

About me



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Agenda

- What is **Digital Trust**?
- Why we need trust?
- Zoom on two trust services:
 - Electronic Identification and KYC
 - Electronic Signature



Trust services are defined in a regulation



elDAS defines 5 trust services on top of elD





The need for secure electronic identification



The need for secure electronic identification



BULLSHIT BANKING

German fintech poster child N26's major security gap

German banking startup N26 is winning over customers and investors with its pledge to offer "banking without the bullshit." But a security test shows how easy it is to open an account under a false name.





When was this editorial cartoon published?

"On the Internet, nobody knows you're a dog."



The need for secure electronic signature





Souscrivez votre contrat d'assurance en ligne avec la signature électronique sécurisée

Simple, efficace, sûre : la signature électronique des contrats d'assurance par cmonassurance





Contestation d'une signature électronique

La Cour de cassation apporte des précisions sur la validité d'une signature électronique sur un document d'adhèsion à une assurance complèmentaire.

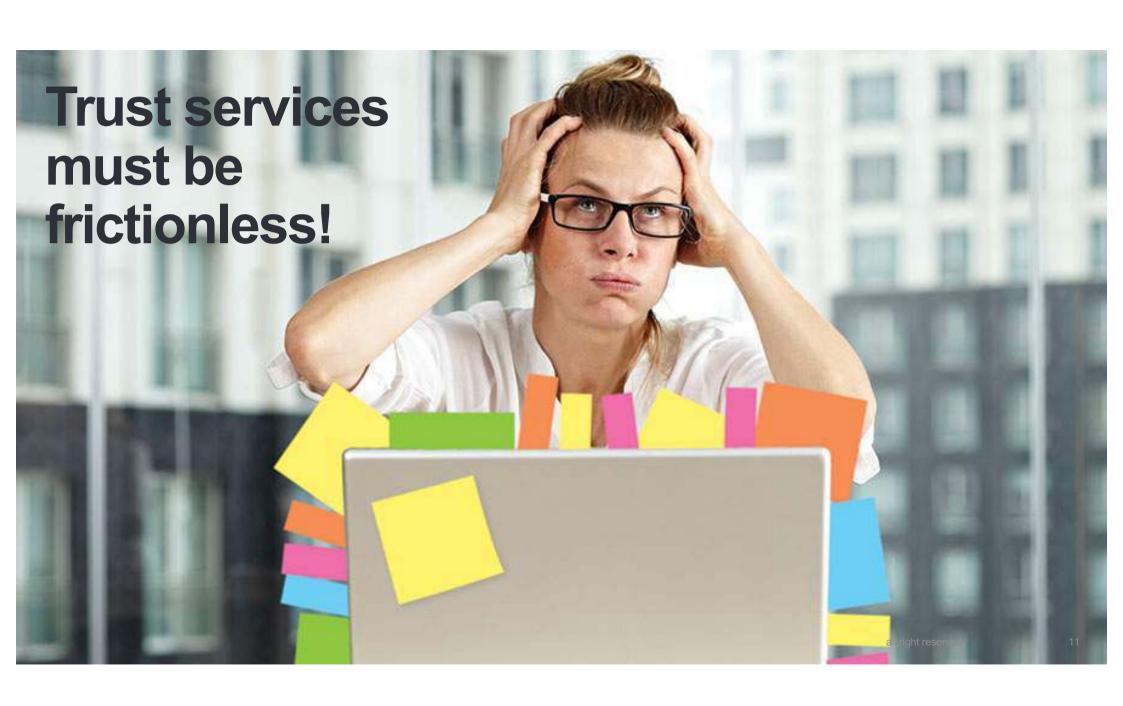
Un homme a fait opposition à une ordonnance rendue en 2013, sur requête d'une société. Cette ordonnance la condamnait à payer une certaine somme au titre d'une demande d'adhésion internet à une assurance complèmentaire. Le demandeur confestat l'avoir signée.

Le 11 février 2014, la juridiction de proximité de Montpellier a rejeté sa demande. Elle a referiu que la signature avait été identifiée par un procédé trable garantissant le lien de la signature avec l'acte auquel alle s'affachait dès lots que la demande d'adhésion portait mention de la délivrance de ce document par une plateforme de contractualisation en ligne permettant l'identification et l'authentification des signataires.

Le 6 avril 2016, la Cour de cassation a rejeté le pourvoi.

Elle précise que le jugement retient que la demande d'adhésion sous torme électronique à été étable et conservée dans des conditions de nature à garantir son inflighté. La signature à été identifiée par un procédé fieble garantissant le lien de la signature électronique avec l'acte auquel elle s'attache. Enfin, la demande d'adhésion produite à l'audience porte mention de la délivrance de ce document par la plate-forme de contractualisation en ligne, permettant une identification et une authentification précise des planataires.

La Cour de cassation estima donc cu'en effectuant la recherche prérandument omise, la juridiction de



Qualifying question

Type the two words:

Just to prove you are a human, please answer the following math challenge.

Q: Find the least real zero of the polynomial:

$$p(x) = (x-6)(x-3)(x-2)(x+7)(x+7).$$

A: mandatory

> Note: If you do not know the answer to this question, reload the page and you'll (probably) get another, easier, question.

> > Get a new challenge

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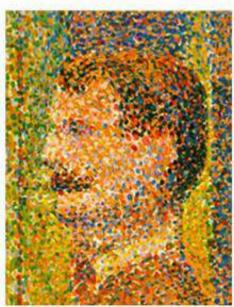
Name:

Email:

Comment:

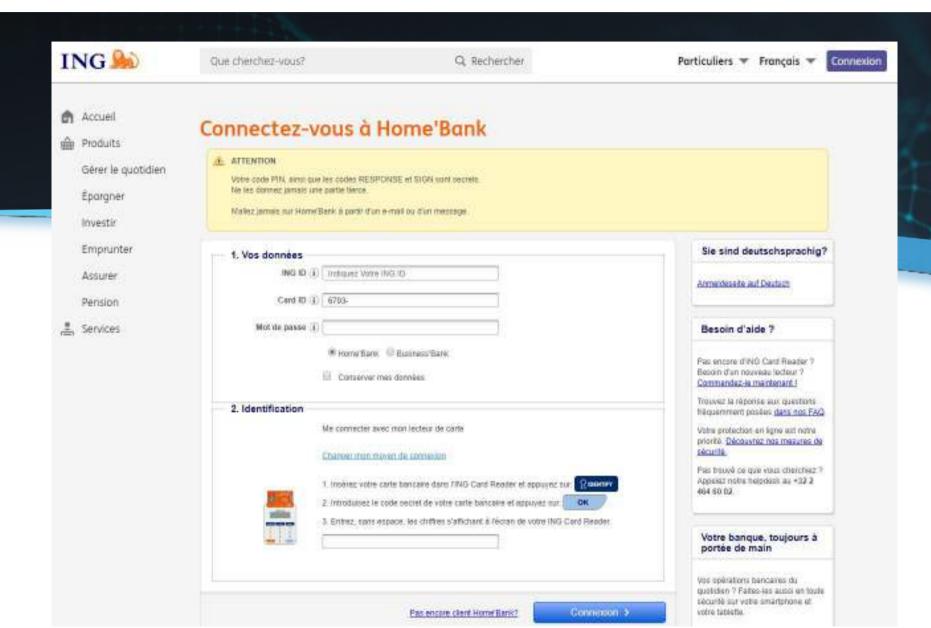


Security question:



Paint what you see by using the mouse below







Avant d'ouvrir votre compte bancaire, vous pouvez prendre connaissance des conditions, guides et terifs Orange Bank

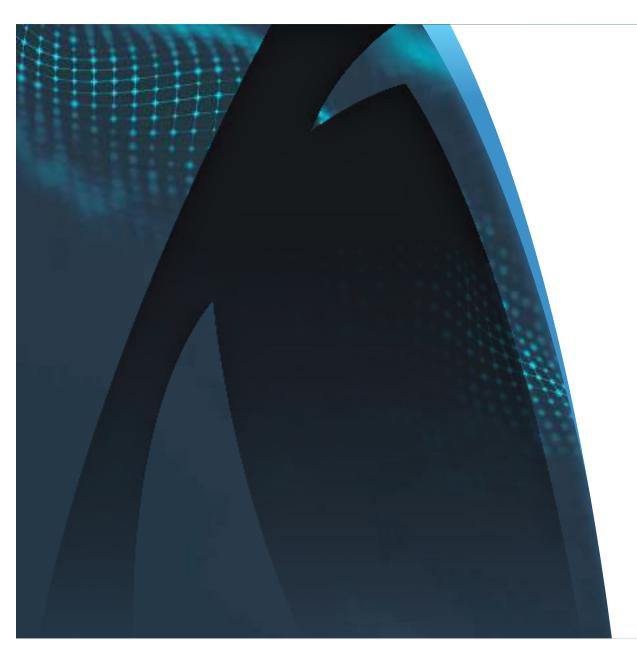
OK, c'est parti



elDAS defines 5 trust services on top of elD







Electronic identification and KYC

KYC objectives



Verifying customers' identity



Assessing their suitability

Question

What is a verified identity?

Criterias are defined by a specific elDAS regulation





CIR 2015/1502

Three levels are defined by the legislation







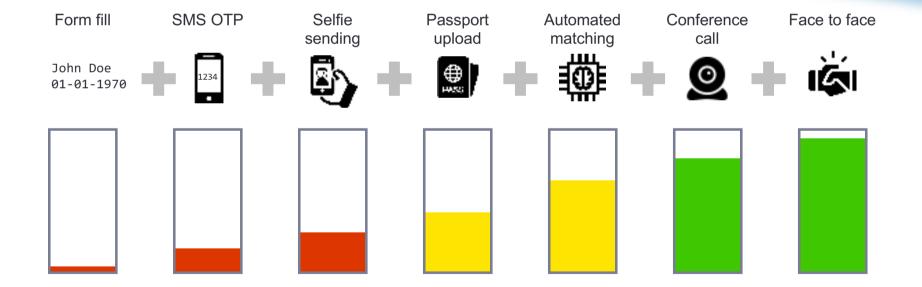






Ramping up the levels

On the ID proofing aspects



Which level for me?

The eIDAS regulation is expecting a high level for financial transactions

(but it is only a guidance to other regulatory bodies)

Implementing the KYC process



"Do it yourself"







Use an identity provider

Doing your KYC process yourself

- 1. Define the level you want to reach
- 2. Define the id data you want to collect
- 3. Define the validation sources
- 4. Define the validation checks
- 5. Define how will be managed false-positives and false negatives

Performing ID proofing



Two solutions





Human intelligence

Artificial intelligence

Pros and Cons



- Very fast to start
- More complex judgement
- Fatigue degrades performance
- Slow
- Hard to deal with unfamiliar faces



- Never tires
- Faster
- More precise and quantitative

- No clear feedback on failure
- Needs to be trained
- More implementation cost

Artificial intelligence proofing today

There is quite a few players











Artificial intelligence proofing today

Considerations to take when choosing a product

- What are the checks performed?
- Are they connected to third-parties?
- What kind of output is provided?
- What are the supported official documents?
- How seamless is the integration?
- What is the failure rate?

Conclusion

1

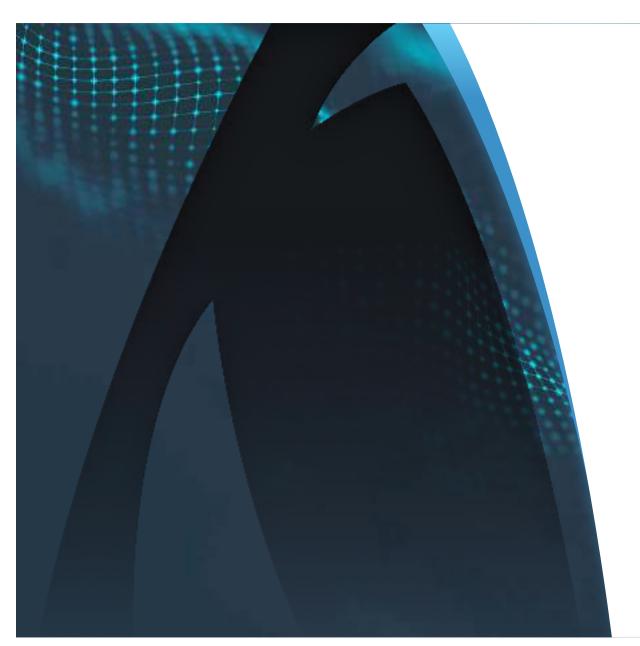
Define the level of assurance needed

2

Decide if you internalize or externalize KYC

3

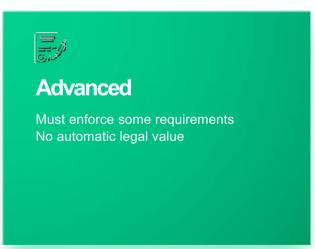
Make sure your KYC implements the minimum eIDAS requirements



Digital signature









Don't do qualified signature yourself!

You will have to:

- Get accredited (long process)
- Implement an ISMS (ISO 27001 with extra requirements)
- Prove that you have sufficient financial resources
- Use qualified hardware
- And many more!

Use a partner







CITRIX. **Right**Signature





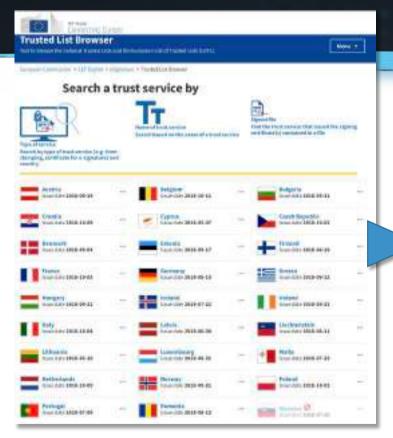


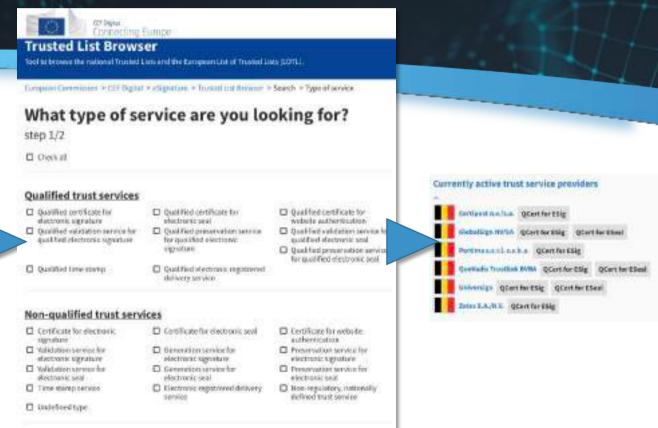
When choosing a solution, think about

- Is the solution generating eIDAS qualified signatures?
- How is the identity provided?
- How handy is the solution for the signatory?
- How the solution integrates to other products?
- What kind of files can be signed?

Looking for a partner?

Qualified partners are listed on the EU website





Conclusion



Need support? We would be glad to help you!

Digital Identity & Trust Services are key items of our portfolio of solutions

Governance, Risk & Compliance	Security Assessment	Secure Development	Infrastructure Security	Operational Security	Digital Identity & Trust Services
CISO as a Service	Penetration Testing	Secure Software Factory	Cloud Security	Cyber Emergency Services	Digital Identity Solutions
ISO 27001 Certification	Security Maturity Assessment	Staff Augmentation	Web Application Firewall	Forensics & Malware Analysis	IAM Solutions Integration
GDPR	Architecture Review	Secure Development Methodologies	System Hardening	Training & Coaching	Electronic Signatures
Business Continuity	Third Party Risk Assessment	Secure Code Review	Endpoint Security	Security Awareness	Other elDAS Services

Thank you!

Let's keep in touch



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Linked in





