
Security Risk Assessments for Government IT – Methods and Preventive Actions

Prof. Reinhard Posch
CIO des Bundes



Berlin, 25.10.2011

BERLIN 25.11.2011



NFC-enabled Smart Phones

- By 2014: 1 in 5 smart phones NFC enabled [1]
- → 300 millions
- Variety of (new) applications
 - Mobile payment
 - Proof-of-origin
 - Smart posters
 - Data exchange
 - vCard
 - Access control
 -
- **Security plays an important role**

Why Security?



■ Protecting information (systems)

■ Achieving:

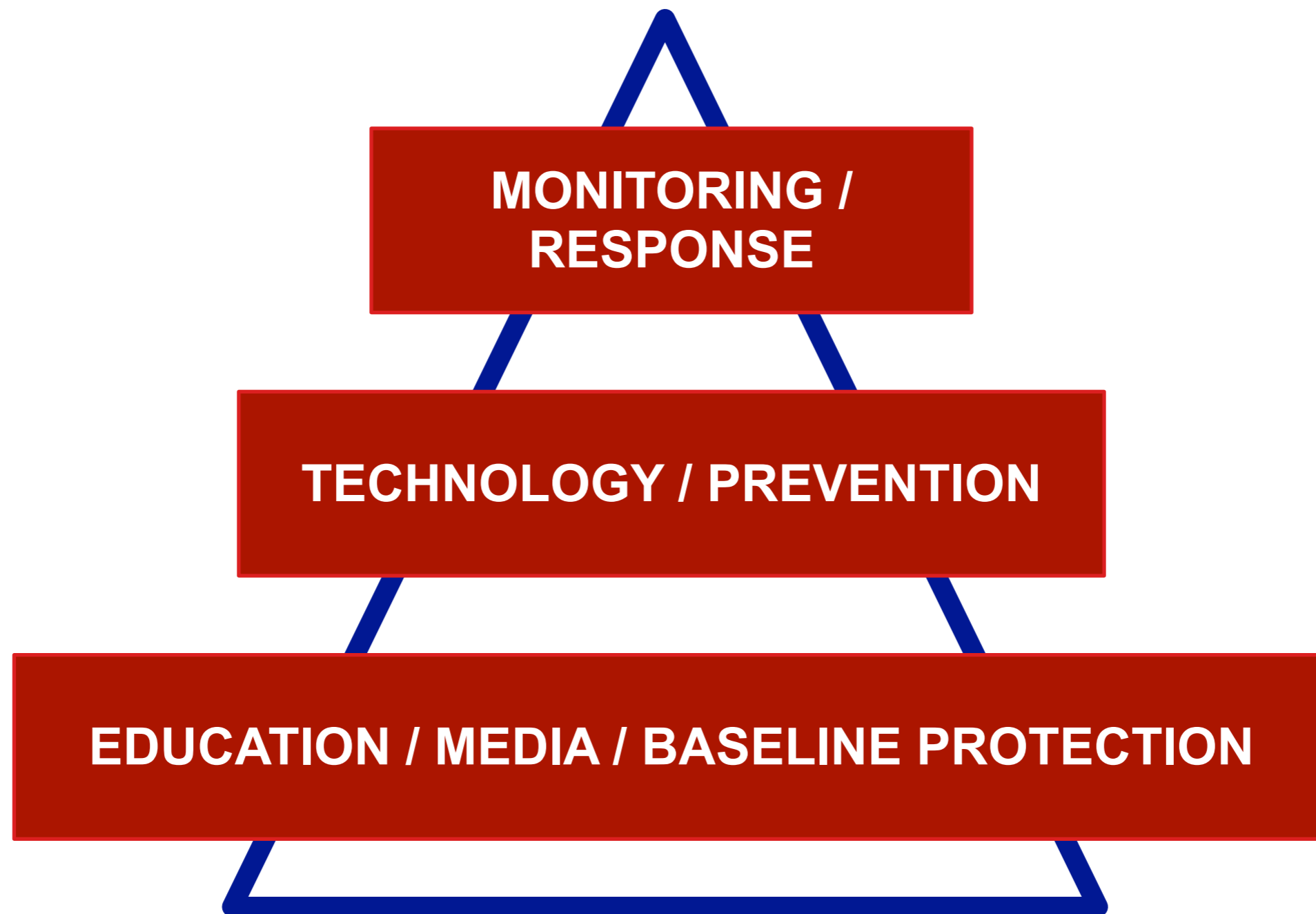
- Confidentiality
- Data integrity
- Authentication
- Non-repudiation

**By using
cryptography**

What can administration do - THE AT-CASE

- Big Picture - Strategy - Modules
- Strategy: **CLOUD COMPUTING (spring 2011)**
- Strategy: **MOBILE DEVICES (fall 2011)**
- Dynamic Reaktion on Technology RISK
 - Evaluation of Technology A-SIT - EGIZ
(Security / Technology)
 - Strategy
**NFC USAGE AND DATA PROTECTION
as it will become used and a demand**

The ICT Security Performance Pyramide



data protection and performance ask for a balanced system

BERLIN 25.11.2011



SETTING UP THE IT SECURITY STRATEGY

OBSERVE COMPETENCES AND PRIOR KNOWLEDGE

BKA
KOORDINATION
 Internet Gesellsch.
 govCert Datenschutz
 Grundschutz Infosec
 E-Government
CIIP

BMLVS
Cyber War
Cyber Defense

BM.I
Cyber Crime -
KSÖ

BMF
Finanz
Wirtschaft

Unterricht
Erwachsenenbildung
MEDIEN
 ++

bmvit
Infrastruktur
Provider

	AUS	CAN	FRA	GER
Extends existing organisations		CSE; DND/CI		BSI
Establishes new organisations			Interdpt. Coordination	
Extends existing organisation(s)	National Information Security Cent (NIS)	GovCER KLPD/TH		Centre of excellence on cyber security
Establishes new organisation(s)				

E-Government Security and Prevention

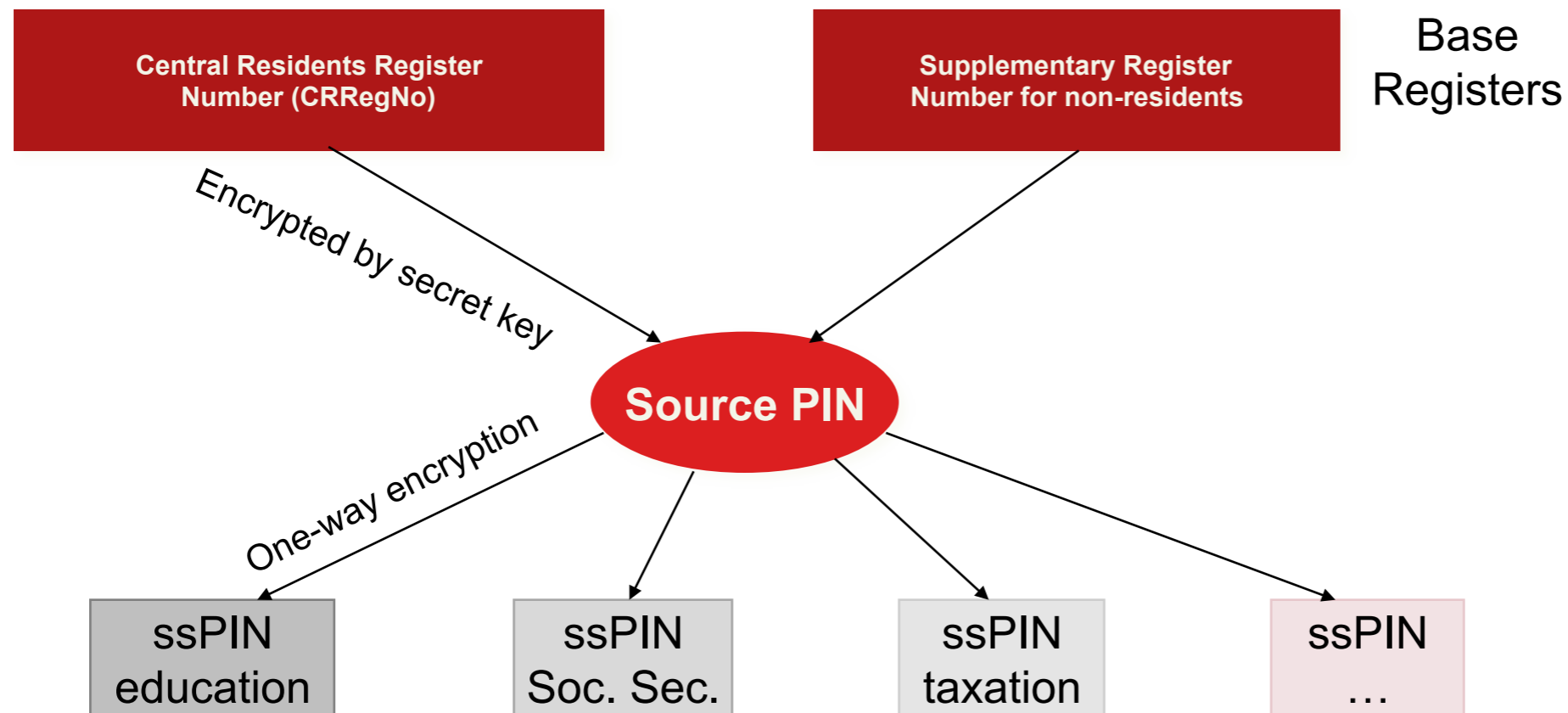
Citizen Card - protecting eID
ensuring data protection

Official Signature - avoiding false documents
enabling every European digital

Electronic Delivery, Backoffice Portal Interchange

Security for eGovernment becomming CIIP
eGovernment ammendment 7/2010

Citizen Card - protecting eID ensuring data protection



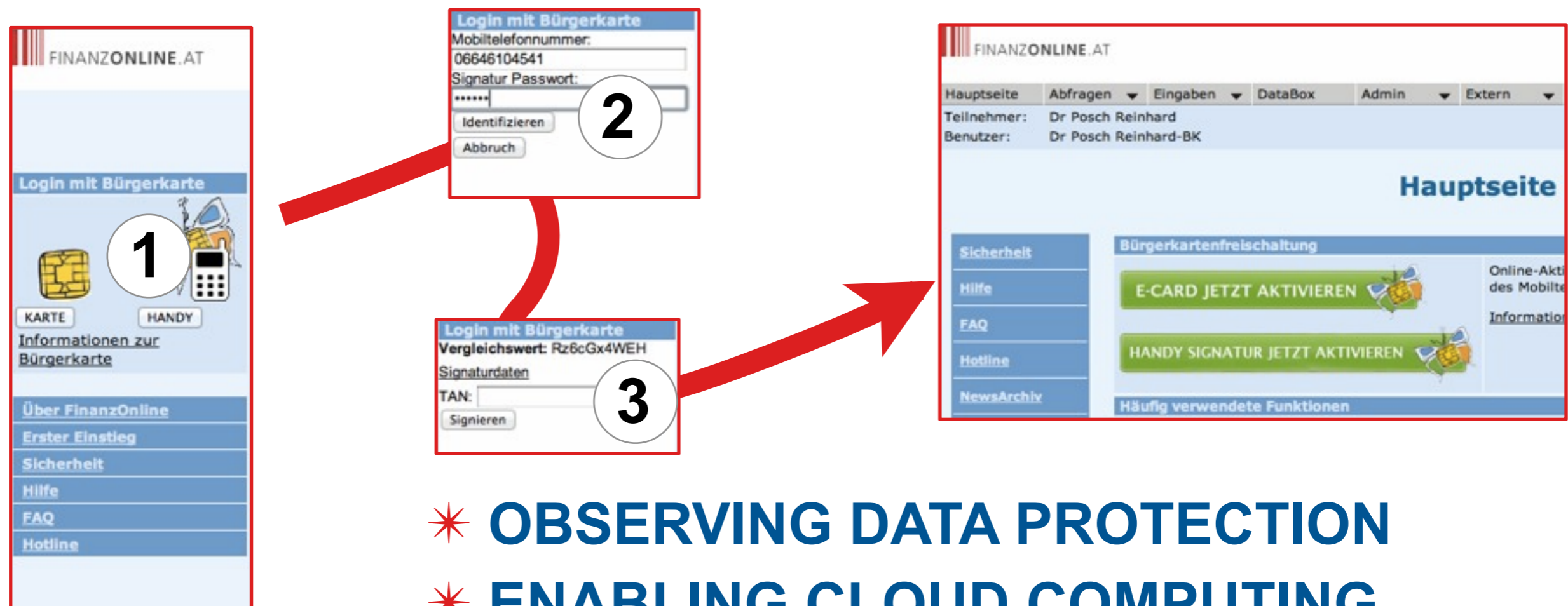
For the public and the private sector



1 → 2 → 3 →

eID and simplification - HANDY-SIGNATUR

- * enhance usability by using **one method** for qualified signatures and eID
- * enhance acceptance by using **ubiquitous devices** e.g. standard mobile phones



- * **OBSERVING DATA PROTECTION**
- * **ENABLING CLOUD COMPUTING**

ALL DOCUMENTS BY GOVERNMENT SIGNED

- * „official signature“
- that can be verified

The screenshot shows a table of certificate data with the following callouts:

- Inhaber**: Points to the 'Signiert von' field.
- Datum & Uhrzeit der Ausstellung**: Points to the 'Datum' field.
- Eindeutige Formularbezeichnung mit Versionskennung**: Points to the 'Formular/Verfahren' field.
- Signaturwert**: Points to the 'Signaturwert' field.
- Bildmarke nach E-GovG**: Points to the 'AMTSSIGNATUR' logo.
- Ausstellender Zertifizierungsdiensteanbieter (ZDA)**: Points to the 'Zertifikat' field.
- Hinweis auf Rückführbarkeit**: Points to the 'Hinweis' field.
- Hinweis auf Amtssignatur**: Points to the 'Hinweis' field.

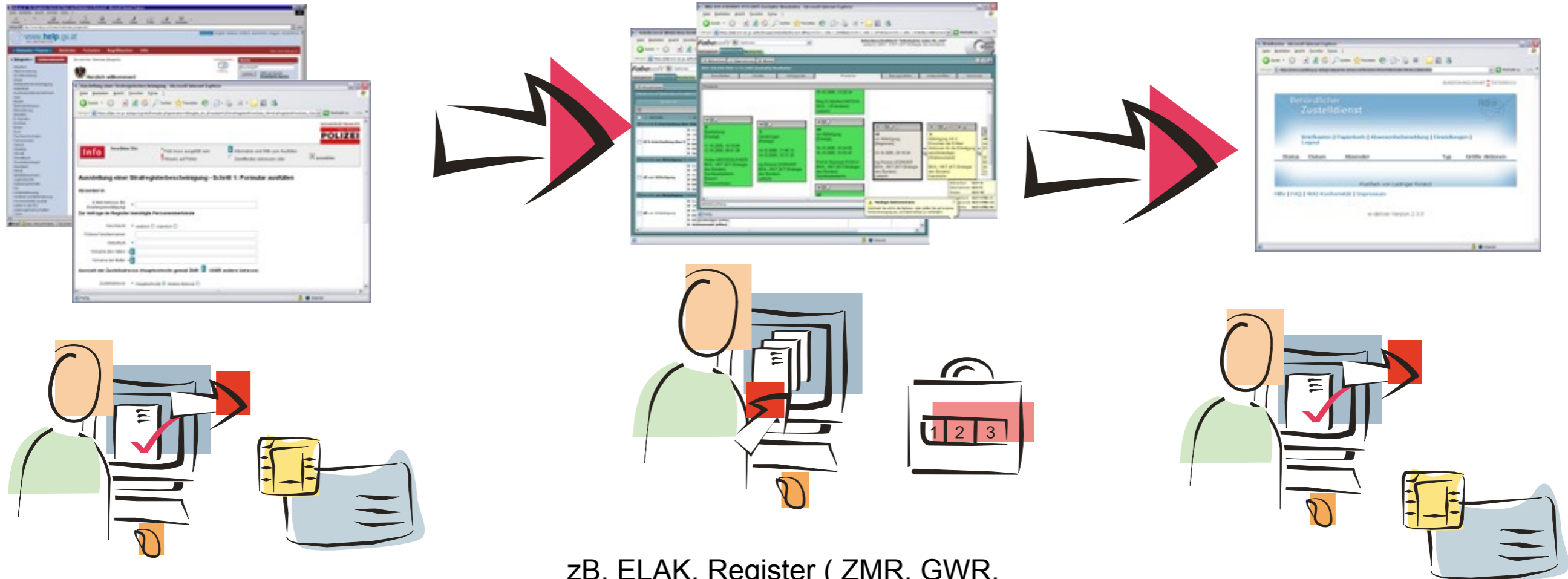
Signiert von	Für die Stammzahlenregisterbehörde Frau Dr. Waltraut KOTSCHY Datenschutzkommission
Datum	2006-11-09
Formular/Verfahren	urn:publicid:ersb.gv.at+auszug-1.0
Zertifikat	A-Trust Ges. f. Sicherheitssysteme im elektr. Datenverkehr GmbH, Österreich (01:52:24)
Signaturwert	YJlxhdii95/PhdTk/WGbbL3nP0IRITa7d0tW61koAGoF9aA9XZR0KAgTYC37OpW00W xs2sthq6eEhnylD8JHJ52nASVqp/xrYVSiLLFKoKeZFeOjB2Ve8onbRm3YA6W0D1H 2nsbVRyBtuou/QKJ9s5TAb/TkMsXP5eIKleTU0ZQDw=
Hinweis	Informationen die Rückführbarkeit der Amtssignatur in die elektronische Form und die dabei verwendeten Prüfmechanismen betreffend sind unter https://www.ersb.gv.at/ersb/auszug_validierung verfügbar.

Dieses Dokument wurde mit einer Amtssignatur versehen.

- * appearance and methods
- published in the internet



Seamless Process - Interconnected Portals



zB. HELP.gv.at,
USP.gv.at, Wien.gv.at etc.

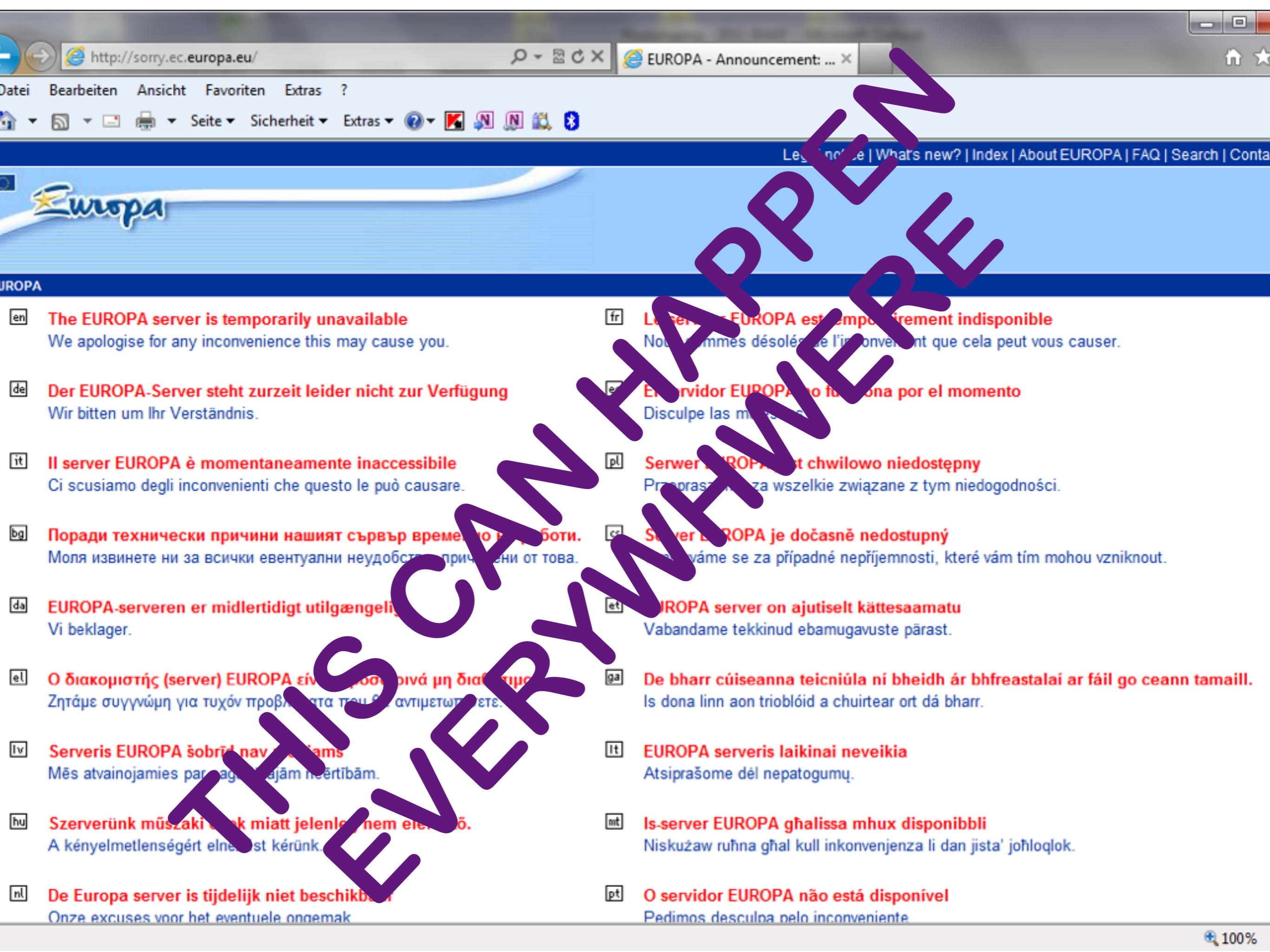
zB. ELAK, Register (ZMR, GWR,
Vollmachtsregister, Adressregister),
Finanz Online, sonstige Fach-
anwendungen etc.

www.bka.gv.at/zustelldienste

Portal

**Fachanwendung
/ Backoffice**

**Duale
Zustellung**

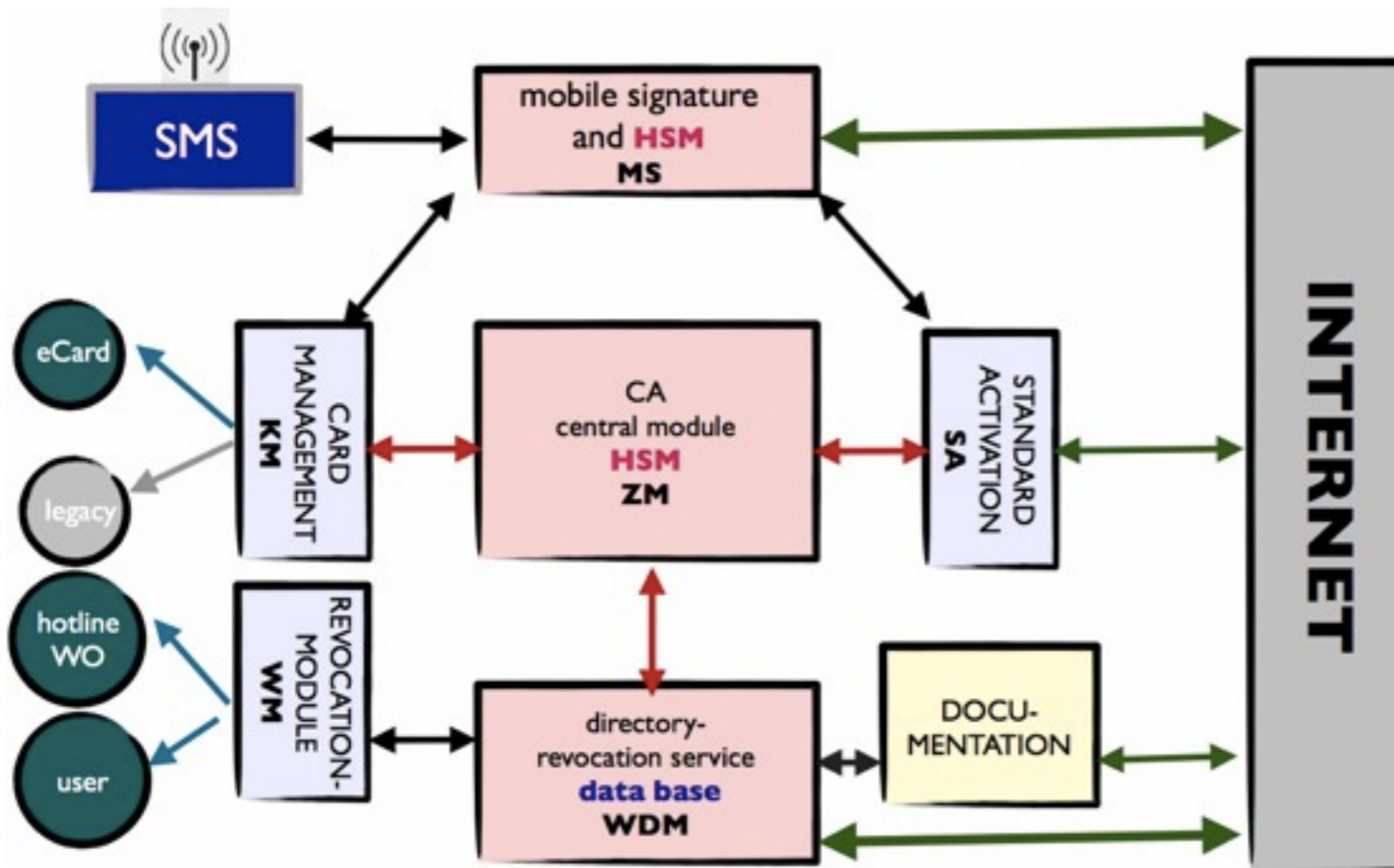


EUROPA

- en** **The EUROPA server is temporarily unavailable**
We apologise for any inconvenience this may cause you.
- de** **Der EUROPA-Server steht zurzeit leider nicht zur Verfügung**
Wir bitten um Ihr Verständnis.
- it** **Il server EUROPA è momentaneamente inaccessibile**
Ci scusiamo degli inconvenienti che questo le può causare.
- bg** **Поради технически причини нашият сървър временно е извън работи.**
Моля извинете ни за всички евентуални неудобства, причинени от това.
- da** **EUROPA-serveren er midlertidigt utilgængelig**
Vi beklager.
- el** **Ο διακομιστής (server) EUROPA είναι προσωρινά μη διαθέσιμος**
Ζητάμε συγγνώμη για τυχόν προβλήματα που θα αντιμετωπίσετε.
- lv** **Serveris EUROPA šobrīd nav pieejams**
Mēs atvainojamies par pagaidu traucējumiem.
- hu** **Szerverünk műszaki okok miatt jelenleg nem elérhető.**
A kényelmetlenségért elnézést kérünk.
- nl** **De Europa server is tijdelijk niet beschikbaar**
Onze excuses voor het eventuele ongemak
- fr** **Le serveur EUROPA est temporairement indisponible**
Nous sommes désolés de l'inconvénient que cela peut vous causer.
- es** **El servidor EUROPA no funciona por el momento**
Disculpe las molestias.
- pl** **Serwer EUROPA jest chwilowo niedostępny**
Przepraszamy za wszelkie związane z tym niedogodności.
- cs** **Server EUROPA je dočasně nedostupný**
Omlouváme se za případné nepříjemnosti, které vám tím mohou vzniknout.
- et** **EUROPA server on ajutiselt kättesaamatu**
Vabandame tekkinud ebamugavuste pärast.
- ga** **De bharr cúiseanna teicniúla ní bheidh ár bhfreastalaí ar fáil go ceann tamaill.**
Is dona linn aon trioblóid a chuirtear ort dá bharr.
- lt** **EUROPA serveris laikinai neveikia**
Atsiprašome dėl nepatogumų.
- mt** **Is-server EUROPA għalissa mhux disponibbli**
Niskuzaw ruġna għal kull inkonvenjenza li dan jista' joħloqlok.
- pt** **O servidor EUROPA não está disponível**
Pedimos desculpa pelo inconveniente

THIS CAN HAPPEN TO EVERYONE

CIIP - eID and eDOC become critical information infrastructures



TAKE OVER WITHIN 3-6 HOURS
IN CASES OF EMERGENCY

DOWNLOAD REVOCATION AND
SWITCH THE DNS ENTRY

**THE REALITY HAS
PROVEN THIS BEING
A SUBSTANTIAL MOVE**

DigiNotar B.V.

Intrekken Public certificaten 1-november 2011

Op 1 november jl. zijn de actieve (niet BAPI en 2 DigiNotar Private CA's) door DigiNotar uitgegeven public certificaten ingetrokken. Deze zijn niet meer geldig en/of bruikbaar. Het betreft specifiek certificaten uitgegeven uit:

* DigiNotar Public CA 2025 Serienummer: 1E7D 7A53 3D45 3041 9640 0F71 481F 4504
Geldigheid: van maandag 6 februari 2006 18:07:02 tot vrijdag 28 maart 2025 18:07:02
Certificate Fingerprint: 3F01 8E6F E336 096A 791B 81E7 69BE 701A AF21 E307

* DigiNotar DigiNotar Services CA Serienummer: 00F1 4A13 F487 2B56 DC39 DF84 CA7A A106 49
Geldigheid: van maandag 6 februari 2006 18:53:46 tot vrijdag 28 maart 2025 18:53:46
Certificate Fingerprint: 9432 BD9A EC1D 75D1 705C 543A A34C 4AF6 A526 C13D

new paradigmms for eGovernment can significantly increase efficiency and transparency.

THANK YOU FOR LISTENING!

Prof. Dr. Reinhard Posch
Bundeskanzleramt – Digitales Österreich
Ballhausplatz 2, 1014 Wien
reinhard.posch@bka.gv.at
www.bka.gv.at
<http://www.digitales.oesterreich.gv.at/>

