# Interagency Advisory Board

*Meeting Agenda, Wednesday, April 24, 2013*

1. **Opening Remarks**
2. **A Security Industry Association (SIA) Perspective on the Cost and Methods for Migrating PACS Systems to Use PIV and PKI as Relying Parties** *(Steve Van Till, SIA)*
3. **Update on FIPS 201-2 and Associated Publications** *(Hildy Ferraiolo NIST)*
4. **What the SCA is Doing to Increase Adoption of Strong Credentials - Government ID Training, PIV-I Implementation, and Interoperable Credentials** *(Panel Discussion of SCA membership)*
5. **Closing Remarks**

# PACS – PIV – PKI
## How do we get there?

**Presented to the IAB**

**April 24, 2013**

**Steve Van Till**

**President & CEO, Brivo Systems**

**Chairman, SIA Standards Committee**

SIA
SECURITY INDUSTRY ASSOCIATION

# Welcome


*"You haven't seen security till you've seen it on the iPad 2."*

# The Goal

migrate federal PACS systems to use PIV and PKI

as relying parties using compliant, real-time validation

in a way that industry can provide affordably and scalably

# The forklift fallacy

it’s too hard

it’s too expensive

it’s too disruptive

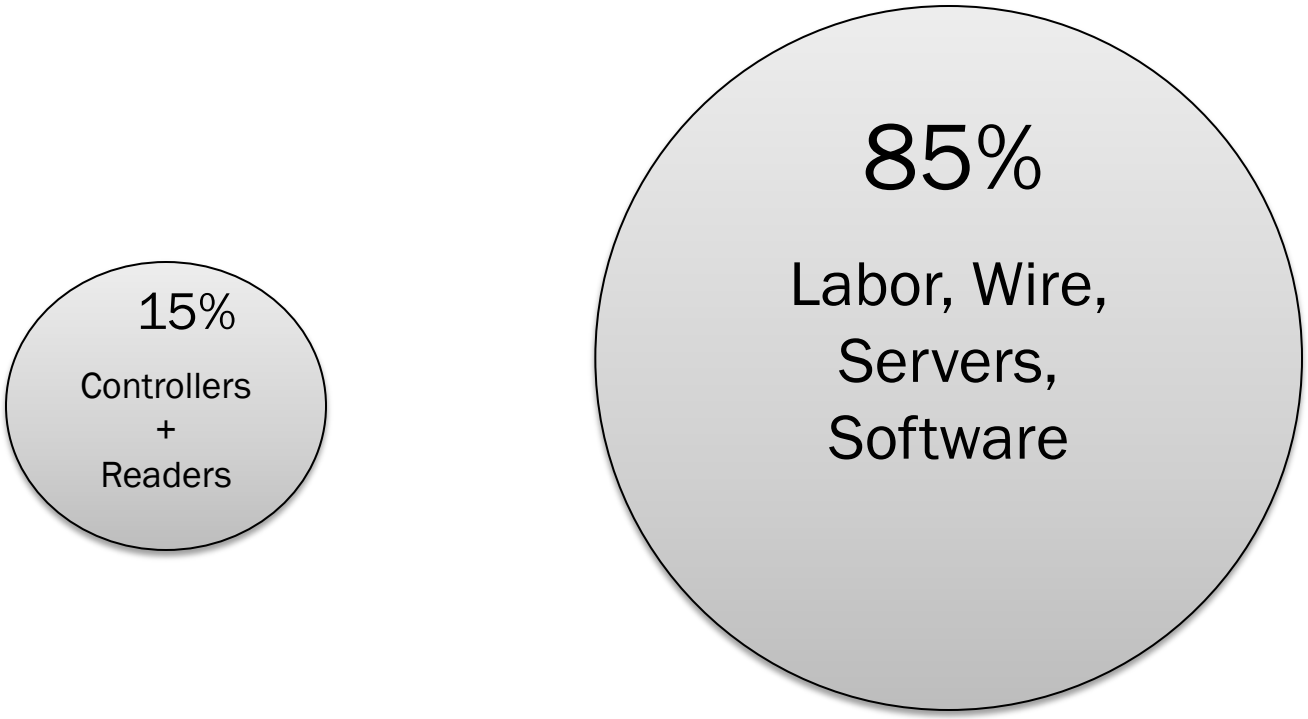
# Where does it come from?

historical cost structures

all or nothing-ism

architectural rigidity

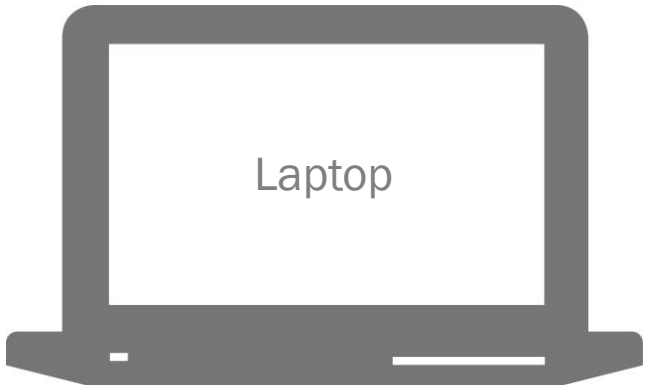
# The tail is wagging the dog




Yet the 15% often drives the enterprise decision.

Would we do that in any other context?

# A comparison to IT


- less than $1,000
- 10-year life expectation
- preserve at all costs

- more than $2,000
- rapid depreciation
- discard every 3 years

Should $1,000 decisions drive enterprise architecture?

How much hand-wringing is there over laptop replacements?

# What's different now?

enterprise and cloud architectures

networking and cable plant standardization

PACS evolving with Moore's law

# We're past the forklift

enterprise or cloud PACS – not one for each building

standards let *center* remain while *edge* changes

looking more like IT lifecycle

# EPTWG – APL 2.0

# SIA Comments on Test Documents

need a common language

treat authentication and authorization together

avoid transitional readers

still haven’t solved interoperability issue

# Compliance conundrum

APL 1.0:  compliance ≠ interoperability

component level compliance implies topology

when topologies change, component tests invalidated

# The testing treadmill

new topology  > new components > new tests

new tests > higher costs > less affordable

testing > testing > testing

# Functional testing

make tests about functions, not widgets

agree on what the functions are in PIV-PACS-PKI

systems must always be tested as installed anyway

lower burden on widgets = lower cost to customer

# SIA's white paper

"PACS in a FICAM Framework"

PACS best practices using PKI authentication

no *single* architecture or topology to meet goals

test and conformance standards cannot dictate one

# Why topologies don't matter

the danger of designating a *representative* architecture

is that it becomes the *only* architecture

but many will suffice

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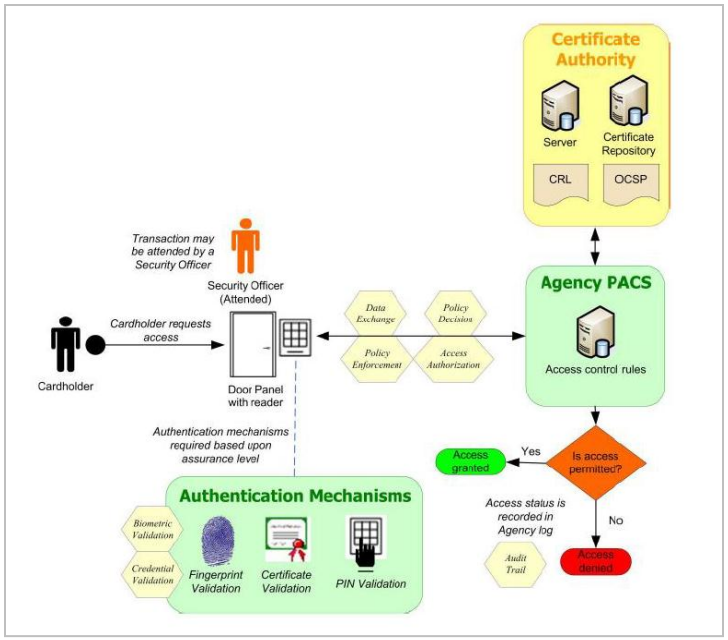
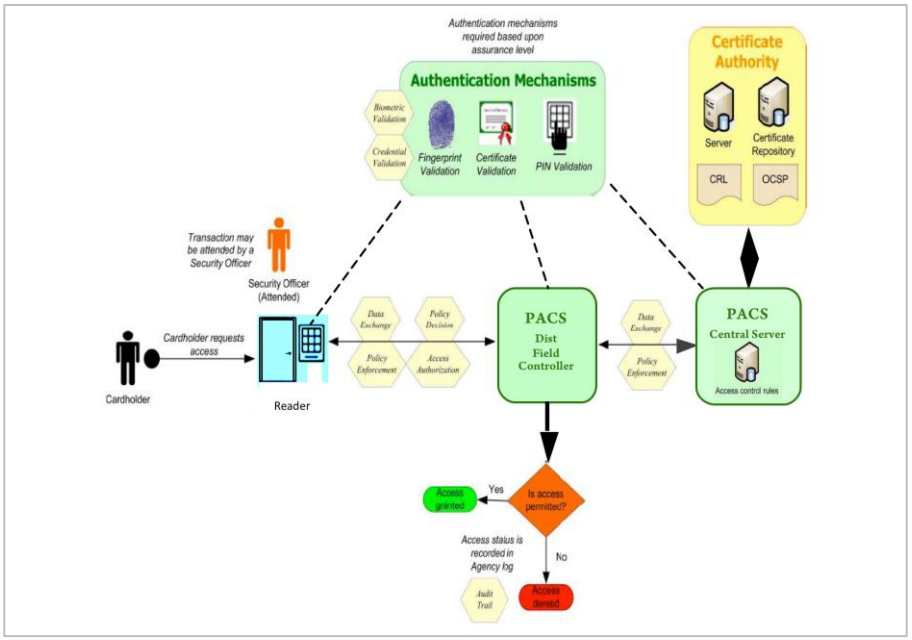
# Physical topologies




specific. evolving. moving target.

# Abstract functional representation


general.

timeless.

testable.

# Where to from here?

test functions, not components

multiple valid solutions

avoid classification at the expense of innovation

let innovation make PACS-PIV-PKI affordable & scalable

# Thank You

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