# ENTRUST CERTIFICATE SERVICES

Lucas Mercado

Account Executive – Cert. Solutions

ENTRUST

SECURING A WORLD IN MOTION

**Entrust Datacard is the global leader in digital and physical security, identity and payment solutions.**

We enable seamless, secure interactions for our clients and their end users to confidently make payments, cross borders, log into networks, enter buildings or shop online.

# Entrust today: by the numbers

**$800M+**
REVENUE

**2,500+**
EMPLOYEES

**35**
LOCATIONS WORLDWIDE

**150+**
COUNTRIES

**> 80%**
of payment cards worldwide personalized with our solutions

**690K**
websites secured globally

**45K+**
instant issuance deployments worldwide

**24M+**
SWIFT messages encrypted & secured daily

**10M+**
secure identity & payment credentials issued daily

**57**
of Global Fortune 100 companies use our HSM

**25**
countries use our PKI, as well as the UN, Interpol & NATO

# Unmatched digital security & credential issuance solutions

Access Control Systems

Central Issuance Systems

Instant Issuance Systems

Hardware Security Modules (HSMs)

Public Key Infrastructure (PKI)

Internet of Things (IoT) Security

Identity and Access Management

Digital Certificates and Signing



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# Digital identity chosen by the world's leading brands

**50,000,000+**
*Identities Issued*

**10,000+**
*Customers*

**25**
*Years In Digital Identity*



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# Compliance Audits and Standards

Information Security Management ISO 27001 Certified

CERTIFIED ISO 9001:2015 COMPANY

ISO 14001 CERTIFIED

SYSTEM CERTIFICATION ISO 9001 SGS

ETSI

Certification Authorities

WebTrust

Certification Authorities

WebTrust BR - SSL

Certification Authorities

WebTrust Extended Validation

Certification Authorities

WebTrust EV Code Signing

eIDAS compliant

AICPA SOC aicpa.org/soc4so SOC for Service Organizations | Service Organizations ™

PCI Security Standards Council ™

Scheme Trust Services

QUALIFIED TRUST SERVICES PROVIDER



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# Award Winning Products and Services

## Frost & Sullivan's Awards

- 2020 Global Customer Value Leadership Award
- 2020 Frost Radar™ Best Practices Award for Innovation Excellence
- 2019 IoT Product Leadership Award

## KuppingerCole's Leadership Compass Report 2019

- Entrust Consumer Authentication "Leads the Pack"

## Quadrant Knowledge Solutions Report 2019

- Entrust emerges as technology leader in SPARK Matrix analysis of IoT IAM market

## CyberSecurity Breakthrough Award 2019

- "Enterprise Email Security Solution of the Year" for Verified Mark Certificates (VMCs)

FROST & SULLIVAN
2020 BEST PRACTICES AWARD
GLOBAL TLS CERTIFICATE CUSTOMER VALUE LEADERSHIP AWARD

cybersecurity Breakthrough Award 2019
Enterprise Email Security Solution of the Year

LEADERSHIP COMPASS
kuppingercole ANALYSTS

SC 2019 awards
finalist
Best Customer Service

Quadrant Knowledge Solutions

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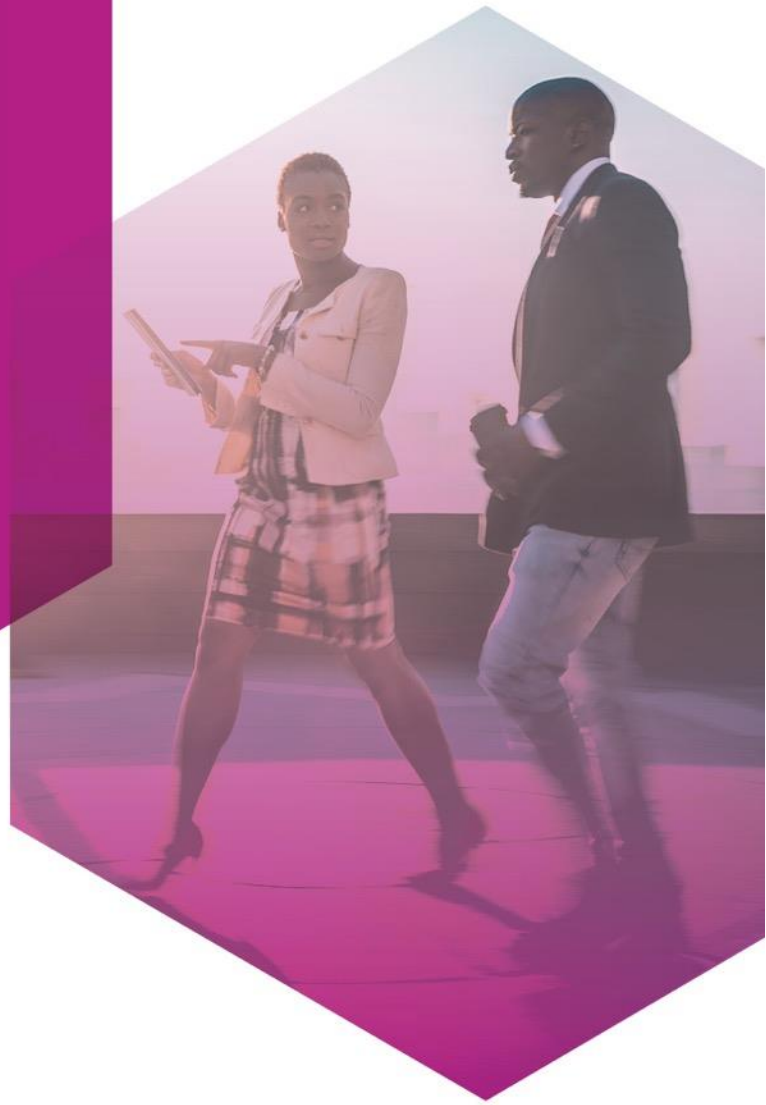
# CERTIFICATE SOLUTIONS

SSL, PKI, IoT, & Digital Signature



# Establish Next-Level Trust

Our certificate-based technology helps organizations establish trusted signature, encryption and identity between people, systems and things.

# Certificate Solutions | Establish Next-Level Trust

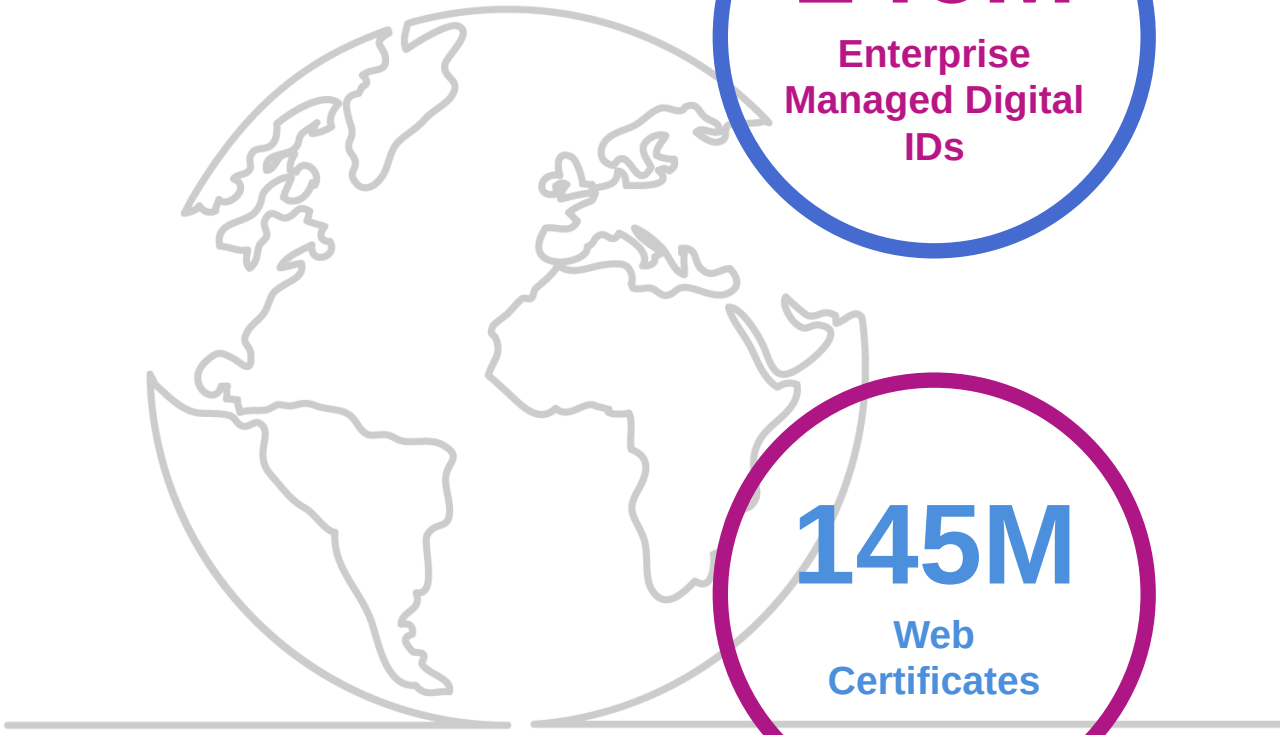
Leadership in PKI for 25+ years – commercial launch in 1994

9th Generation PKI Technology – CC EAL4+ Evaluated

Trusted Certification Authority to leading companies since 1999

Leader in establishing CA guidelines and helping revolutionize browser standards

A trusted business partner providing education, expert advice and unmatched customer services and support to ensure peace of mind



**146M**
**Enterprise Managed Digital IDs**

**145M**
**Web Certificates**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# The Transformation of PKI

## TRADITIONAL USE CASES

### Traditional Use Cases

TLS/SSL

User Authentication

Device Authentication

Signatures

S/MIME

**Current State**
Static, obscure system that needs careful vigilance

**Transformation**

## DIGITAL SOLUTIONS

### New and Added Use Cases

Things Unconstrained

Things Constrained

Services and Applications

DevOps

**Target State**
Invisible, managed, automated, integrated, custom for specific use cases and crypto-agile.

Source: Gartner


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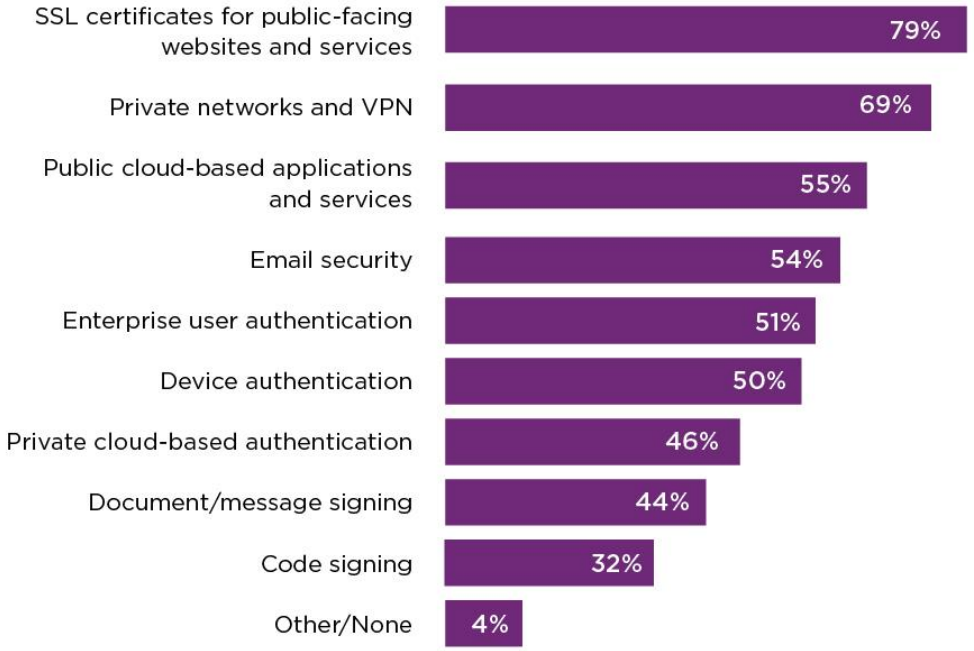
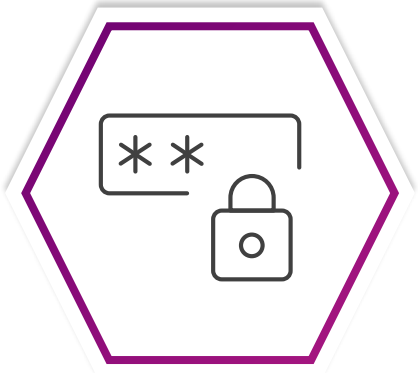
# The Evolution of PKI: Scale for the Future

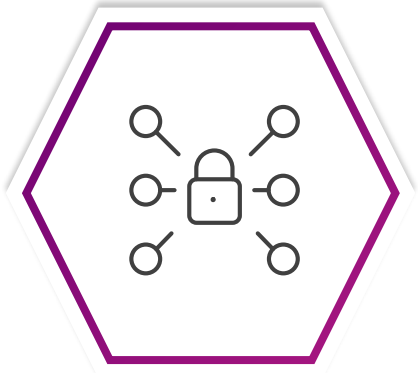
## WHAT APPLICATIONS USE PKI CREDENTIALS?
(More than one response permitted)



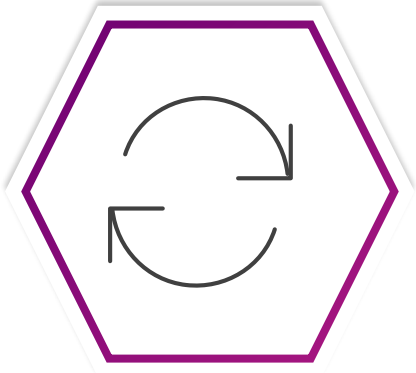

Source: 2019 Ponemon PKI and IoT Trends Study



**Digital certificates continue to proliferate at a rapid rate**



**The use of digital certificates is more diversified**



**Certificate visibility and lifecycle management is an imperative**

SSL / VPN / Mobile continue to lead traditional PKI use cases –
IoT and DevOps driving increased adoption – from people to things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# The Certificate Solutions Portfolio

## Entrust Certificate Services (ECS)

- SSL
- Qualified Certificates
- Document Signing
- Verified Mark Certificates
- Secure Email
- Code Signing
- Digital Signing
- Device Certificates

## Managed PKI Services (mPKI)

- ePassport
- Security Manager (CA)
- Desktop Agents
- Managed MSFT CA
- Validation Authority
- CA Gateway
- Offline Root CA
- IoT Security
- Discovery+
- Qualified TSP
- HSMs
- TrustedX
- Certificate Hub

## PKI Products (PKI)

## Professional Services

- Design/Architecture
- Technical Account Managers
- Integration
- Training
- Deployment

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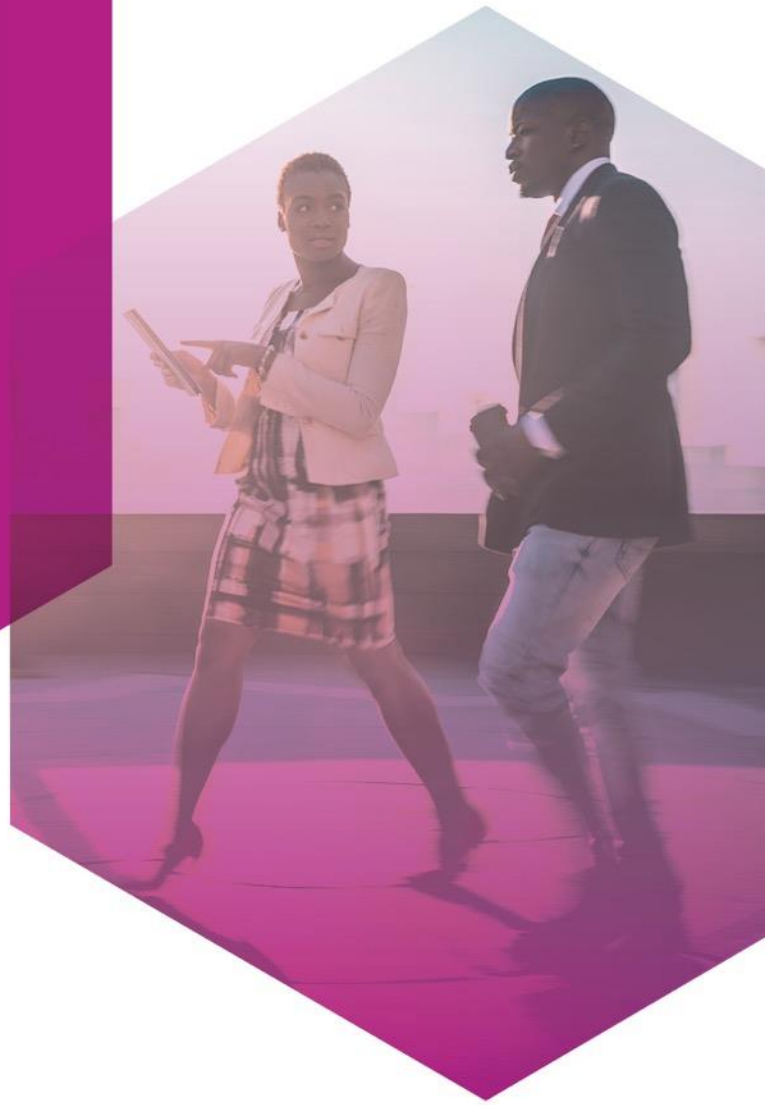
# ENTRUST CERTIFICATE SERVICES

TLS/SSL - Public Trust



# The Difference

1

## Dedicated Account Manager

One-on-one relationship

2

## Support

24x5x365
Phone | Email | Chat
24x7x365 Online tools
Follow-the-Sun
Entrust staffed

3

## Flexible Policies

Subscription Plan
Unlimited server licensing
Unlimited reissues
Website security bundle

4

## Best Practices

Education & tools
to bolster defenses

5

## Certificate Services

Security Beyond
the Certificate
for
Peace of Mind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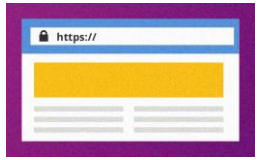
# Product Overview – Digital Certificates

## SSL/TLS INCLUDES

| | | | |
|---|---|---|---|
| Support 24x5 (standard)<br>SSL Server Test | Unlimited Reissues<br>Best Practices | Unlimited Server Licensing<br>SHA-2/2048 –bit Keys | Website Security Bundles<br>99.9%+ Browser Ubiquity |



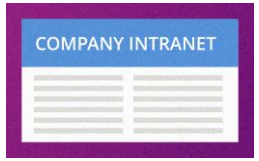

Standard SSL

EV Multi-domain SSL

Advantage SSL

UC Multi-domain SSL

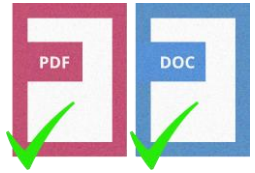
Wildcard SSL




Private SSL

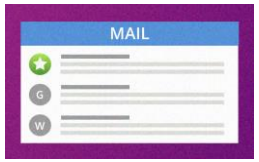
Qualified Certificates

Code Signing




Document Signing

S/MIME




VMC

Device



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# SAN Comparison

| | 1 Private | 1 Standard | 1 Advantage | 1 Wildcard | 1 UC Multi-domain | 1 EV Multi-domain |
|---|---|---|---|---|---|---|
| CN | Intranet.entrust | www.entrust.com | www.entrust.com | *.entrust.com | www.entrust.com | www.entrust.com |
| SAN 1 (default to CN) | Intranet.entrust | www.entrust.com | www.entrust.com | *.entrust.com | www.entrust.com | www.entrust.com |
| SAN 2 (optional free) | N/A | entrust.com | 2 entrust.com | entrust.com | 2 entrust.com | 2 entrust.com |
| Extra SAN 1 | $ | | www.extraSAN1.com | $ | 3 www.extraSAN1.com | www.extraSAN1.com |
| Extra SAN 2 | $ | | | $ | 4 www.extraSAN2.com | $ |
| Extra SAN 3 | $ | | | $ | www.extraSAN3.com | $ |
| Extra SAN 4 | $ | | | $ | $ | $ |
| Free sub-domain SAN's must match wildcard domain | N/A | | N/A | Mail.entrust.com Intranet.entrust.com | N/A | N/A |
| WILDCARD SAN's (up to 50 can be purchased) | N/A | | | *.anythingelse.com | N/A | N/A |
| Maximum SANs | 250 | | | 250 | 250 | 250 |

# Security Beyond the Certificate

## Best CtaaS

**Frost & Sullivan**, "SSL/TLS Certificates Market — Finding the Business Model in an All Encrypt World" Sept. 2016

| Entrust Certificate Services | Benefits |
| --- | --- |
| Centralizes visibility & compliance for all certificate types — regardless of issuing CA | Improve service uptime |
| Simplifies end-to-end lifecycle management | Avoid security lapses |
| | Preserve brand reputation |


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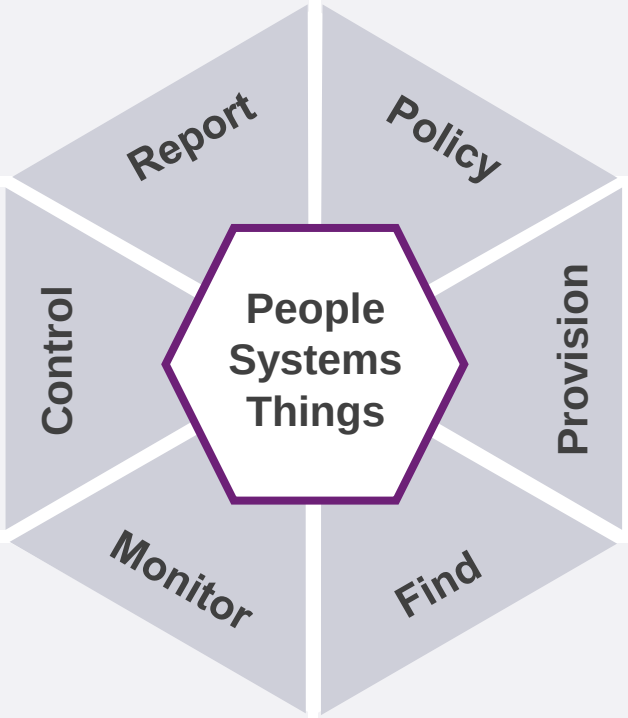
# Security Beyond the Certificate

- Report on all your certificates in a single system
- Customizable notifications
- Dashboards w/ key information

- Public policy compliance and audit
- Private policy design, compliance and audit
- Tools for monitoring & enforcing policy

- Issue certificates through multiple protocols
- Lifecycle manage all your certificates in a single interface
- Install certificates for people, systems and things through various client/clientless apps and protocols




- Optional self-serve eStore purchasing and/or simple procurement & contracts
- Flexible licensing and license enforcement
- Inventory consumption tracking
- Automated entitlement provisioning

- Monitor health of your system, certificates and end-points
- Revocation checking services for relying party monitoring

- Discover all your certificates using multiple tools (Scanner, CT Logs, imports, CA plugins)
- Find info about your certificate installations (Qualys, AgileScan, Scanner, Netcraft, Sitelock)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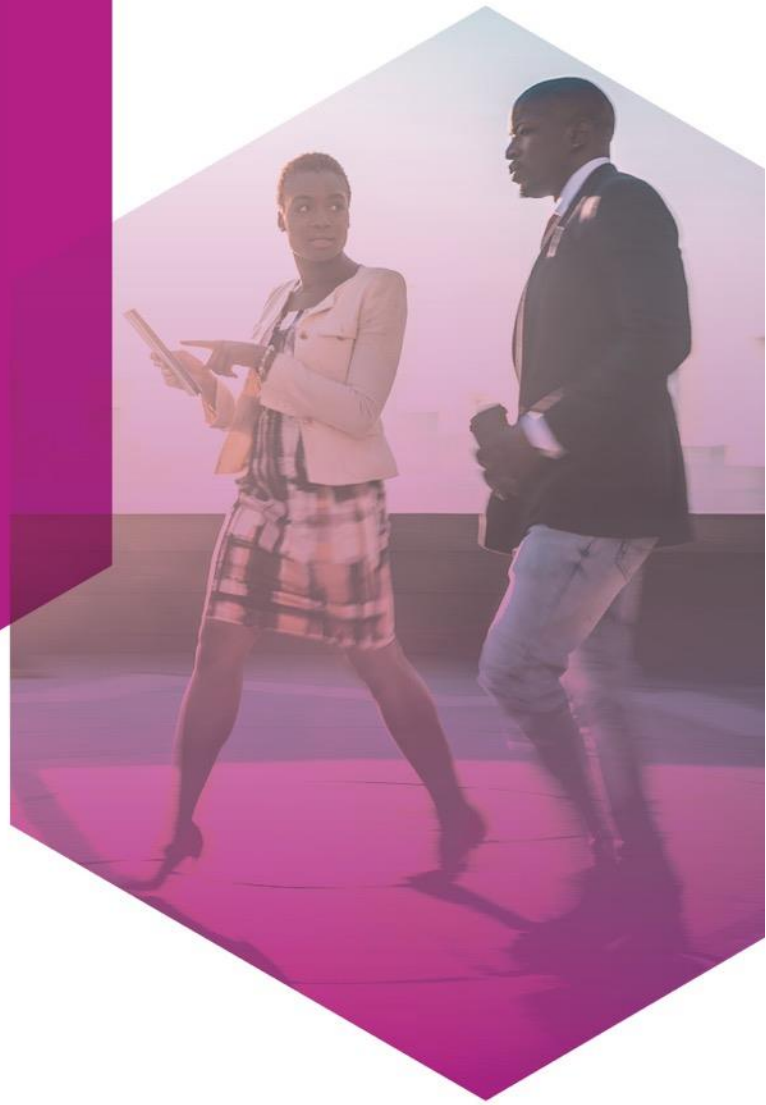
# FLEXIBLE LICENSING OPTIONS



# Flexible Licensing Options

## SUBSCRIPTION Based Program

### Reusable Licenses for Changing Web Environments

- Return expired, deployed and decommissioned licenses to certificate inventory for reuse
- Plan and budget for SSL/TLS certificate inventory
- Volume and multi-year discounts

## UNIT Based Program

### Traditional Certificate License Provisioning

- Units must be deployed within one-year of purchase, and are valid for the term they are issued beginning from date of deployment
- Once issued, units based certificates can be re-issued, for the same purpose
- Volume discounts

**94% of surveyed Entrust Certificate Services customers agree the Subscription Plan is effective in saving money on digital certificates.**

**Source: TechValidate survey of 405 users of Entrust Datacard**

**COMPARE**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# Here’s How It Works

## **Reusable Licenses** for Changing Web Environments

1

**Select account term**

1, 2, or 3 years

2

**Set convenient certificate expiration dates**

Issue certificates from 10-days to 27 months, avoid holidays and busy periods

3

**Take advantage of volume and term discounts**

Discounts applied throughout the term

4

**Purchase SSL/TLS certificates**

Licenses (purchased mid-term) pro-rated to account term

5

**Deploy and redeploy**

Recycle licenses throughout certificate lifecycle



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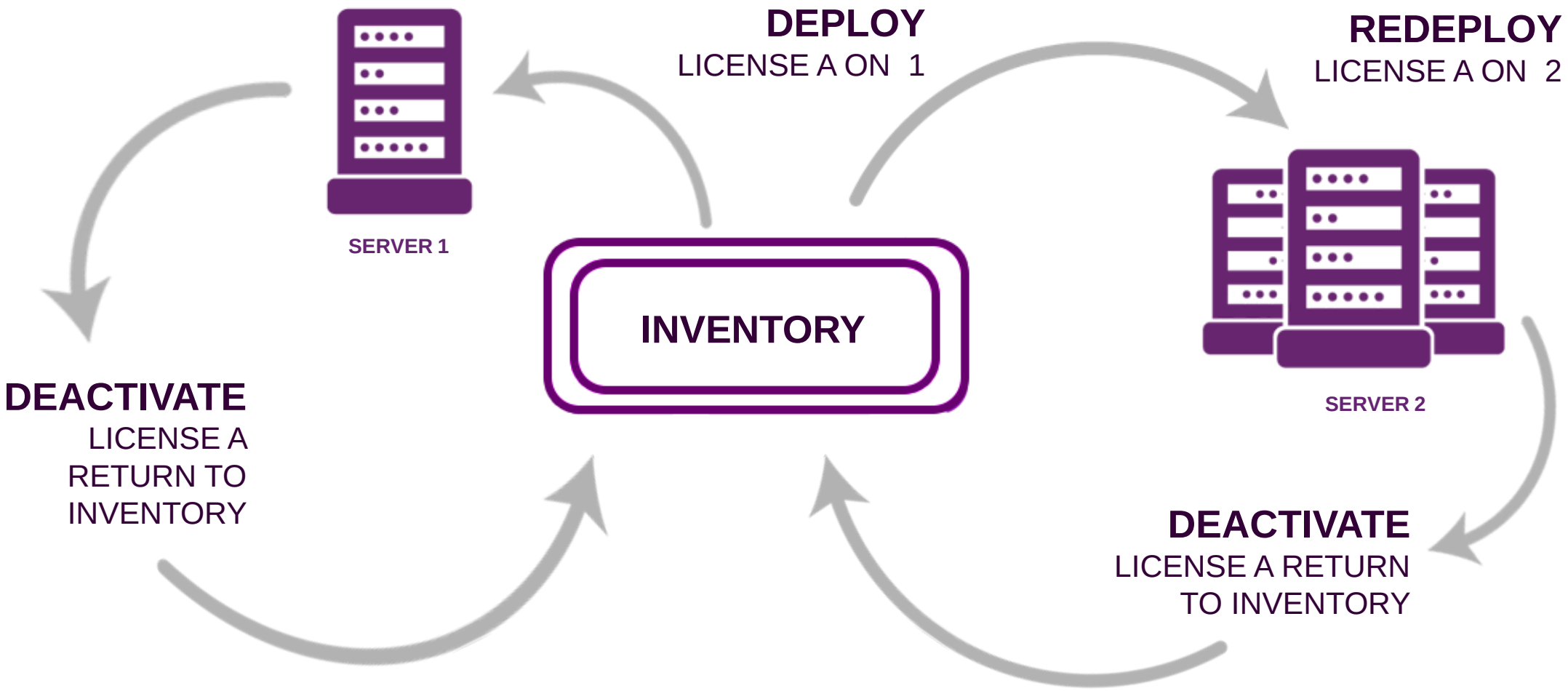
# Used Licenses Are Returned To Inventory For Reuse





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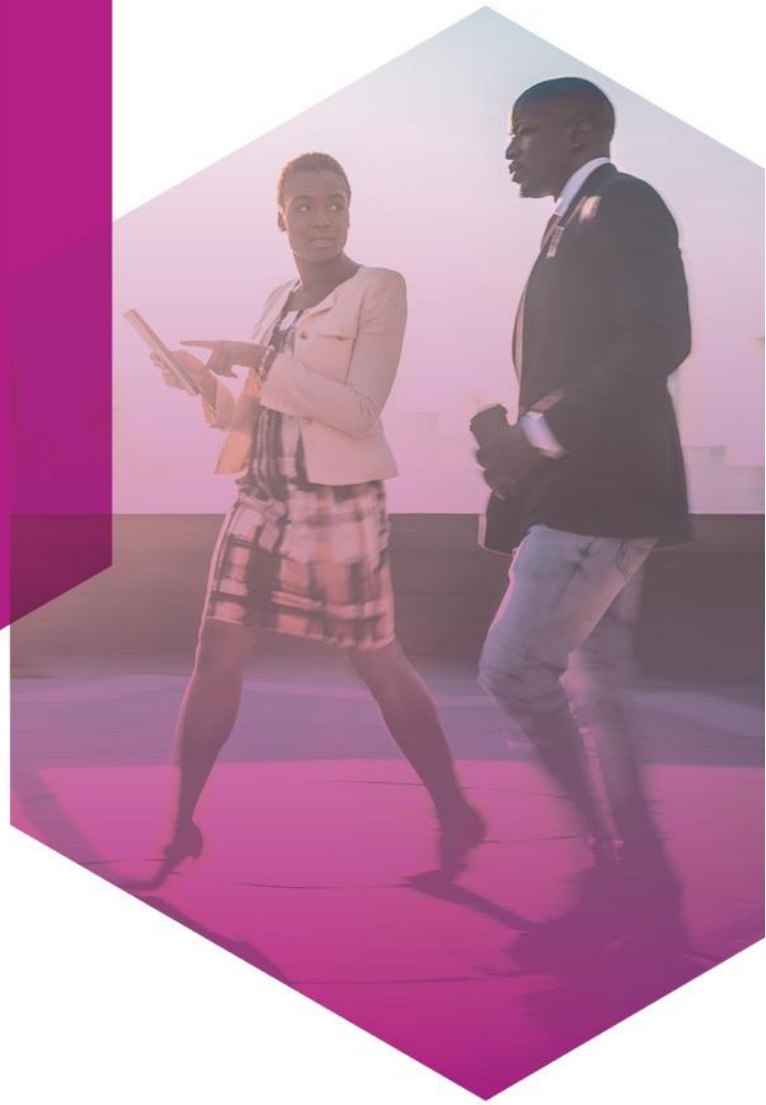
# BENEFITS OF MIGRATING TO ENTRUST DATACARD



# ECS Enterprise Features and Differentiators

## The Market

**Rapid certificate creation of all types**
*(in one management console)*

**Instant certificate creation**
*(w/ pre-verified domains)*

**Easy lifecycle management**
*(revoke, re-issue, renew, report)*

**Certificate expiry notifications**
*(Multi-person, multi-level)*

**Comprehensive certificate pickup**
*(Pro-user & step-by-step process)*

**Customizable views**
*(Focus on key data and attributes)*

**Integrated user and data management**
*(distribute responsibility across organization)*

**Certificate request workflows**

**Custom data tagging**
*(track certificates YOUR way)*

**Intuitive interface**

**Entrust Message Center**
*(receive important info from Entrust)*

**Buy More Online**
*(Credit card 24/7, P.O., Buyer process)*

**Competitive Certificate Import**
*(Track expiry of non-Entrust certificates)*

**Extensive API**
*(Advanced Programming Interface)*

**Venafi Support**

**Audit reporting**

**Integrated tools**
*(SSL Install Check, CSR Viewer)*

## The Entrust Advantage

**Ansible Module**
Automate TLS deployment on unlimited end-points

**ServiceNow App**
Request, issue & manage the certificate lifecycle in ServiceNow

**Continuous, Automated Domain Verification**
Setup in DNS records and use it over and over

**Automatic SSL Server Test**
Test your SSL Server configurations automatically and be notified of low scores

**Policy & Best Practice Alerts**
**Get n**otifications when certs violate policy and best practices

**Subscription Plan**
Reuse certificates without burning a license

**Website Security bundles**
Anti-malware detection/remediation, reputation monitoring, Vulnerability/App scanning

**Integrated Certificate Discovery**
Find, track, and manage rogue certificates

**Custom Reporting and Dashboard**
Instantly get the info you need

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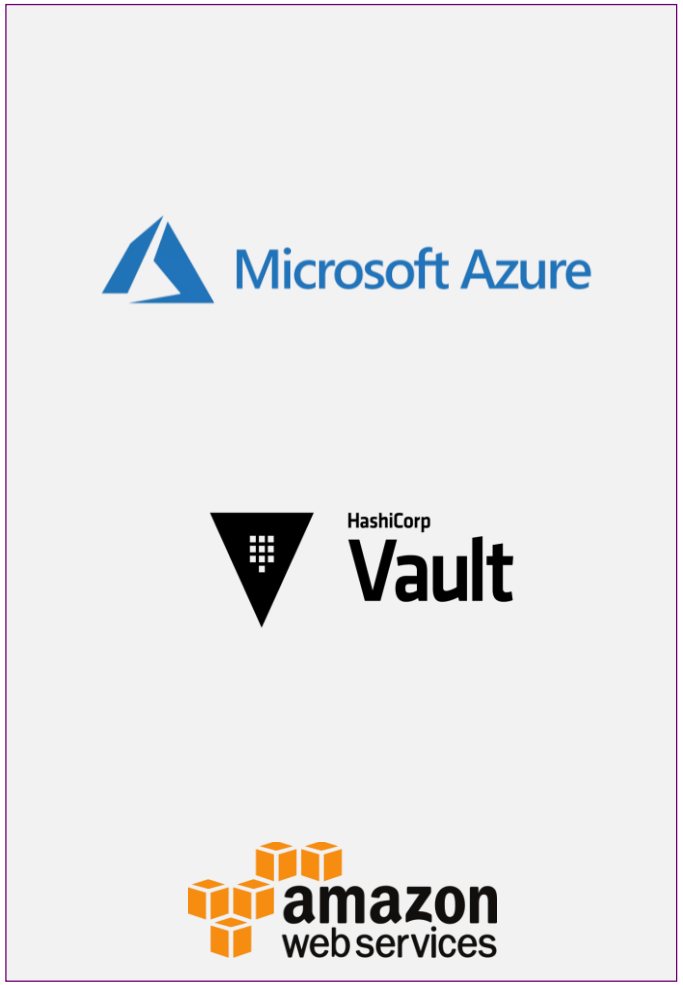
# SSL Automation & Integrations

## Current Integrations

## Pipeline Integrations




**Enabled through REST APIs**

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# Entrust and Sixscape's S/MIME Solution Value Proposition

## Differentiators

- Centralized management
- Automated renewals
- Secure key escrow

- Fully **automated** deployment of S/MIME certificates and lifecycle management at scale
- **Flexible** and scalable set and forget deployment and management
- Highly available, redundant and **scalable**, integrated with Microsoft infrastructure
- Centralized and decentralized one-time deployment
- Silent certificate renewals and easy compliance no matter which industry and size of organization
- Encrypt all previous mails during initial installation
- Automatic backup/restore of private keys with full key history and escrow
- **Secure** deployment to desktops and personal devices

➢ **Simplify the S/MIME deployment process and reduce the time and effort compared to legacy, manual approaches**

➢ **Improve your compliance and security posture by enabling all your employees to encrypt and sign their emails easily and quickly**

➢ **Reduce the friction associated with S/MIME key management and deployment**

➢ **Save time, resources and scale with Entrust & Sixscape's S/MIME solution**

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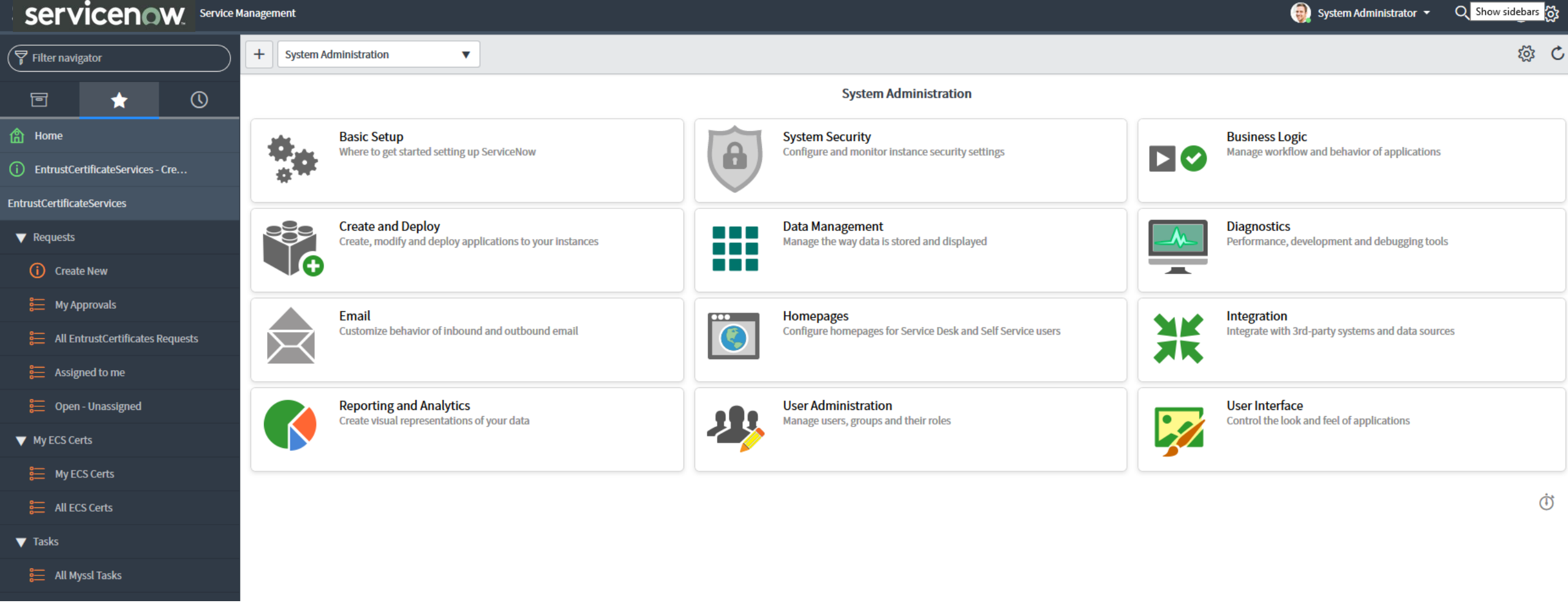


servicenow

# Integration & Capabilities

- **Synchronize** active certificate data between ServiceNow and Entrust
- **Create** new certificates using ServiceNow hosted approval workflow
- **Renew** existing certificates using ServiceNow hosted approval workflow
- **Provide access** to issued certificates in ServiceNow


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# Venafi Partnership

## Demonstrated Value of a Combined Solution

- Cost benefits of our Subscription Plan
- World class support teams that work together
- SSL lifecycle management, Discovery and automation
- Leadership, innovation and expertise in the industry
- Agility to scale
- Close partnership based on mutual customers
- Focused on security first!


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# Entrust Certificate Services REST API Capabilities

**SSL Order Lifecycle Capabilities**

- Enroll
- Renew
- Replace
- Revoke

**Reporting Capabilities**

- Get Certificates
- Get Clients
- Get Organizations
- Get Domains
- Get Inventory
- Replace
- Revoke

https://api.entrust.net/enterprise/v1/certificates

SSL Lifecycle and Fulfillment Automation


© Entrust Corporation

# Follow-the-Sun Support

## Personalized Support

- Entrust-staffed technical support
- Live certificate validation ensures highest security
- Silver support included!
  24x5x365 tech support
  Phone | Email | Chat
  24x7x365 online tools
  Online access world class tools
- Platinum Support Available

## Customer Friendly Policies

- Dedicated account manager
- Unlimited certificate re-issues
- Unlimited server licenses
- Certificate swaps

**Best Customer Service**

**Finalist SC Media Excellence Awards** March 2019

**Customer Value Leadership Award Winner,**

recognized for our high customer satisfaction, innovation, and feature-rich portfolio.

**Frost & Sullivan**, 2020



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# One-on-One Customer Support

## “Taking the Pain Out of SSL” ★★★★★

My organization has switched all SSL functions to Entrust. They have provided excellent products and support, especially in the following areas:

1. The online management website makes issuing, renewing and cancelling certificates completely painless. We can view inventory, receive notice of expiration, and track issuance in a single location.
2. Our account manager is an invaluable resource for getting information about the various types of certificates and other Entrust products. She has also handled renewals of our Platinum contract with meticulous attention to detail, and ensures we are made aware of new offerings that our Platinum contract offers.
3. Their support is capable of answering all questions asked, and resolving any issues I've come across. Their response time is excellent, and I've been satisfied with the outcome of all interaction I've had with them.

***Daniel R., Lead Server Analyst,***
*Sarasota Medical Center, one of the largest public health systems in the state of Florida, US*

## “Awesome Company” ★★★★★

We started the process of moving our SSL certs to Entrust. When we discovered our code signing cert was going to expire in only a couple of days, and we were going to need more verification than for our SSL certs, Jen was very helpful in expediting our request and helping to make sure everything went smooth and quick so our releases were not delayed.

***David A.***
*IDV Solutions,*
*leading risk intelligence and response solution provider*

## “Best in Class” ★★★★★

We have made Entrust our go to SSL provider and have found Entrust to be the best overall choice for obtaining and maintaining multiple SSL Certificates. The products are top notch and the Customer Service is stellar compared to any and all of our other SSL provider experiences.

Jess Day

## “One Stop Management” ★★★★★

The ability to see the status of all of the certificates in one location online is significant. Knowing when a certificate is up for renewal at a glance on the screen is great. Uploading .crt files and getting the answer files in a minimal timeframe is reassuring. Superb online utility.

***Robert H.***
*National Indemnity Corporation*

*https://www.sslshopper.com/entrust-certificate-authority-reviews.html*


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# How does Entrust Datacard drive savings?

We have flexible licensing policies, which can represent considerable cost savings for you:

- **Flexible Licensing Policies**
  - Unlimited server licensing
  - Unlimited reissues
- **Automated Subscription Plan**
  - Recycle used certificate licenses to capture the full lifecycle until expiry
- **Low cost for additional SANs**

94% of surveyed Entrust Certificate Services customers agree the Subscription Plan is effective in saving money on digital certificates.

Source: TechValidate survey of 405 users of Entrust Datacard

# ECS Dashboard

Fully configurable dashboard delivers the information you need when and where you need it.

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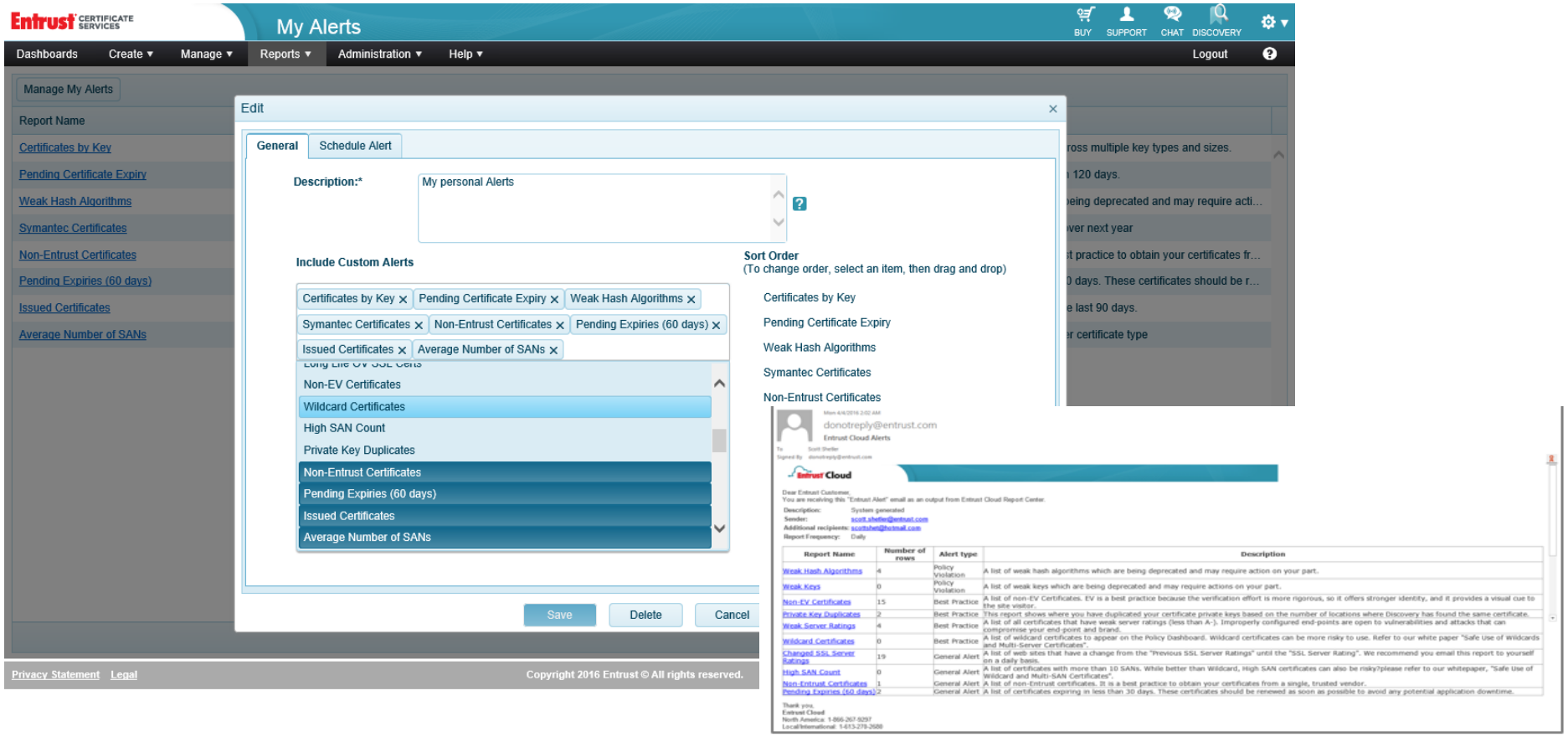
# ECS Alerts

Standard or customized alerts automatically notify you when issues arise and can be configured to your dashboard or set for email delivery.



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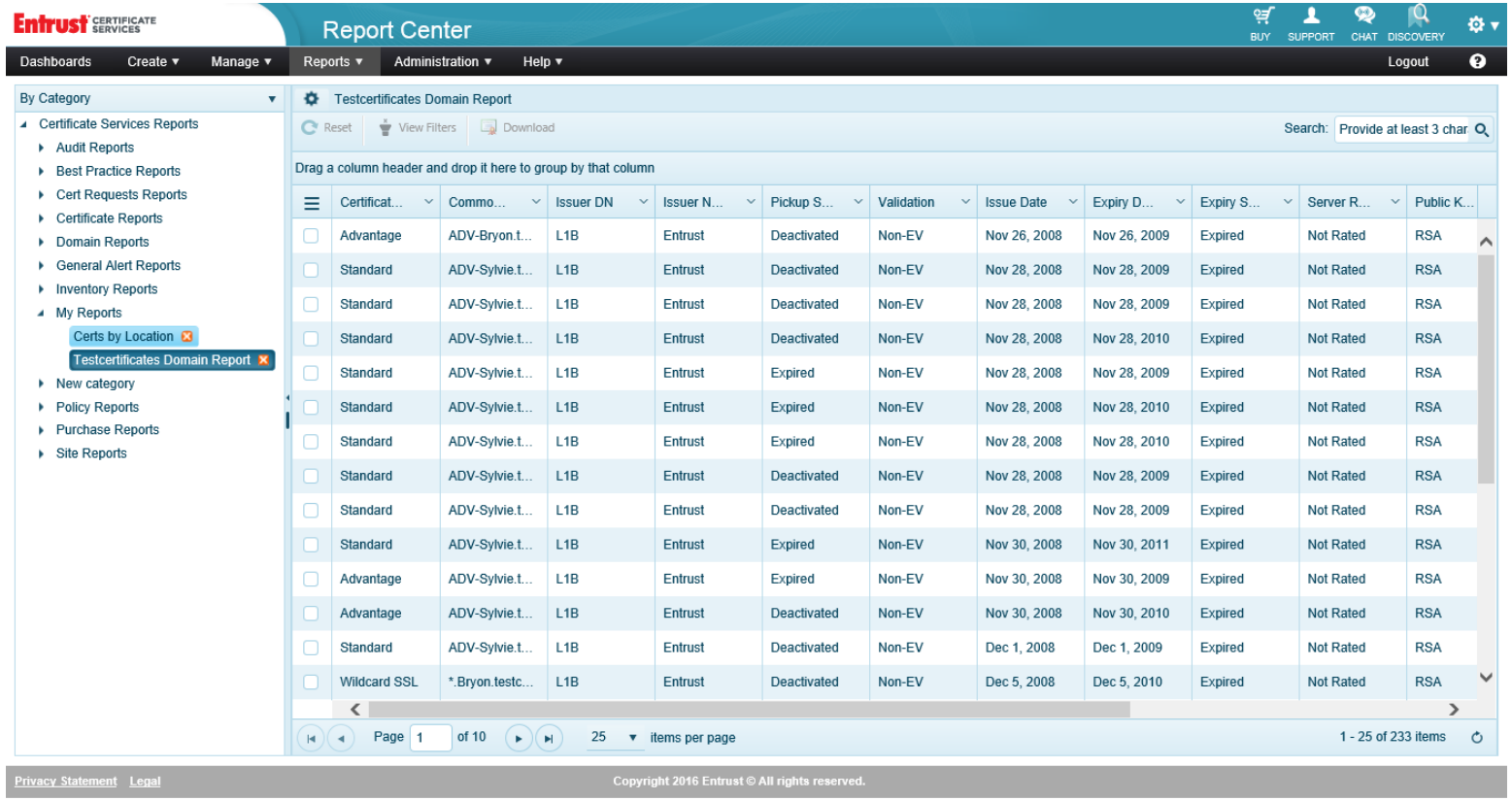
# ECS Reporting

Robust reporting engine choose from standard reports or create customized reports to save, send, add to your dashboard or schedule for automatic delivery.




| Certificat... | Commo... | Issuer DN | Issuer N... | Pickup S... | Validation | Issue Date | Expiry D... | Expiry S... | Server R... | Public K... |
|---|---|---|---|---|---|---|---|---|---|---|
| Advantage | ADV-Bryon.t... | L1B | Entrust | Deactivated | Non-EV | Nov 26, 2008 | Nov 26, 2009 | Expired | Not Rated | RSA |
| Standard | ADV-Sylvie.t... | L1B | Entrust | Deactivated | Non-EV | Nov 28, 2008 | Nov 28, 2009 | Expired | Not Rated | RSA |
| Standard | ADV-Sylvie.t... | L1B | Entrust | Deactivated | Non-EV | Nov 28, 2008 | Nov 28, 2009 | Expired | Not Rated | RSA |
| Standard | ADV-Sylvie.t... | L1B | Entrust | Deactivated | Non-EV | Nov 28, 2008 | Nov 28, 2010 | Expired | Not Rated | RSA |
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| Standard | ADV-Sylvie.t... | L1B | Entrust | Expired | Non-EV | Nov 28, 2008 | Nov 28, 2010 | Expired | Not Rated | RSA |
| Standard | ADV-Sylvie.t... | L1B | Entrust | Expired | Non-EV | Nov 28, 2008 | Nov 28, 2010 | Expired | Not Rated | RSA |
| Standard | ADV-Sylvie.t... | L1B | Entrust | Deactivated | Non-EV | Nov 28, 2008 | Nov 28, 2009 | Expired | Not Rated | RSA |
| Standard | ADV-Sylvie.t... | L1B | Entrust | Deactivated | Non-EV | Nov 28, 2008 | Nov 28, 2009 | Expired | Not Rated | RSA |
| Standard | ADV-Sylvie.t... | L1B | Entrust | Expired | Non-EV | Nov 30, 2008 | Nov 30, 2011 | Expired | Not Rated | RSA |
| Advantage | ADV-Sylvie.t... | L1B | Entrust | Expired | Non-EV | Nov 30, 2008 | Nov 30, 2009 | Expired | Not Rated | RSA |
| Advantage | ADV-Sylvie.t... | L1B | Entrust | Deactivated | Non-EV | Nov 30, 2008 | Nov 30, 2010 | Expired | Not Rated | RSA |
| Standard | ADV-Sylvie.t... | L1B | Entrust | Deactivated | Non-EV | Dec 1, 2008 | Dec 1, 2009 | Expired | Not Rated | RSA |
| Wildcard SSL | *.Bryon.testc... | L1B | Entrust | Deactivated | Non-EV | Dec 5, 2008 | Dec 5, 2010 | Expired | Not Rated | RSA |


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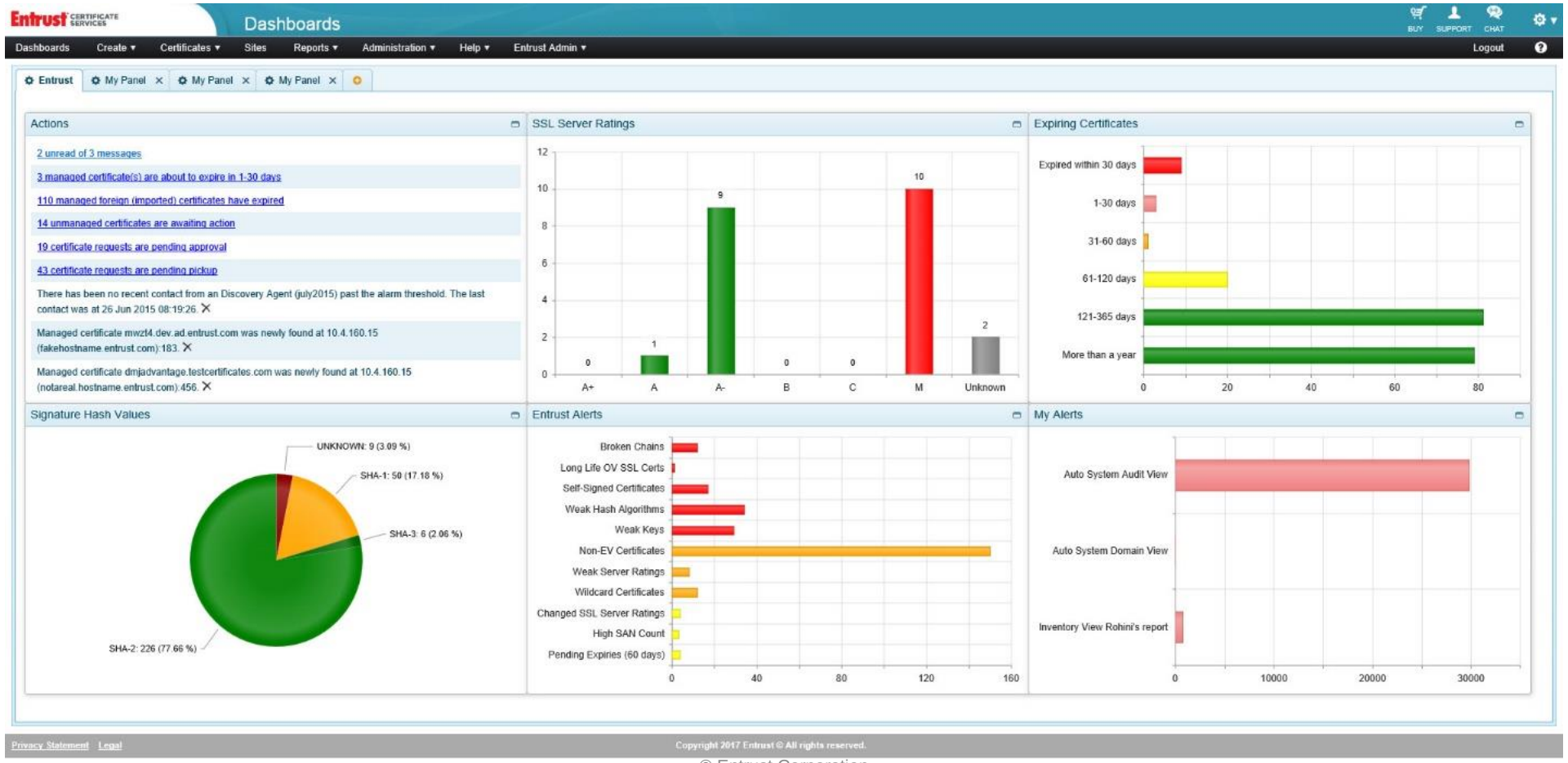
# ECS Discovery Dashboard

A report of certificates found on the network through Entrust's Certificate Discovery Service.





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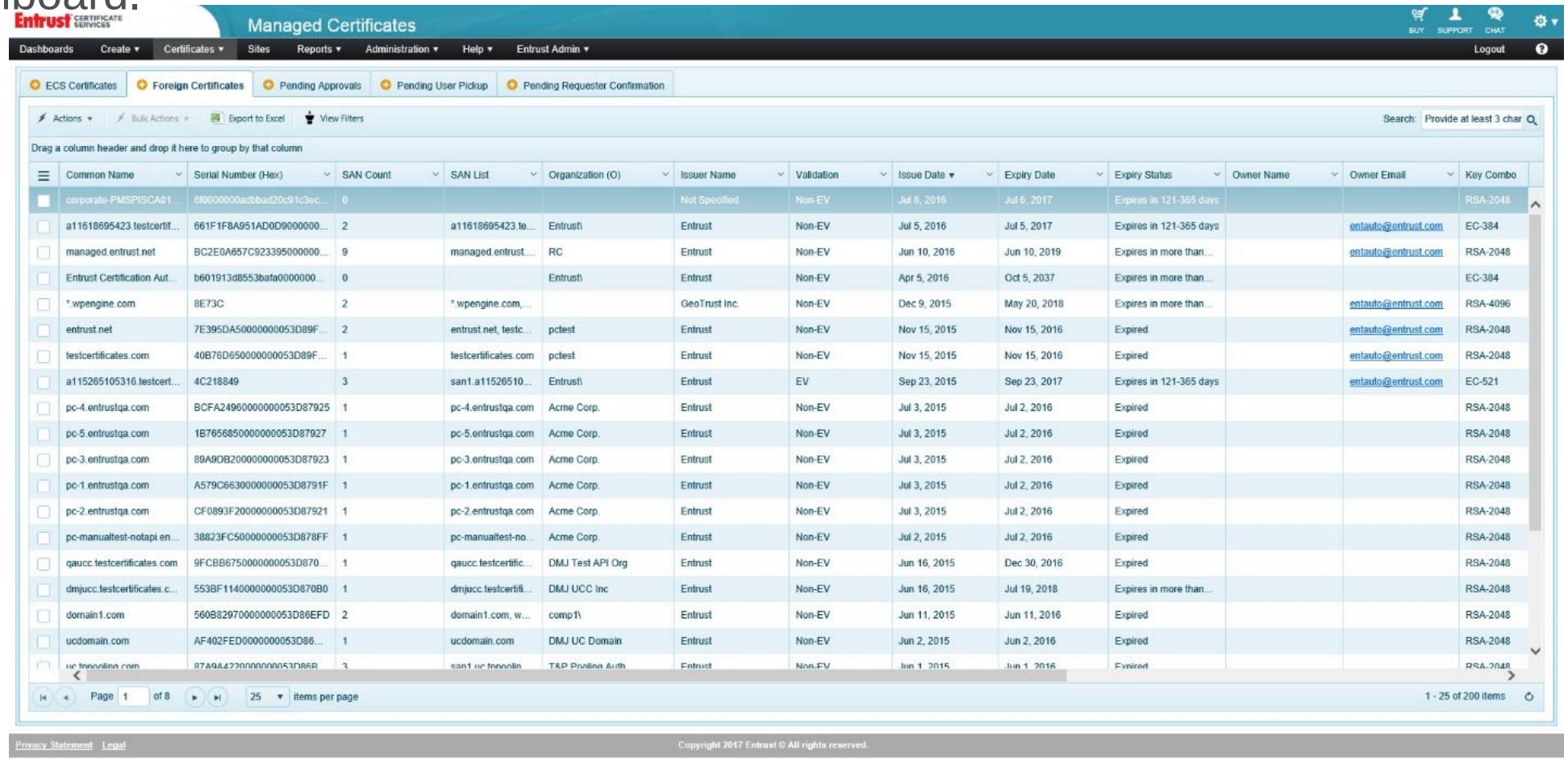
# Discovery Foreign Certificates Tab

Allows a customer to manage certificates issued by different Certificate Authorities consolidating all Entrust Datacard and non-Entrust certificates into a single, centralized dashboard.





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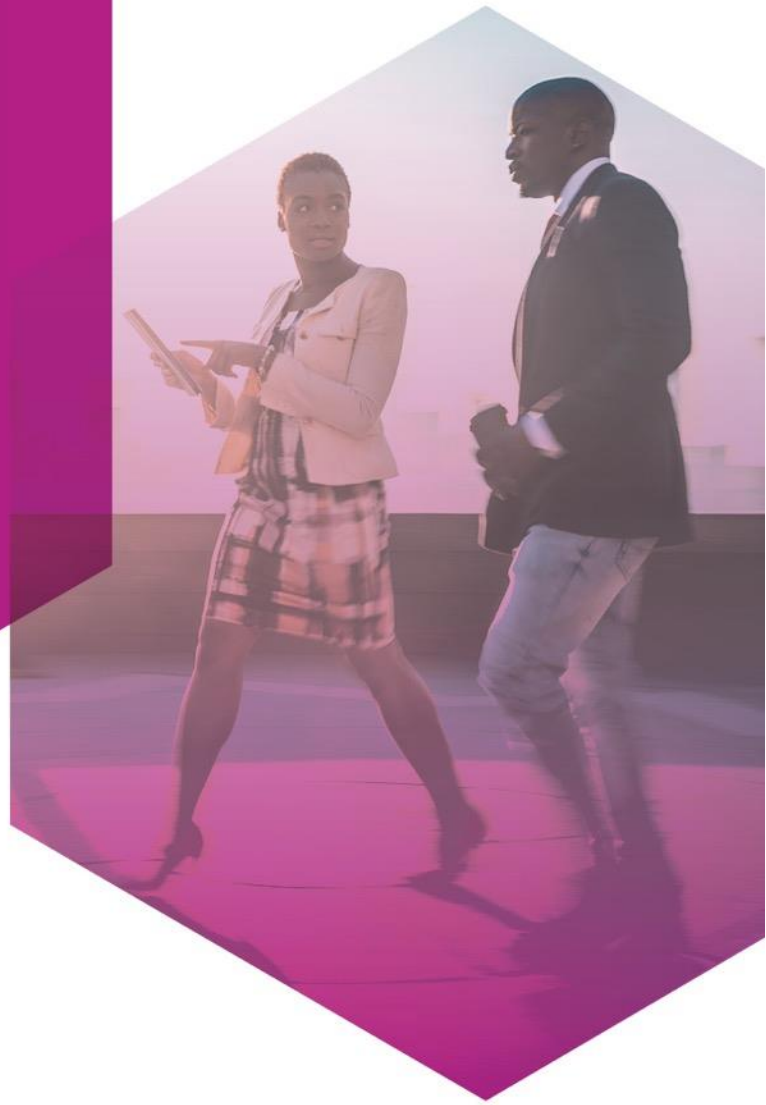
# THANK YOU

**LUCAS MERADO**
ACCOUNT EXECUTIVE
972-728-0423
LUCAS.MERCADO@ENTRUST.COM

# APPENDIX

Supplemental Slides



# Preparing for **Post Quantum (PQ)**

- We are actively leading the discussions in IETF Forums where solutions can be considered within the PQ community
- Our public propositions are published in the IETF standards forum
- Get started with preparing for a PQ world with our [PQ Check List]

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| Entrust Certificate Management Service | Managed (Native) | Managed (Foreign) | Ignored (Foreign) |
|---|---|---|---|
| **Certificate Lifecycle Management:** | | | |
| • Install | ✓ | | |
| • Issue | ✓ | | |
| • Re-Issue | ✓ | | |
| • Revoke | ✓ | | |
| • Renew | ✓ | | |
| • Duplicate | ✓ | | |
| **Certificate Management:** | | | |
| • View Raw Certificate Details | ✓ | ✓ | ✓ |
| • Powerful Customizable Reporting Engine | ✓ | ✓ | |
| • Customizable Multi-Level Expiry Notifications | ✓ | ✓ | |
| **Advanced Certificate Management:** | | | |
| • Policy Violation Alerts | ✓ | ✓ | |
| • Best Practice Alerts | ✓ | ✓ | |
| • Custom Data Fields | ✓ | ✓ | |
| • Certificate Transparency Monitoring | ✓ | ✓ | |
| • Certificate Scoring | ✓ | ✓ | |
| **End-Point Management:** | | | |
| • Certificate Location Details | ✓ | ✓ | ✓ |
| • Certificate Path Validation | ✓ | ✓ | |
| • Vulnerability Assessment (SSL Server Test) | ✓ | ✓ | |
| • Malware Scanning (SiteLock) | ✓ | ✓ | |
| • Reputation Monitoring (SiteLock) | ✓ | ✓ | |

# Entrust Certificate Services

## Requests

**User Roles**
- Requester
- Administrater
- eForm
- Signer

**Connectors**
- REST API
- Venafi
- ServiceNow
- Ansible

**Auto-Install**
- Entrust Turbo (IIS)
- ACME (Apache)

## Native Certs

**SSL Certs**
- DV/OV/EV
- Qualified
- Public/Private

**Signing Certs**
- Code Signing
- Document Signing

**User Certs**
- Secure Email
- Mobile Device

**Verified Mark**

## Management

**Certificates & Web Sites**

| | |
|---|---|
| **Lifecycle Management** Issue, Re-Issue, Revoke, Renew, Duplicate | **End-Point Management** Auto-install, End-point scoring, Locations, Path Validation |
| **Reports & Alerts** Report, Notifications Dashboard, Policy, Best Practice, Low Server Grades, Malware scanning | **Policy Engine** Implement industry policy, manage custom policy |

## Foreign Certs

**Competitive & Microsoft Certificates**

**Entrust PKI, mPKI & retail SSL Certificates**

**Self-Signed & Other Certificates**

## Discover

**Discovery Scanner**
Deploy scanner to find Certificates & location

**Manual Import**
Import un-scannable certificates

**SSL Server Test**
Assess & track end-point configuration

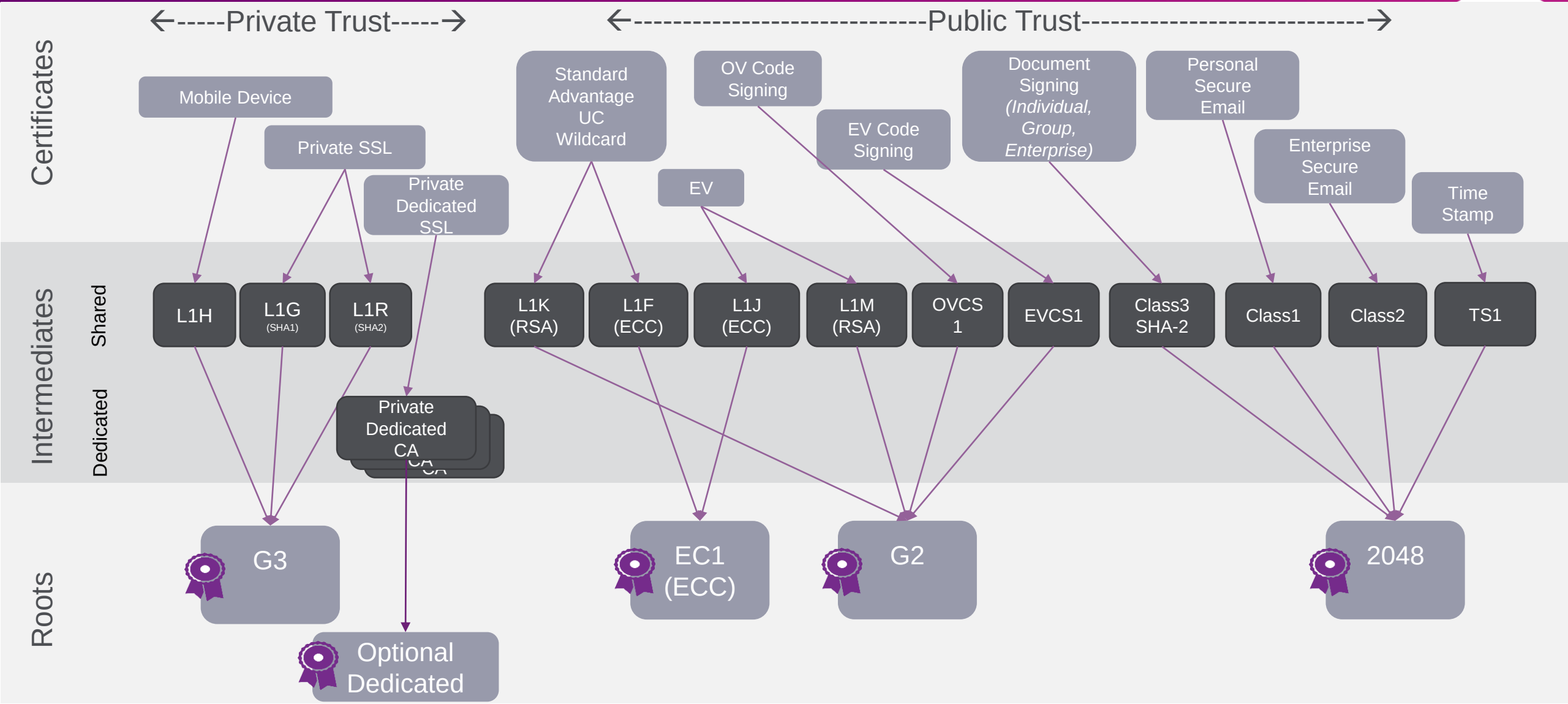
**CT Log Scanner**
Import certificates from CT Logs

**Sitelock**
Assess end-points for Malware & Reputation

---

24/7 Support | Best Practice Advisory | Verification Services | Dedicated Sales Rep | Global Browser Support | Flexible Licensing | Revocation Services | Security Reputation

# Highest Industry SSL Root Ubiquity





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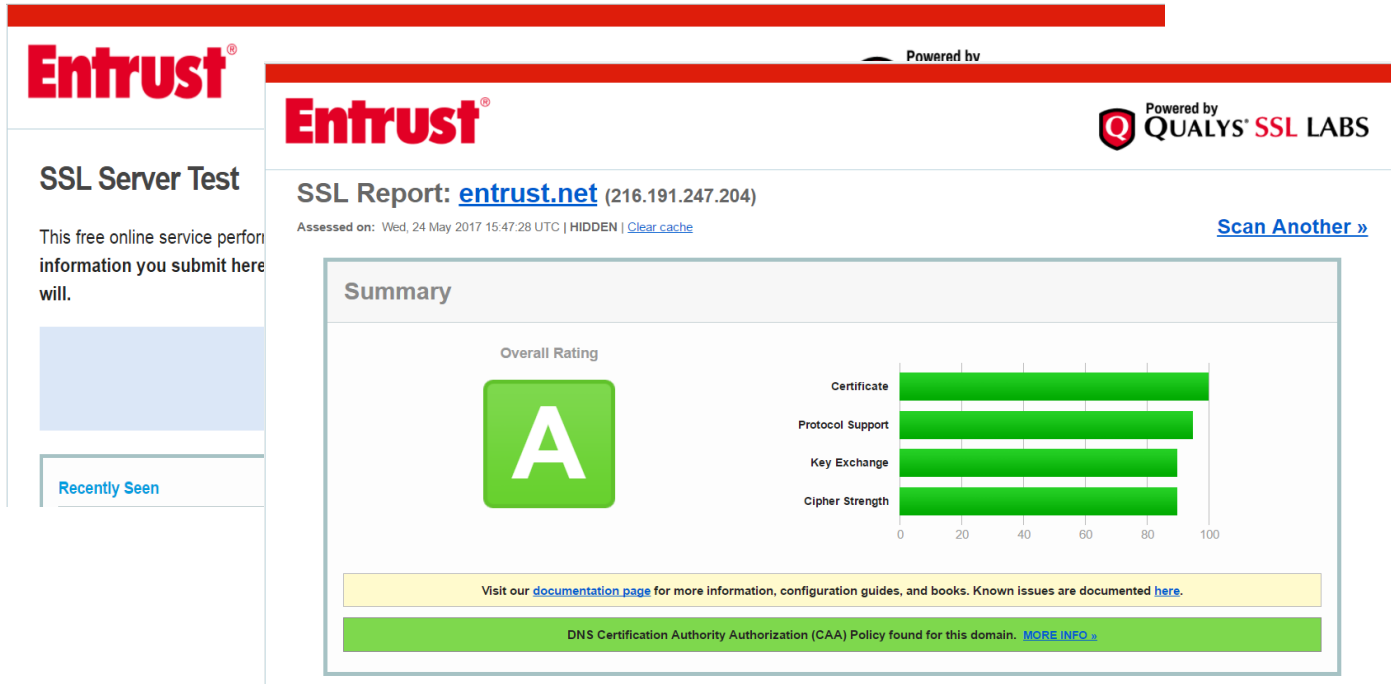
# SSL Server Test

SSL Server Test determine if your web server configuration is set up to support security best practices.

- Integrates with SSL Labs' "SSL Server Test"
- Manual – Go to entrust.ssllabs.com
- Integrated – one-click from ECS, automatically shows and stores results, with optional notification of low scores, silver service customers
- Automatic – one-click from ECS, automatically scans all sites weekly (unless excluded), shows and stores results, with optional notification of low scores, platinum service customers




**SSL SERVER TEST**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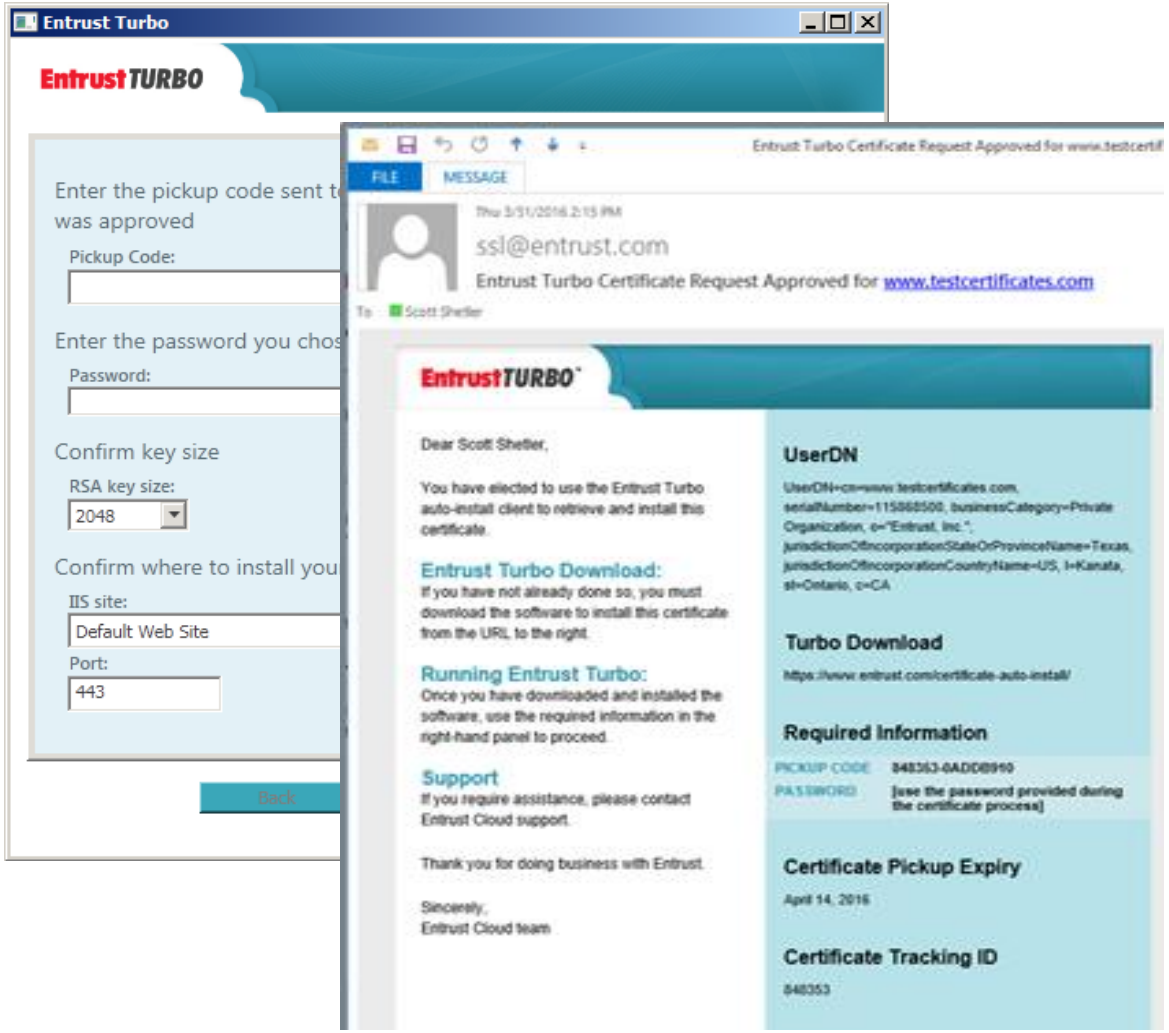
# Turbo

Turbo auto-install client provides a simple method to automatically install and configure SSL/TLS certificates on Microsoft Windows platforms.

- Auto-install client for Windows IIS Servers
- A simple method to automatically install & configure SSL/TLS certificates
- Automated process reduces misconfigurations at the end-point while speeding up processes
- Hassle-free way to support Always-on SSL Best Practices





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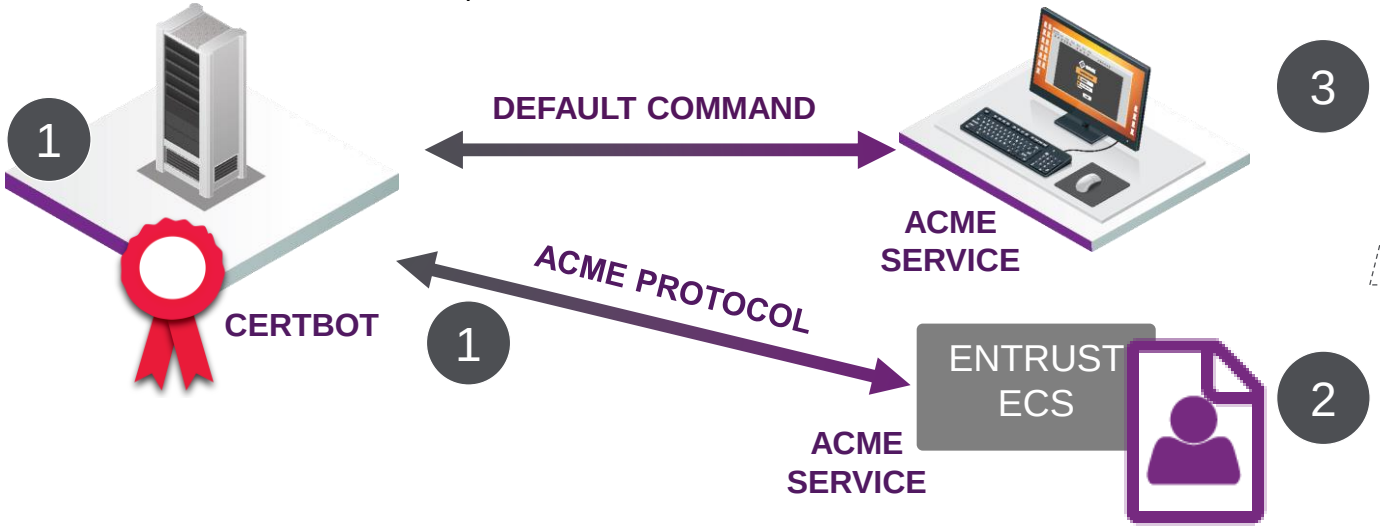
# ACME Services

- Auto-install for Apache & Apache Variant Systems
- No Entrust Datacard client to install
- A simple method to automatically install & configure SSL/TLS certificates
- Automated process reduces misconfigurations at the end-point while speeding up processes
- Hassle-free way to support Always-on SSL Best Practices

Run ACME client with "— server" parameter




3 User receives email instruction to run ACME client again with "— server" parameter
OV/EV certificate & chain auto-installed

Renewal: CRON job to re-run ACME client when cert is x days from expiry

2
- Creates partially completed eForm
- Admin completes & approves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# What is the value add that Entrust Datacard provides?

## Distinct offerings and management capabilities

**Support**

- We have the experience, expertise and track record to help you mitigate risks and stay in compliance
- Prompt, expert support
  - Follow-the-sun support

- **Infrastructure**
- We rely on our own internal infrastructure to maintain a reputable CA.
- Entrust Datacard has an authentic global presence with strategic offices worldwide.

# UC Multi-Domain (SANS Certificate)

- Secures Multiple Domains on One Certificate
  includes website encryption, identification and authentication for four domains: example.com, mail.example.com, buy.example.com, and example.net. Plus www.example.com included for one low price

  * Can secure up to 250 domains ($54 for each additional)
- Discloses organization name in the certificate details (OV Verified)
- Delivers both SSL/TLS encryption and website security

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# Entrust Wildcard SSL/TLS

- Secures one domain www.example.com & unlimited subdomains www.example.com, buy.example.com, mail.example.com, etc.

  * Unlimited certificate duplication
  * Secures up to 250 domains ($54 each) and Wildcard domains ($540 each)
  * Supports hybrid RSA/ECC deployment

- Discloses organization name in the certificate details (OV Verified)
- Supports multiple Wildcard domains
- Delivers both SSL/TLS encryption and website security
- Secures Non-FQDNs for internal domains
  server.local, home.server.local, home-server.local
- Uses the latest encryption technology -- 64-bits of entropy added to the certificate serial number — to add randomness
- Requires minimum verification process (OV Verified)


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# What are S/MIME Certificates?

Provide both **digital identity** and **encryption** to users and employees in an enterprise.

Encryption is provided for **all communication** across different email applications **using PKI technology and/or public and private key pairs**.

The act of **digitally signing and encrypting** an email enables an employee to **prove that the attachments and content originated from the sender's email address** and that it **hasn't been modified during the transit**.

This is also known as **non-repudiation** and can be backed up in a court of law through various legislation.

Entrust Datacard S/MIME certificates include the names of the:

- **Organization**
- **Individual**
- **Email address**

Enabling email recipients to distinguish SPAM or Phishing emails from the emails of a legitimate sender.


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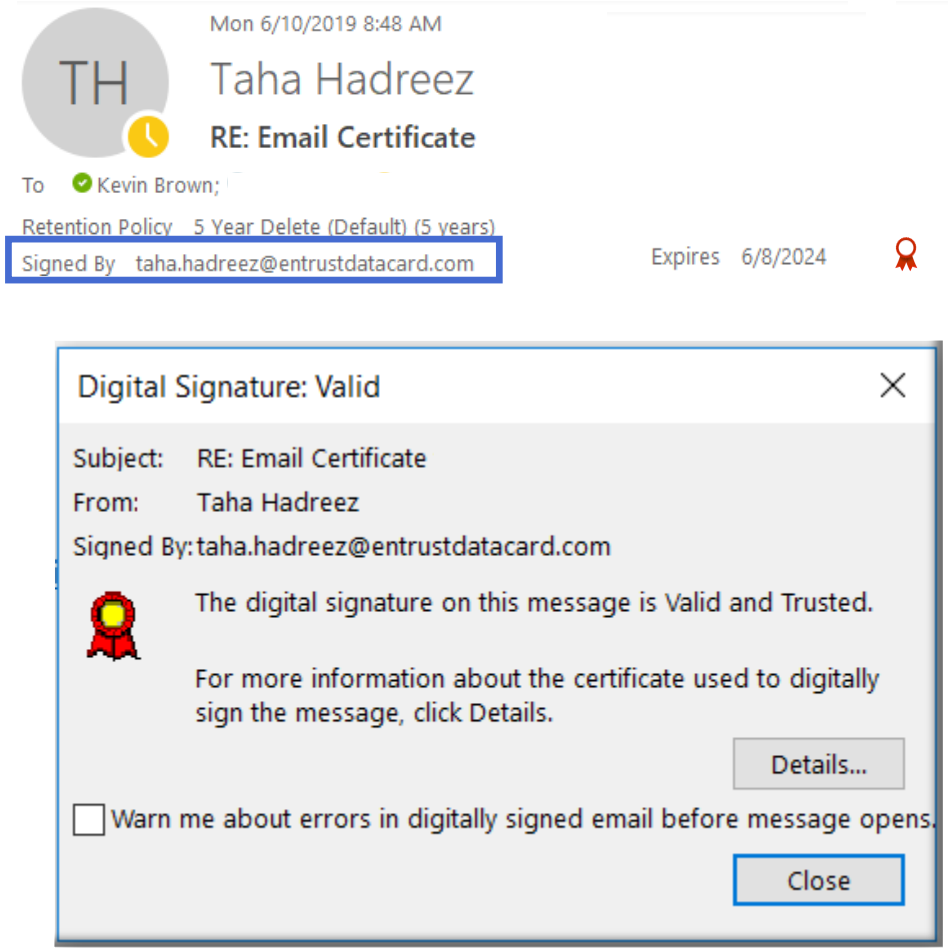
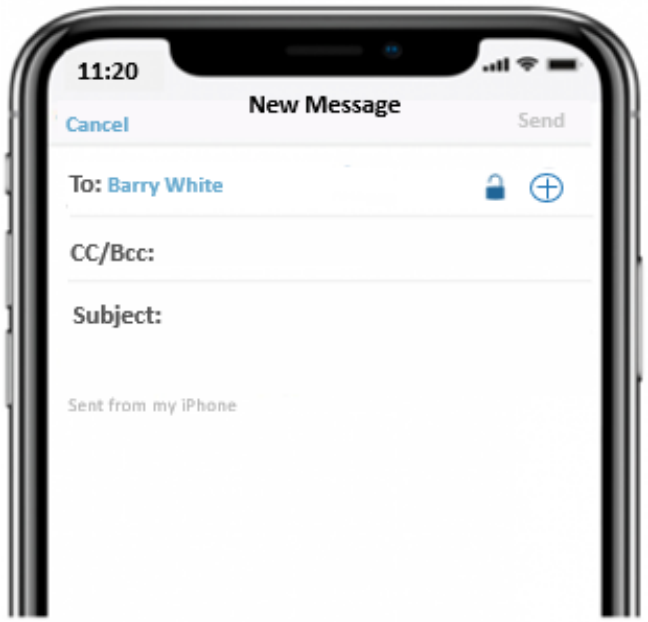
# Trusted Email Experience in Microsoft Outlook



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