

Identity Management: The Next Frontier for International E-Commerce

The Subject, Legal Issues, and Challenge for UNCITRAL

Thomas J. Smedinghoff
Wildman, Harrold, Allen & Dixon LLP
Chicago

Identity Management – A Foundational Issue Critical to . . .



Wildman Harrold
Attorneys and Counselors

- E-Commerce
- E-Signatures
 - Convention on the Use of Electronic Communications in International Contracts
- Mobile Commerce
- Electronic Transferable Records
- Single Window

- All of these activities require addressing identity in some form



Identity Management . . .

- “is a key element for the delivery of any e-services.”
 - European Commission COM(2008) 798 final (28 Nov. 2008)
- “is a critical component of . . . national and global economic, governmental and social activities [which] rely more and more on the Internet.”
 - OECD, *The Role of Digital Identity Management in the Internet Economy*, June 2009
- “is critical to the health of the economy.”
 - U.S. Draft National Strategy for Trusted Identities in Cyberspace., June 2010



Agenda – Three Issues

1. The Subject – What is Identity management?
2. The legal issues
3. The challenge for UNCITRAL



I. The Subject

What Is Identity Management?



Identity Management Is . . .

- An integrated system of business processes, policies, rules, procedures, and technical components to answer two fundamental questions:
 - **Who are you?** (Identification)
 - **How can you prove it?** (Authentication)
- Answering those questions is a prerequisite to most online commercial activity



The Basic Problem

- Party A needs to know something about Party B, as a prerequisite to a commercial transaction; e.g., --
 - Age (bartender)
 - Name (airport security agent)
 - Credit history (lender)
 - Right to access financial account (bank)
 - Right to access patient medical records (hospital)
- The challenge is how to accomplish this online –
 - So Party B can use a single electronic ID document with multiple parties
 - And each Party A can rely on third party ID documents
 - In a manner that is ***trusted*** by all

“Identification” – Who Are You?

- Goal - Need to know something about a person (or device) --
 - To determine whether you want to do business with them, or
 - To determine whether they meet your requirements, or
 - To satisfy regulatory requirements, etc.
- Conduct a one-time Identity Proofing process to --
 - Verify identity “Attributes” about a person
 - E.g., name, address, date of birth, employer, authority, credit rating, hair color, gender, medical condition, club membership, title, etc.
 - Issue a “Credential” that evidences the attributes
 - E.g., drivers license, passport, ATM card, UserID, digital certificate, smart card, etc.

“Authentication” – How Can You Prove It (Online)?

- Goal – Determine whether a remote party claiming to be a previously identified person is in fact such person
- Process involves –
 - Verifying or confirming the association of the remote person with a credential
 - E.g., using a picture on a passport to associate it to a person
 - E.g., using a password to associate a User ID to a person
- NOTE: Authentication of identity can occur **numerous times**



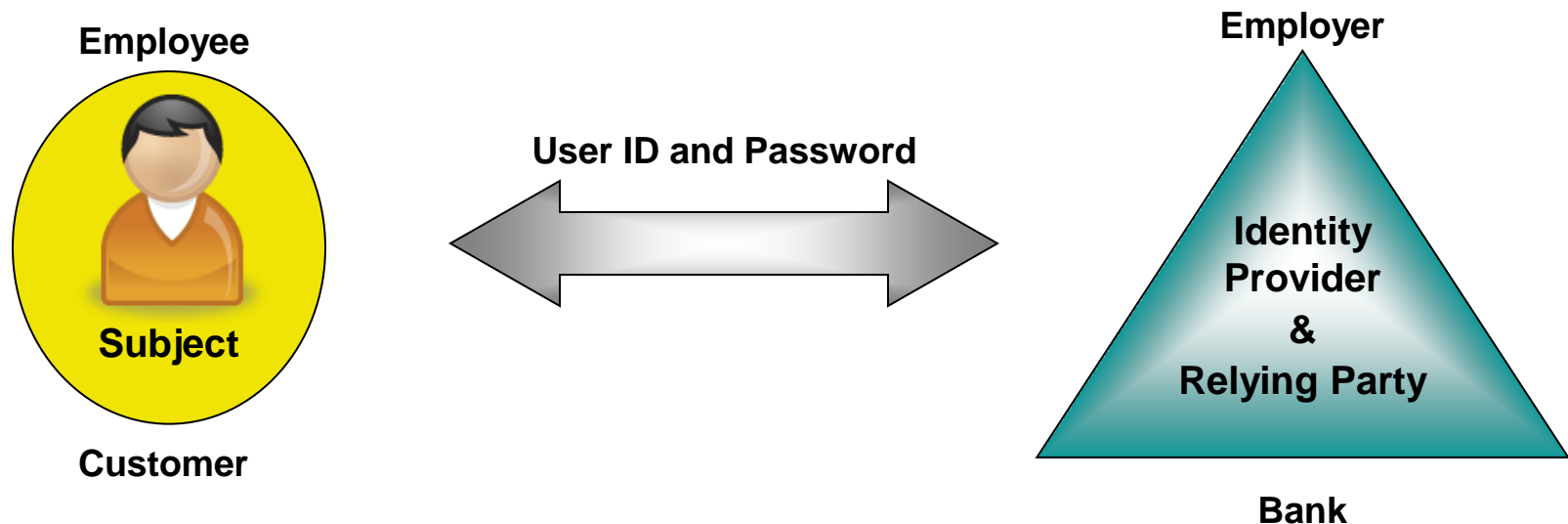
Focus on Three Key “Roles”

- **Subject** (a/k/a “user,” “principal” or “customer”)
 - The person that is identified and authenticated
 - Uses identity Credential to engage in online transactions
- **Identity Provider** (a/k/a “credential service provider”)
 - Responsible for Identity Proofing of Subject and issuing a Credential
 - Responsible for validating Credentials for relying party
- **Relying Party** (a/k/a “service provider” or “vendor”)
 - Uses identity Credentials to authenticate identity of Subject
 - Relies on identity assertion to authorize access / approve transaction / accept signature / etc.



Traditional Two-Party Approach

Non-Portable Identity Credential Credential = User ID



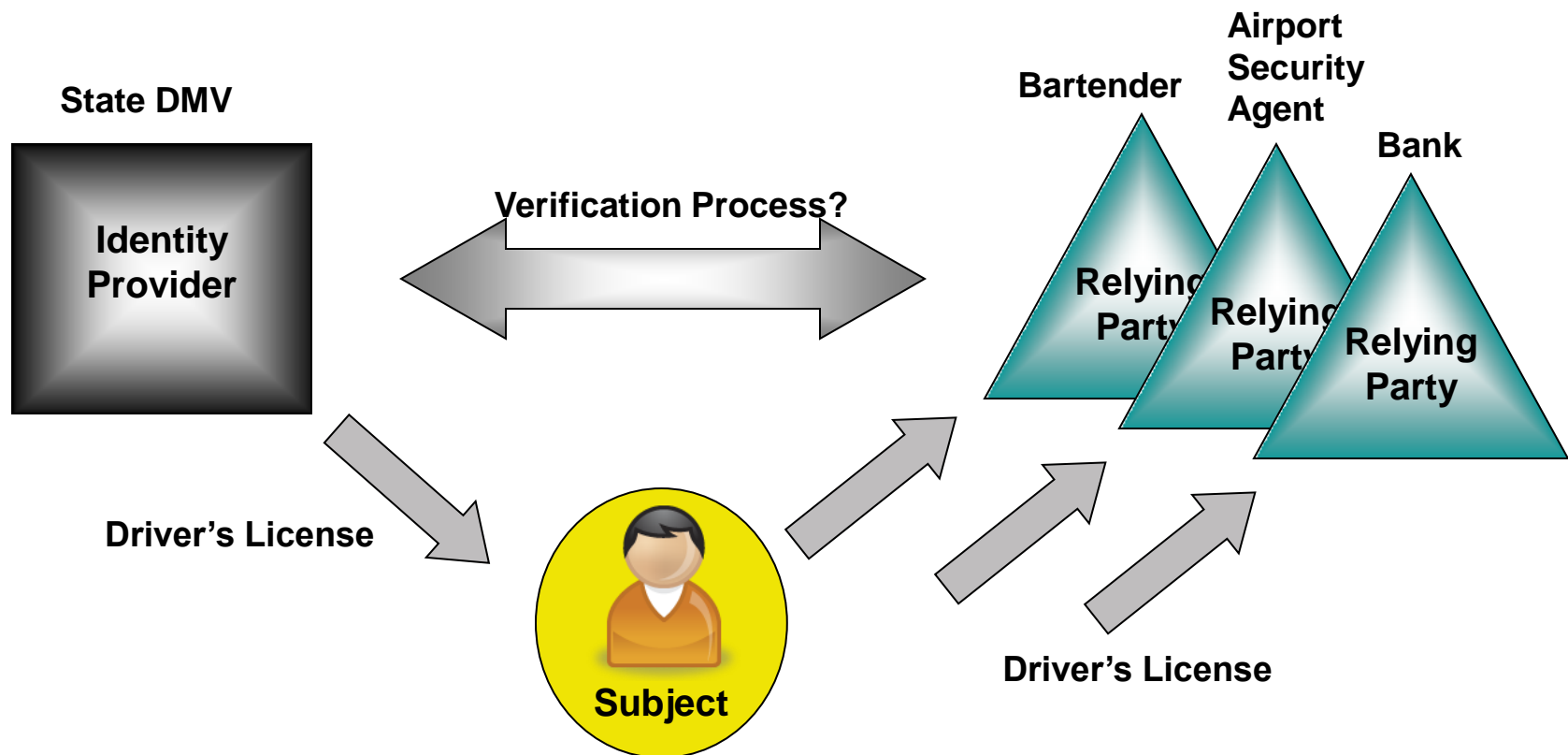
Note: The credential (the User ID) can be used ONLY with the Relying Party that issued it

Emerging Three-Party Approach: Federated Identity Management



Wildman Harrold
Attorneys and Counselors

Portable Identity Credential (Offline example)



Note: The credential (the driver's license) can be used with multiple Relying Parties



But There Are Many Open Questions

- Does the technology work?
- Was it properly implemented?
- Has the Identity Provider properly identified the Subject?
 - What are the risks that someone else impersonated the Subject?
- What does the identity assertion mean?
 - E.g., guarantee of identity vs. guarantee of process
- Does the Relying Party trust the Identity Provider?
- Does the Relying Party trust that the identity credential –
 - Really came from the Identity Provider?
 - Is still valid?
- Who is responsible if something goes wrong?
- Etc., etc.



II. The Legal Issues



Key Risks to the Participants

- Technology risk
- Process risk
- Performance risk
- Privacy / Data Protection risk
- Data security risk
- Liability risk
- Enforceability risk
- Regulatory compliance risk

Making It Work Requires A “Trust Framework” Composed of:



Wildman Harrold
Attorneys and Counselors

- **Operational Requirements**

- Goals
 - Ensure proper operation of the identity system
 - Ensure that operation will protect accuracy, integrity, privacy and security of data
- Content
 - Technical specifications, process standards, policies, procedures, performance obligations of the participants, etc.

- **Legal Rules**

- Goals
 - Make Operational Requirements legally binding on the participants
 - Define and govern the legal rights and responsibilities of the participants
- Content
 - Existing legislative/regulatory rules
 - Contractual obligations



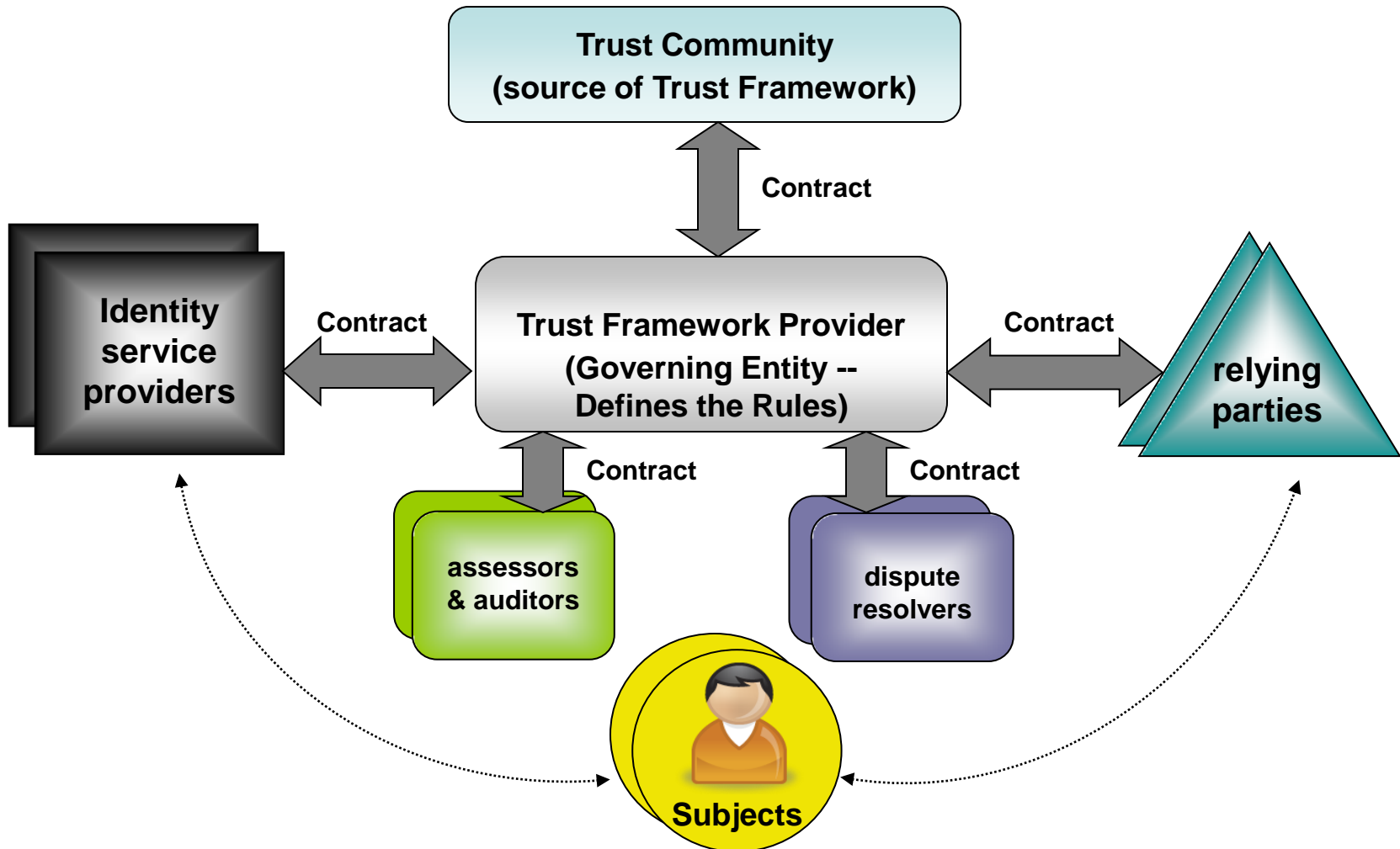
“Trust Frameworks” . . .

- Will typically be created by commercial entities
- Will vary with the purpose of the identity system
- Will be primarily based on private contracts
- Will seek to support participant trust in the identity system by:
 - Imposing enforceable specifications, standards, and rules on all parties
 - Adequately defining the rights and responsibilities of the parties
 - Fairly allocating risk and responsibilities among the parties
 - Providing legal certainty and predictability to the participants
 - Complying with existing law
 - Working cross-border

Possible Approach to an Identity Trust Framework



Wildman Harrold
Attorneys and Counselors



Common Legal Problems to Be Addressed By a Trust Framework



Wildman Harrold
Attorneys and Counselors

- Legal Uncertainty
 - Lack of legal rules or lack of clarity re applicable legal rules
- Liability Risk
 - Uncertainty over potential liability is key issue!
- Legal Compliance
 - E.g., privacy law requirements
- Legal Barriers
 - Some laws may adversely impact Identity systems;
 - Can they be altered by agreement?
- Contract Enforceability
 - How can we bind all participants (and affected non-parties) in an enforceable Trust Framework?
- Cross-Border Issues
 - Regulatory law in one jurisdiction may differ from another



III. The Challenge for UNCITRAL



Status of Work to Date

- Operational Requirements

- Much work being done by many groups and governments
- Groups: Kantara Initiative, Open Identity Foundation, ITU, EURIM, STORK, OIX, WS-Federation, etc.
- Governmental: Australia, Belgium, Finland, EU, Germany, India, OECD, Scotland, Sweden, U.S., etc.

- Legal Rules

- ***Largely unaddressed!***
- Some private (closed) identity systems such as IdenTrust, SAFE-BioPharma, CertiPath, etc.
- American Bar Association Identity Management Legal Task Force



Need to Address Legal Issues

- There is a critical need to address the legal challenges of identity management necessary to facilitate international e-commerce
- In particular, little (if any) work is being done on the international / cross-border legal aspects of this foundational e-commerce issue



For Example . . .

- “Business, technical ***and legal inter-operability*** are necessary for cross-sectoral and cross-jurisdictional transactions.”
 - OECD Recommendation on Electronic Authentication, June 2007
- “From an international policy perspective, a key challenge is to ***minimise regulatory complexity*** and ***turn regulatory obligations into an enabler rather than a barrier to interoperability*** across borders.”
 - OECD, The Role of Digital Identity Management in the Internet Economy, June 2009
- “Issues may also need to be addressed regarding the ***role of contractual obligations.***”
 - OECD, The Role of Digital Identity Management in the Internet Economy, June 2009



UNCITRAL's Role

- UNCITRAL is the organization in the best position to take on this critical task, since its mission is legal, international, and commercial
- Addressing identity management is a prerequisite for --
 - Electronic signatures
 - Model Law on E-Commerce – Articles 7(1) and 9(2)
 - Model Law on E-Signatures – Articles 2(a) and 9
 - Convention on the Use of Electronic Communications in International Contracts -- Article 9(3)
 - Mobile commerce
 - Electronic transferable records
 - Single window



Initial Focus

- Identifying the legal issues – both generally and internationally – particularly as they relate to
 - the potential liability of participants, and
 - the legal requirements for trust among the participants
- Identifying and addressing legal barriers to cross-border identity management
- Enabling a structure for the development of enforceable private cross-border Trust Frameworks

Further Information



Wildman Harrold
Attorneys and Counselors

Thomas J. Smedinghoff

Wildman, Harrold, Allen & Dixon LLP

225 West Wacker Drive

Chicago, Illinois 60606

312-201-2021

smedinghoff@wildman.com