

Knowledge Based Authentication and Privacy

Can Standards Help?

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- **Objectives**
- **Lessons learned from industry**
- **Regulatory**
- **Standards efforts**
- **Recommendations**

- **Enhance relationship between service provider and the customer it serves**
 - **Deliver services accurately and easily**
 - **Friendly to “citizen”**

- **Stop fraud**

- **Reduce risks and losses**

- **The most successful KBA implementations are found in financial processes**
 - **Credit scoring**
 - **Risk/fraud mitigation**
 - **Applications (for mortgage, credit, etc.)**
 - **Merchant web transactions**

- **It's a process**
 - **Highly adaptive**
 - ***Rules driven – it is a system***

Whose Knowledge?

- **Supplied by the “consumer” or “citizen”?**
 - **What they know that can be verified**
 - **Public sources**

- **Driven by application intelligence**
 - **Verification methods**
 - **Knowledge of behaviors**
 - **Driven by business risk management processes**

- The first need is

“Know your enemy”

- So we can be

“Customer Focused”

- It's based on massive data - *your data*
- Three steps to success
 - Know your enemy - *metrics*
 - Based on forensics, develop a rules set that mitigates risk
 - Exception processes for questionable transactions
- Accepted by the market place
 - Visible leader setting the tone on KBA: Citibank
- Fraud is unacceptable so can Federal agencies successfully use KBA?
 - Do industry authentication risks/rules apply in G2G, G2B and G2C situations?
 - Privacy is a driver based on need to "know your enemy"

Success Driven by Focus

- **Start at one agency application**
 - **Maintain KBA *risk scores* from service providers on transactions**
 - **Analyze information about transactions and fraud rates**
 - **Determine rules to mitigate (translation: *metrics*)**
 - **Apply rules**
 - **Repeat**

- **As this works, add additional agency apps**
 - **Introduce risk scoring across applications**

Which Sector Applies?

- **G2G and G2B have a level of certainty and trust – typically involve**
 - **Verifiable, direct relationships**
 - **Low – medium volume of transactions**
 - **Higher level of trust in relationship**

- **G2C presents opportunities**
 - **“drive by” authentication**
 - **No prior relationship**
 - **Needs managed fraud services**
 - **Potential for very high volume transactions**
 - **Potential is high for fraud to gain access to entitlements**

- **Traditional Inhibitors / Enabler and Mandates**
 - **Privacy Act**
 - Restrictions perceived on inter-agency sharing
 - **GLBA**
 - Restrictions on financial records sharing without notice
 - **HIPAA**
 - Restrictions on transport of private identifying information
 - **eGovernment Act Section 208**
 - Mandates Privacy Impact Assessment

- **Direct support for eGovernment Act's section 208**
 - **X9.99 Privacy Impact Assessment**
- **Provides a neutral process for assessing privacy issues**
 - **What is the citizen/consumer giving you?**
 - **How are you managing it?**
 - Throw away sensitive data, maintain the score!
 - **Where is the data going?**
- **Formalizes the process to protect service delivery based on sensitive information**

- **Fraud is unacceptable**
- **KBA is a focus on process – look *inside***
 - **Rules based – each rule is a *metric* specific to Government**
- **Support standards to enable KBA risk scoring on large scale**
 - **Engage in X9.99**
- **Deliver on Privacy Impact Analysis**
 - **Enable use of federated KBA scores to reduce frauds perpetrated on Government applications**
 - **Follow a successful leader... DHS US Visit
http://www.dhs.gov/dhspublic/interapp/editorial/editorial_0333.xml**

Thank You!

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