PSW GROUP

The Security Experts

Welcome to my presentation

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Internet Security Days 13. – 15.09.2011

Trust on over
10 years
experience

PSW GROUP & Co. KG

The security experts

- Founded in 2000

- Over 15.000 customers

- Services:

  - Seals of quality

  - Encryption

  - Authentication

  - Certification

  - Signature solutions

  - Compliance

Trust on over **10 years** experience

- Eleven years' expertise in SSL encryption methods

- Academic lecturer at University of Applied Sciences Fulda

- Activities:
  - Product management
  - Quality management
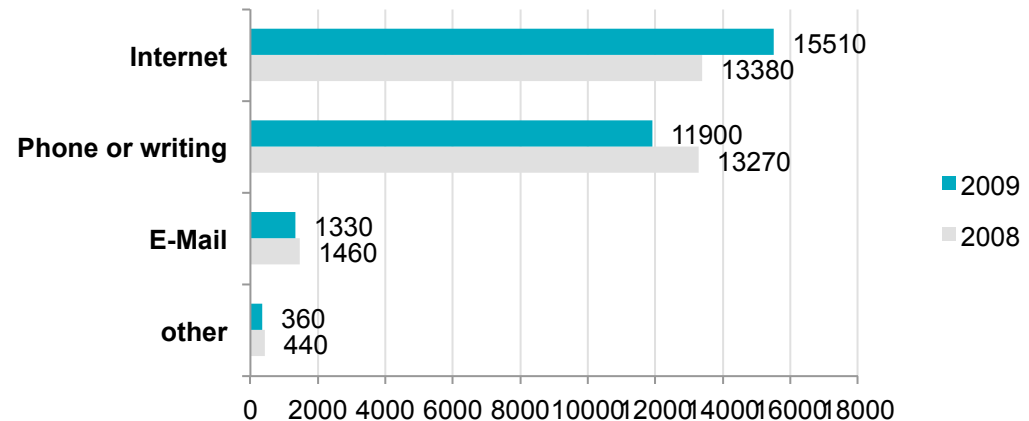 - Technical consultancy
  - Strategy management

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E-Commerce is booming
Take the advantage

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Forecast of sales in the German e-commerce

30 — 27,2
25,3
23,3
21,2
19,1
17,3

| 2009 | 2010 | 2011 | 2012 | 2013 | 2014 |
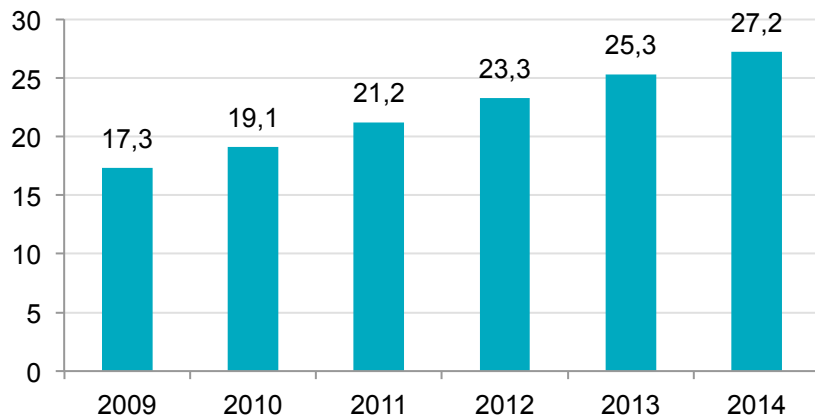
Source: Forrester Research, Western European Online Retail Forecast, 2009 – 2014, details in billion, 2010.

Sales by mail order channels

Internet: 15510 / 13380
Phone or writing: 11900 / 13270
E-Mail: 1330 / 1460
other: 360 / 440

2009 / 2008

Source: Internet World Business, 4/10, sales in million €, 2010.

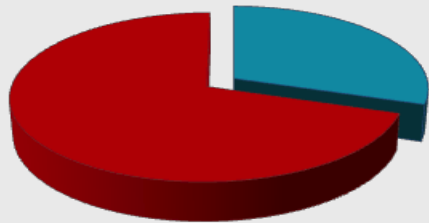■ For the first time, sales reached more than € 20 billion in 2011

■ Purchasing goods via the internet has become commonplace

Trust on over 10 years experience
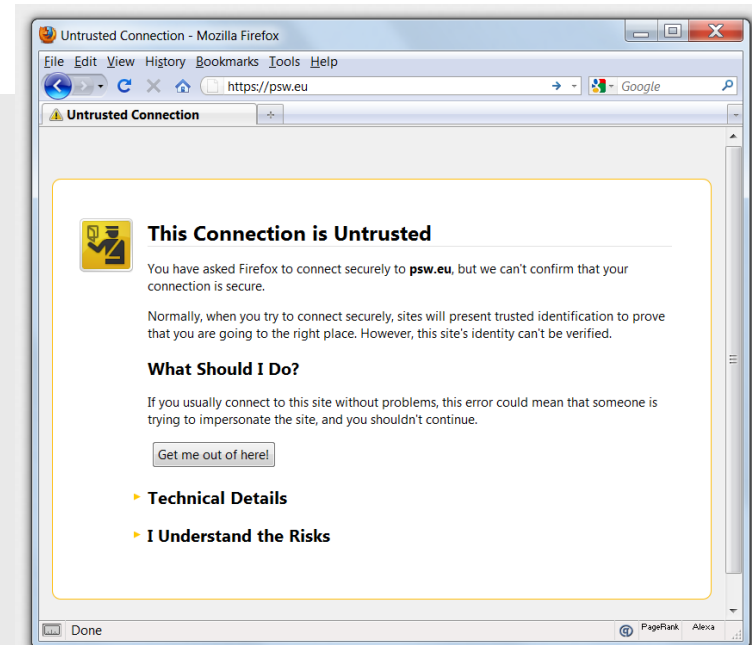
Security requirements are growing

Provide confidence to your customers

■ **70% have aborted because the shop did not appear secure**

Shop without security certificate

■ Customers
■ Lost Customers

This Connection is Untrusted

You have asked Firefox to connect securely to **psw.eu**, but we can't confirm that your connection is secure.

Normally, when you try to connect securely, sites will present trusted identification to prove that you are going to the right place. However, this site's identity can't be verified.

What Should I Do?

If you usually connect to this site without problems, this error could mean that someone is trying to impersonate the site, and you shouldn't continue.

Get me out of here!

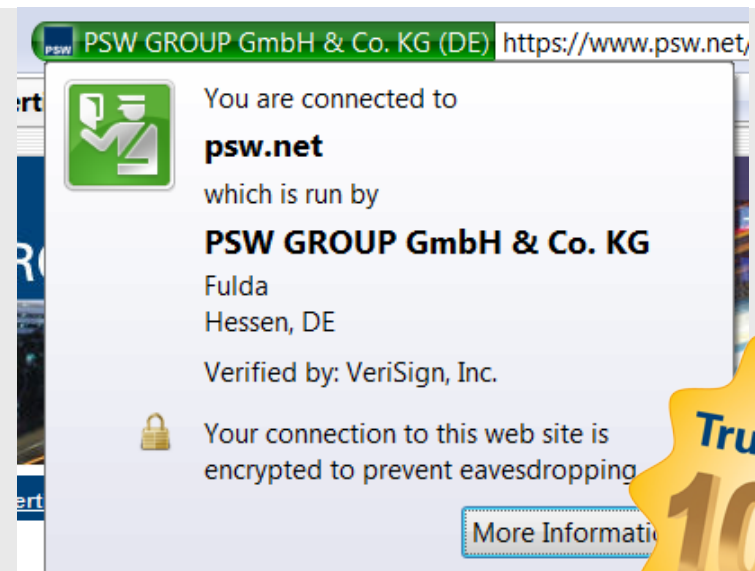▸ **Technical Details**

▸ **I Understand the Risks**

■ **53% would have continued if the website had displayed a security certificate or seal of quality**

Shop with security certificate

■ Customers
■ Lost Customers

PSW GROUP GmbH & Co. KG (DE) https://www.psw.net/

You are connected to
psw.net
which is run by
PSW GROUP GmbH & Co. KG
Fulda
Hessen, DE

Verified by: VeriSign, Inc.

Your connection to this web site is encrypted to prevent eavesdropping

More Information

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Benefit!

As customer or reseller of PSW

- ### For End-Customers

  - Secure infrastructures

  - Boost user confidence

- ### For Security Providers

  - PSW as specialist third-party supplier

  - Integration into own product portfolios

  - Large profit margin & no need for investment in own infrastructure

  - Low administration costs – thanks to API interfaces

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Products

Secure the Internet now!

Certification & Signature	Authentification & Communication	Website Security, Trust & Compliance
■ SSL certificates	■ eID services	■ Maleware scans
■ S/MIME certificates	■ Mobile phone as a token	■ PCI scans
■ Qualified digital signature	■ E-mail encryption	■ Trust seals
	■ De-Mail	■ Privacy-conform web tracking
		■ DNSSEC & Secure CDN

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SSL Certificates

Standard safety in online trading

- Up to 256-bit encryption

- Available versions:

1. Domain Validation

2. Identity Validation

3. Extended Validation (EV) – highest possible standard

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VeriSign®

COMODO Creating Trust Online®

GlobalSign™ GMO Internet Group

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SSL Certificates

Extended Validation (EV) – highest standard

- Strict authentication of the corporate identity

- Green browser address bar – immediate customer confidence

PSW GROUP GmbH & Co. KG (DE) | https:

You are connected to
psw.net
which is run by
PSW GROUP GmbH & C
Fulda
Hessen, DE

Verified by: VeriSign, Inc.

Your connection to this web sit
encrypted to prevent eavesdro

More Int

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S/MIME-Certificates
Sign e-mails

- Established worldwide

- Person and e-mail address based issuance

- Special forms: Team and gateway certificates

- Own certificate server

- Gateway solutions

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Qualified Digital Signature
Legal security & integrity

- Comcompliance according to §2 No. 2 SigG

- Meet tax requirements for electronic invoices

- New law means that signatures are not redundant

- Solution for single, batch or mass signature (including varification)

- Signature cards and card readers

- ASP: No hardware or software required

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eID Services
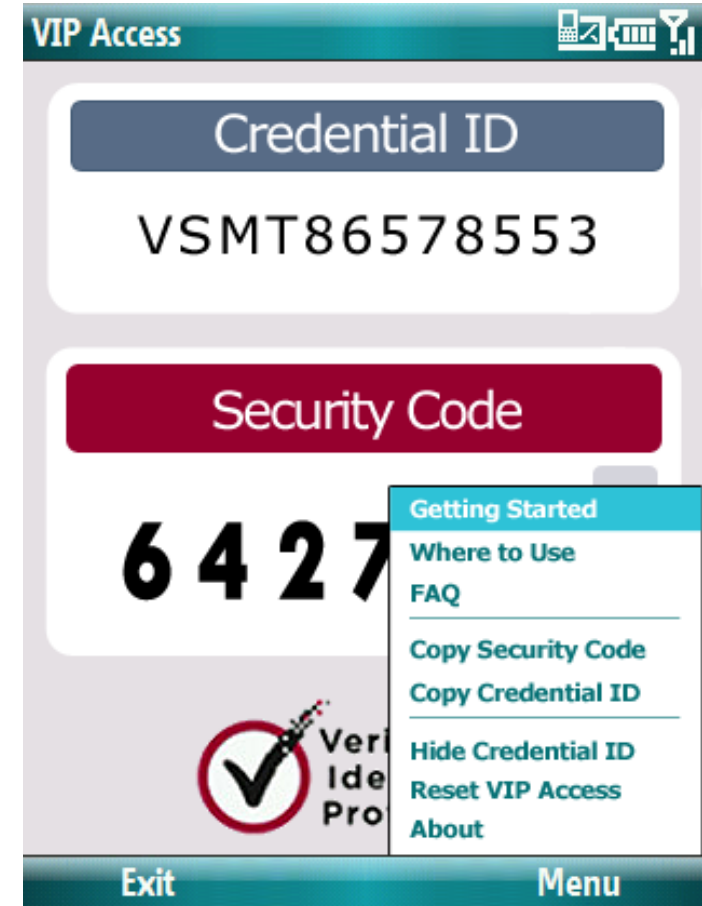
Benefit from the new identity card

- Available since Nov. 1st, 2010

- eID as proof of identity

- Ensures legal on-line activities

- Authorization certificates required

- eID-server as communications infrastructure – hosted in a BSI certified datacenter

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VIP Mobile
VeriSign identity protection access for mobile

- Two-factor authentication
- Mobile telephone becomes a token

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E-mail-Encryption
Confidential communications

- ■ PKI-based

- ■ Seamless integration into existing proccesses

- ■ Combination with e-mail signing possible

- ■ Solutions for key management

- ■ Encryption at the gateway

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De-Mail
Online-letter with government approval

- Binding and secure exchange of documents

- Optional: end-to-end encryption

- Automatic sending and delivery

- Transport only via accredited De-mail provider

- Access to De-mail infrastructure via PSW

De-Mail

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Malware scans

Guarantee and indicate the security and trustworthiness of a website:

- Simulated attacks and malware scans in a 24 h cycle
- PCI scanning
- Online-only tool
- Reporting functionalities

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PCI Scan
Increase traffic, sales & loyalty

- Weak point scanning
- Full payment card industry (PCI) compliant
- Recommendations how security gaps can be plugged
- Credit card trust logo

PCi Security Standards Council ™

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Trust Seals

Increase traffic, sales & loyalty

- Legal audit

- Buyer protection

- Independent customer review system

- Google Shopping integration

- Complaint management

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Web Tracking

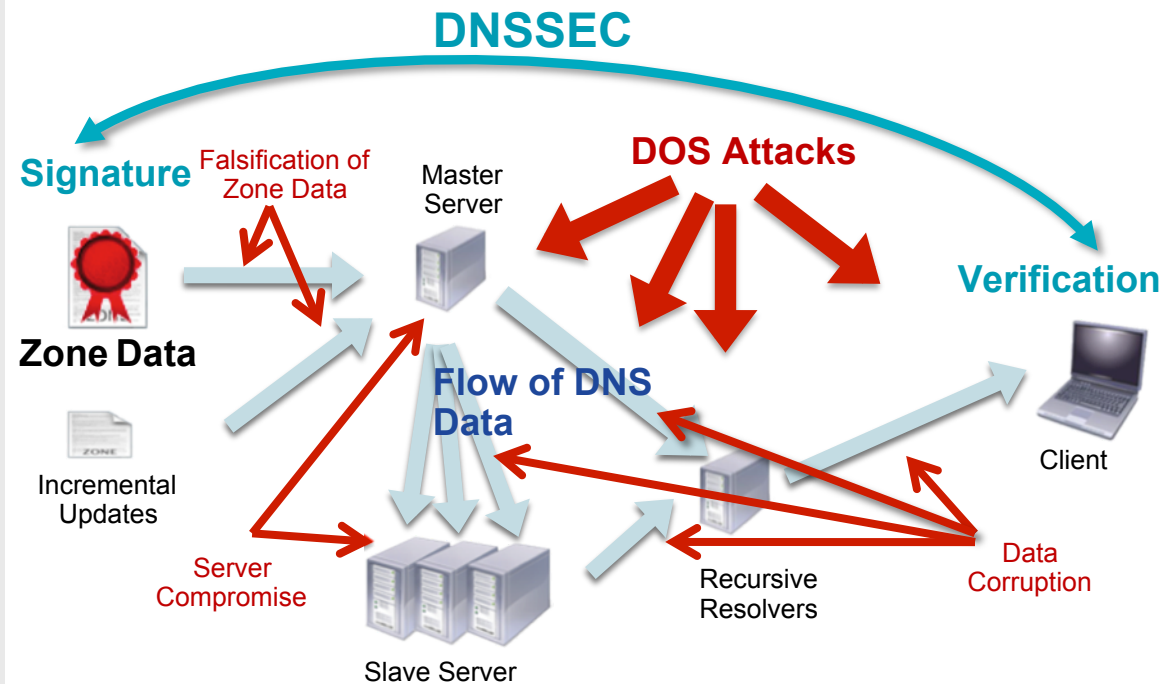## Respect your users´privacy

- Compliant with privacy protection requirements

- Application of pixel technology

- No cookies

- Simple integration via html code

- Comprehensive web analytics to improve user experience

ANALYTICS

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DNSSEC

Effective protection for domain name system

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- **DNSSEC guarantees authenticity and integrity of the data in DNS**

- **DNS response + digital signature = DNSSEC**

DNSSEC

Signature — Falsification of Zone Data — Master Server — DOS Attacks — Verification

Zone Data

Incremental Updates

Flow of DNS Data

Server Compromise

Slave Server

Recursive Resolvers

Data Corruption

Client

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Secure CDN
Secure Content Delivery Network

- Delivery from points of presence (POPs) in immediate proximity to the most important Internet nodes worldwide

- Security functions:

- Using HTTPS

- Token authentication

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PSW GROUP

Your partner for internet security

- Advantages for our customers

- One step ahead

- Instant access to all major PSW products

- Top margins for merchants

- 24 hours / 7 days a week / 365 days

- Support in major languages:
  German, English, Spanish and Polish

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