

CYBER SECURITY DIVISION
2013 PRINCIPAL INVESTIGATORS'

Contextual Driven Access Control – Operational Pilot

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September 17, 2013



Homeland
Security

Science and Technology



Team Profile

We develop and operate an intelligent platform that uses Physical and Logical environments to make real time contextual decision.

Funding



**Homeland
Security**

Science and Technology



AMG CAPITAL
ADVISORS
LLC

Enhanced Capital

Team Profile

- SBIR Phase I (May '09) -> Phase II (Jun '10) -> Phase III (Jan '12)
 - Evolution:
 - Developed location-based service for utilizing “location” as an attribute to provide authorization decision requests
 - Proof-of-concept pilot running @ S&T IdM Testbed
 - Operational Pilot with DC Gov.
 - Visitor Log Application
 - Standing up BAE & Additional Operational Pilots with FEMA and TSA

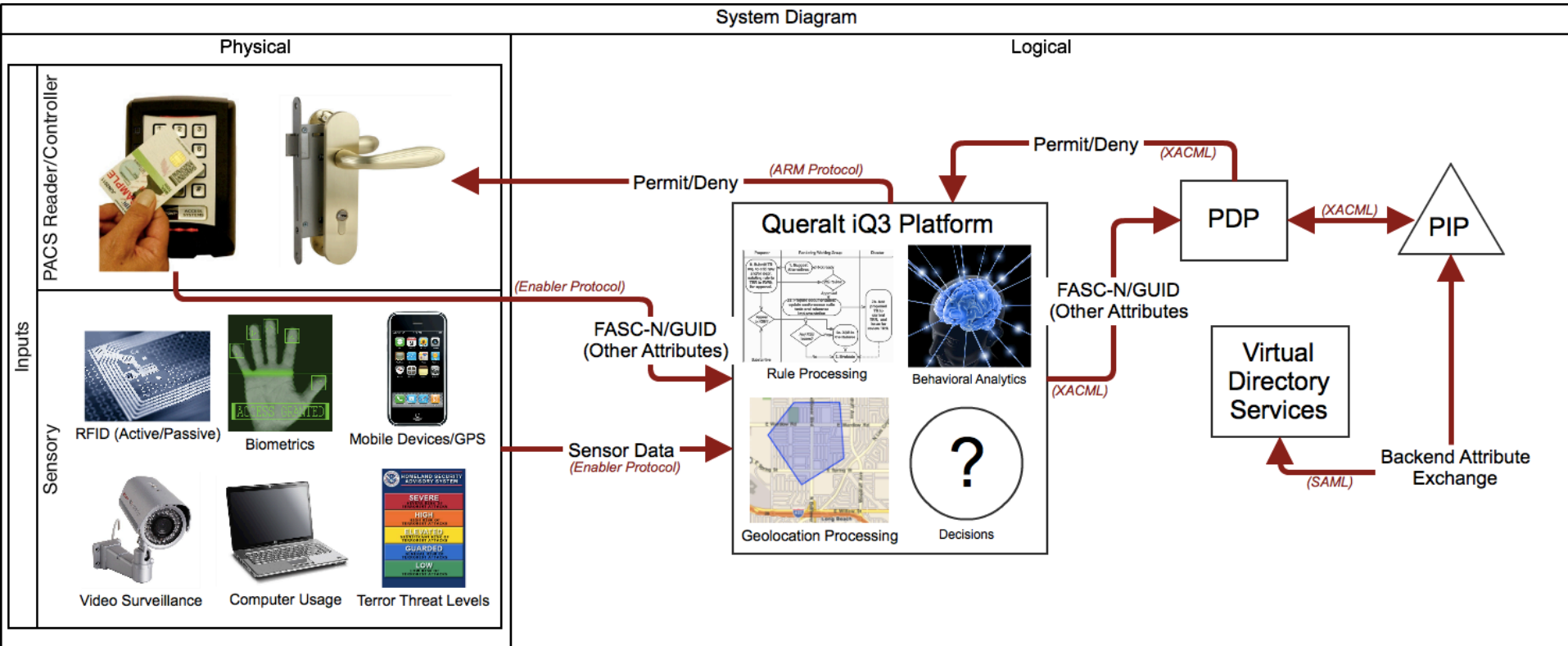


Customer Need

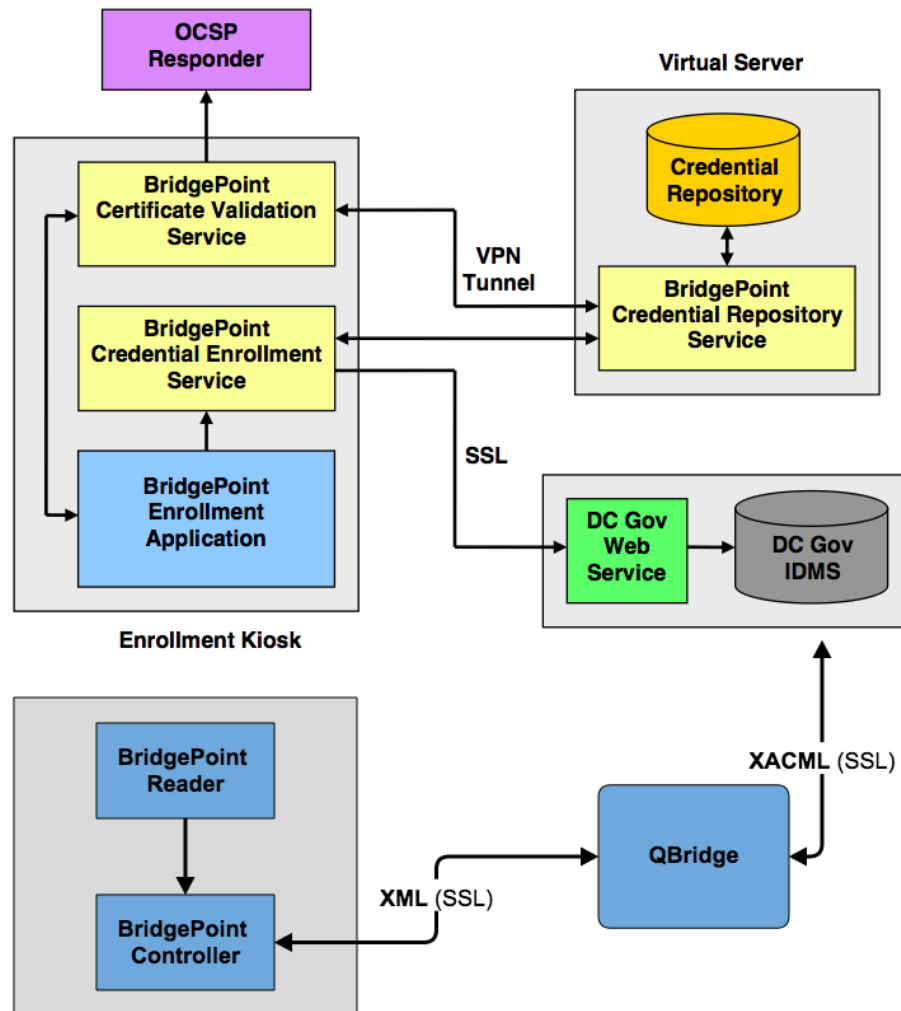


- Improving Access control decisions – Physical and Logical Entities
 - Today
 - If you have the right credential, you're granted access.
 - Tomorrow
 - Contextual / Adaptive / Intelligent Access Control
 - Aware of the environment
 - Responsive to conditions
 - Leverages physical and logical conditions

Approach



DC Government Architecture



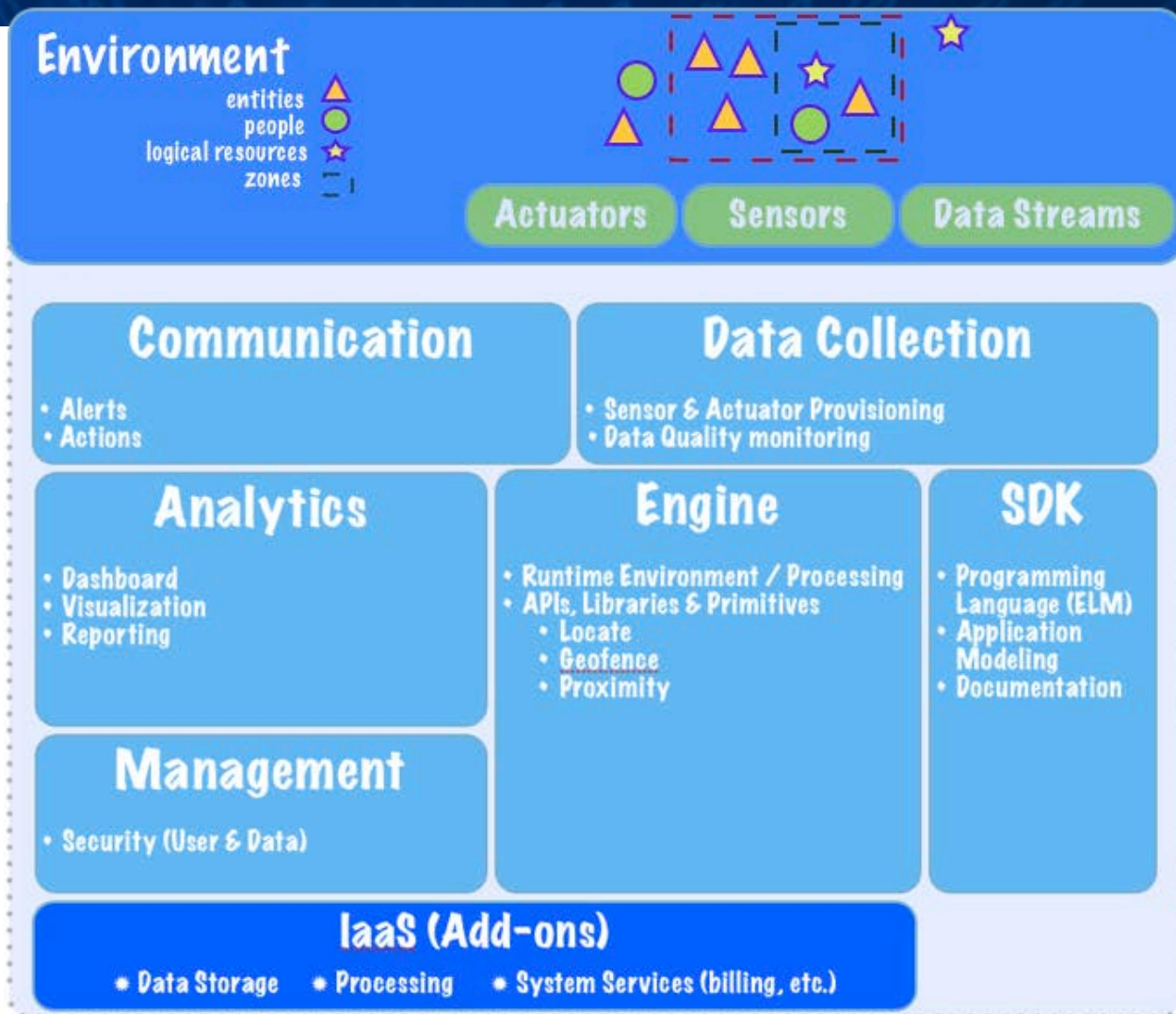
Benefits

- 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) and external events.
- Supports Smartcards, Physical Access Control , Sensors, RFID and GPS, NFC, Bluetooth LTE, Smartphones, Analog Sensors

Current Status



- Sensor agnostic
- Vertical Market agnostic
- Cloud-based, Infrastructure agnostic



Current Status



Current Status

Platform Stats:

(as of 7/16/2013)

- 20 apps / solutions
- 27 sensor types & data streams
- 8,402 sensorial connections
- 153,505 decisions executed



Next Steps



- Published API for Physical Access Control Systems use to enable contextual security
- Exploring additional pilot installations within Federal & Local government, and financial services institutions
- Focusing on commercial deployments within Healthcare , Industrial, Pharma, Consumer applications.



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