

International Developments Towards Reliable Information

Ben, B.G.A.M. van der Zwet RA EDP-auditor Dutch Tax Administration Belastingdienst

Programma

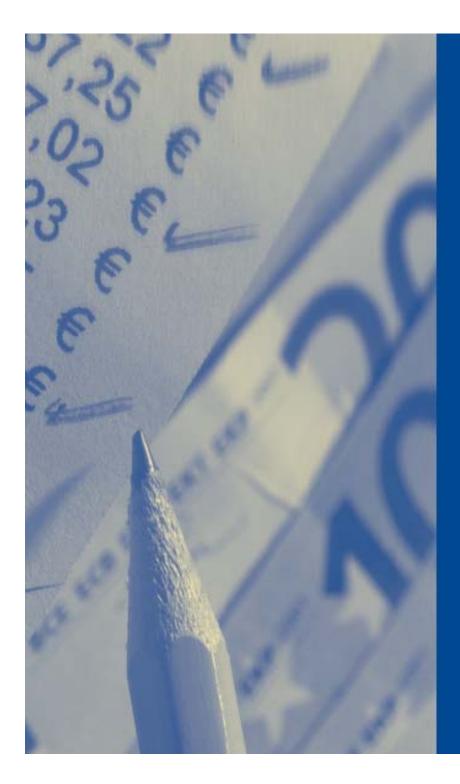
Introduction
Why Governments Care
What is the problem
How can WE solve it

Introduction

- Ben van der Zwet
- IT-auditor
- Cash Registers
 - Investment in knowledge
 - Demands / obligations
 - Criminal Pursuit Developers
 - Fiscalis PG cashregisters I and II

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your cash register and the fiscal accounting obligations Securing data

Are the transaction data secured against changes later on?

• Audit trail

Are the data retained and secured in such a manner that it can be traced how these data originated during an audit?

 Auditable within a reasonable period of time Are the data being retained and are they accessible (or: are they in a legible format) in such a manner that a tax audit can be made within a reasonable period of time?

After a certain time can the data still be produced or reproduced within a reasonable period of time? Even if a new (cash) payment system has been bought, or after a version change ?

Has the audit file for cash registers been incorporated in the payment software?

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- 2 XML Audit file for Cash registers (XAA)
- 2.1 A tool in tax audits
- 2.2 The XAA concept: some background information information
- 2.3 Advantages of the XA!A⁻ Generated at:
- 2.4 XML platform <!-- Generated using:

EC-Design 1.3.5 (htt]

02-07-2007 16:53:54

6

- 2.5 The XAA industry stoper: Generated by: Jeffrey Outshoven, have been and by the belasting tense of tens
- 2.6 Security and packing $\frac{1}{2}$ Organisation: Branche Initiatieven 4
- 2.7 Physical packing and xsd:schema targetNamespace="http://www.auditf: xmins:xaa_nttp://www.auditfiles.nl/XAA/1.2"
- 2.8 Technical information xmlns="http://www.auditfiles.nl/XAA/1.2" xmlns:xsd="http://www.w3.org/2001/XMLSchema" el attributeFormDefault="unqualified">

Account community auditfiles

www.oswo.nl/cso



EUROPEAN COMMISSION

DIRECTORATE-GENERAL

TAXATION AND CUSTOMS UNION

Indirect taxation and Tax administration

Administrative cooperation and fight against fiscal fraud

Restricted – for administrative use only

FISCALIS FPG 12

Cash Register Project Group

Cash Register Good Practice Guide

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Website: <u>www.itaide.org</u>



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CALIFORNIA ZAPPERS: A PROPOSAL FOR CALIFORNIA'S COMMISSION ON THE 21ST CENTURY ECONOMY

Boston University School of Law Working Paper No. 09-01 (January 8, 2009) Richard T. Ainsworth

This paper can be downloaded without charge at: http://www.bu.edu/law/faculty/scholarship/workingpapers/2009.html

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Introduction
Why Governments (should) Care
What is the problem
How can WE solve it



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Why Governments Care

Money, Tax evasion 16 % of sales not reported to the sales of sales not reported to the sales of sales not reported to the sales of the sales Quebec \$ 425 million Sweden: 150
 SWEEFOP

CARE FOR A GOOD SOCIETY

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Care for a good society

Jean-Marc Fournier Quebec: \$ 425 m. = 7.000 nurses Fairness, unfair competition to compliant entrepreneurs to employees Sweden: misuse of alcohol! NL: Safe Taxi Transport USA - EU: Green Lane (IT aide)

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Why Governments Care

- Euro's , Tax gap
 - Cash registers have a big Tax hole
- Care
 - A fair and safe society
 - An open economy, with fair competition



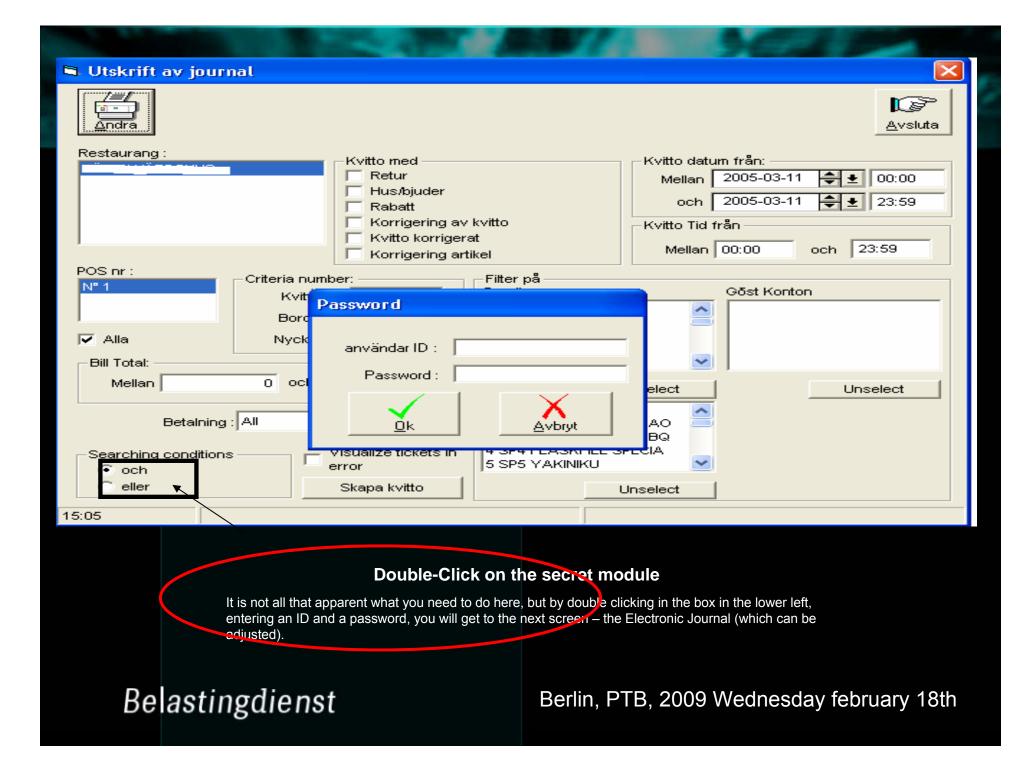
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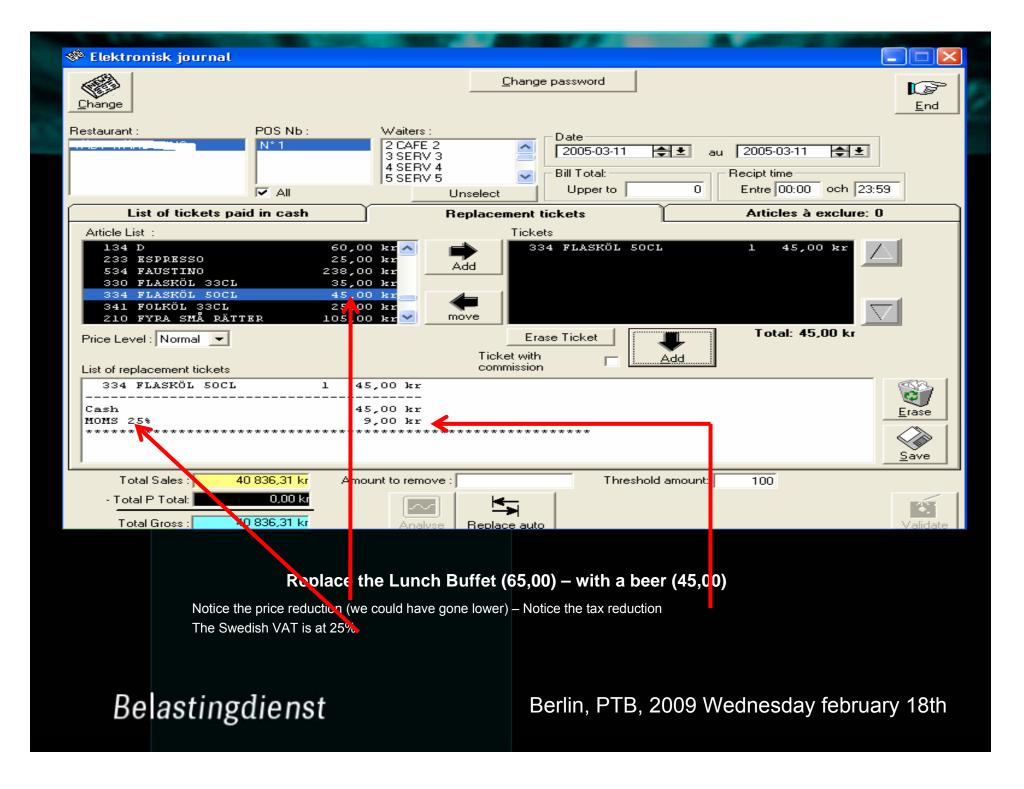
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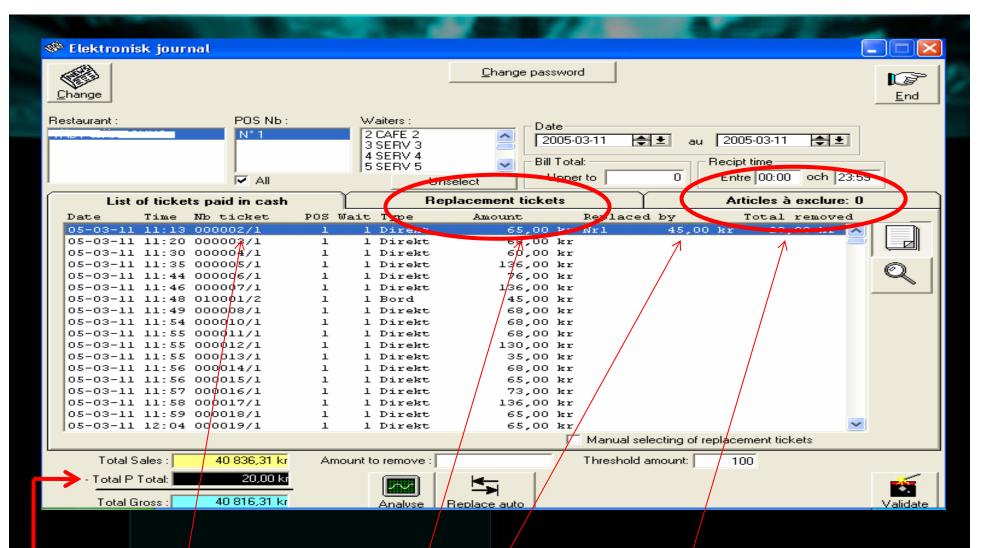
What is the problem

- Zappers and Phantomware
 - Automated sales suppression
 - Programs mis / used for Cash Skimming
 - Phantom ware; internal
 - Zappers, external, USB sticks etc.
 - International!



🏶 Elektronisk journal					
Change	Change password				
Restaurant : POS Nb :	Waiters : 2 CAFE 2 3 SERV 3 4 SERV 4 5 SERV 5 Unselect Date 2005-03-11 $\textcircled{1}$ au 2005-03-1 Bill Total: Upper to 0 Entre 00:1	11 🔹 生			
List of tickets paid in cash	Replacement tickets Articles	à exclure: 0			
Date Time Nb ticket	POS Wait Type Amount Replaced by Tota	1 removed			
05-03-11 11:13 000002/1 05-03-11 11:20 000003/1 05-03-11 11:20 000003/1 05-03-11 11:35 000004/1 05-03-11 11:35 000005/1 05-03-11 11:44 000006/1 05-03-11 11:44 000008/1 05-03-11 11:48 01001/2 05-03-11 11:54 000008/1 05-03-11 11:55 000012/1 05-03-11 11:55 000012/1 05-03-11 11:55 000013/1 05-03-11 11:56 000013/1 05-03-11 11:57 000016/1 05-03-11 11:57 000016/1 05-03-11 11:58 000017/1 05-03-11 11:59 000018/1 05-03-11 11:59 000018/1 05-03-11 12:04 000019/1	1 1 Direkt 65,00 kr 1 1 Direkt 68,00 kr 1 1 Direkt 60,00 kr 1 1 Direkt 136,00 kr 1 1 Direkt 136,00 kr 1 1 Direkt 76,00 kr 1 1 Direkt 136,00 kr 1 1 Direkt 68,00 kr 1 1 Direkt 35,00 kr 1 1 Direkt 68,00 kr 1 1 Direkt 65,00 kr 1 1 Direkt 73,00 kr 1 1 Direkt 136,00 kr 1 1 Direkt 65,00 kr 1 1 Direkt 65,00 kr				
Total Sales : 40 836,31 kr	Amount to remove : Threshold amount:100				
- Total P Total: 0,00 kr		_< 1			
"Manipulate-able" Electronic Journal Notice that we can either (1) select a ticket to adjust, or (2) auto-replace					
So, assume we take the selection of a ticket approach (1),					
When we select the first item (ticket number 2/1) we then get					
Belastingdienst	Berlin, PTB, 2009 Wednesda	ay february 18th			





Manipulated Electronic/Journal (pro-forma)

Here is what we have done so far – is this enough manipulation? Ticket 2/1 has been changed from 65,00 to 45,00 with a reduction of 20,00 on this ticket There is a running total kept (in case you want to remove more)

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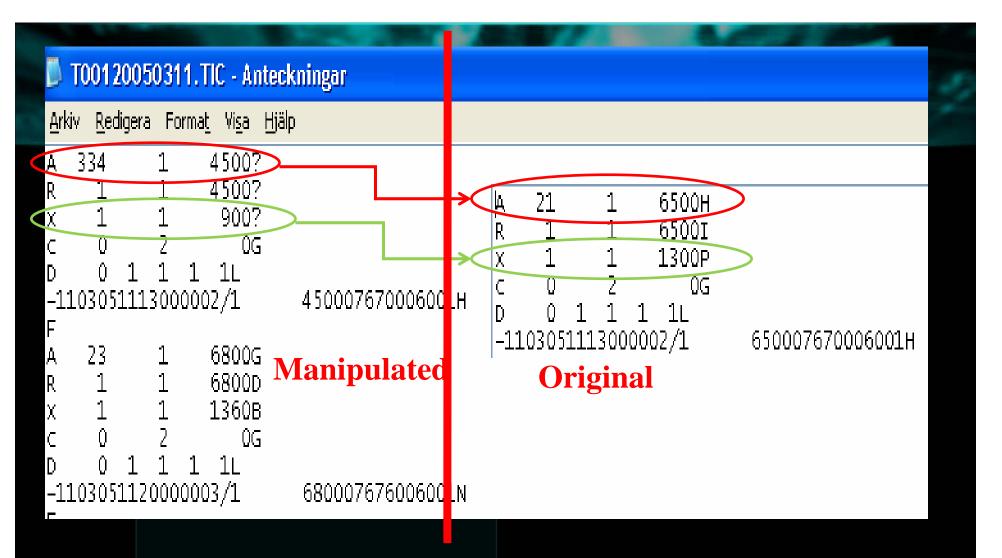
Nr Namn 		Ant	SUM
21 LUNCH B		l	65,00
1 KONTANT MOMS 25%	Original	 1 1	65,00 13,00 (
TOTAL KVITTO Direkt Bord NR:0 2005-03-11 11:13	POS number:l GÄST ANT:l N Kvitto NR:000002/l	Jyk nr:l Servit NR:l	65,00
Nr Namn		Ant	SUM
			45,00
334 FLASKÖL 50CL		1	
334 FLASKOL SOCL 1 KONTANT MOMS 25%	Manipulated		 45,00 9,00

Comparison: Original & Manipulated Electronic Journal

Notice the reduction in gross sales & the reduction in tax.

If this record is tied into inventory control, adjustments in related purchases will be necessary [some zappers will do this for you] because you may have just "sold" more beer than you ordered

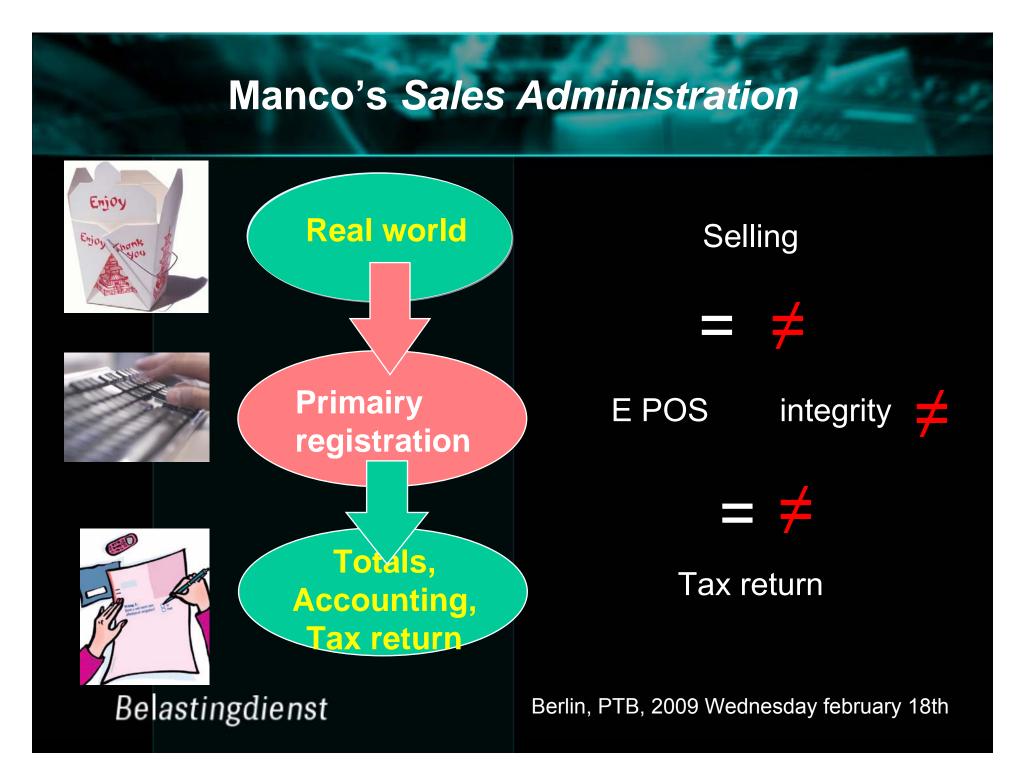
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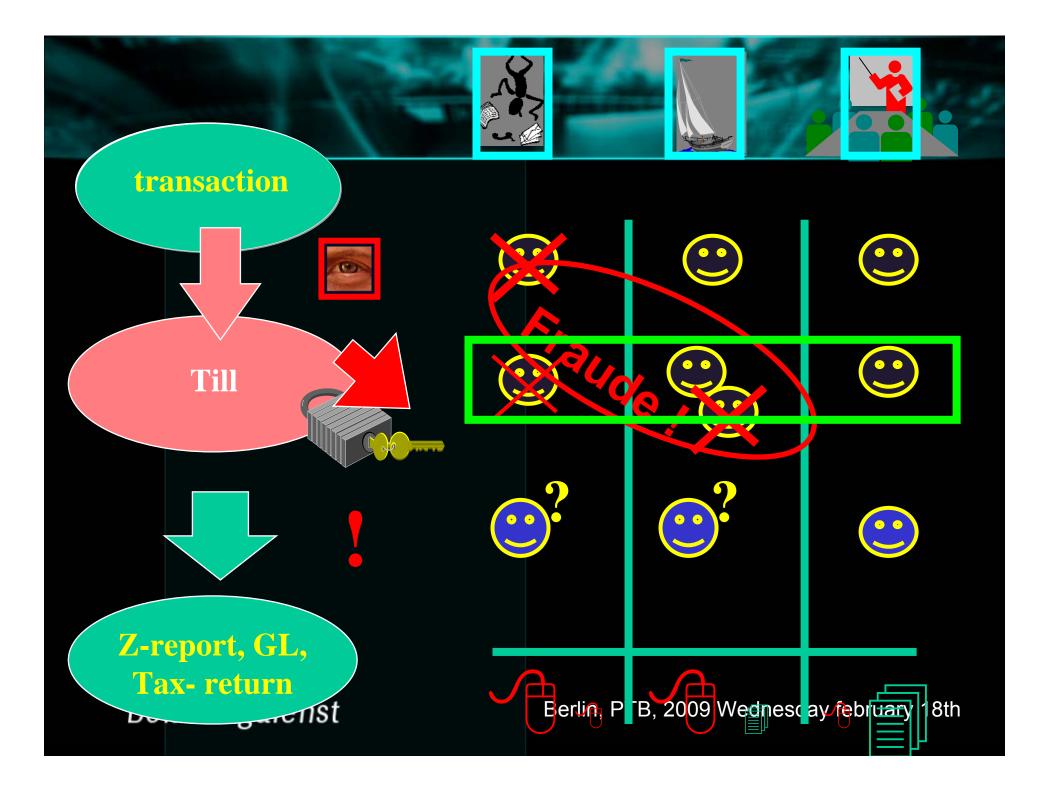


Comparison of the TIC-files – Manipulated & Original

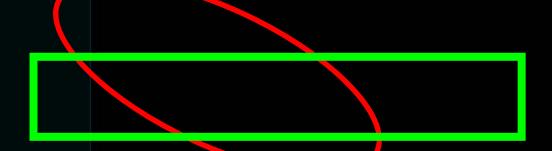
Notice the "?" in the Manipulated version in contrast with the letters "H", "I" & "P" in the original version. This one of the tell-tale signs of manipulation in this particular program. It may indicate that the system has not been correctly updated since the manipulation procedure.

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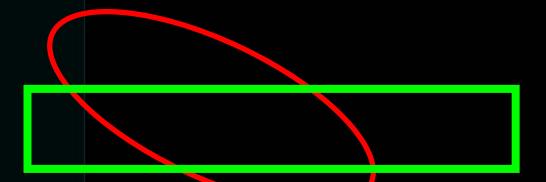
What is the problem



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What is the problem

- Small : Not registering sales
- Medium : Zappers and Phantomware
- Big : Normally no issue



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Why Governments Care

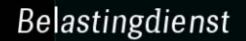
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PRESENT APPLICATIONS SOLUTIONS – POLICY ORIENTATIONS

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SOLUTIONS – PRESENT APPLICATIONS **GREECE**: FEDs; FECRs, AFED Printers; FESDs GERMANY **EMBEDDING SMART CARDS IN ECRs** ▶ QUEBEC, CANADA, MEV SWEDEN CONTROL UNIT

SOLUTIONS – PRESENT APPLICATIONS totals > detailed data Secure box > Secure data e-signing, PKI Secure data > Secure view ► IT Aide dia Using Standards CEN, ISO, CC EAL CERTIFICATION OF THIRD PARTY SERVICE PROVIDERS **USA**, SSUTA SAAS ? Belastingdienst Berlin, PTB, 2009 Wednesday february 18th

basic rules;

- Data needs to be stored electronically.
- Facilities have to be implemented to export data to digital data carriers.
- Settings of the software and the adequate database structures must support a proper audit trail.
- Measures must be taken to assure the reliability of retained data.

PRESENT APPLICATIONS SOLUTIONS – POLICY ORIENTATIONS

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	Greece			
	Turkey	Rules based		
	Hungary			
	Sweden 1 Control Unit			
	▶ Germany ☆ INSIKA			
	United Kingdom	Principles		
	France	based		
	The Netherlands			
	Belgium			
	Ireland			
Belasunguiensi CANADA, USA, SERBIA Deniii, Pird, 2009 weunesuay iebruary				

- Greece
- Turkey
- Hungary
- Sweden 1 Control Unit
- ► Germany ① INSIKA
- United Kingdom
- France
- The Netherlands
- Belgium
- Ireland

Stakeholders Standards ISO, CEN, CC Third Party's SAAS, SSUTA

Rules Based Or Comply

Belastinguienst USA, USA, SERBIA

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Why Governments Care

Euro's, Tax - gap

Cash registers have a big Tax hole WHO PAYS?

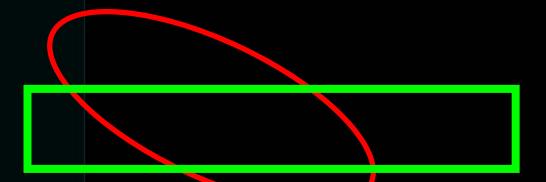
Care

A fair and safe society

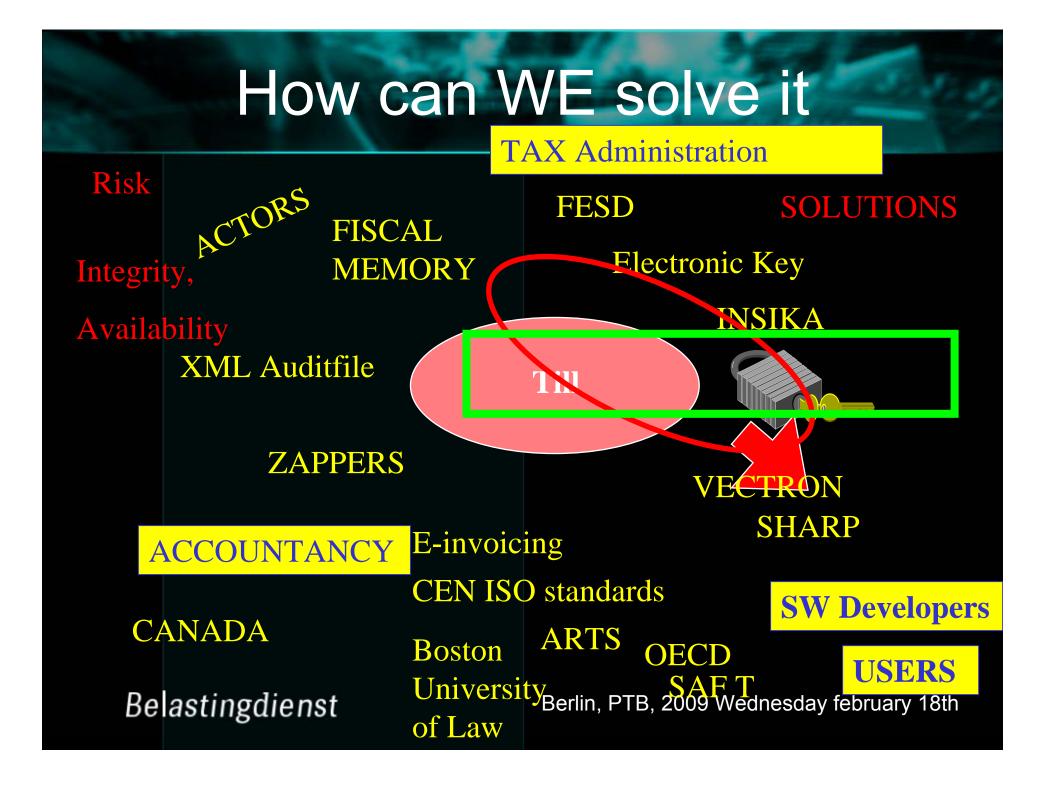
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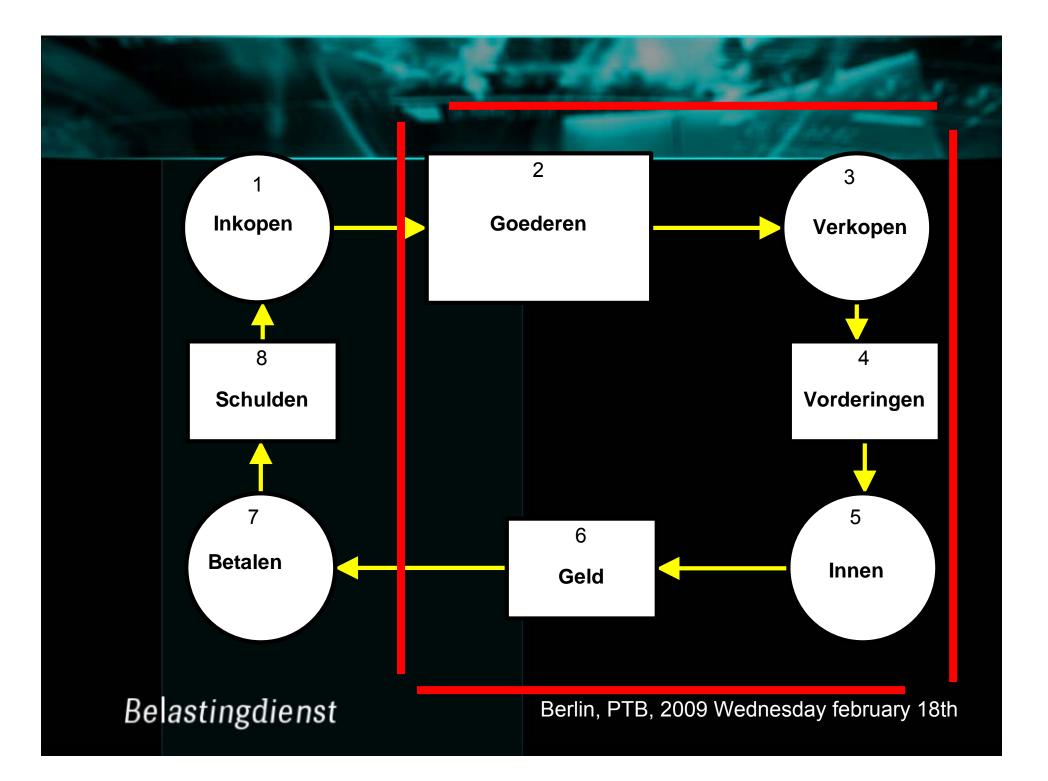
<u>more</u>

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GRATULATIONS ON WHAT YOU HAVE ACHIEVED !!

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VALUE CYCLE AND CASH REGISTER

