

2013
Federal Mobile
Collaborative
Sessions

July 8th

Identity Access Mgmt of Mobile Devices

Collaborative Lead:

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Identity Access Mgmt of Mobile Devices

Title: IDENTIFY CURRENT & FUTURE STATE (TACTICAL/DIL?)

Date: 8 July 2013
IMPACT



CURRENT STATE

Device (2FACTOR)
PKI/PIV/CAC
BYOD OR GFE Issues

ALTERNATIVE TO HARD CREDENTIAL

ALTERNATE FORM FACTOR

Active Directory
RADIOS, KEYBOARDS

CONSTRAINED ADOPTION

Limited Budget
Balance
Cost, Convenience vs Risk

800-157 (TBA)
DERIVED CRED.

NO STANDARDIZATION

ID USE
- Crypto Seal
- Password/PIN
- Biometrics

ACCESS / PERMISSIONS
- Sudo/ECADPS → DERIVED CREDENTIALS

FUTURE STATE

CONTEXTUAL ⇒

REPLACEMENT/NEW CONTEXTUAL FACTORS

ALTERNATE FACTORS BASED ON RISK

Variable authentication based on setting

GRANULAR (TRUST CONTEXT MODEL) ⇒

DATA DRIVEN AUTHENTICATION ⇒

Multi-modal Biometrics

NEED MORE THAN DEVICE AUTH
NEED TO ADDRESS APPLICATION AUTH ⇒

ECOSYSTEM!

FUNDING

INTEGRATION LABS

VENDOR COLLABORATION

POLICY!

RISK PROFILING

DERIVED CRED.'L

ISSUES

STANDARD PLATFORM CHALLENGES

BIOMETRIC ADOPTION?

CAC/PIV SUNK COST/INVESTMENT

Heuristics (TACTICAL)

↓
DIL ALTERNATIVES

Location:

Title: TECHNOLOGIES / INFRASTRUCTURES / STDS / FRAMEWORKS / POLICIES

Date:

TECH

DERIVED CREDENTIALS

· PROV / RENOVATION / ACTS

OVER THE AIR DEPROVISION

NFC: KERNAL

HEARTBEATING

Biometrics

Geospatial (NETWORK / DEVICE)

REAL TIME REVOCATION CRUD

STANDARDIZE CMS CREDENTIAL GENERATION (DEVICE, SD, ETC)

INFRA

MULTI-MODAL AUTH. (M/M)

CLOUD BASED IDAM

ECOSYSTEM SUPPORT FOR AAAA

BINDING CRED. TO FACTOR

↓
FEDERATION!
(eg. ID + Bio)

ACCESS CONTROL

FACTOR BASED ON → (DEVICE INDIVIDUAL DATA APP)

STDS / FRAMEWORK

"FED RAMP"

PROVISIONING & DJ BOARDING

IDEM/NGI-LIKE APPROACH (MULTI-MODAL) (eg. NSTIC)

· LEVERAGE EXISTING STANDARDS.

POLICY

FUNDED MANDATES

Credential Policy

Security Policy ← ^{DIL} _{connect}

Risk Policy

COMMON DENOMINATOR < CREDENTIAL >

||
INTER-OP & BACKGROUNDING (← MULTIPLE LEVELS OF IDENTITY)

AUTHORITATIVE ATTRIBUTES VIZ FICAM

MULTIPLE FACTORS & MGMT & MEASUREMENT

RISK BASELINING

· GEO
· TIME
· BIO
→
SPEED OF ADOPTION!