

# Enterprise / Insurance Companies



Safe Online Operations



# Introduction: Meet the presenter



**VP  
Strategic  
Sales - EMEA**

**Senior Executive  
GlobalSign - Belgium**

## RONALD DE TEMMERMAN

**T** +32 (0) 16 891908 | **M** +32 (0) 495 581037

**Email:** [ronald.detemmerman@globalsign.com](mailto:ronald.detemmerman@globalsign.com)

**Web:** [www.globalsign.com](http://www.globalsign.com) | [www.globalsign.eu](http://www.globalsign.eu)



**GlobalSign NV** | Martelarenlaan 38 | Leuven | B-3010 | Belgium  
**GlobalSign Ltd** | Springfield House | Sandling Road | Maidstone | Kent | ME14 2LP | UK

## CIE of Lebanon (CIEL) / GlobalSign

Tel: +961 1 28 5666 x 201

Cell: +961 71 28 5666 x 201

<https://www.globalsign.com.lb>



**Dr Salah A. Rustum**  
President

- Introduction
  - Presenter
  - Setting the Stage
  - About GlobalSign
- CA Services, an overview
- Identity & Access Management solutions
  - Insurance Business – IAM Changes
  - Sample Customers & Use Case
- PKI to Rescue
  - Role of Identity & Security
  - Fully automated, scalable PKI solutions
- AATL - Document Signing Solution



- Privacy, safety, and security are becoming more distinguishing factors in ANY consumer related business and for most industrial applications
- Increased Threats, Compliance Security is key
- The value of your business transactions cannot be realized without the implementation of strict (device) security and identity mechanisms
- Leverage existing technologies to build security and identity into the Insurance ecosystems

# Identity for Everything™

Identity is Fundamental to Online Security.

GlobalSign uses its managed PKI & IAM experience and technology to build high-volume, high-scale identity management solutions for the billions of devices, people and things comprising the Internet of Everything.



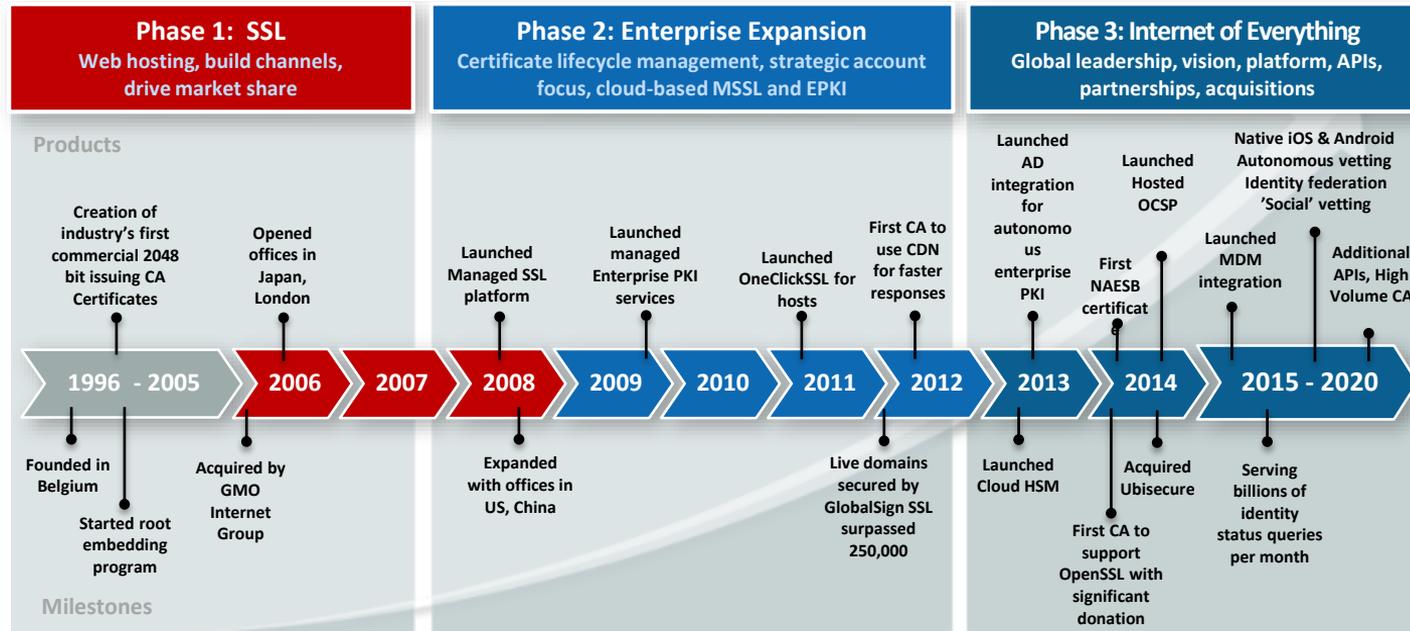
**GlobalSign** ∞  
GMO INTERNET GROUP

# About GlobalSign

GlobalSign®



# Progress towards the mission

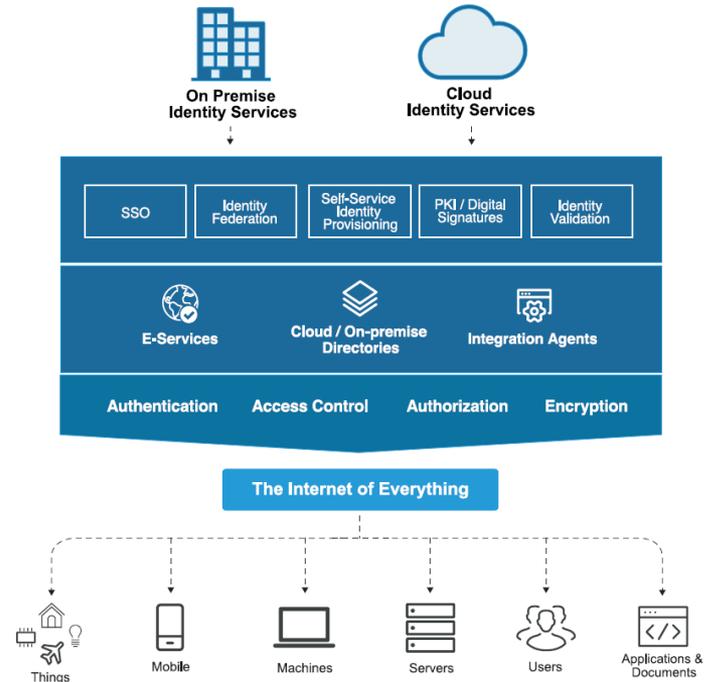


**kuppingercoie**  
ANALYSTS

"GlobalSign is a Product Leader. Innovation Leader."

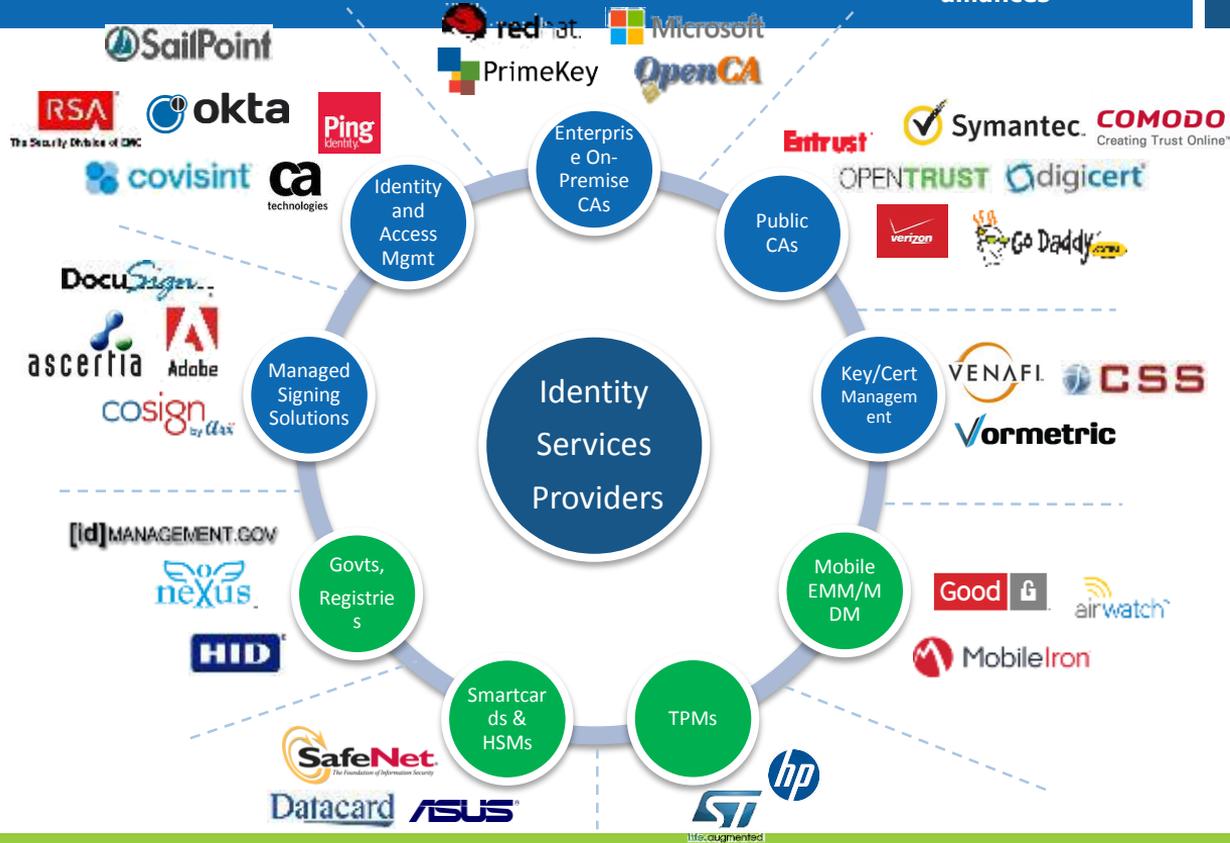
# Challenges GlobalSign solves

- Increase security and online trust by providing strong identities
- Reduce costs and time taken to deploy enterprise wide PKI
- Manage certificate related risk (weak crypto, expirations, self-signed, unknown inventory)
- Reduce time taken to deploy IAM solutions from months to weeks
- Manage high volumes of identities for IoT/loE deployments



# Identity Service Ecosystem

- Core GlobalSign Solutions
- Serviced via technology alliances



# Example Customers & Partners

## CA Services



## PDF Signing Service Providers



## Partners



# Technology & Solutions



- High-volume, high-scale identity management
- Cloud and on premise solutions
- Ease of deployment, automation capabilities
- Integration with enterprise services



CA Services



Identity and Access Management

# GlobalSign CA Services

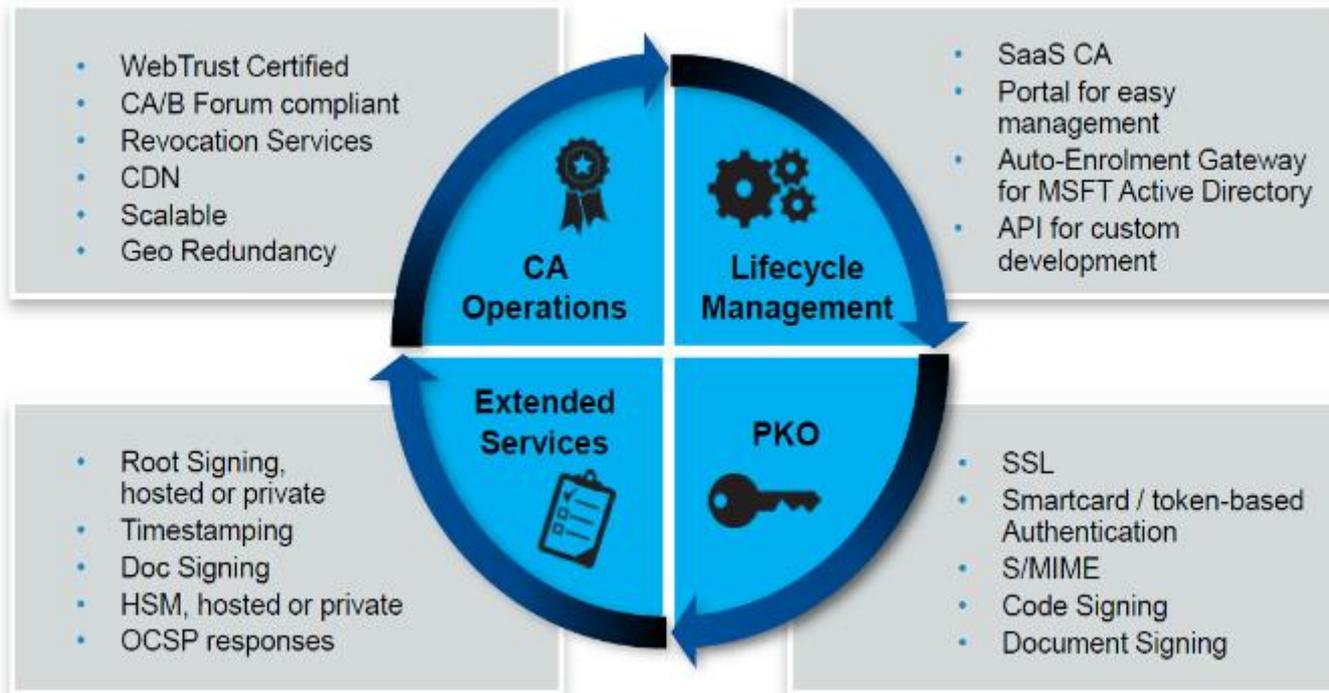


Digital certificates  
PKI Development

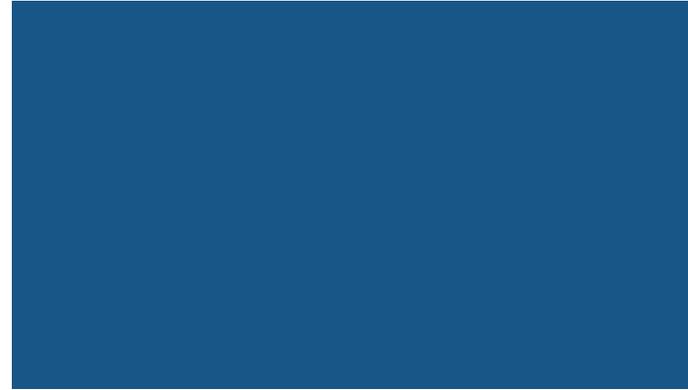


- Holistic approach to enterprise Certificate Lifecycle Management to reduce risk and ensure compliance
- API driven automation of high volume PKI deployments with AD integration and MDM agents, ideal for IoT use cases
- Various pricing / business models (unlimited issuance licenses, deposit method, pay-as-you-go)
- Full suite of CA services (timestamping, Hosted OCSP, Hosted HSM, root signing, etc.)

# CA Platform continues to evolve



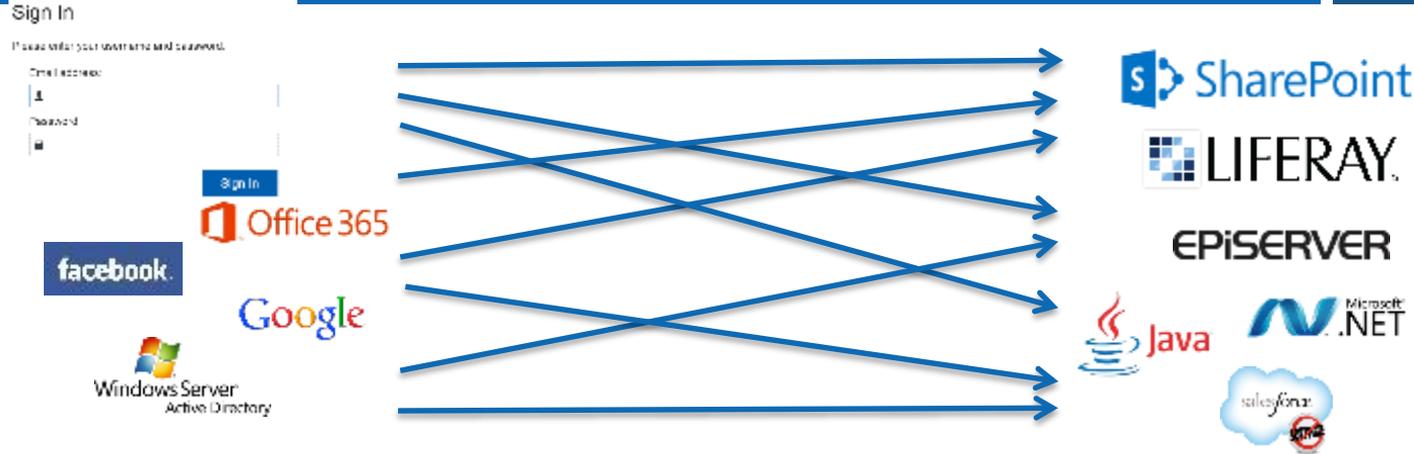
# GlobalSign - Identity and Access Management Solutions



Customer-Centric Out-of-the-box IAM solution  
for *securing e-Services*



# 1) eService Provider Challenges



- Multiple eService specific credentials / passwords
- On-boarding inconvenient for the user and costly for you
- User identity management creates customer service costs
- Difficult to determine if user is authorized to access the service
- Online transactions are costly to confirm

# 2) Identity and Access Management Evolution

## Employee-Centric IAM



Flat

- Internal, employee focus
- HR and IT driven
- Access based on job role
- Process and cost efficiency

## Customer-Centric IAM



Connected

- External, customer focus
- Marketing and on-line driven
- Access based on relationship
- Customer intake and efficiency

# 3) Improving the User Experience

Customers can manage their own identity lifecycle

- Bring your own ID, identity self-service
- Tiered delegated administration

Convenient access to online services

- Web SSO
- Role based access
- Federation
- Social Login



# 4) Actionable Business Intelligence

## How Well Do You Know Your Customers?

- Leverage your IAM solution to update your customer data
  - Customer data is your greatest asset
  - No visibility into customers identity lifecycle
- Bi-directional data syncing
  - Customers maintain identity

The image shows a user registration form with the following fields: First name, Last name, SSN, Mobile phone number, Email address, Password, and Password confirmation. A modal dialog titled 'Email Address Confirmation' is open, displaying instructions: 'You should have received a confirmation code via an email message. Enter the received code to the 'Confirmation Code' field. Then press the 'Check Code' button.' The dialog includes a 'Close' link and a 'Check Code' button. Below the form, there are 'Cancel' and 'Next >' buttons.

# Changes in the Insurance Business...

- “...technological change has created new and potentially superior distribution and communication channels that are changing both the nature of the business and relationship management.” – *PWC*
- “Eventually, insurers will need to position themselves to respond quickly to changing customer expectations in an increasingly digital and connected life.” – *InformationWeek*



- “Right Here, Right Now” Expectations
- Omni-channel & Self-service
- Multiple Personas Per Customer
- Strict Compliance Requirements
- Providing Appropriate Access



Able to address industry trends:

- Flexible & Scalable
- Extensive APIs
- Service contracts for Delegated Role Management
- Extensive Authentication Methods
- CRM Integration

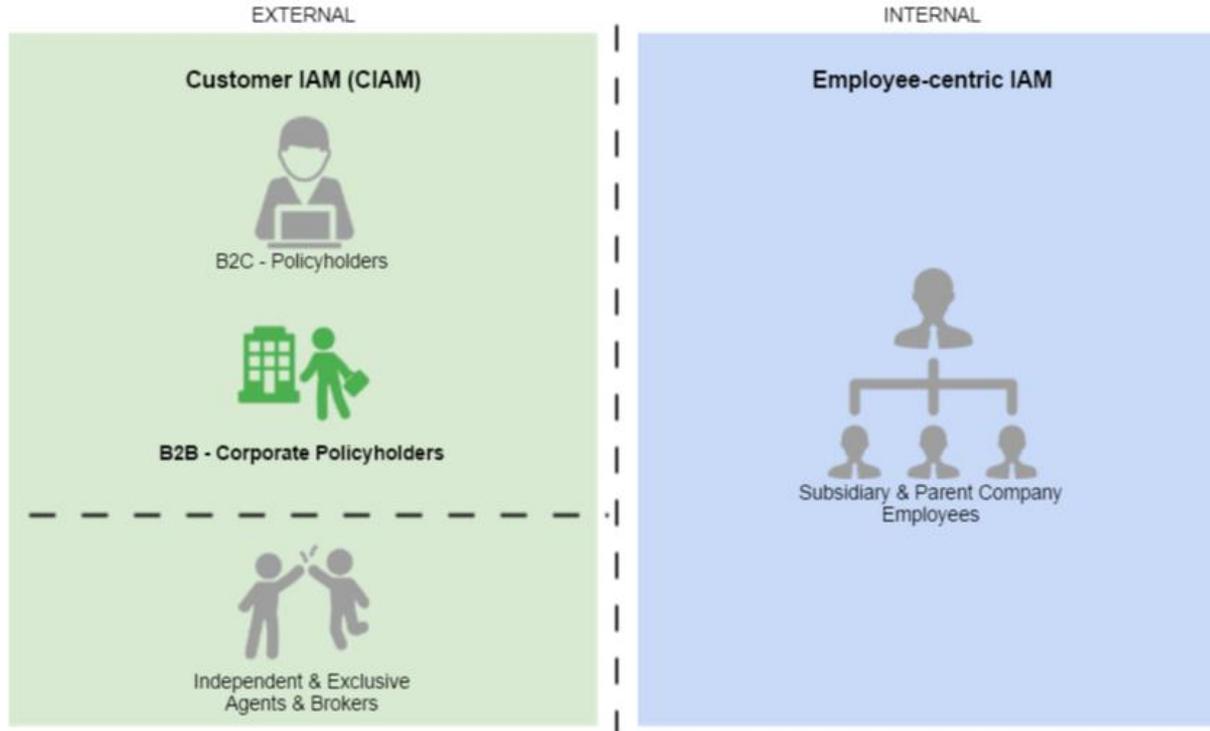


## In Summary...

With the unique offerings of GlobalSign's IAM Solution, you will be able to address the key aspects of the online Insurance business by:

- Faster launching of online services to maintain competitive advantage
- Address the multiple interactions and identities each customer has with your organization online
- Empower the customer to manage their own identity and relieve the amount of effort required from your customer service teams

# Insurance IAM Ecosystem



## Relationships:

- Service Contracts
- Technological Contracts

## Integrations:

- APIs
- CRM

Home / CityGroup

Home Users Roles **Contracts** Approvals

This page shows information about service contracts that are received and given.

Received Service Contracts [?](#)

Contractor	Roles	Users	Actions
ESP Inc. - Extranet <a href="#">?</a>	Member <a href="#">?</a>	1	<a href="#">Add roles for users</a>

**Service Contract Creation**

Step 1: Contract Information → Step 2: Message → Step 3: Confirmation

Please fill in the organization id of the target organization.

**Contractee Information**

Company ID \*

Email \*

**Roles**

Roles \*  Visitor  Member  Main User [?](#)  
[?](#)  
[?](#)

[Cancel](#) [Next >](#)

# DIY - Identity Self-Service

Up-to-date user information through self-service identity management



GlobalSign Self Service

Personal info Roles Mandates

### User Information

First name:	J. Example	<a href="#">Change</a>
Last name:	J. Doe	<a href="#">Change</a>
User name:	464612345678	<a href="#">Change</a>
Email address:	464612345678@gs.com	<a href="#">Change</a>
Mobile phone number:	+342345678901	<a href="#">Change</a>
SSNs:	240404-0100	<a href="#">Change</a>
Organ. context:	Customers	

### Authentication Methods

Password:	None	<a href="#">Change</a>
SMS one-time password:	Disabled	<a href="#">Activate</a>
One-time password printer:	Disabled	<a href="#">Activate</a>

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GlobalSign

Success In English Help

## Email Password Recovery

Step 1: Input Email

You can request a password reset link by filling the form. The link will be sent to the given email-address.

Email\*

Confirm Email\*

[Confirm](#)

ES

# DIY - Tiered Delegation

Customer care cost savings by empowering customers to manage their own services.



Administration

Home / Ubisecure Solutions Inc.

Home Users Roles Contracts

This page shows information about roles in this organization.

Roles

Search

Check/uncheck all

Organization roles

	Organization Role	Description	Actions
<input type="checkbox"/>	User	User has member privileges to the organization	Users
<input checked="" type="checkbox"/>	Main User	Main User has administrator privileges to the organization	Users

GlobalSign.

Home / Ubisecure Solutions Inc.

Home Users

This page shows information about...

Pending Service Contracts

Given Service Contracts

Received Service Contracts

Contractor

Ubisecure Extranet

Close

Add roles to users

Add roles from the contract to organization's users

Contract Information

Contractor	Technical Name	Email	Roles
Ubisecure Extranet	org1		Member

Choose Users

Choose users to whom the roles of the contract are given to.

Check/uncheck all

- Kari Itttt (ubidemo+kari5@gmail.com)
- Tomi Määttä (tomi.maatta@ubisecure.com)
- Kari Nousiainen (kari.nousiainen@ubisecure.com)
- Petteri Stenius (petteri.stenius@ubisecure.com)
- Kari Testaa (ubidemo@gmail.com)
- Keith Uber (keith.uber@ubisecure.com)

Save

# CRM Account Linking

Cost savings and security risk mitigation by linking the user roles to the CRM contract life-cycle

The screenshot displays the Dynamics CRM interface for 'City Group Inc'. The top navigation bar includes 'Dynamics CRM', 'SALES', 'Accounts', and 'City Group Inc'. A 'Create' button is visible in the top right. Below the navigation, there are buttons for 'ACTIVATE', 'CONNECT', 'ADD TO MARKETING LIST', and 'INVITE'. A tooltip for 'INVITE' reads: 'Invite: Invite the primary contact to manage users and services for this organization.' The main content area shows the account name 'City Group Inc' and a 'License customer' status. A 'POSTS' section is visible with a text input field and buttons for 'Both', 'Auto posts', and 'User posts'. A 'GlobalSign' modal window is overlaid on the right side of the screen. The modal has a title bar with 'GlobalSign.' and 'Suomeksi In English Help'. It features a progress indicator with two steps: 'Step 1: User details' (active) and 'Step 2: Confirmation'. Below the progress indicator, the text reads: 'Please input your user details. Mandatory fields are marked with an asterisk.' The form contains the following fields: 'First name\*' with the value 'Lisa', 'Last name\*' with the value 'Kinnunen', 'Password\*' with masked characters, and 'Password confirmation\*' with masked characters. At the bottom, there is a checkbox for 'You need to accept the [terms of use](#):' which is checked. 'Cancel' and 'Next >' buttons are located at the bottom of the modal.



***Etera is a mutual employment pension insurance company providing pension cover for employees and self-employed persons.***

## Challenges

- Employers need to report paid salaries on a monthly basis to the pension insurance company, and handling paper based reports was very expensive
- There was no way for Etera customers to conveniently review their own pension information

## Solution

- GlobalSign SSO was deployed to provide strong authentication for the customers to access their pension information
- For the organizations reporting paid salaries on a monthly basis Etera selected to use the password method of GlobalSign SSO and GlobalSign Trust enabled Danske-Bank employees to single sign-on to Etera services

## Benefits

- Considerable cost savings by enabling online and automated reporting for the customer organizations and accounting companies
- Increased customer satisfaction as employees could now access their pension information conveniently – better user experience

# GlobalSign - IAM Services

GlobalSign®



- Out-of-the-box IAM solution for *securing e-Services*
- One platform – 4 products for
  1. Single Sign-On
  2. Role and customer data mgmt
  3. Identity federation
  4. Transaction confirmation
- Robust and proven with standard interfaces
- Rapid deployment

# Identity for Everything



PKI to Rescue



# Fully automated, scalable PKI solutions for mixed enterprise environments



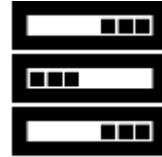
Keeping your emails private and protecting against spear phishing with PKI



# PKI is tried and true InfoSec solution



# PKI is tried and true InfoSec solution



But can it handle modern enterprise environments?



- Most of the concerns about higher volume deployments and mixed environments come down to certificate provisioning and management
  - Registering for the certificates
    - How do you get the correct identifying information onto the certificate?



- Most of the concerns about higher volume deployments and mixed environments come down to certificate provisioning and management
  - Registering for the certificates
  - Provisioning and installing the certificates
    - How do you actually get the certificates onto the endpoints?
    - How do you know which endpoints get which types of certificates?

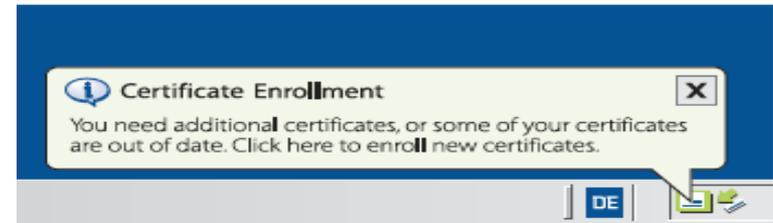


- Most of the concerns about higher volume deployments and mixed environments come down to certificate provisioning and management
  - Registering for the certificates
  - Provisioning and installing the certificates
  - Ongoing lifecycle management
    - New hires, new devices and machines will require new certificates
    - Lost devices or employee turnover will require revocation
    - Renewals



# You already have some of the key pieces!

- Leverage existing technology investments
  - You already have a repository of authenticated users and machines.
  - You already have a robust policy management solution.
  - Your clients already support certificate lifecycle management.

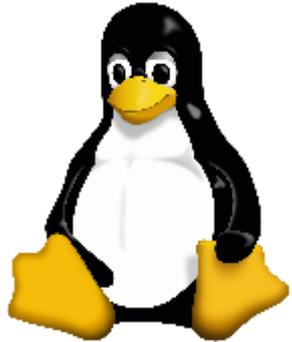


- Automatically provision certificates to all domain-joined endpoints
- Silent installs
- Support a range of templates and use cases
- Configure Active Directory Group Policies to control which objects receive which certificates

# Running a Microsoft CA is Complicated

- Need dedicated resources and staff
  - PKI expertise and detailed logging, documentation
- Manage CA operations
  - Maintain uptime and reliability
  - Keep up with PKI best practices
  - Secure operations and infrastructure

# What about non-Windows endpoints?



- SCEP
- ACME protocol
- MDM connectors

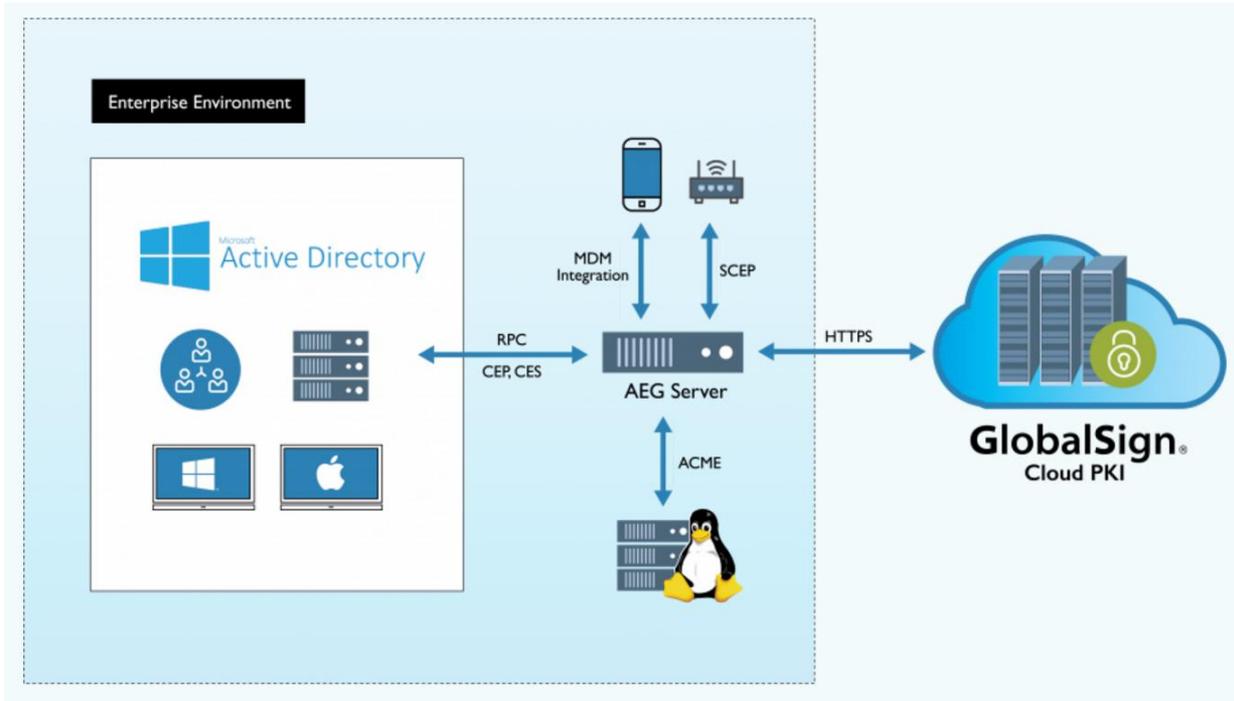


- **SCEP-based Enrollment**
  - Widely used protocol for issuing certificates to mobile devices
  - Not all CAs support



- **MDM/EMM Integration**
  - Automatically issue certificates to any devices registered with the MDM
  - Not all CAs support

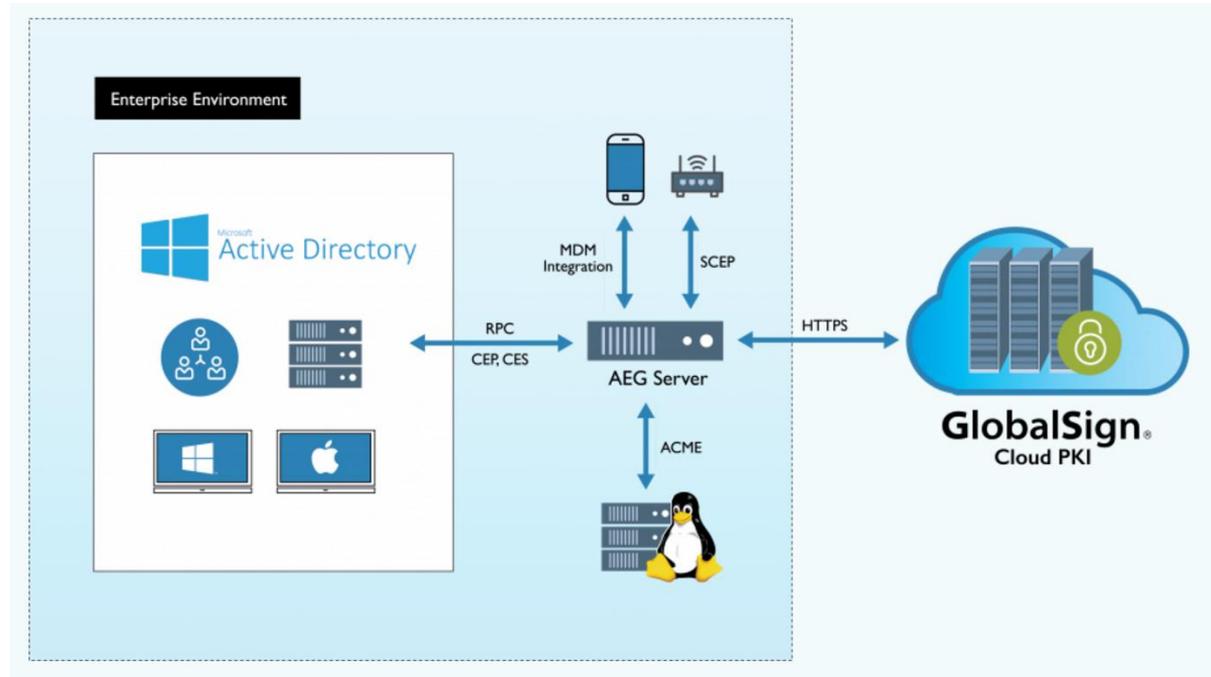
# One solution for all endpoints!



## GlobalSign Auto Enrollment Gateway

# PKI Automation for Mixed Environments

- Outsource PKI management to a trusted, third party CA
- Reduce total cost of ownership by as much as 50%
- Support mixed environments, variety of use cases, public or private trust models



# Identity for Everything



AATL - Document Signing Solution  
Digital Signing Services





# Digital Signatures Overview



# The Need for Electronic Signatures

Digital Signatures are a secure and trusted type of electronic signatures, and today's B2B, B2C, and governmental markets all shift towards adopting electronic signatures for its many benefits including:

- Go **Paperless**: Save time, money, effort, and the environment.
- **Easier Business Process**: Doing your signing electronically makes every transaction a smoother process for you and your clients.
- Go **Mobile**: collaboration within your organization or with your clients just got easier.

# The Need for Digital Signatures

Digital Signatures go beyond answering to all of the market needs for electronic signatures, the growing need for digital signatures is in particular to:

- **Securely Sign**: Enable secure electronic document workflows
- Meet **Compliance** requirements on digital signatures
- Ensure document **integrity** and **authorship**
- **Timestamping** services included to support time sensitive document transaction and audit trails

The Adobe Approved Trust List is a program that allows millions of users around the world to create digital signatures that are trusted whenever the signed document is opened in

Adobe® Acrobat® or Reader® software.



Approved Trust List  
**MEMBER**

**GlobalSign AATL certificates you can use our timestamping service enabling you to have a trusted time of signing and helping to preserve the document content integrity.**



**State Engineering  
Board Regulations**



- With the adoption of eIDAS regulation across the EU setting the requirements and standards for signatures across 28 countries, and it is expected to influence and have some levels of adoption beyond the EU within highly integrated economies with the EU like the UK.
- The FDA regulation Title 21 CFR Part 11 sets the criteria under which the FDA considers electronic records, electronic signatures, and handwritten signatures executed to electronic records to be trustworthy, reliable, and generally equivalent to paper records and handwritten signatures executed on paper.

When you receive a digitally signed document, both **Reader** and **Acrobat** ask three key questions to validate the signature:

1. Is the digital certificate that signed the document still valid? Has it **expired** or been **revoked**?
2. Has the document been changed since it was signed? Has the integrity of the document been affected? If there are changes, are they allowed changes or not?
3. Finally, does this certificate chain up to a certificate listed in the Trusted Identity list? If so, the signature will be **trusted** automatically.



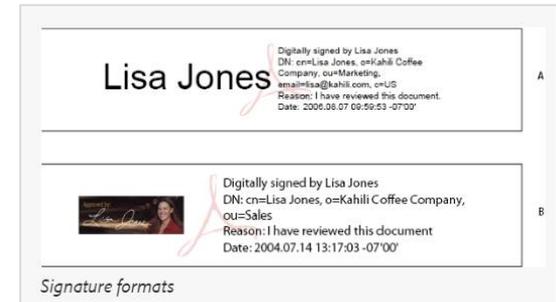
# Why is this important?

It provides an easy way for all your certificate holders, to sign documents confidently, knowing that recipients will not only get the cost savings and a resulting "green" benefit from staying with an electronic document, but also the integrity-checking and trusted green checkmark/blue ribbon experience when they open the document.



AATL Certificates are compatible with the following signing applications – allowing users to sign **multiple document types with one certificate**:

- Adobe Acrobat
  - Microsoft Office
  - LibreOffice
  - BlueBeam Revu
- 
- Add **customizable** approval signatures, such as [image of physical signature](#) or an engineering seal
  - **Certify** documents to [prove authorship](#), finalize contents and secure against future tampering



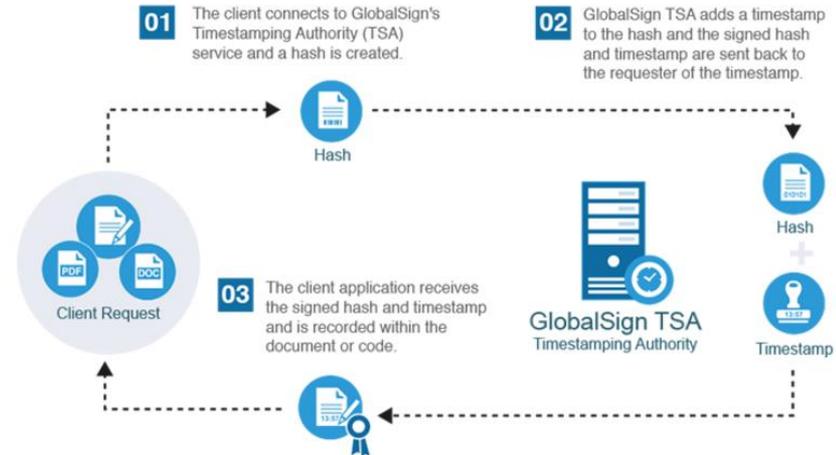
# Trusted Timestamping Services

GlobalSign AATL Certificates include RFC 3161 trusted timestamping services. With a timestamping URL included in the AATL Certificate, a timestamp is recorded when a document is digitally signed.

Timestamping services help organization reduce the potential liability associated with time-sensitive transactions by providing a long term validation and non-repudiation of the time and date a transaction took place.

## Features & Benefits:

- Add value to digitally signed or electronically signed documents
- Protect intellectual property
- Provide strong legal auditable evidence



# Sample Signed Document

Valid Signature in Status Bar

The screenshot shows a document viewer interface. At the top, a status bar displays a green checkmark icon and the text "Signed and all signatures are valid." To the right of the status bar is a "Signature Panel" icon. A "Signature Properties" dialog box is open in the center, containing the following information:

- Signature is VALID, signed by Cally Cooke <cally.cooke@globalsgin.com>.
- Signing Time: 2017/02/22 11:21:12 -05'00'
- Source of Trust obtained from Adobe Approved Trust List (AATL).

Below this information is a "Validity Summary" section with the following details:

- The document has not been modified since this signature was applied.
- The certifier has specified that Form Fill-in, Signing and Commenting are allowed for this document. No other changes are permitted.
- The document is signed by the current user.
- The signature includes an embedded timestamp. Timestamp time: 2017/02/22 11:21:26 -05'00'
- Signature was validated as of the secure (timestamp) time: 2017/02/22 11:21:26 -05'00'

On the right side of the document, a visible signature is shown, consisting of the name "Cally Cooke" in cursive and a red scribble. A box next to it contains the text: "Digitally signed by Cally Cooke Date: 2017.02.22 11:21:12 -05'00'".

Valid Signature

Signature Properties  
(click signature to view signature properties)

Visible Signature

Timestamp details

# Deployment Options for AATL

The Adobe AATL Certificate Policy **requires** certificates to be stored on **FIPS-compliant hardware**, such as a SafeNET iKey token or Hardware Security Module (HSM).

GlobalSign offers a variety of deployment options to support the needs of all organization, small to large.



Hosted HSM



TOKEN



Dedicated HSM



Integrations with  
Service Providers

# Deployment Options for AATL - Token

## Token-based –

Ideal for **Individuals and Organizations** who need to digitally sign a moderate amount of PDF documents (**under 5,000/year**) or **do not use** an automated PDF generation solution.

With token-based deployments, the AATL Certificate is issued to an end user via email and then downloaded and installed onto a secure SafeNet USB token (password protected/ cryptographic storage device)

Use GlobalSign's secure cloud-based Certificate Management Platform to issue and manage AATL Digital Certificates.

- No Hidden Fees – you only pay for certificates. There are no setup, hosting, or re-issuance fees
- SafeNet tokens are included in the AATL Certificate price



TOKEN



## Hosted HSM –

Ideal for organization using **automated** PDF generation software, such as Adobe LiveCycle, Ascertia DSS, or iText Java/C Sharp to generate and **manage large volumes of documents** that **do not have** the desire, internal PKI knowledge or capacity needs to **warrant owning and operating their own HSM**.

GlobalSign provides affordable and secure Hosted HSM partitions to host your AATL certificate and perform digital signing operations.

- Fast set-up
- No in-house cryptographic expertise needed
- Lower total cost of ownership



## Dedicated/ Owned HSM –

Ideal for organization using **automated** PDF generation software, such as Adobe LiveCycle, Ascertia DSS, Eldos Secure Black Box, or iText Java/C Sharp to generate and **manage large volumes of documents** that have the desire and internal support **to operate and manage their own HSM** (*on premise or dedicated cloud HSM*).

- Can support larger capacity requirements
- Since on-site, can more readily provide access to data for compliance auditing
- Requires internal resources to manage, ensure baseline requirements and SLAs are met
- Large storage capacity may go unused



## Integrated Signing Workflow Providers

Providing with you with a seamless end to end solution for digital signatures, we are integrated with leading signing workflow providers such as Ascertia. Our integrations enable you to use AATL certificates for individual or organizational signing, and make the best of the service provider's document management and signing workflow system.





Resources:

<https://www.globalsign.com/en/digital-signatures/resources/>

# Thank you

## About GlobalSign

GlobalSign is the leading provider of trusted identity and security solutions enabling businesses, large enterprises, cloud service providers and IoT innovators around the world to secure online communications, manage millions of verified digital identities and automate authentication and encryption. Its high-scale Public Key Infrastructure (PKI) and identity solutions support the billions of services, devices, people and things comprising the Internet of Everything (IoE).

**T** +32 (0) 16 891908 | **M** +32 (0) 495 581037

**Email:** [ronald.detemmerman@globalsign.com](mailto:ronald.detemmerman@globalsign.com)

**Web:** [www.globalsign.eu](http://www.globalsign.eu) | [www.globalsign.com.lb](http://www.globalsign.com.lb)

