

IS YOUR ONLINE BANK REALLY SAFE?



Zoltan Szalai eBanking Solution Manager

It all starts with trust.



Gemalto for You



About Gemalto

Over €2 BILLION in Revenue in 2011
 €250+ MILLION Software and Value Added Services
 BILLION Intelligent Cards Produced and
 Personalized on a Yearly Basis
 14 R&D Centers
 1,400 Scientists

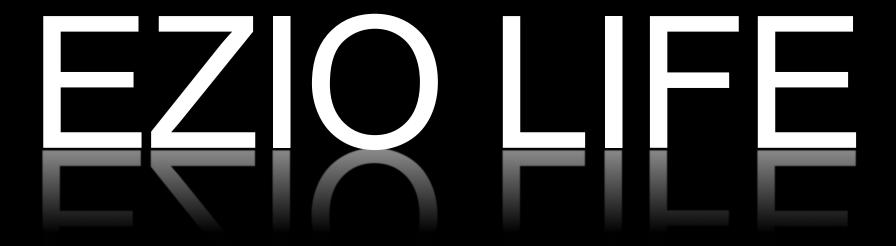
15 Production Sites
28 Presonalization Centers
74 Sales & Marketing Offices
10,000+ Employees
100 Nationalities
43 Countries

Gemalto eBanking

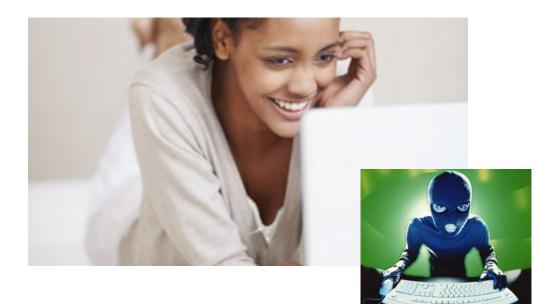
The acquisition of Xiring and Todos positioned Gemalto as the leader in the eBanking World.

- **~ 150** CUSTOMER BANKS
 - **50+** MILLION USERS
 - **40+** MILLION DEVICES
 - **120** EMPLOYEES









eBANKING ATTACKS -STILL EVOLVING





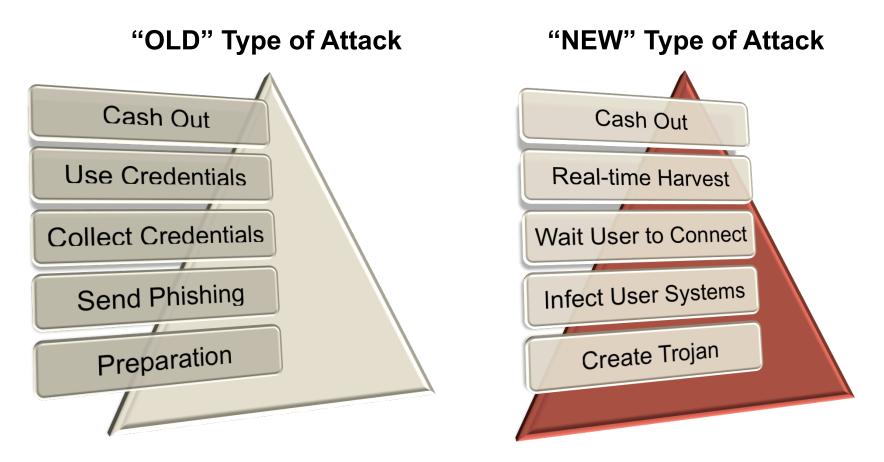


Bassword¹



eBanking Fraud is Changing

SIMPLE PHISHING >>> SOPHISTICATED MALWARE



31% of EU internet users were infected by worm or Trojan in 2010



eFraud Attacks Become Smarter

THE eBANKING THREAT IS ADAPTING



Dear valued customer of Trusted

We have recieved notice that you following amount from your chec

If this information is not correct, s account. As a safety measure, pl your personal information:

http://www.trustedbank.com/gen/

Once you have done ____our fra discrepency. re happy you

Thank you, TrustedBank



Zeus Trojan hit hard Marcia S

Published: 08 Sep 2009

A Trojan that steals online banking successful piece of malware, acc

Informati

Zeus is the "biggest baring Troj of marketing at 🔼 🔪 Alto, Calif.-k It company webcas during 2 rt's a money-stealing mach

Also called Zbot, Zeus and its var

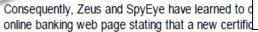


5 April 2011, 17:13

Attacks on German mTAN k

Anti-virus software vendor F-Secure is reporting SpyEye uses sophisticated methods to intercept m brother Zeus[2], SpyEye appears to have its

The mTAN[3] procedure, introd _____oy many Ger considered insecure in the bank sending a t previously set mobile phone number. An online is left ... no opportunity to interfere with this data



mobile phone. The user is asked to enter their mobile phone number and IMEI. A little later, they receive a message containing what purports to be an installer for the new certificate. If they launch the installer, the following message (in German) is displayed: "Die Seriennummer des Zertifikats: 88689-1299F" (The serial number of the certificate: 88689-1299F).

machines at a steady clip this spring, said Ben Greenbaum, senior manager in the security response unit at Symantec Corp. The malware is easy to configure and widely available on the Internet, with prices ranging from a couple hundred dollars to free, he added.

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TAN, iTAN, other simple OTP



FEDERAL BUREAU OF INVESTIGATION

Malware Targets Bank Accounts 'Gameover' Delivered Via Phishing E-Mails

01/06/12



Cyb you invo Auto Fed Insu reci to th The bec

use

methods of user authentication employed by financial in bank account, it's definitely "game over."

Gameover is a newer variant of the Zeus malware, which targeted banking information.

eFrauds in the Region







Cybercrime in Russia: Trends and issues presentation by ESET and Group-IB at CARO in 2011



Phishing Sites are in the Corner







LEARNINGS FROM eBANKING ATTACKS & eFRAUD





Weakest eBanking solution is attacked and hit the most

Kernel Stand Stand Stand Stand Stand Stand Stand Standard Stand



Learnings from eBanking



There are always some eBanking customers who fall into some trap

User device popularity attracts attackers (at first)

Customers systems cannot mustn't be expected to be secure



Learnings from eBanking



Attackers are persistent if they find a profitable victim

XAttackers are adapting to increasing eBanking security measures (over time)





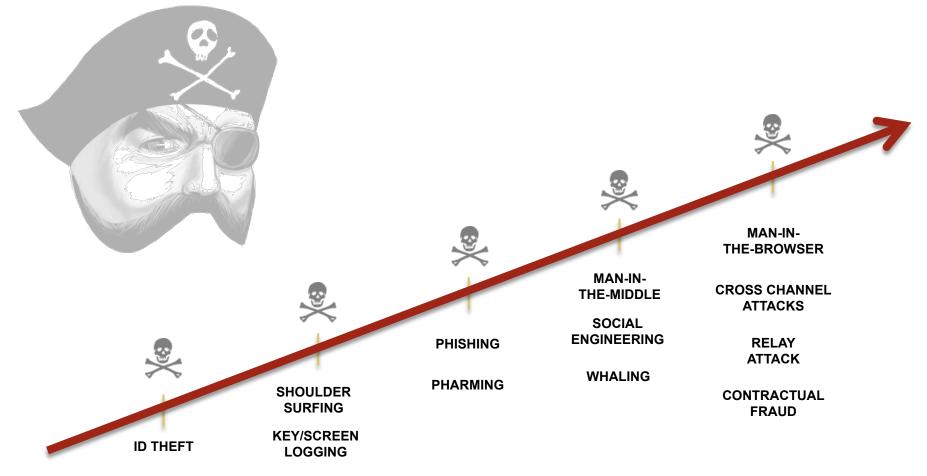
FRAUDS & MITIGATION



Gemalto eBanking Security

Identifying Business Needs...

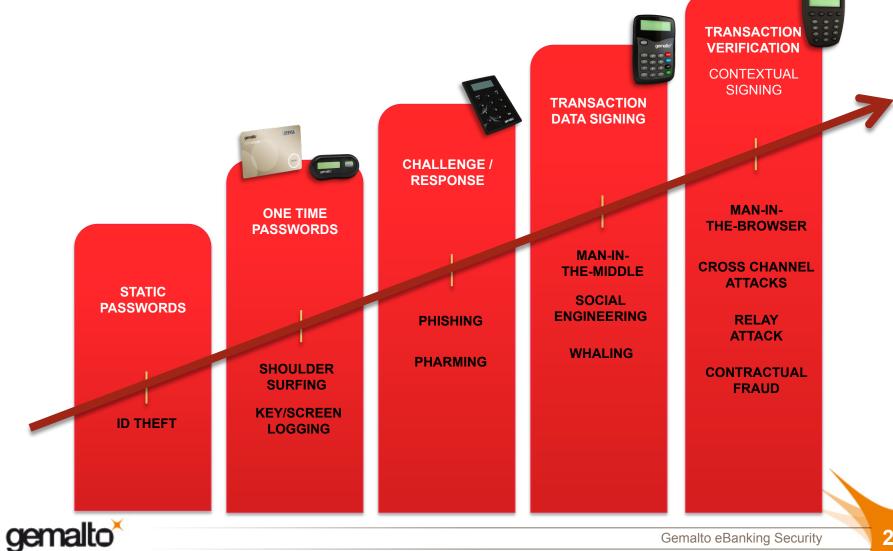
eBANKING FRAUD IS GETTING MORE AND MORE SOPHISTICATED





...and Showing How we Meet the Needs

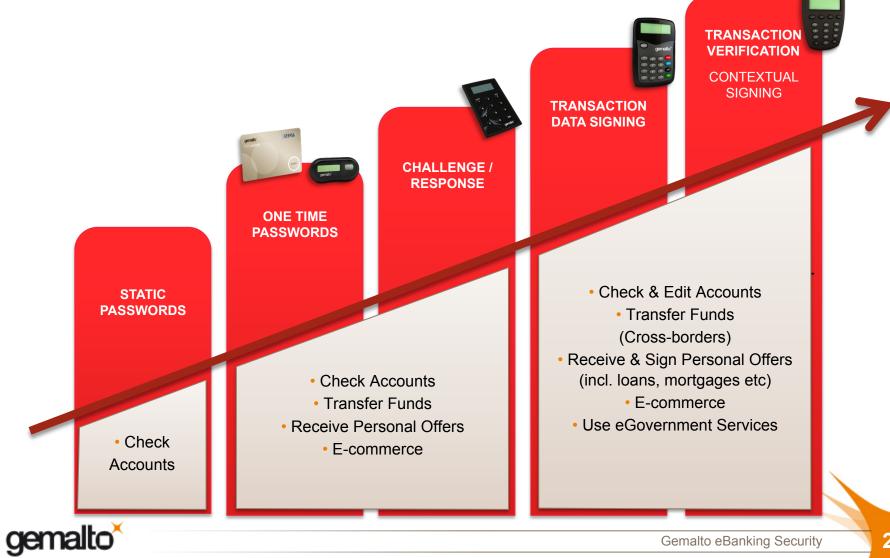
USER-FRIENDLY MITIGATION OF ALL CURRENT AND FUTURE THREATS



Gemalto eBanking Security

...and What Services Banks Can Offer

TO GROW THEIR BUSINESS ACROSS ALL DIGITAL CHANNELS



GEMALTO'S SOLUTION

Ezio System

gemalto



All Banks Follow the Same eBanking Path

...WE LIKE TO CALL IT THE EZIO WAY



Ezio Highlight: Segmentation

EVERY E-BANKING USER IS THE SAME. HIGHLY INDIVIDUAL.











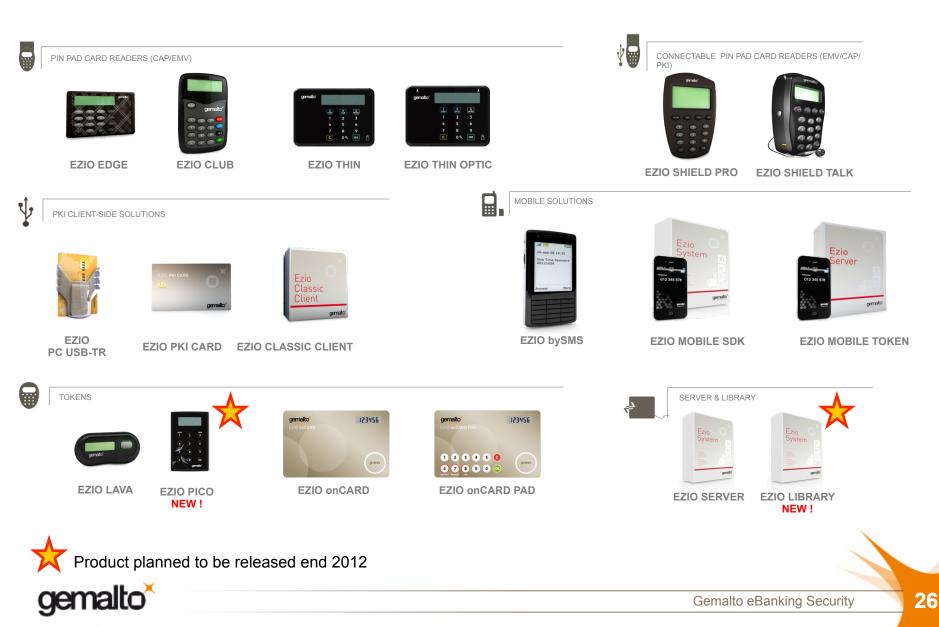
Ezio Highlight: Segmentation

LEVERAGE THE INDIVUALITY OF YOUR CUSTOMER BASE





Ezio Suite



User-friendly Technology





5

432

Why Gemalto Solution?



Local References

<u>ДЕЛЬТА</u> Банк	



Bank	Scope	Status
Delta Bank	100k SMS	In progress
Raiffeisen Aval	100k SMS 5k tokens	Done In progress
BM Bank	5k tokens	In progress











It all starts with

Sarah



SUMMARY



Gemalto eBanking Security

31



KeBanking Security

- Attackers are very creative in tricking online banking customers
- eBanking fraud is still evolving
- Banks has to learn to adequately improve eBanking security over the years



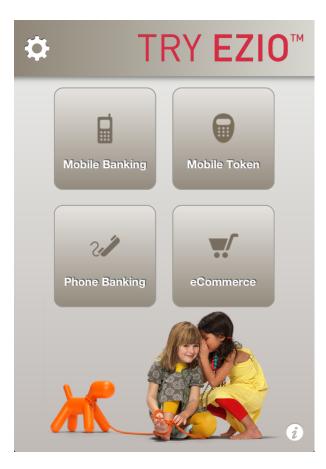


Thank You!



Mobile Bank

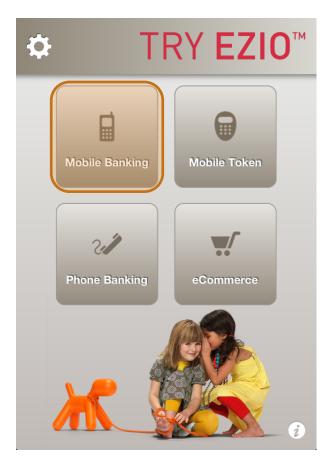
Main Menu





Mobile Bank

Mobile Banking





Mobile Bank

Mobile Banking

Cancel TRY EZIO [™]	Gancel	TF	RY EZIO™	Logout TRY EZIO [™]
User ID	PIN Code Required User ID Please enter your PIN code.			National payment >
zszalai Challenge Response	zszalai Challenge	••••		International payment >
3930 9210	S ^S Canc	el	ОК	Personal account (62 45 38) 1694.30 EUR
Log in			Log in	Savings account (62 49 78) 8000.00 EUR
	1	2 АВС	3 Def	Company account (62 91 10) 24837.00 EUR
	4 GHI	5 JKL	6 ^{MNO}	
	7 PQRS	8 тиv	9 wxyz	
gemalto		0	×	gemalto*

