Panels provide an important sounding board for the developers of a security concept and contribute towards creating support for a new concept.



Dealing with changes





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