

**2012 DHS S&T/ASD(R&E)  
CYBER SECURITY SBIR WORKSHOP**



# Externalized PACS Authorization via XACML

*Converging Physical and Logical Environments for  
Enhanced Decision Making*

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# Queralt, Inc.

## SBIR Project

- Awarded SBIR Phase I – May 2009
  - Validated technology
  - Developed prototype of GEO PEP
- Awarded SBIR Phase II – June 2010
  - GEO PEP
  - PACS PEP
- Awarded SBIR Phase III – January 2012
  - Operational Pilots
  - Commercialization

## Overall Funding since 2009

- R & D
  - Self funded
  - SBIR Phase I and Phase II
- Commercialization
  - Connecticut Innovations
  - Enhanced Capital
  - Private Investors
  - SBIR Phase III
  - Commercial customers in:
    - Healthcare
    - Industrial
    - Education

# The Problem

## Customers challenges

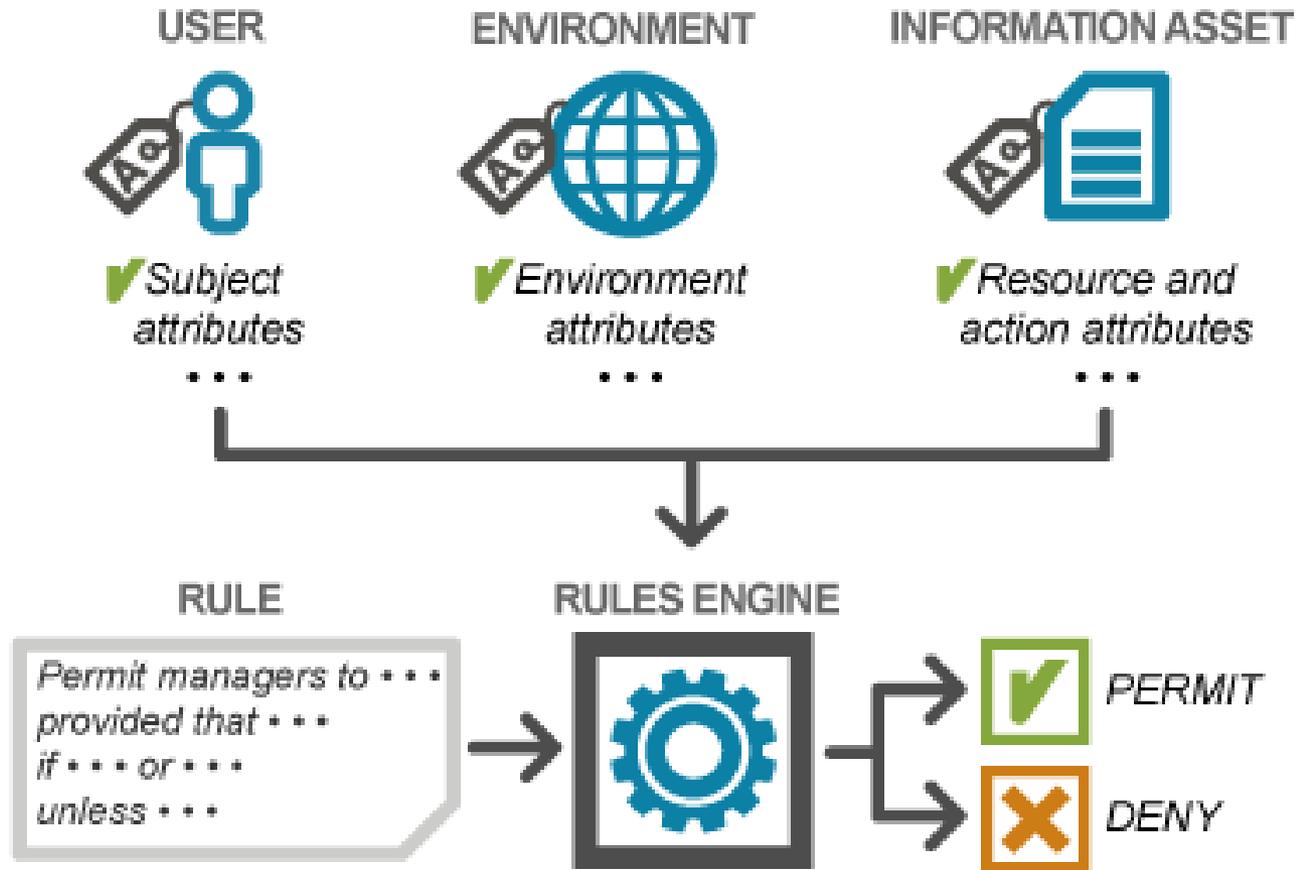
- How do you meet the new Compliance Mandates (PIV and PIV-I)
- How do you provide timely and Secure Access to a flexible work force, contractors and external partners
- How do you secure IP in the new mobility.
- How do you provide a dynamic security approach that reacts to external events

## Problems to overcome

- Legacy systems are role based and require a rip and replace strategy to meet objectives
- Security responsibilities are handled by two different units – Physical and Logical
- Physical Access Control Readers are mostly incompatible and proprietary.
- Mobility growth and expectations

# The New Approach

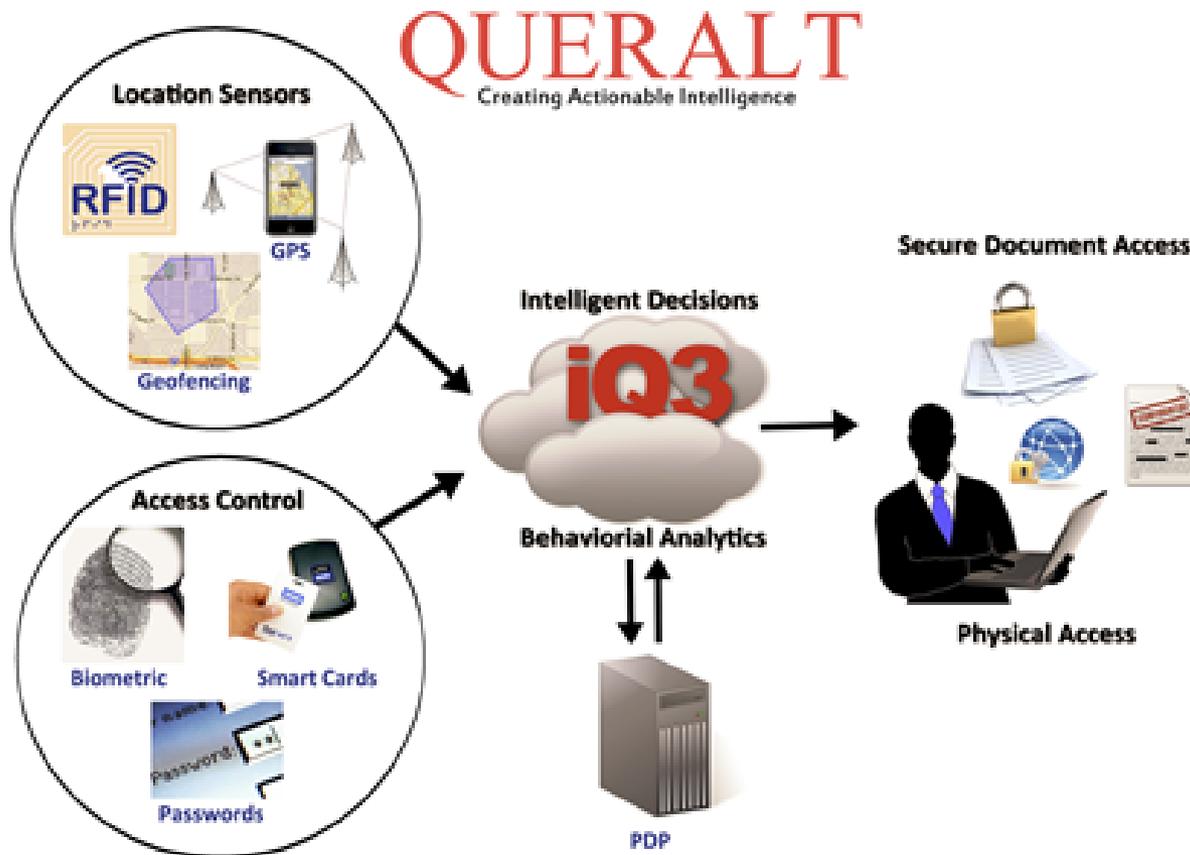
## Attribute Based Access Control



[\\*http://www.axiomatics.com/attribute-based-access-control.html](http://www.axiomatics.com/attribute-based-access-control.html)

# Our Value

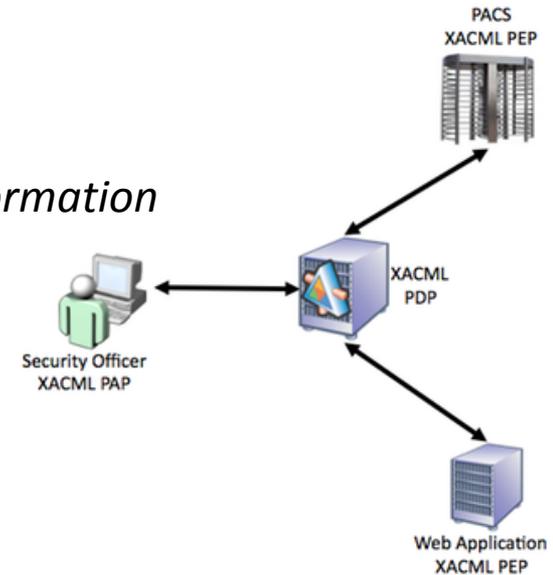
*Cloud based provider of environmental, user, behavior and other external attributes for enhanced authorization decisions.*



# Go To Market

- Value Proposition

- *Technology agnostic approach*
- *Works with RBAC and ABAC solutions*
- *Integration into existing PACs*
- *Integration into new PACs controllers via API*
- *Improved Security with Real Time Sensorial Information*
- *Mobility ready*
- *Reduced Cost of Ownership*



- Potential Licensees

- System Integrators
- Wireless Providers
- Access Control Vendors
- Software Vendors

# Summary

- Physical Access Control Market is a \$100B market.
- Identity Management market is expected to reach \$12B in 2014 with 21% CAGR
- Emerging markets, such as PACS/LACS integration, growing faster
- Market Drivers include compliance, PIV & PIV-I, improved security, cost reduction, mobility growth and the need for faster and more granular decisions to protect resources.
- Queralt has developed software enabling interoperability between LACS & PACS
  - Bring physical points into an ABAC environment
  - Extends the life of RBAC based systems
  - Standards based, XACML 2.0 Compliant
  - Mobility ready solution
  - Architected to grow from ABAC decision-making to “Risk-Adapted Access Control” (RAdAC)
- Queralt intends to embed their technology into security solutions via licensing agreements with major software companies and systems integrators.