# Strong authentication and SSL certificates in Digital world

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Entrust Datacard™

# WHAT IS RESHAPING THE ENTERPRISE ?

## CLOUD & MOBILE RESHAPING THE ENTERPRISE

Workers use an average of

**3 DEVICES EVERY DAY**

to do their work

The number of devices enterprises manage **grows more than 70% ANNUALLY**

**3-in-5**

enterprise employees regularly work outside the office

# Entrust Datacard

**$800M**
in revenue

**24M**
Global financial messages encrypted and secured daily

**150+**
Countries served

**#1**
provider of secure identity solutions globally

**2,200**
employees across 34 global offices

**25**
Countries use our PKI plus the UN, Interpol and NATO

# ENTRUST PORTFOLIO

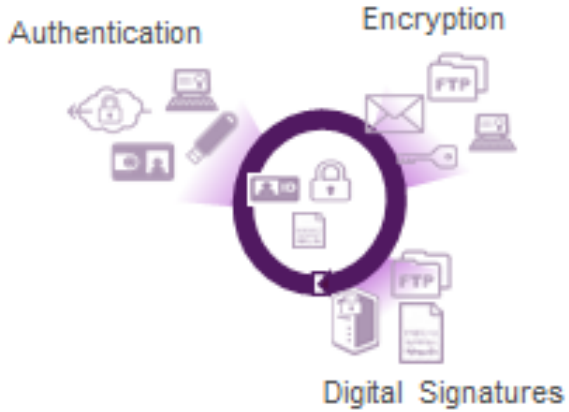
## Identity & Access Management

**Entrust IdentityGuard** — Extensible software authentication platform for mobile, cloud and physical and logical environments

**Entrust GetAccess** — Web access control and single sign-on for online transactions

**Entrust TransactionGuard** — Transaction monitoring, fraud detection, behavior and identity analytics

## Public Key Infrastructure (PKI)




**Entrust Authority** — PKI Certification Authority, digital certificate issuance

**Entrust Entelligence** — Secure, encrypted file sharing and communication

## Entrust Cloud

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# SOLUTION OVERVIEW

## USE CASES

VPN Access

Cloud SSO

Customer & Partner Web Portals

Desktop Login

Mobile – the Primary Computing Platform

Critical On-Premise Systems & Apps

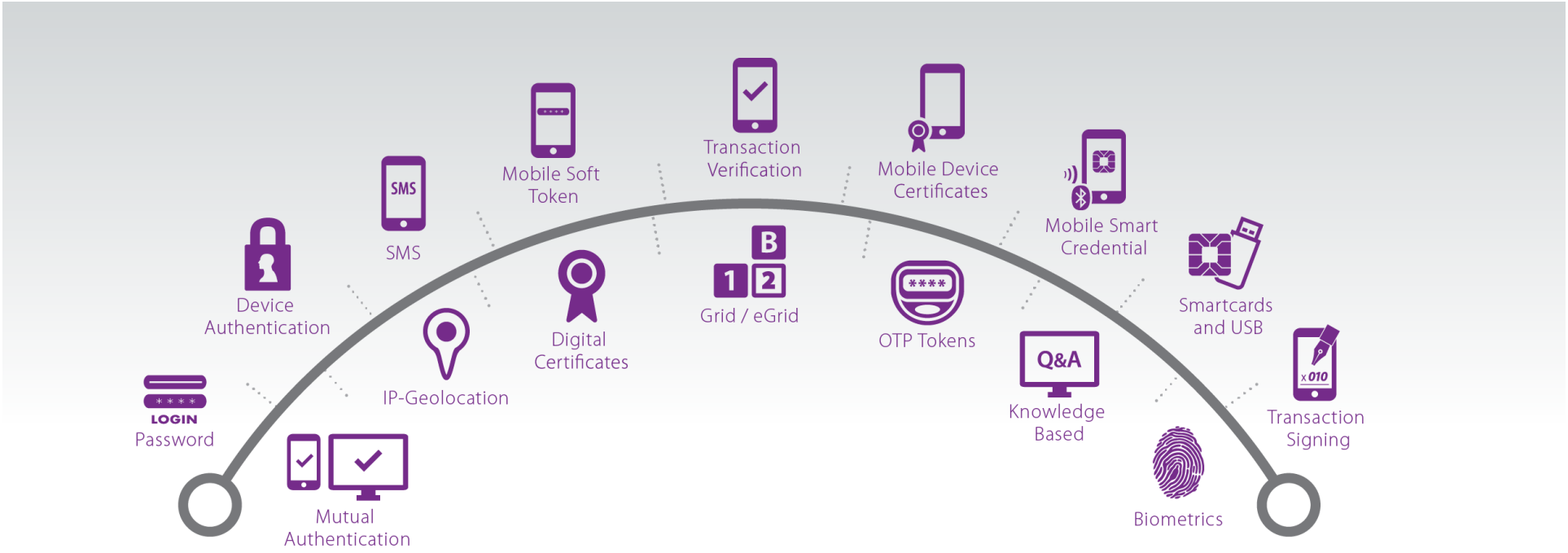
ENTRUST DATACARD
AUTHENTICATION CLOUD SERVICE

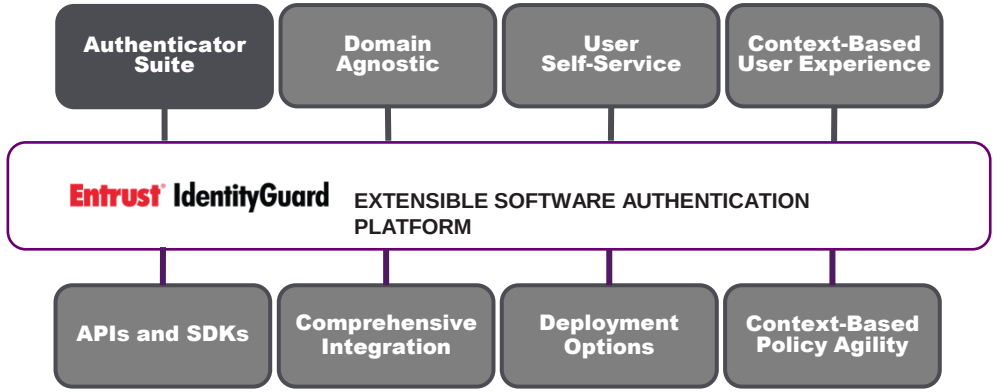
**IT Agility**

- Application Provisioning
- User/Group Management
- Management Reporting

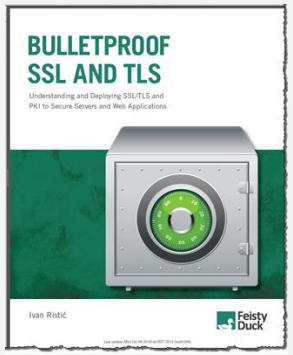
**User Access**

- Authenticator Suite
- Adaptive Access
- User Self Service


LOGIN
Password
Device Authentication
Mutual Authentication
SMS
SMS
IP-Geolocation
Mobile Soft Token
Digital Certificates
Transaction Verification
Grid / eGrid
Mobile Device Certificates
OTP Tokens
Mobile Smart Credential
Q&A
Knowledge Based
Smartcards and USB
Biometrics
Transaction Signing


Authenticator Suite
Domain Agnostic
User Self-Service
Context-Based User Experience
Entrust IdentityGuard
EXTENSIBLE SOFTWARE AUTHENTICATION PLATFORM
APIs and SDKs
Comprehensive Integration
Deployment Options
Context-Based Policy Agility

**Includes eBook by industry expert, Ivan Ristic**



# Security Beyond the Certificate

## Entrust Certificate Services

Centralizes visibility & compliance for all certificate types — regardless of issuing CA

Simplifies end-to-end lifecycle management

## Benefits

Improve service uptime

Avoid security lapses

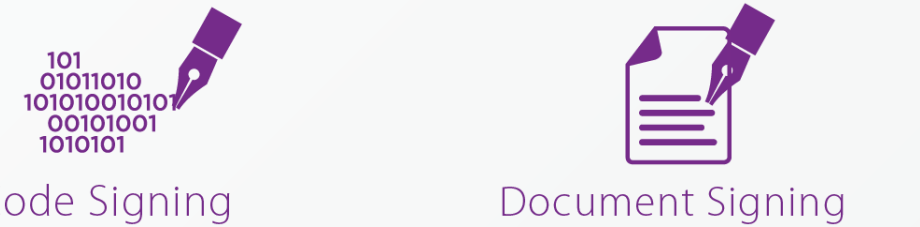
Preserve brand reputation

## Best CtaaS

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

# 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 |

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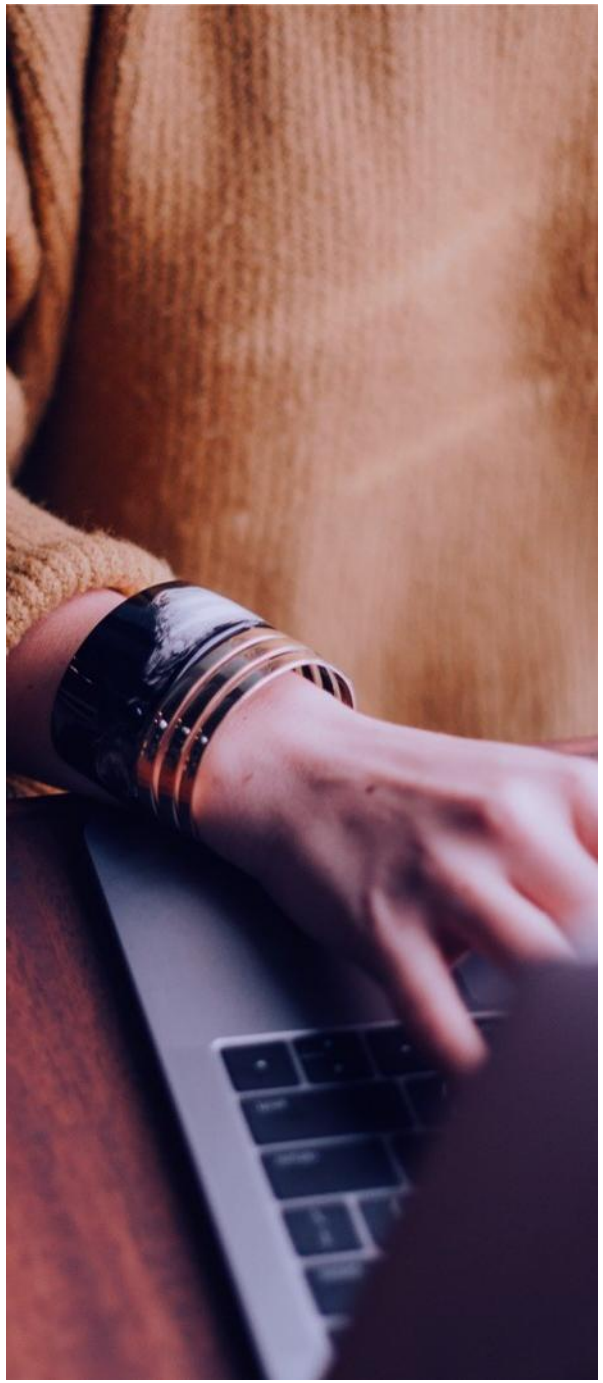
# ECS Enterprise

Certificate Management Platform



# Entrust Certificate Services

## Requests

**USERS**
- Requester
- Administrator
- eForm

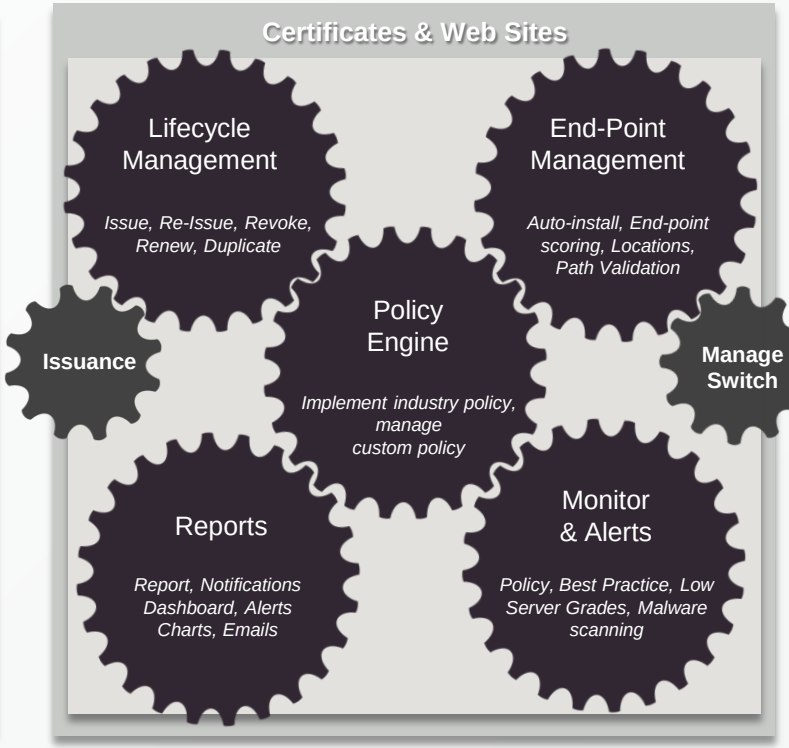
**CONNECTORS**
- API
- Ansible
- ServiceNow

**AUTO-INSTALL**
- Turbo *(IIS)*
- ACME *(Apache)*

## Native Certs

- EV SSL
- OV SSL
- WC SSL
- Private SSL
- Internal SSL
- White-Label SSL
- Code Sign
- Document Sign
- Secure Email
- Mobile Device

## Management




## Foreign Certs

- Competitive Certificates
- ECS Certificates
- Entrust PKI Certificates
- Microsoft Certificates
- Self-Signed Certificates
- Other Certificates

## Discover

- **Discovery Agent** — Deploy scanner to find Certificates & location
- **Manual Import** — Import un-scannable certificates
- **SSL Server Test** — Assess & track end-point configuration
- **CT Import** — Import certificates from CT Logs
- **Sitelock** — Assess end-points for Malware & Reputation
- **CAPI Scanner** — Scan MS CAPI Store for Certificates

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

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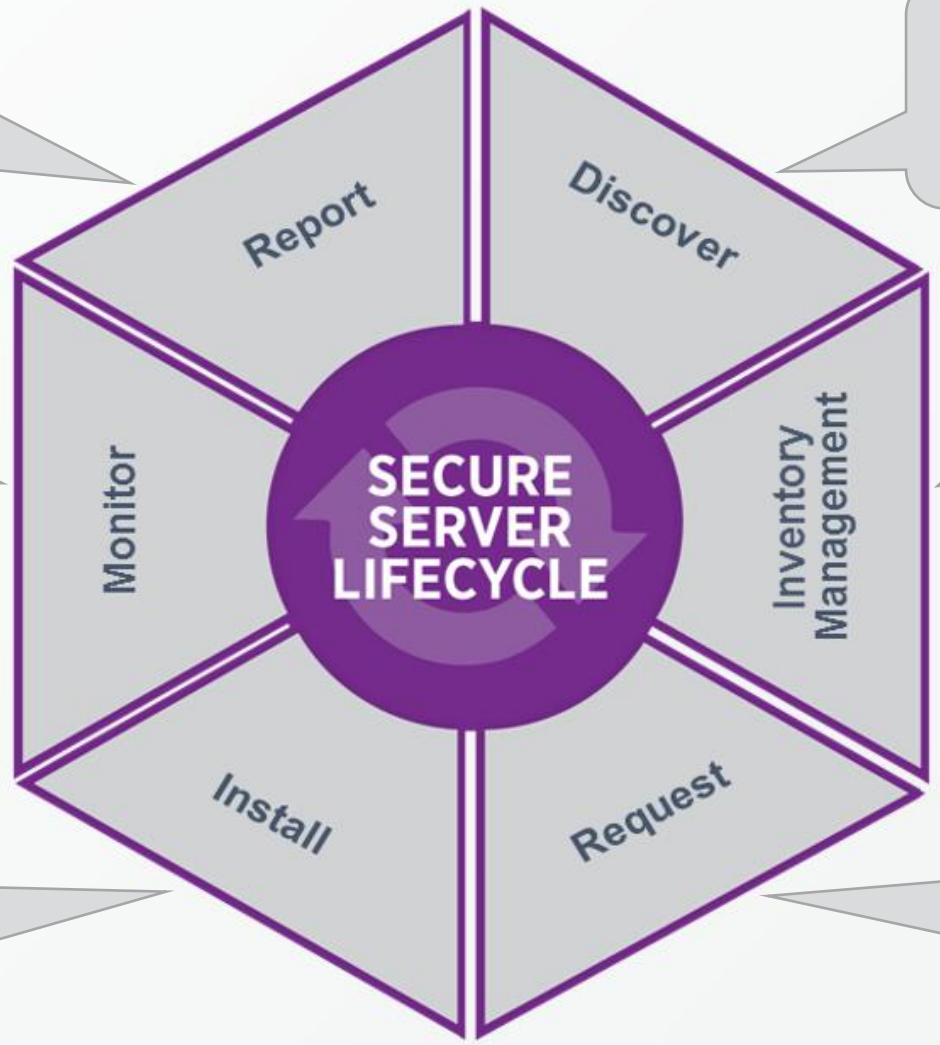
# Best Practices – In Practice

Default and custom reporting on expiry, Inventory.

Find and Discover the certificates on your network




Monitor certificates, web servers for vulnerabilities and applications for threats

Ensure you maximise the Certificate inventory

Use Best Practice for installation and management of certificates

Have in place intuitive request/approval workflows together with customisation options

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# Here’s How It Works

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

1

**Select account term**

1, 2, 3, 4 or 5 years

2

**Set convenient certificate expiration dates**

Issue certificates from 2-27 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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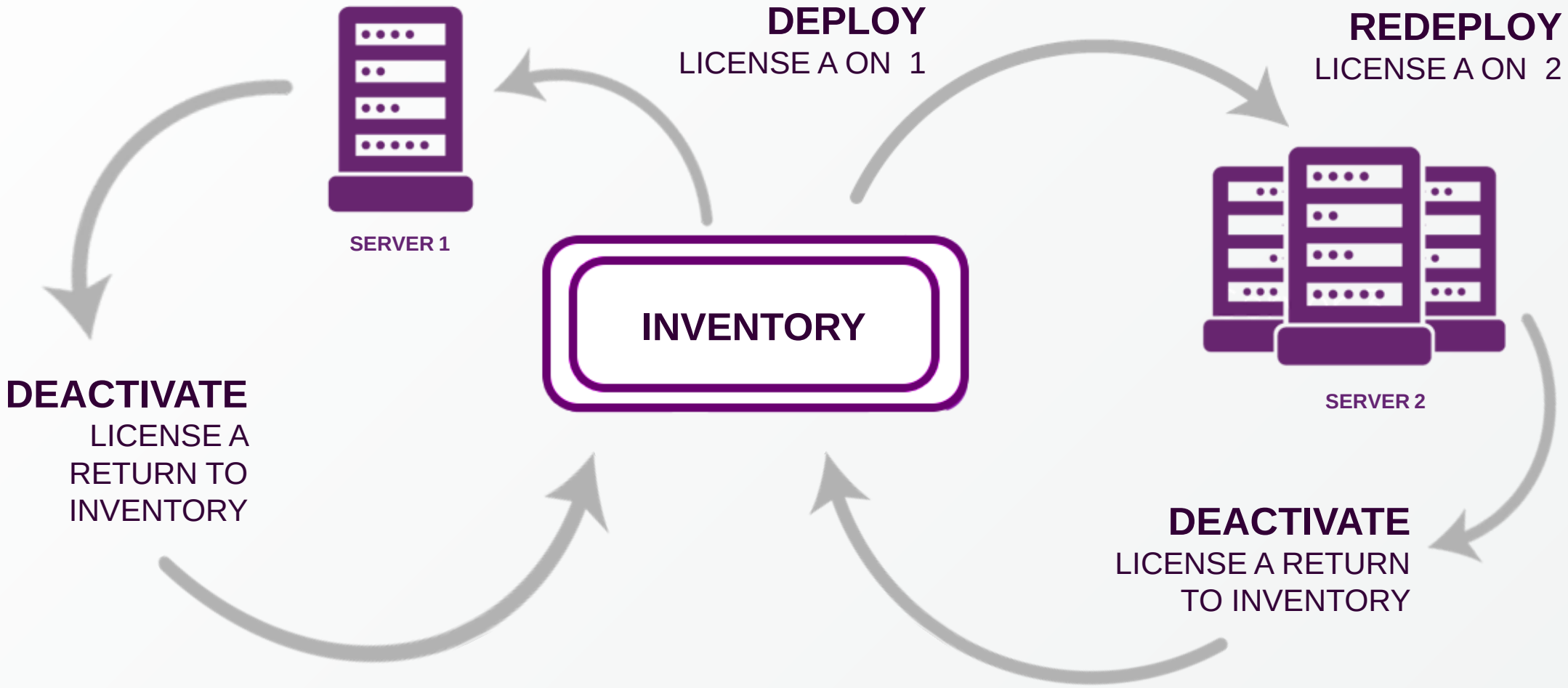
# Used Licenses Are Returned To Inventory For Reuse

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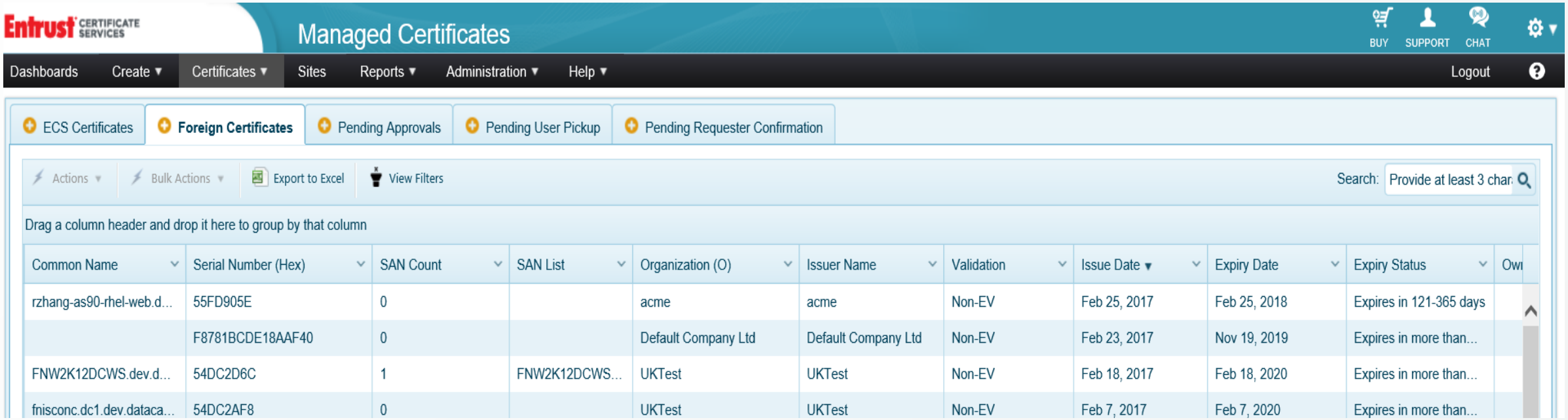
# Certificate Discovery (Managed Certificates Tab)

Consolidates all Entrust and Non-Entrust Certificates into a Single, Centralized Dashboard

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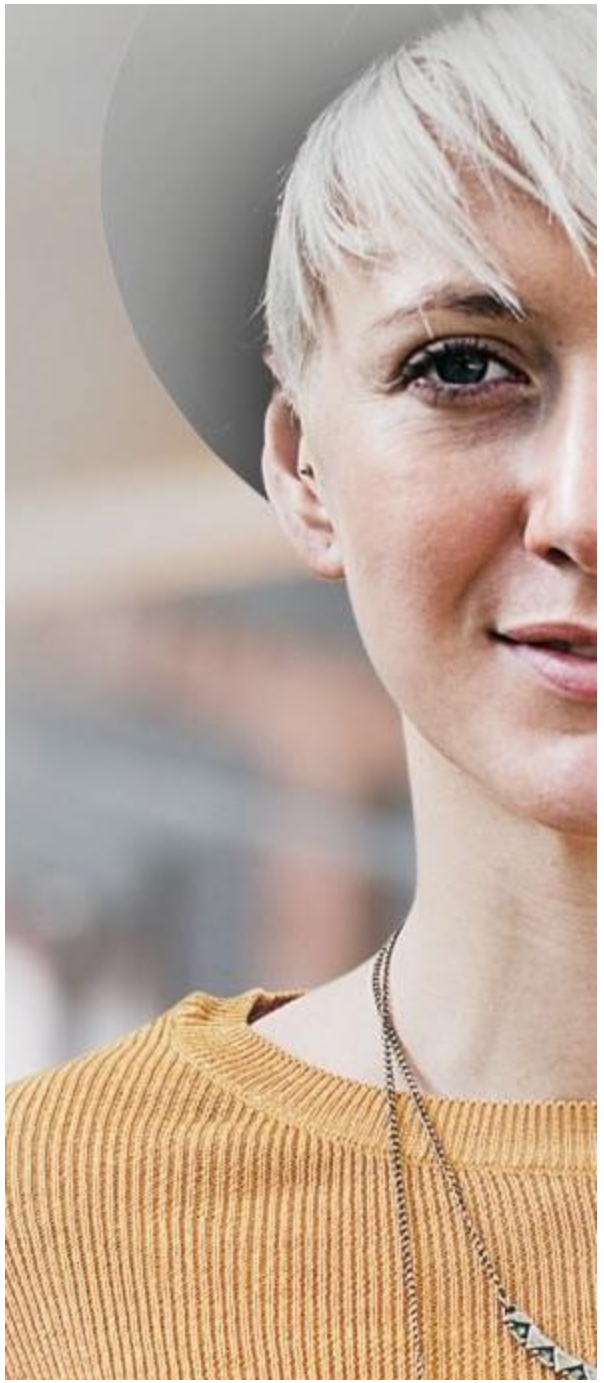
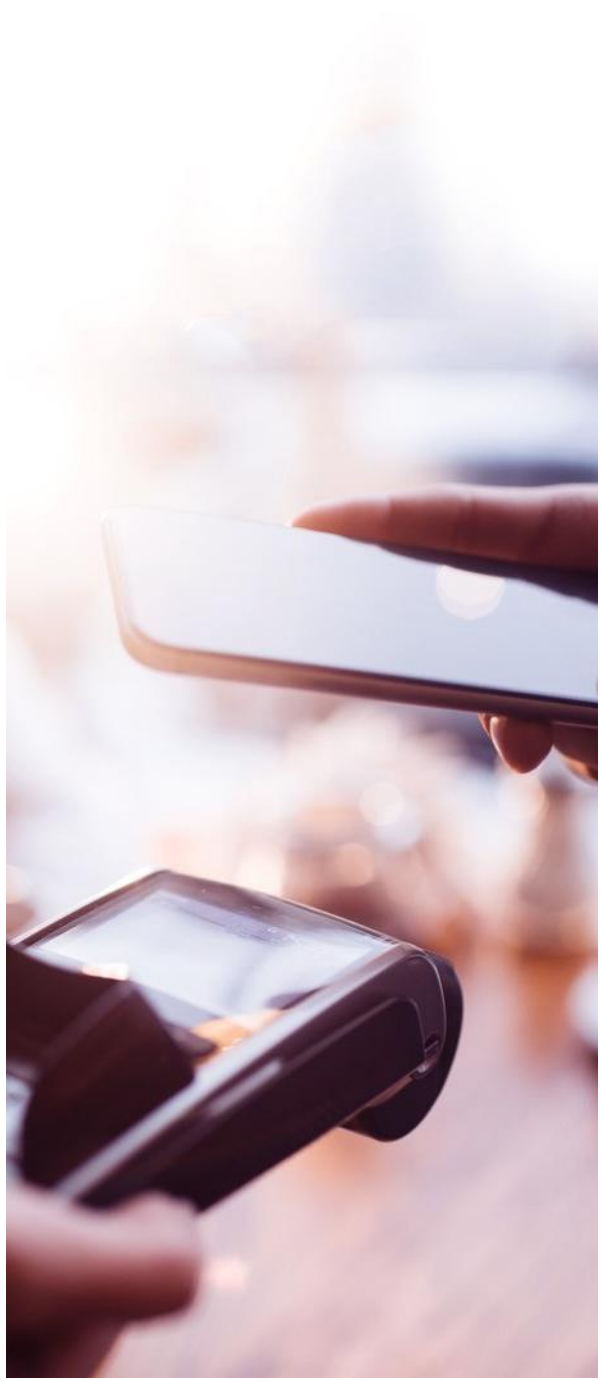
# SSL Automation & Integrations

- Ansible & REST API
- servicenow Integration
- VENAFI® Integration

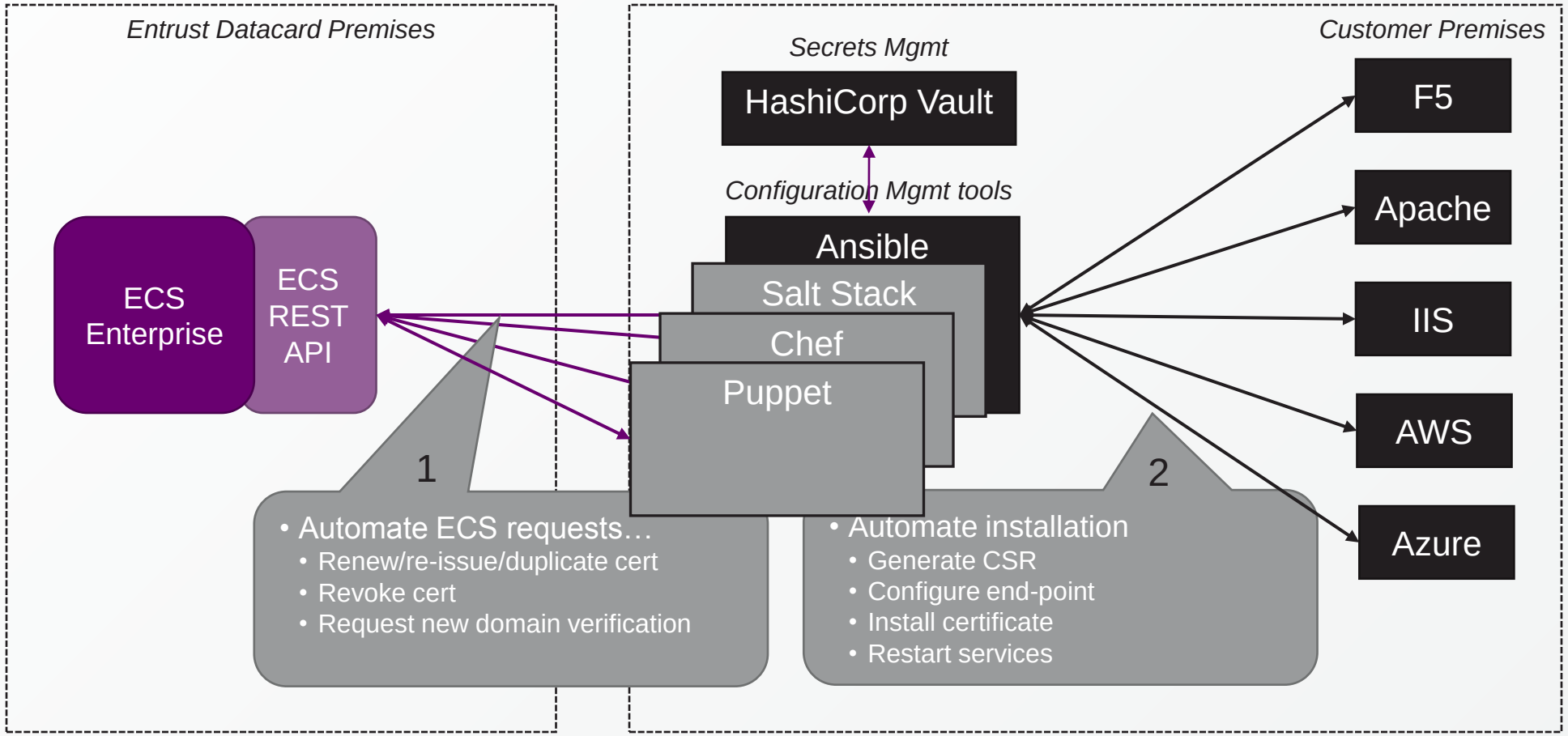


# Ansible Overview

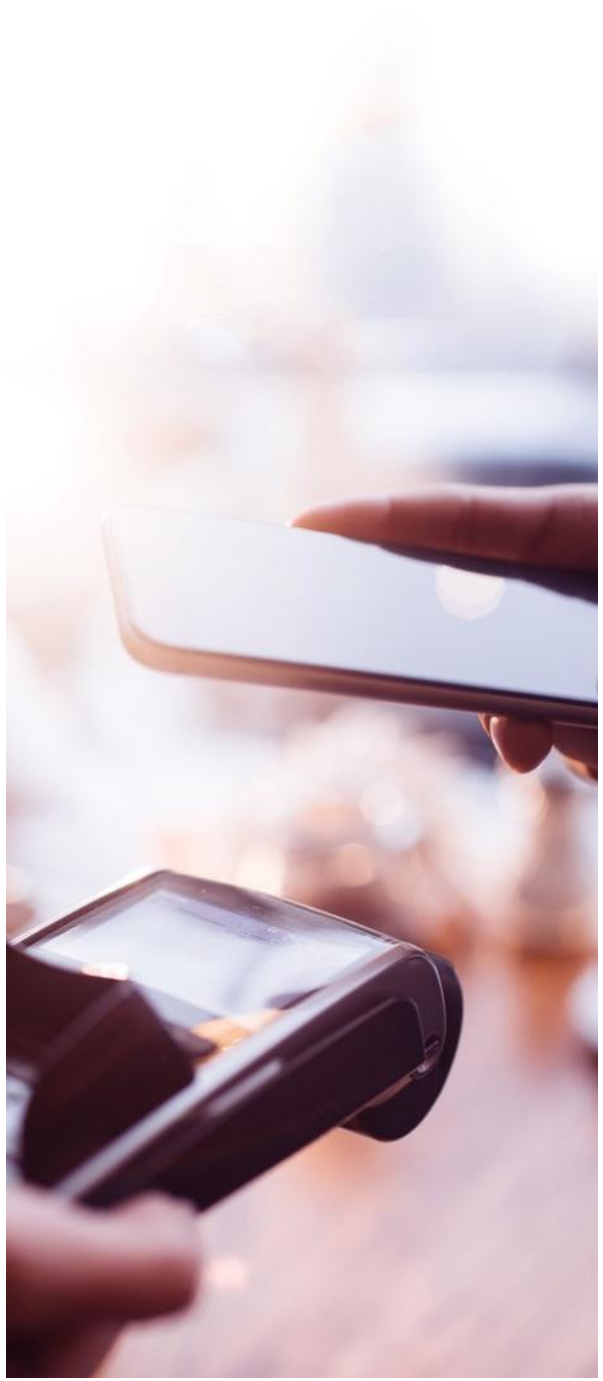


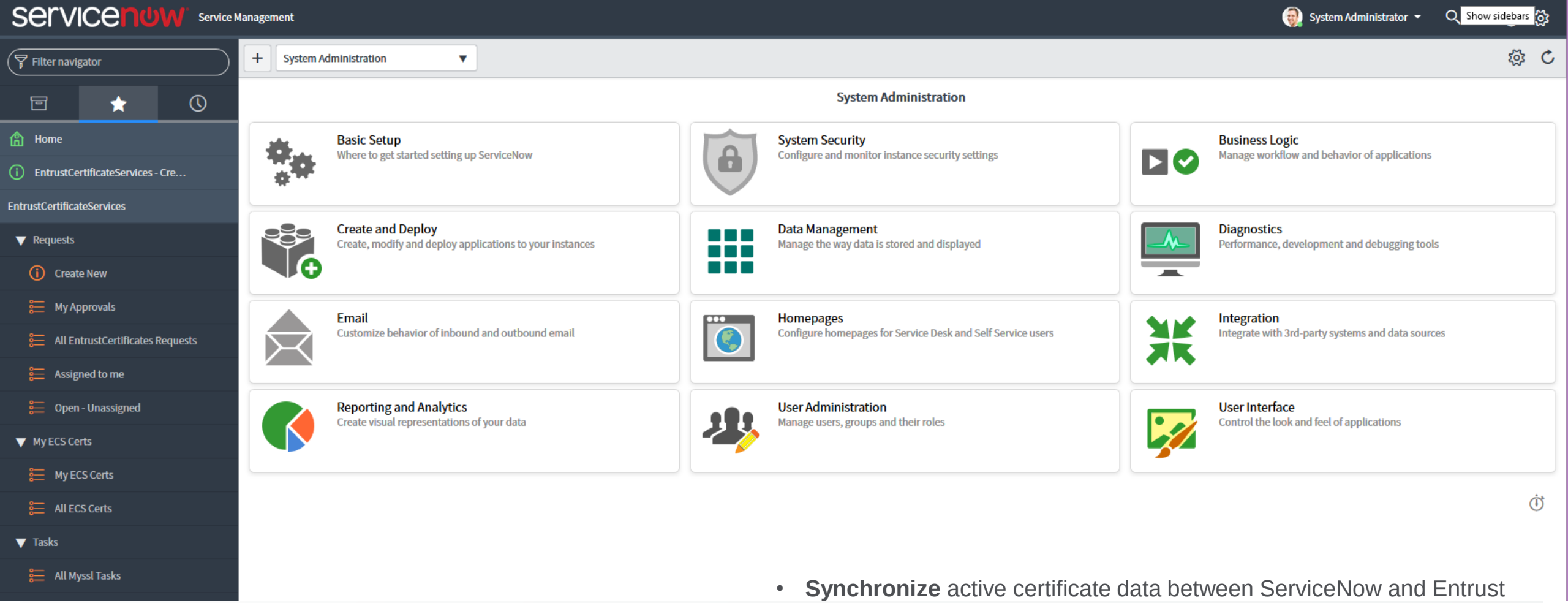
# Automation using DevOps Tools in ECS Enterprise

- Automation using DevOps tools is possible with 12.6 release
- What is DevOps/Orchestration Support?



# ServiceNow Integration






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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# Thank you for your attention

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