XTEC™ Authentication and security solutions you can trust

FedRAMP Cloud - Leveraging a High Environment for Secure Deployment

This proposal includes data that shall not be disclosed outside Notarize and shall not be duplicated, used, or disclosed – in whole or in part – for any purpose other than to evaluate this proposal.

Agenda

I. WHAT WE DO

II. XTEC FEDRAMP SERVICE

III. XTEC AND THALES

IV. DEPLOYMENT THOUGHTS

Luna as a Service - Cloud-Based Hardware Security for Government

- **Industry-Leading, FedRAMP High Authorized**
- **Thales Luna T-Series Network HSM Now Available in the Cloud**

- **Benefits:**
  - Cloud deployment flexibility
  - Zero upfront costs, pay-as-you-go pricing
  - Focus on your mission, not hardware management
  - High availability included
  - Supports Cloud Smart initiatives

XTec Corporate Overview

- **US Based**
- **Industry Focus & Dedication**
- **Scope of Services**
- **Strong Authentication Focused**

Qualified **Compliant** **Economical**

Incorporation
Founded in 1992

Headquarters
Miami, Florida

Government Initiatives
Reston, Virginia

First Central Smart Card Issuance Solution for the Federal Government

End-to-End Knowledge and Solutions

XTec Solution Overview

Purpose Built

Security First

Infrastructure

Performance

Authentication

Experience

Products

- Enrollment & Issuance Solutions
- Lifecycle Management Solutions
- Authentication Authority
- Physical Access Solutions
- HSM-AAS

Services

- System Integration Services
- Help Desk Services
- Program Support Staff

Proven **Secure** **Reliable**

Certifications

- Compliance
  - Certified PIV-I Issuer
  - NIST FIPS 201
  - GSA APL Approved
  - Over 12 C&A's
- FedRAMP High Authorized

Agency	Confidentiality	Integrity	Availability	Overall
BBG	*Moderate*	*Moderate*	*Moderate*	*Moderate*
U.S. Navy	*Moderate*	**High**	*Moderate*	*Moderate*
DHS	**High**	**High**	**High**	**High**
DOL	*Moderate*	*Moderate*	*Moderate*	*Moderate*
DOS	**High**	**High**	**High**	**High**
NSF	*Moderate*	*Moderate*	*Moderate*	*Moderate*
Smithsonian	Low	Low	Low	Low

FedRAMP

- **Federal Risk & Authorization Management Program**
- **Run by GSA, with DHS & DoD**
- **Securing the Cloud for Federal Use**

FedRAMP = Cloud Service Provider (CSP)

+ Security Controls (SP 800-53)

+ Authorization

+ Do Once, Use Many

FedRAMP and AUTHENTX CLOUD

FEDRAMP MARKETPLACE

FedRAMP at a Glance

READY	IN PROCESS	AUTHORIZED
23	89	296

(as of March 17, 2023)

Impact Level

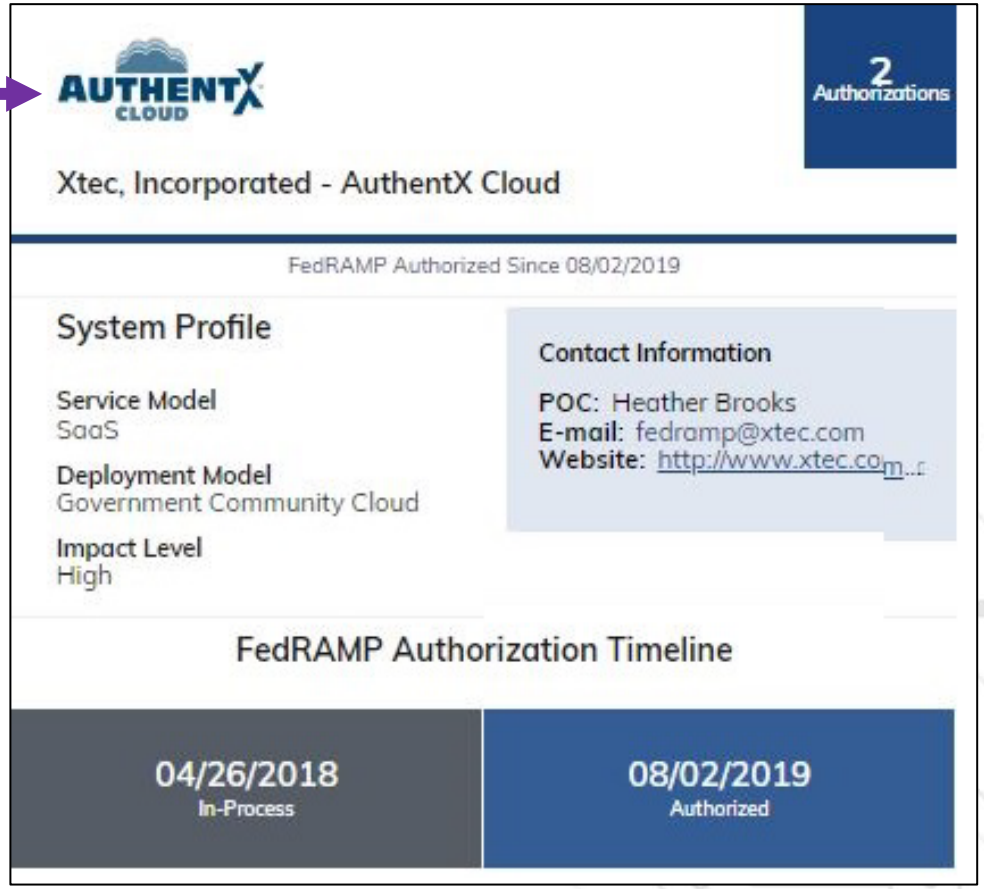
24 High

231 Moderate

6 Low

35 Low – SaaS

296 Authorized



Compliance

- FedRAMP Authorized
- FIPS 201 Approved
- Approved PIV/PIV-I Issuer
- ISO 21188 (PKI at Financial Organizations)
- Section 508 (Accessibility)

Continuous Monitoring

57 Controls Continuously Monitored

Including:

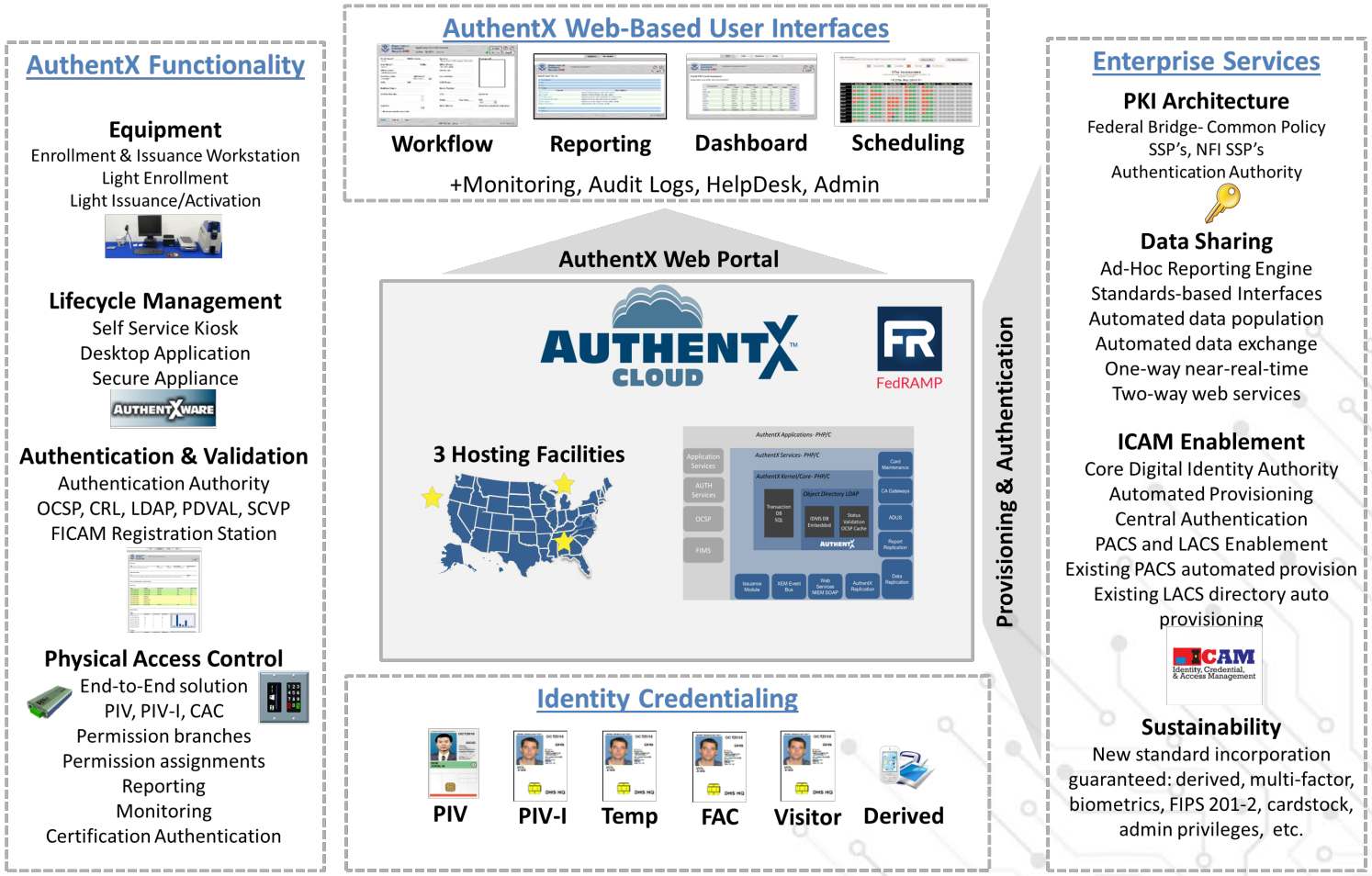
- Monthly Vulnerability Scans
- POA&M Flaw Tracking
- Annual 3PAO Assessment

ISO 21188

AuthentX Cloud Big Picture

Functionality

- Identity Management
- Credential Management
  - PIV, Derived PIV
  - PIV-I
  - Mobile, Other
- Digital Certificate Services
- Physical Access Control
- Hardware Security Module (HSM) as a Service (HaaS)



AuthentX Cloud Customers

Executive Branch

- US Agency for Global Media
- Department of Energy
- Drug Enforcement Administration
- National Science Foundation

Judicial Branch

- US Courts
- US Court of Appeals for Veterans Claims

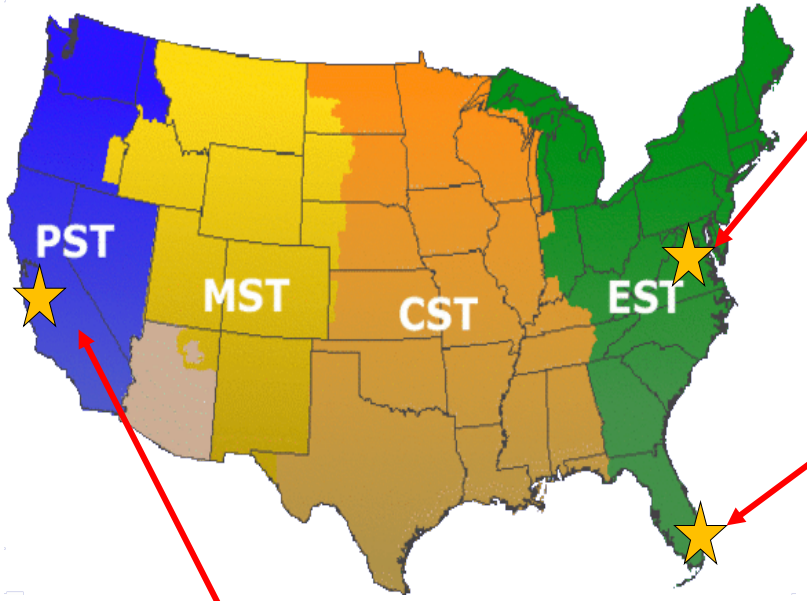
Commercial

Fiserv organizations requiring **strong authentication** to federal agency systems:

- Dept. of Treasury
- Dept. of Education

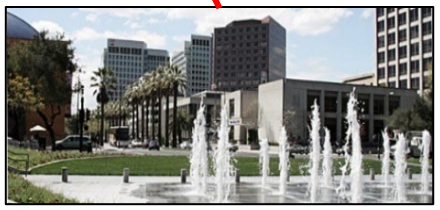
Cloud Hosting

- Equinix Data Centers
- Highly Available
  - 3 Geographically Remote Facilities
  - Data Replication
  - Load Balancing
  - Each Site Serves as a Primary
- Highly Secure
  - XTec Private SCIF (Miami)
  - Secure Cages (Culpeper, Santa Clara)



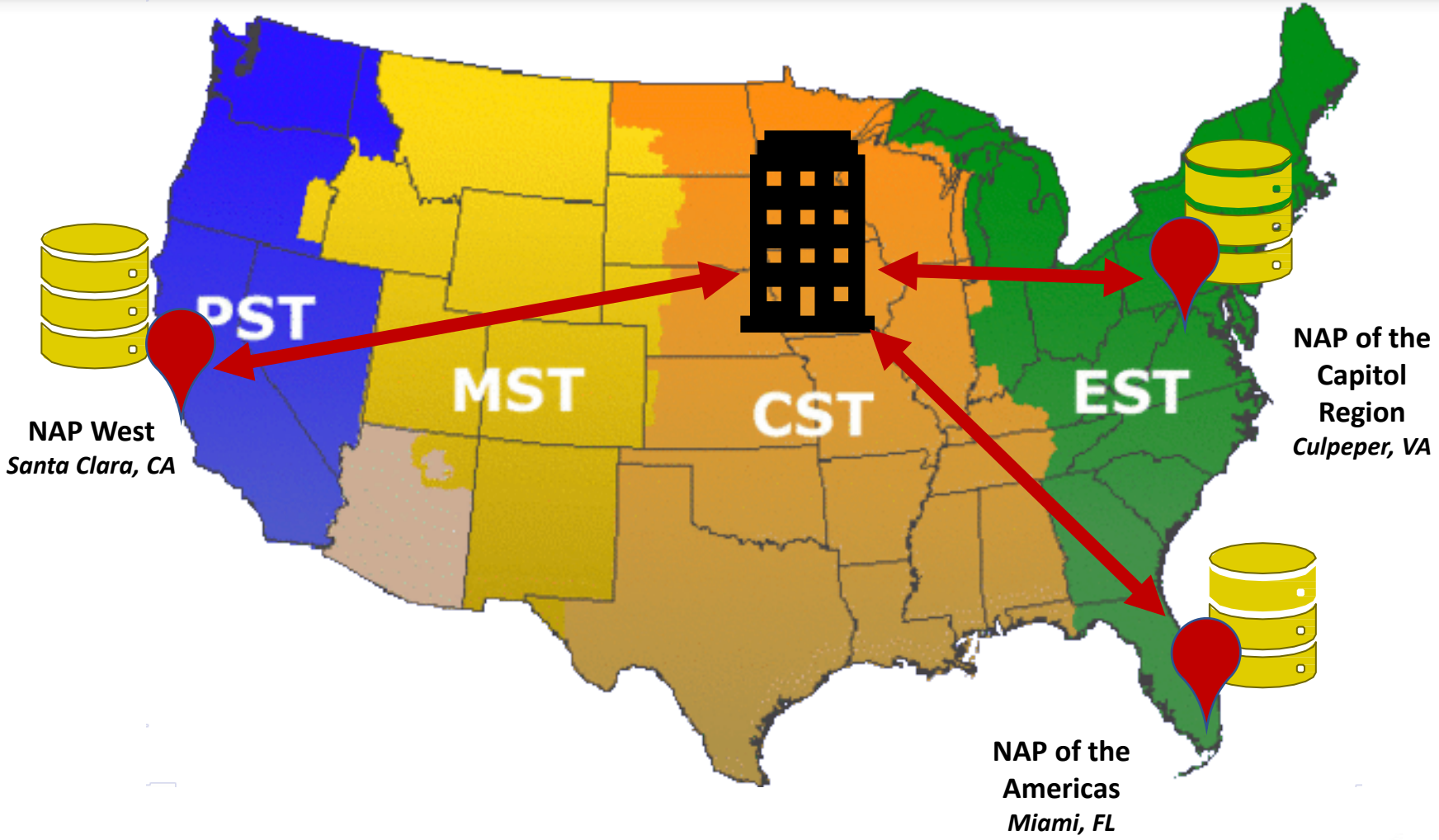
NAP of the Capitol Region
Culpeper, VA

NAP of the Americas
Miami, FL



NAP West
Santa Clara, CA

Luna as a Service Architecture



Dedicated HSM

- Full cryptographic control
- Access to a single appliance hosted at 1 of 3 datacenters.
- High Availability Option
- Add a local Backup HSM for offline storage.

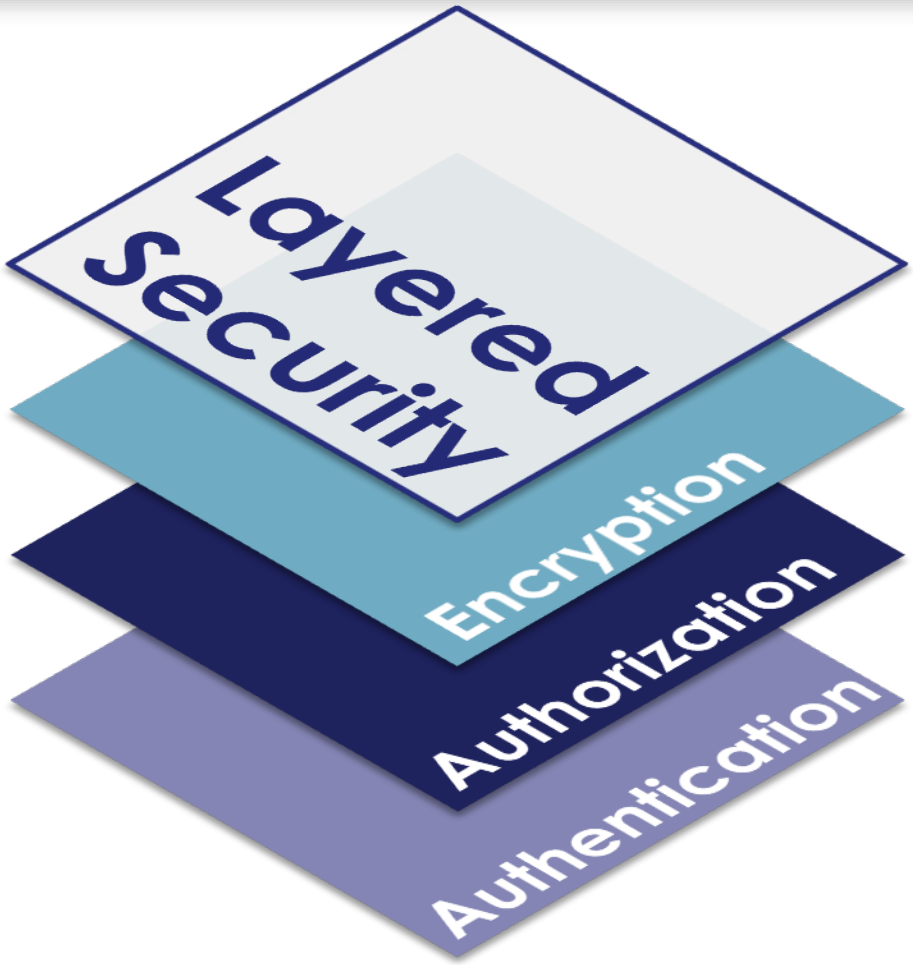
Managed HSM

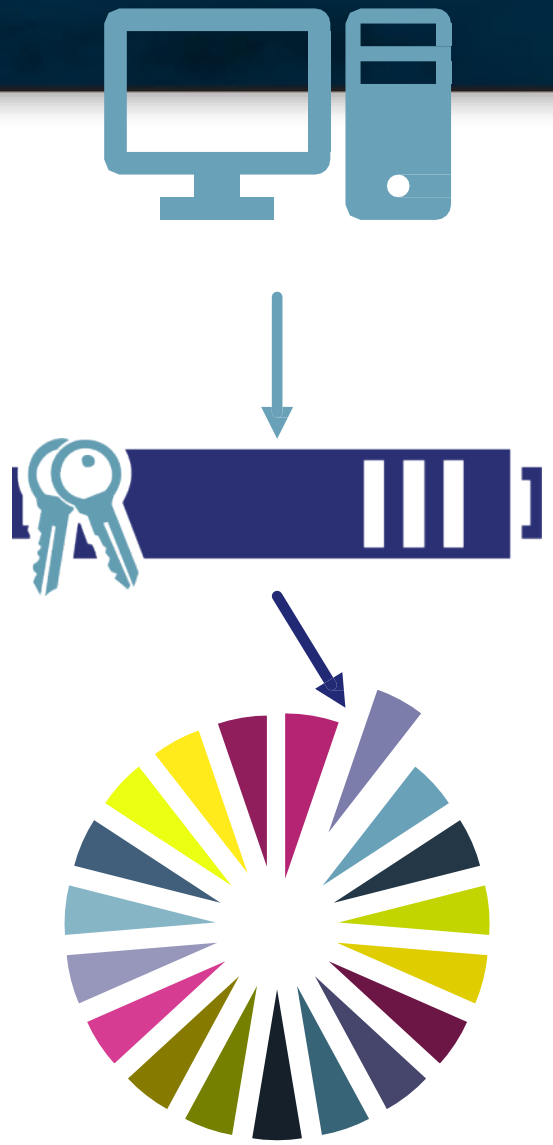
- Scalable, cost-effective
- Administrative tasks handled by HSM Engineers.
- Includes High Availability and secure replication across three datacenters.

Credential System

- Cloud-based multi-factor authentication with FIPS 140-2 Level 3 certified HSM security.

NTLS Layered Security



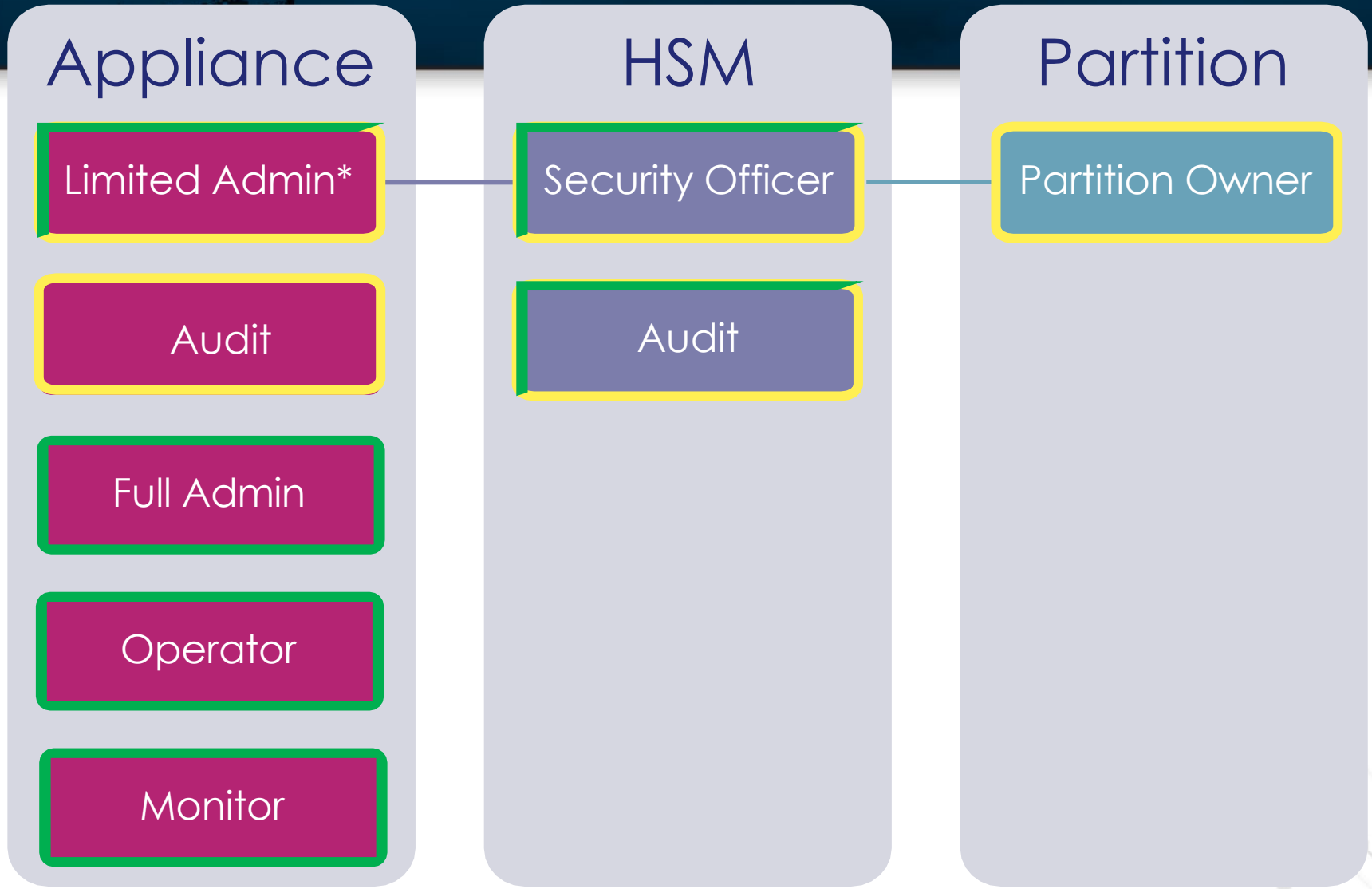


Encryption
- TLS v1.2/1.3 protected sessions
- User-configurable cipher suites

Authorization
- Clients white-listed by certificate
- IP/DNS check performed
- Assigned to individual partitions

Authentication
- Clients must provide credentials to access partition objects

Separation of Roles



XTec

Customer

Where can you take this?

Secure Database

- Leverage Thales APIs to protect master DB keys using HSM in the Cloud
  - Strong asymmetric crypto functions in a geographically distributed environment
- Leverage AuthentX credentialling system to provide smart card and Mobile access to DB resources
  - Validated solution for a variety of platforms

HSM Backed Virtual Smartcards

- An integrated solution that would allow access to the “smart card” from anywhere
  - Solutions to meet Federal or AATL Policies

Integrated Signing Solution

- Remove the limitations of current Adobe Signing
  - Sign Adobe documents with the end user credential
    - On desktop
    - On Mobile

Why Thales TCT and AuthentX Cloud

Security & Compliance

- FIPS 140-2 Level 3 and CNSS approved
- FedRAMP High authorized
- Accelerates adoption of Executive Order 14028 and National Security Memorandum 8 requirements
- U.S. Based Provider- All employees, data centers and development in the U.S.

Flexibility

- Solution set provides various options
  - Managed or Dedicated HSMs OR Credential Service
  - Backup and High Availability options

Various Integration Points

- Thales TCT APIs can be leveraged within AuthentX Cloud services
- Leverage AuthentX interfaces for systems integration

THALES

AUTHENTX CLOUD

FedRAMP Authorized

Benefits of AUTHENTX CLOUD

- Added Security
- Convenience
- Cost Efficiency
- Federal Compliance
- Continuous Monitoring
- Enhanced Infrastructure
- Transparency

Questions

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