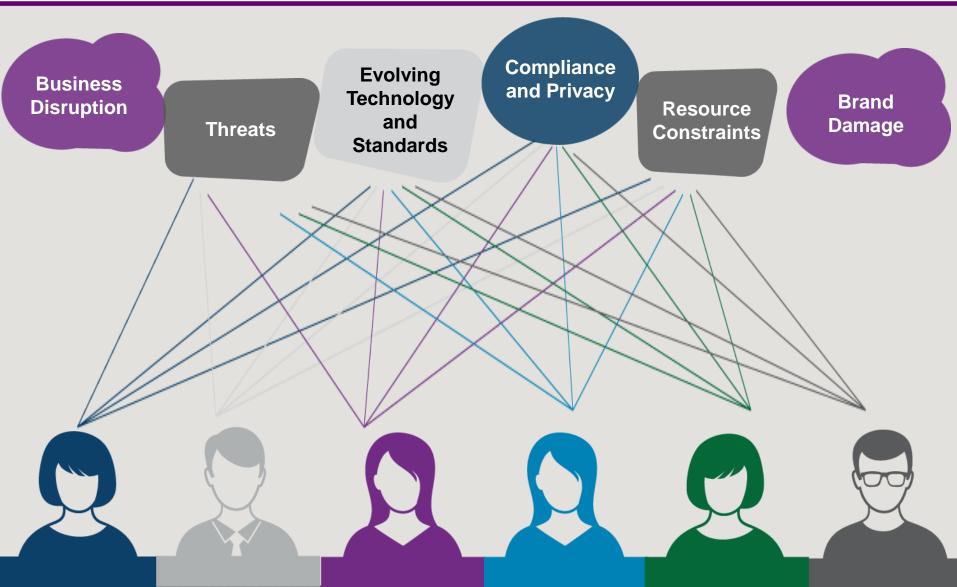


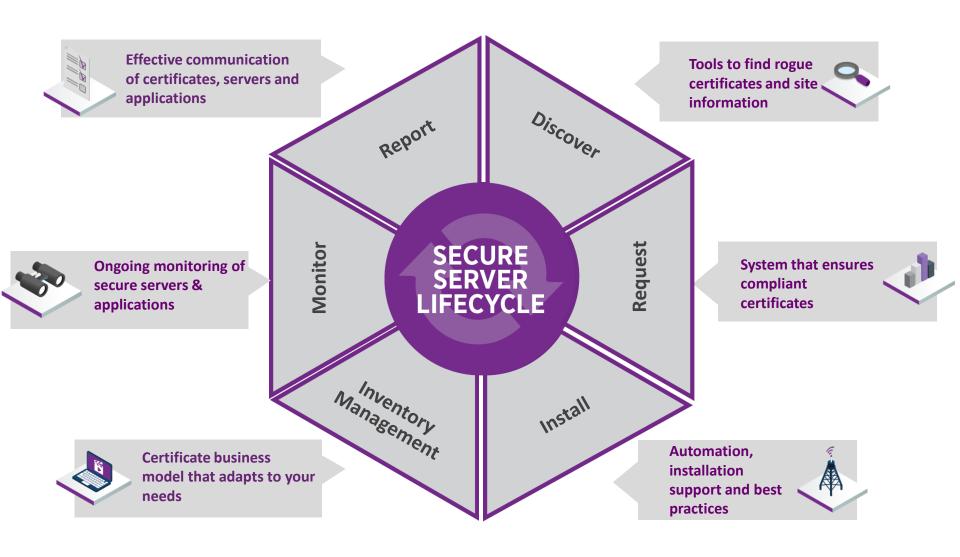
### YOUR HIGH LEVEL CONCERNS







#### HOW THE ECS SOLUTIONS HELPS







#### **ENTRUST DATACARD**

## **ENTRUST CERTIFICATE SERVICES**

# SIMPLIFY CERTIFICATE MANAGEMENT

SECURITY BEYOND THE CERTIFICATE





#### SECURITY BEYOND THE CERTIFICATE

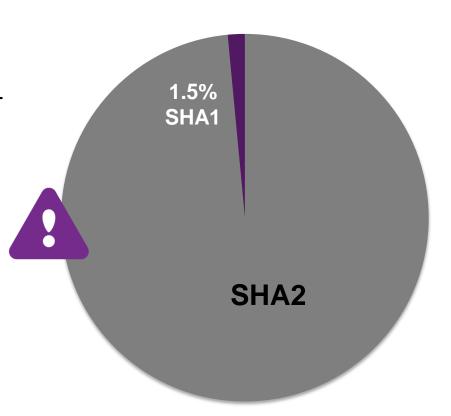
**Native** Foreign Requests Management Discover **Certs Certs** Discovery Agent Requester Competitive **EV SSL Certificates & Web Sites** Deploy scanner to find USERS Certificates **Certificates & location** Administrator **OV SSL Manual Import** Lifecycle **End-Point** eForm **ECS** WC SSL Import un-scannable Management Management **Certificates** certificates Issue, Re-Issue, Revoke, Auto-install, End-point Private SSL Renew, Duplicate scoring, Locations, SSL Server Test **Entrust PKI** CONNECTORS Path Validation API Internal Assess & track end-Policy **Certificates** SSL point configuration Manage ( **Engine** Issuance Venafi White-Label Switch **CT** Import SSL Implement industry **Microsoft** policy, manage Import certificates from **ServiceNow Certificates** Code custom policy CT Logs Sign Monitor Reports Sitelock **Document** & Alerts Self-Signed Sign Assess end-points for Certificates **AUTO-INSTALL** Turbo Report, Notifications Policy, Best Practice, **Malware & Reputation** Dashboard, Alerts Low Server Grades, Secure Charts, Emails Malware scanning **Email CAPI** Scanner Other Mobile **ACME Certificates** Scan MS CAPI Store for **Device** (Apache) **Certificates Global Browser Best Practice Dedicated Flexible** Revocation 24/7 Rapid Security Support Verification Sales Rep Licensing Reputation Support Advisory Services





## **ISSUE: SHA-1 DEPRECATION**

- SHA-1 vulnerable to collision attack
- CAs do not issue public trust SHA-1 certificates
- Browsers and O/S removing trust from SHA-1 signed certificates
- Web sites need to move to SHA-2 to provide trust to end users

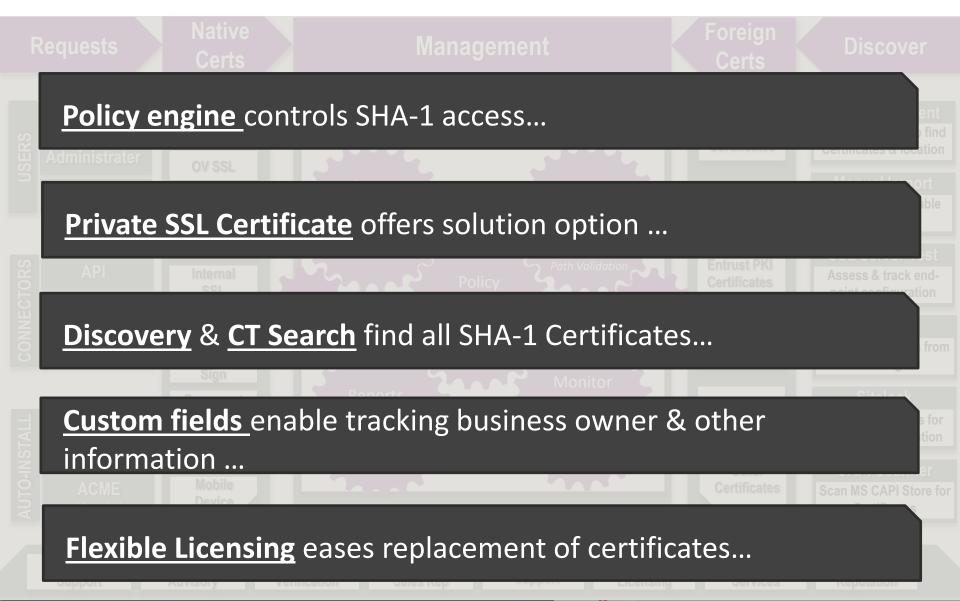


Source: SSL Pulse Jan 2, 2017





## **SOLUTION: SHA-1 DEPRECATION**







### **ISSUE: CURRENT VULNERABILITIES**

- Secured Sites may be susceptible to known & new vulnerabilities
- Vulnerabilities may compromise server data, user data and user privacy
- Administrators may be blind to scope of exposure









## **SOLUTION: CURRENT VULNERABILITIES**

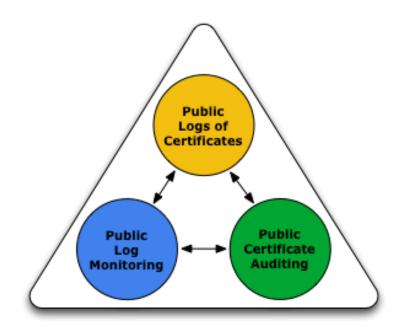
Policy engine controls requests to ensure compliant certificates **SSL Server Test** can expose known vulnerabilities... Automated SSL Server Test provides ongoing monitoring of endpoints with alerts... **Reporting/Dashboarding** can scope exposure... **Best Practice Advisory** & Bulletproof SSL will provide information to mitigate threats...





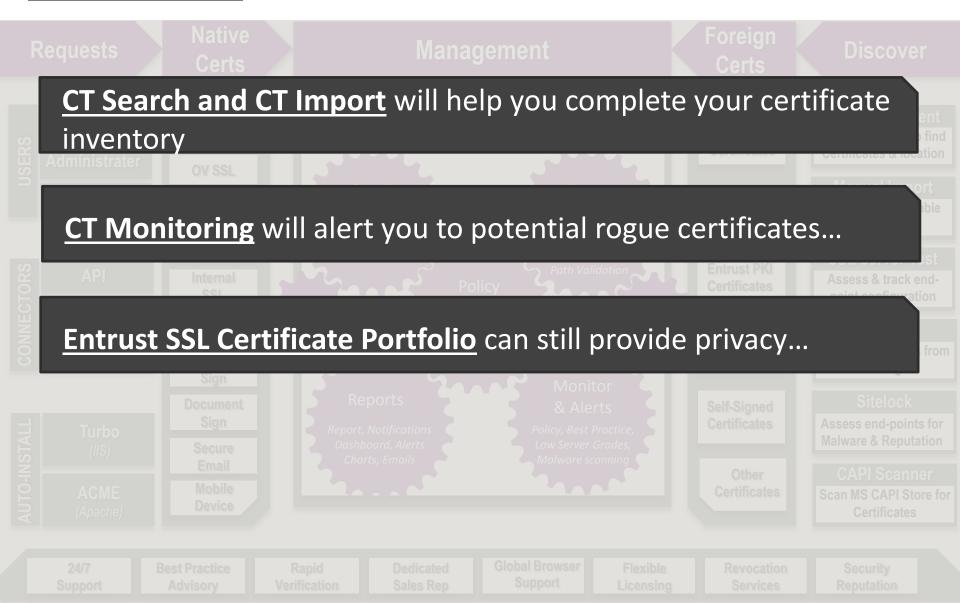
#### **ISSUE: CT & PRIVACY**

- Certificates are posted to CT logs
- Trust with Chrome requires all new certificates logged starting October 2017
- Logs can be monitored to find fraudulent certificates
- However, privacy is an issue as logs are public





## **SOLUTION: CT & PRIVACY**







#### **ISSUE: COMPLIANCE & RISK**

- Everyone is subject to some form of external security compliance
- Many subjected to internal compliance
- Compliance difficult without complete inventory
- If you don't have an inventory you are blind to risk





## **SOLUTION: COMPLIANCE & RISK**

**Policy engine** default provides baseline compliance... **Policy engine** can be configured for corporate compliance... **Discovery** and **CT Import** help find non-Entrust certificates to complete inventory and evaluate against policy...

**SSL Server Test** will assess end-point configuration against policy

**Reporting** can help evaluate certificate and end-point population against policy...





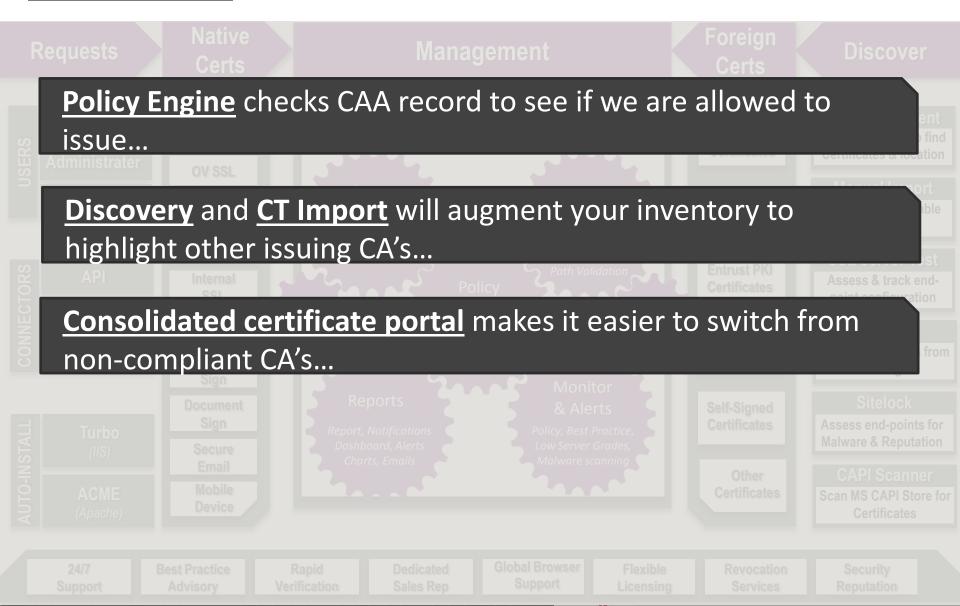
#### **ISSUE: CAA & WHO IS ISSUING YOUR CERTS**

- By default, all CA's are able to issue Certificates for your domains
- Therefore, you can be attacked through any CA
- You should attempt to limit this exposure by leveraging CAA to <u>prevent mis-</u> <u>issuance</u> by specifying and limiting authorized CA's and issuance scope





## **SOLUTION: CAA & WHO IS ISSUING YOUR CERTS**





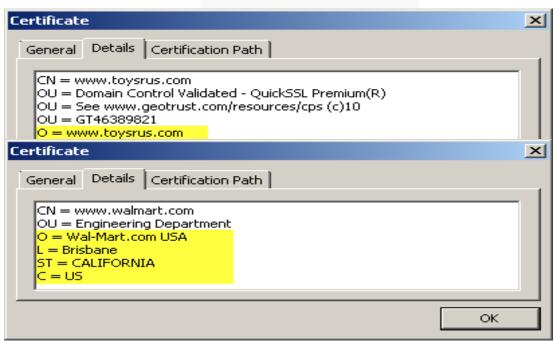


#### **ISSUE: DV & FALSE SECURITY**

- Very Cheep or Free
- Fast issuance
- Automated Validation







HTTP + S → S for free, DV has no authentication!
You do not know the identity behind the Webpage





**Encrypt** 

## **SOLUTION: DV & FALSE SECURITY**

Requests Nativ

Management

Foreign Certs

Discover

<u>Security Posture</u> examine security history... have they ever been compromised?

**Business Focus** Do certificates constitute a substantial part of their business?

<u>Services Offered</u> CRL/OCSP availability & performance, OV and <u>EV certificates...</u>

Certificate Management Option Do they offer a Enterprise level certificate management platform and services?

**Support** contactable and local? Partners in local area?



#### SECURITY BEYOND THE CERTIFICATE!

## TRUSTED BRAND

Security focused

Valued by industry standards groups

Respected client base

Strong reputation for innovation

## ROBUST OFFERINGS

Most Versatile Digital Certificates Portfolio\*

Full range of SSL certificates

Signing and user certificates

Private SSL & mobile device certificates

Integrated Certificate
Discovery

## SERVICE EXCELLENCE

Best CTaaS\*

**Best Customer Service\*** 

**Best Innovation\*** 

Top website performance

"Best Practices" approach

Global browser & server compatibility

## EASY TO DO BUSINESS WITH

Dedicated sales rep

Cost saving reusable license plan

Flexible policies

Integrated suite of products

Annual account review

#### **PEACE OF MIND**

Trusted Identities | Secure Transactions™

\*2016 Frost & Sullivan Award Winners





## Thank You!







