

2013 DHS S&T/DoD ASD (R&E)
CYBER SECURITY SBIR WORKSHOP

Real World Authorization

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QUERALT
Creating Actionable Intelligence

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Homeland
Security

Science and Technology



October 28, 2012

State of Emergency



- Limited advance warning
- Unpredictable geographic path
- Coordinated response across organizations

How do we balance **rapid** response with **secure** access to the “**right**” resources?

20th Century Access Control

Can't pre-provision:

- Rapid response
- Unknown scenarios
- Moving locations
- Across the Gov't
- At large scale



Today Demands Context...

Request: Can this responder access this elevator?

Response: Yes, if and only if...

① PIV authentication = yes

② security clearance = yes

OR

① PIV authentication = yes

② DHS event code = weather

③ Proximity to supervisor = 5 ft

OR

① ...



Market: Government

Building Block #1: HSPD 12

- Homeland Security Presidential Directive ('04):
common ID card for all Federal Employees & Contractors
- Led to FIPS201 ('05): Personal Identity Verification:
 - 5.2M PIV smartcards issued ('12)
 - 700 products on GSA FIPS 201 Approved Prod List

Modernizes “Authentication” but not “Authorization”

Building Block #2: BAE

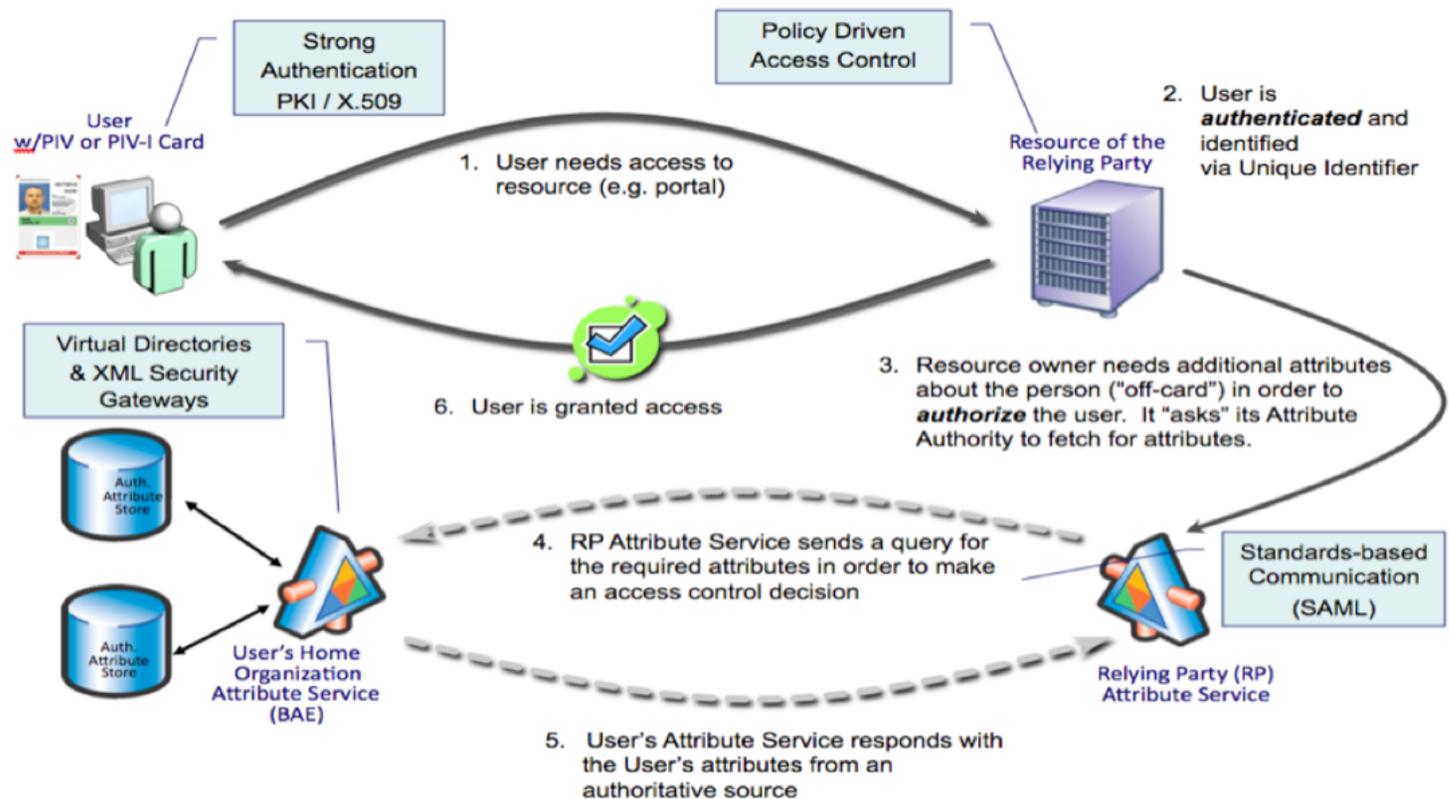
Backend Attribute Exchange



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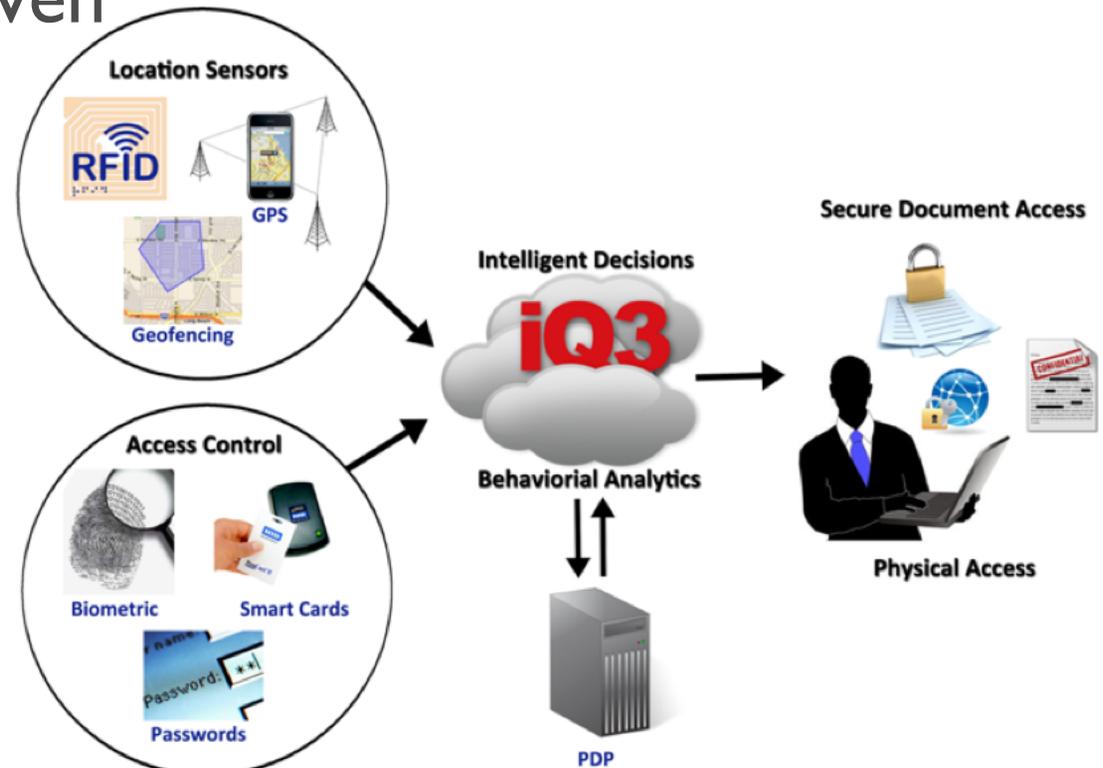
- Extensible
- Federated
- Attribute-based
- Standards Compliant



<http://www.cyber.st.dhs.gov/bae-2/>

iQ3: Flexible & Strong

- Real-time, policy driven
- Physical Access Control System (PACs) Endpoints
- Hardware vendor agnostic
- “XACML” Compliant



Current Status

- Operational Pilot:
DC Office of the Chief
Technology Officer (OCTO)

Integrating PACs
(BridgePoint Systems) &

Federated ID Service
(Radiant Logic)



- Commercial Deployments across Health Care, Industrial, Automotive and Security

Next Steps

- **Government Markets:**

Seeking System Integrator / partner to bring technical capability to market

Seeking additional Operation Pilot(s) to expand use case that validate the technical capability

- **Company Evolution:**

Seeking Series A financing to expand core development of iQ3 Platform-as-a-Service

Contact Information



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Access Control

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Real-World Authorization