



Enhancing Security Access with Real
Time Contextual Authorization
Decisions

DC Government – Use Case

Who we are ?

Queralt, Inc. was started in January 2011 with funding from the Department of Homeland Security Science and Technology Directorate - Cyber security division, a multi-national industrial gas company & private investors.

Our Vision

iQ3 turns your information into intelligence

Information without context is meaningless. Our platform takes your data and through thorough real-time analysis, turns it into meaningful, actionable intelligence.

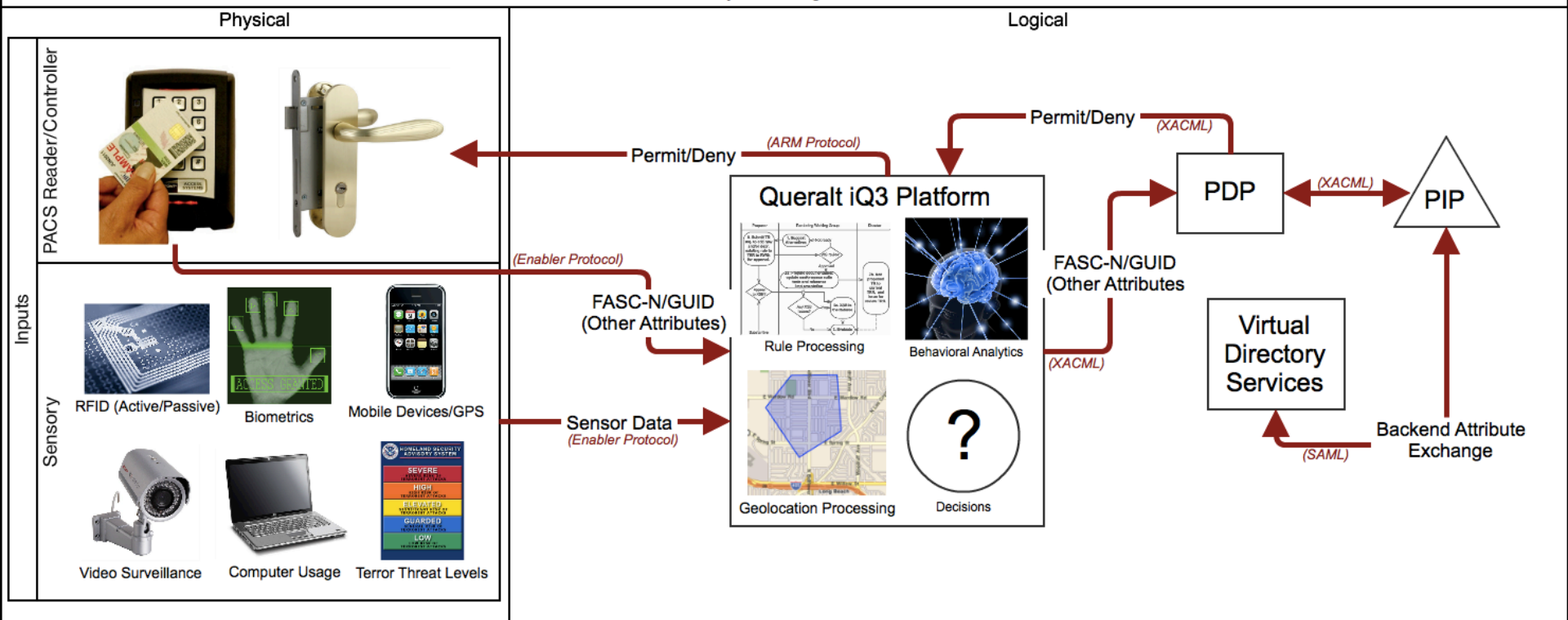
INFORMATION

IQ3 PLATFORM

ACTIONABLE INTELLIGENCE



System Diagram





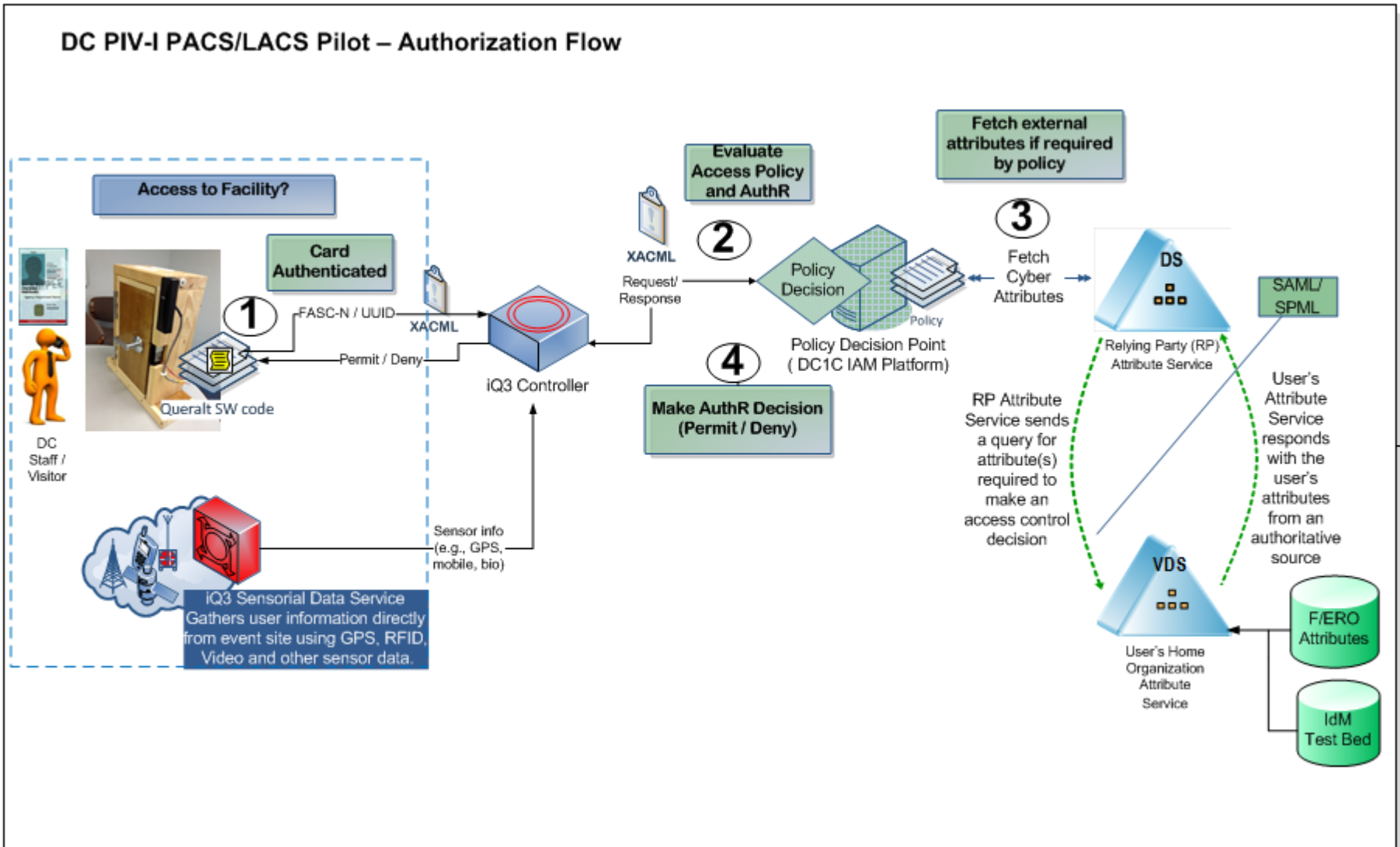
octo

Project Objective

- Grant access to Federal employees at a local government facility, using PIV and PIV-I cards and the Back End Attribute Exchange

Objective and Flow

DC PIV-I PACS/LACS Pilot – Authorization Flow

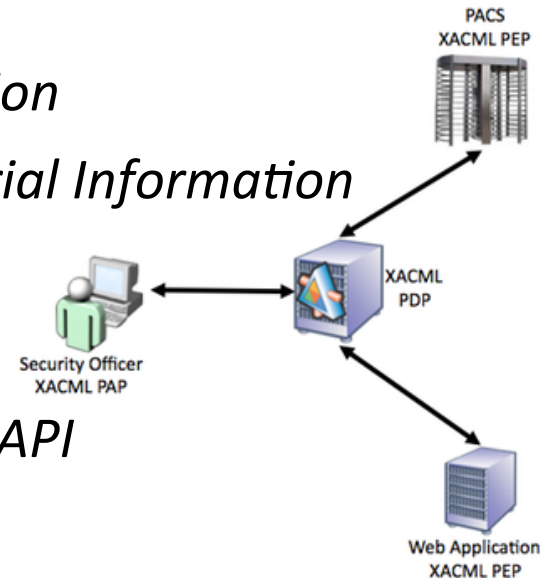


Benefits

- Flexible and faster access to facilities.
- Stronger and more flexible attributed based authentication.
 - Protect physical and logical resource access
 - Act based on real time policy requirements
 - Leverages multiple data points to make smarter access decisions.
- Leverages existing infrastructure and builds on top of ratified standards to ensure interoperability.
- Leverages geo-fencing and can protect entities base on physical attributes (i.e.: location) .
- Supports Smartcards, Physical Access Control , Sensors, RFID and GPS.

Summary

- *Technology agnostic approach*
- *Based on open standards (XACML) drive plug & play interoperability (leverages the value of the Smartcards like PIV & PIV-I)*
- *Works with RBAC and ABAC solutions*
- *Architected to grow from ABAC decision-making to “Risk-Adapted Access Control” (RAdAC)*
- *Bring physical points into a security decision*
- *Improved Security using Real Time Sensorial Information*
- *Mobility ready*
- *Leverage existing PACs via Wiegand*
- *Integration into new PACs controllers via API*
- *Reduces Operational Cost*



Terminology

- PACS
 - ✓ Physical Access Control System
- LACS
 - ✓ Logical Access Control System
- RBAC
 - ✓ Role Based Access Control
- ABAC
 - ✓ Attribute Based Access Control
- RAdAC
 - ✓ Risk Adaptable Access Control
- LBS
 - ✓ Location Based Assurance Solution
- XACML
 - ✓ eXtensible Access Control Markup Language
- IdM
 - ✓ Identity Management
- PDP
 - ✓ Policy Decision Point
- PEP
 - ✓ Policy Enforcement Point
- PIP
 - ✓ Policy Information Point



THANK YOU

QUERALTINC.COM