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Identity Convergence: Logical, Physical, Mobile, Virtual

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The General Identity Ecology

Identity Reliance **Identity Assertion**

Commercial Family/Friends Employers

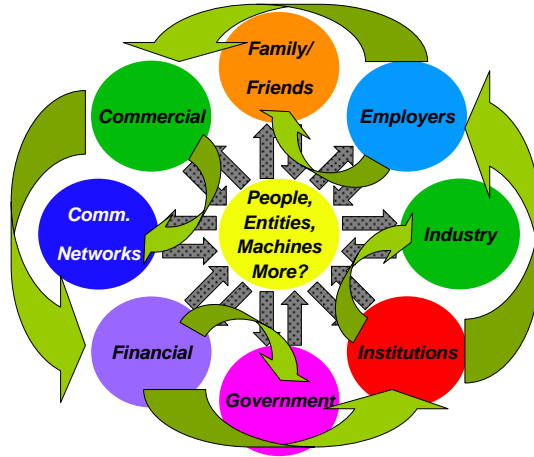
Comm. Networks People, Entities, Machines More? Industry

Financial Government Institutions

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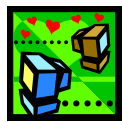
Getting More Complex All The Time



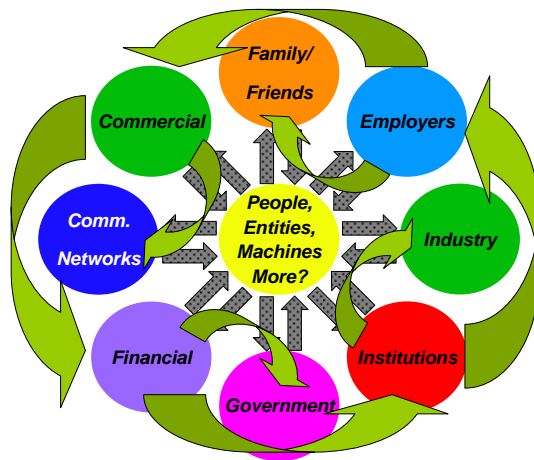
And It's About More Than Logging In



Buying Stuff



My 2.0 Agents



Getting In The Door

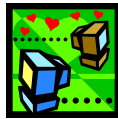


Always With Me





Why Do They Have To Be So Difficult . . . Can't They Just Learn To Get Along?



My 2.0 Agents



Buying Stuff



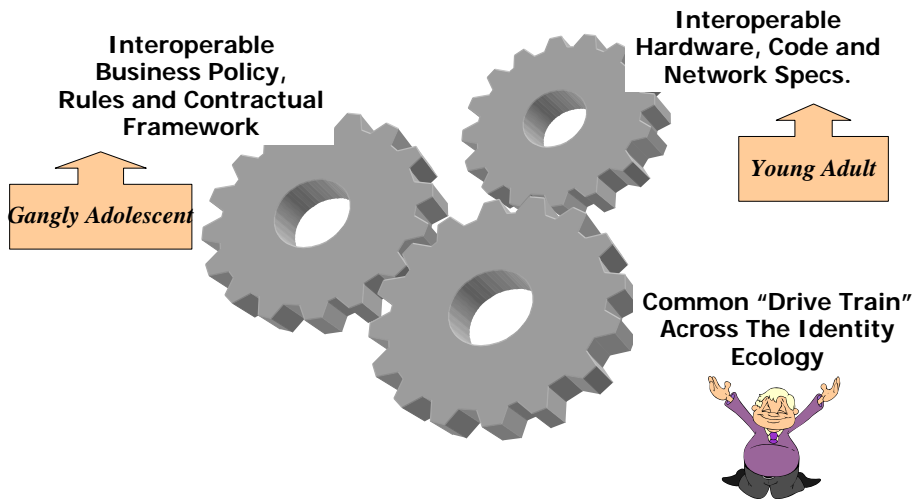
Getting In The Door



Always With Me



It Takes Two To Tango



Key Technology Drivers Toward Mature Convergence

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- For physical: HSPD-12/FIPS 201/PIV “twins”
 - Finally brought certification to smart card reader interoperability
 - NIST 800-16 (draft out for review) further refines physical access specs. to support identity assurance level
- For mobile: secure contactless access to SIM chip
- For Web 2.0: rich metadata
 - To enable a service
 - And, to allow dynamic linkage decisioning
 - **Standard identity services are at the top of the list!**

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Key Business Driver Towards Mature Convergence

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- Liberty Alliance IAF (Identity Assurance Framework)
 - Objective is to create a framework of baseline policies, business rules and commercial terms against which identity assurance services can be assessed and certified
 - Standard, broadly accepted Levels of Assurance allow relying parties (or their agents) to readily determine, on the fly, their confidence in an identity credential
 - Desired results are:
 - Operational streamlining of identity service provider certification/accreditation processes for entire industry
 - Less complex/more rapid deployment of digital identity services



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How IAF Certification Will Unfold



- Initially focused on the use of credentials for authentication, targeting CSP's (Credential Service Providers)
- Liberty Alliance (LAP) provides accreditation of assessors who will perform certification assessment
- Federation Operators will require LAP-accredited assessments
- Provides guidelines for how all involved parties (relying parties, CSP's and Federation Operators) may work together
- LAP will maintain the Identity Assurance Framework and provide a current list of accredited assessors



Converged Use Case: Payments

- Initiation/release of \$1MM wire
 - Basic relying party (e.g. financial institution) requirement: requestor authentication onto network in order to submit request. *Existing tools satisfy requirement.*
 - Further relying party requirement: requestor authorization to submit request. *Existing tools satisfy requirement.*
 - But, do I have high assurance that the identity credential submitted can *non-repudiably* represent the customer? *IAF framework and supporting network deliver this capability.*

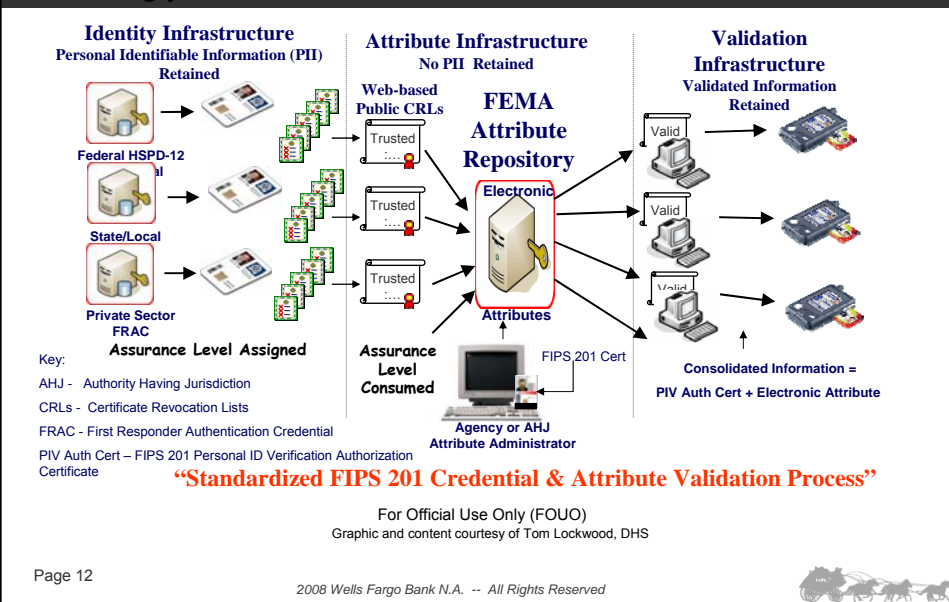


Converged Use Case Physical

- Physical access to storage facility for negotiable documents
 - Facility maintains directory of identities authorized to enter
 - Person x is authorized to enter, but does not have a facility access card to allow authorized entry
 - Person x does holds a payment card that also holds a high assurance identity credential
 - Person x can be authorized to enter without further effort via assurance level match



Identity Framework Data Services Will Be Increasingly Essential



Contact Information



**Thank You
For Your Time**

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