Building the Legal Framework for Using Digital Identity in Electronic Commerce

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Thomas J. Smedinghoff UNCITRAL Locke Lord LLP



Looking at the Complete Picture

- Digital identity raises numerous issues, including:
 - Technical
 - Processes
 - Standards
 - Social
 - Legal
- Legal issues are new and global
 - No one has figured them out yet
 - The process is starting locally
 - But no agreement on what law should do!
 - Like e-commerce law 20 years ago



New Digital Identity Laws Are Coming Online

- July 2014 European Union elDAS Regulation
 - (Electronic identification and signature)
- March 2015 Virginia Electronic Identity Management Act
- July 2015 UNCITRAL approves project to develop an international digital identity legal framework
 - Offers potential for a uniform global solution

Agenda

- The role of UNCITRAL
- The legal challenges of digital identity systems
- Building a legal framework for digital identity

The Role of UNCITRAL





UNCITRAL



- United Nations Commission on International Trade Law
- CNUDMI -- Comisión de las Naciones Unidas para el Derecho Mercantil Internacional
- Established by the UN General Assembly in 1966
- Membership
 - 60 member states elected by the UN General Assembly
 - All other member states invited to participate
- Core legal body of the United Nations system in the field of international trade law.
- Focus is on the modernization and harmonization of rules on international business

UNCITRAL

United Nations
UNCITRAL

- Six Working Groups
 - I -- Micro, Small and Medium-sized Enterprises
 - II -- Arbitration and Conciliation
 - III -- Online Dispute Resolution
 - IV -- Electronic Commerce
 - V -- Insolvency Law
 - VI -- Security Interests
- State delegations to Working Groups are typically composed of subject matter experts

UNCITRAL

- Work Methods
 - Trade law texts are developed by the Working Groups
 - Non-member states and international and regional organizations are invited to actively participate
 - Decisions taken by consensus, not by vote
- Trade law texts developed by UNCITRAL include
 - Conventions
 - Model laws
 - Legislative guides
 - Contractual rules
 - Legal Guides

Example -- Consider UNCITRAL Role in Development of E-Commerce Law

- Problems with individual early efforts
 - Utah, Germany, Colombia, and Malaysia
 - Most U.S. states, and several other countries
 - All inconsistent
- UNCITRAL entered process
 - All parties participated
 - Very synergistic process
 - Developed an agreed-upon approach model law
 - Had major influence on development of e-commerce law globally



Highlights – WG IV: Electronic Commerce

- Model Law on Electronic Commerce (1996)
 - Legislation based on or influenced by the Model Law has been adopted in 64 States and a total of 139 jurisdictions
- Model Law on Electronic Signatures (2001)
 - Legislation based on or influenced by the Model Law has been adopted in 31 States
- UN Convention on the Use of Electronic Communications in International Contracts (2005)
 - Ratified by 7 States so far
- Major impact on development of e-commerce law and on international harmonization of such law
 - New paradigm for development of law



UNCITRAL - Identity Management Proposal

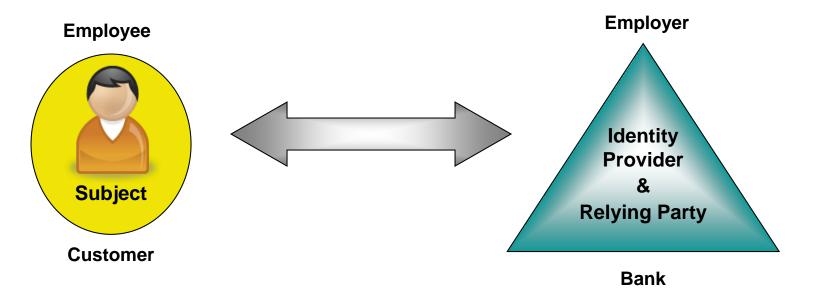
- July 2015 meeting
 - <u>Proposal</u> that WG IV undertake a project to address digital identity management
 - Submitted by ---
 - Austria, Belgium, France, Italy, and Poland
 - American Bar Association Identity Management Legal Task Force
 - Goal Develop a "basic legal framework covering identity management transactions"
- UNCITRAL agreed that Working Group IV should begin the process of undertaking work on a legal framework for digital identity management

THE LEGAL CHALLENGES OF DIGITAL IDENTITY SYSTEMS

1. Digital Identity Involves Multi-Party Systems

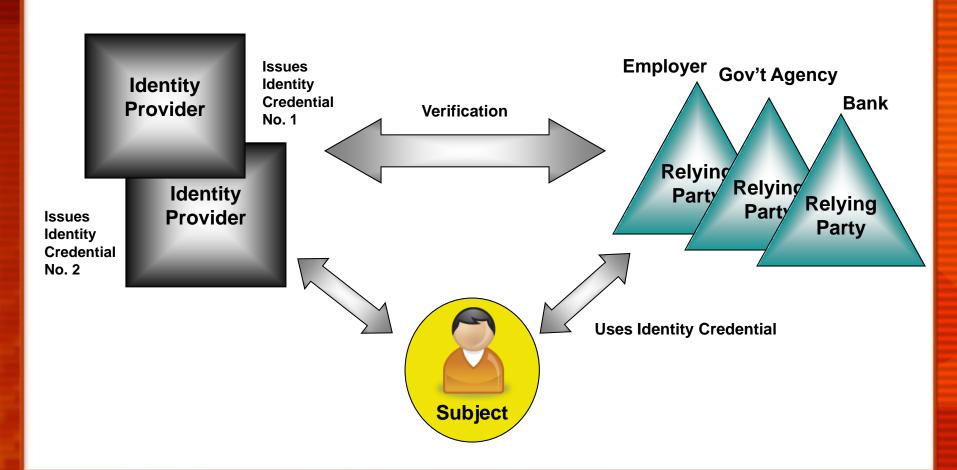
Traditional Two-Party Approach to Identity

Relying party and identity provider are the same entity



Emerging Multi-Party Approach: Federated Identity Management

Relying Parties rely on identity credential from multiple third party Identity Providers



Key Goals

- Allow users to -
 - Obtain identity credentials -
 - From one or more identity providers
 - Use credentials -
 - At multiple relying parties
 - Located in multiple jurisdictions
- Allow relying parties to accept and verify credentials -
 - From multiple identity providers
 - From multiple jurisdictions
- And all parties trust the processes and results

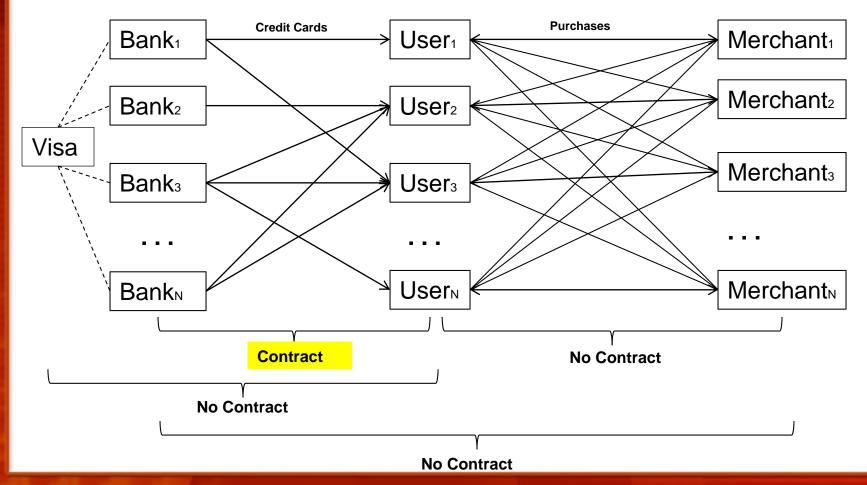
Issues with a Multi-Party System

- Large pool of participants interact with each other on a random basis
- Connections between participants are often indirect
- Need to be sure everyone acts properly so the system works for all participants
- Need to ensure that all participants trust both
 - The operation of the system, and
 - The performance of each participant
- Not practical to have bi-lateral contractual relationships between all of the parties – need alternate approach
- Note: Identity systems are analogous to credit card systems

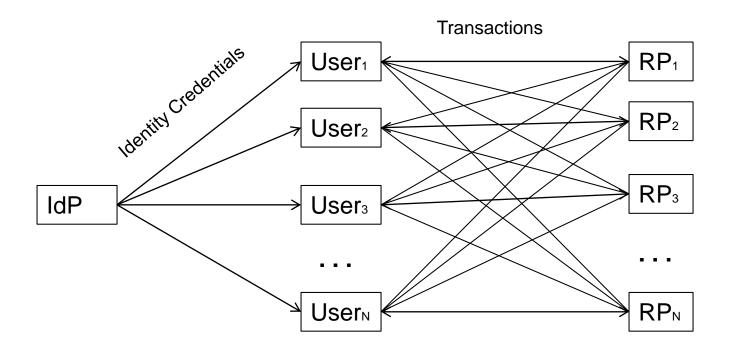


Interactions of a Multi-Party Credit System

Data Flow: Multiple Banks issue credit cards to multiple cardholders (Users) who use those cards to make purchases from multiple Merchants

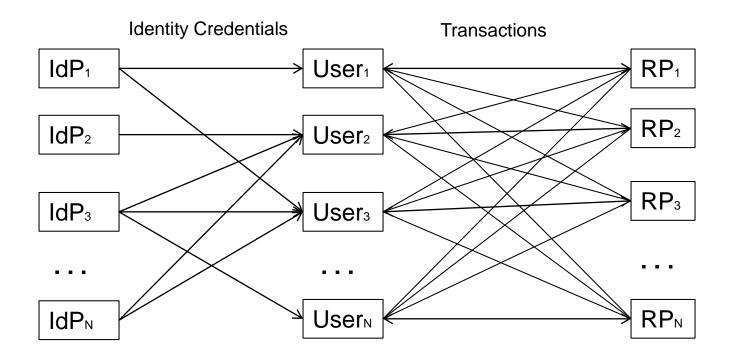


Interactions of a Multi-Party Identity System



Data Flow: Multiple IdPs issue identity credentials to multiple users who use those credentials to make enter into online transactions with multiple RPs

Interactions of a Multi-Party Identity System



Data Flow: Multiple IdPs issue identity credentials to multiple users who use those credentials to make enter into online transactions with multiple RPs

Problems Can Arise; Key Multi-Party Identity System Risks

- Operational Risk
- Data Accuracy Risk
- Authentication Risk
- Privacy Risk
- Data Security Risk
- Legal Risk (e.g., liability, violation of law)
- Enforceability Risk

Mechanisms to Reduce Risks

- Technology
- Processes
- Performance of the participants
- Defined duties and obligations



2. Multi-Party Identity Systems Need Rules and a Legal Framework

Multi-Party Identity Systems Need Rules to -

- Make the system "operationally functional"
 - To specify technology and processes so that it "works"
 - So that everyone knows what to do
- Make the system "legally functional"
 - Define participant legal rights, duties, and obligations
 - Clearly define and fairly allocate liability risks
- Make the system "trustworthy"
 - Address and minimize the risks (beyond mere functionality)
 - Make duties and obligations binding and "enforceable"
 - Ensure that participants have confidence in the results and are willing to rely on them



Rules Require a Legal Framework to . . .

- Define and clarify which rules apply
- Specify which rules apply to which participants
- Allocate risk and liability among participants
- Make the rules enforceable
- Provide remedies for violations

Some Basic Questions . . .

- What is a legal framework?
- How is it structured?
- Who builds it?
- How is it enforced?
- How does it work cross-border?
- How does UNCITRAL fit in?

Developing a Legal Framework for Digital Identity

What Is a Legal Framework?

- A broad system of rules
- consisting of the laws, regulations, and binding contractual commitments
 - that apply to a specific system, or in a specific context, and
 - that establish the rights and obligations of the relevant parties

Identity Systems are Governed by a Three-Level Legal Framework

Existing General Law

Contract law, Tort law, Commercial law, Privacy law, Fraud law, Competition law, etc.

2

Identity-Specific Law (NEW)

- EU elDAS Regulation,
- Virginia legislation,
- UNCITRAL?

Public Law (Rules)

System Rules must comply with Level 1 and 2 above

3

System Rules for Identity System A

System Rules for Identity
System B

System Rules for Identity System N

Private Law (Rules)

Legal Framework – Level 1 Existing General Law

Characteristics

- Public law (enacted by government)
- Currently exists consists of existing statutes, regulation, and case law
- Not written to address identity issues
- Not always clear how it applies to identity

Examples

 Existing contract law, tort law, data protection law, commercial law, personal injury law, fraud law, competition law, etc.

Problems

- Not easily applied to digital identity
- Not interoperable
- Not easily changed
- May raise legal barriers



Legal Framework – Level 2 (New) Identity-Specific Law

Characteristics

- Public law (enacted by government)
- Consists of <u>new</u> statutes and/or regulations
- Written to specifically address online identity management
- Apply to all identity systems
- Can be used to encourage the marketplace or regulate it

Examples

- EU eIDAS Regulation,
- Virginia Electronic Identity Management Act
- UNCITRAL?

Possible Problems

- No one is sure what issues it should address
- May become outdated as technology or business models change
- May stifle marketplace development
- May not be interoperable; Hard to change



Legal Framework – Level 3 Contracts (Private Law)

- Characteristics
 - Private law (contract-based; agreed to by the participants)
 - Developed specifically for a particular identity system
 - Applies only to a specific identity system
 - Applies only to those participants that contractually agree
- Examples
 - System rules for Gov.UK.Verify, US FICAM, IdenTrust, SAFE-BioPharma, Certipath, CA/Browser Forum, etc.
- Problems
 - May conflict with existing law
 - Need to get agreement on terms
 - Need to get all participants to sign

Identity System Legal Framework: Three Levels of Rules Can Govern

Existing General Law

Contract law, Tort law, Commercial law, Privacy law, Fraud law, Competition law, etc.

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Private Law (Rules)

Level 3 Law Private System Rules



Level 3 Private Law - System Rules Are . . .

- A contract-based set of
 - Business and technical rules
 - Contractual legal rules
- That include
 - Standards, processes
 - Rules, requirements, and obligations
 - Enforcement mechanisms
 - applicable to the parties exchanging identity information
- They function like the rules that govern other multi-party systems such as the –
 - Credit card system operating rules, or
 - Payment system operating rules



Those Contract-Based System Rules Go By Various Names, such as . . .

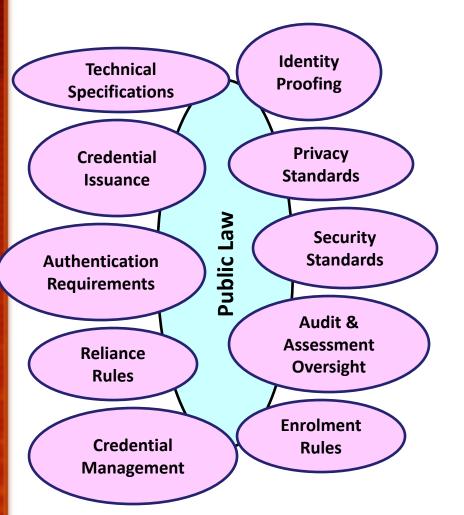
- Trust Framework NSTIC / Kantara / U.S. FICAM
- Scheme Rules UK IDAP / GOV.UK.Verify
- Operating Policies SAFE-BioPharma
- Federation Operating Policies & Practices InCommon
- Operating Rules FIXs / CAHQ (health info exchange)
- Operating Rules and System Documentation IdenTrust
- Common Operating Rules CertiPath
- Guidelines CA/Browser Forum
- Operating Regulations Visa (credit)
- Operating Rules NACHA (electronic payments)
- Operating Procedures Bolero (e-bills of lading)

Level 3 Contract-Based System Rules Cover Two Categories of Issues

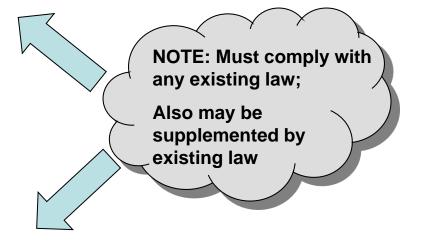
- 1. Business and technical rules and standards
 - To make identity system work
 - To minimize risks
- 2. Legal rules (defined by contract)
 - To govern the legal rights of the parties
 - To allocate risks



Business & Technical Rules: (Components Necessary to "Make it Work")



Partial listing of Business & Technical Rules



Legal Rules (contract-based) (To Govern Legal Rights of the Parties)

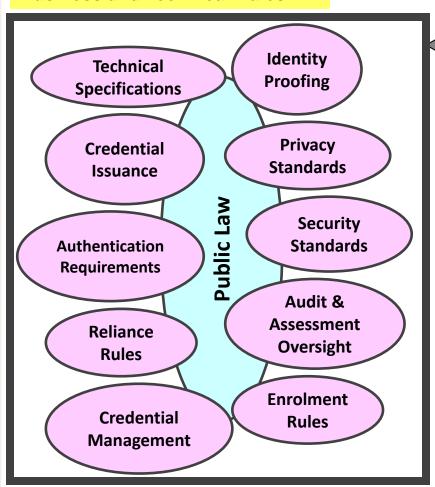
Existing Law as Supplemented and/or Modified by Private Legal Rules

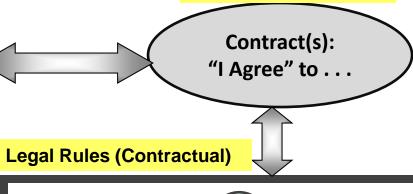
Partial listing of Legal Rules



Putting It All Together to Form Enforceable "System Rules"

Business and Technical Rules





Enforcement Element



So What Is the Role of Level 2 Identity-Specific Law?

And How Does UNCITRAL Fit In?



Key Question for Level 2 Law

- What issues should Level 2 identity-specific law address?
- Which issues should be left to the parties to contractually define in Level 3?

UNCITRAL Role

- UNCITRAL provides an international process by which States can jointly figure out how to address the legal issues of digital identity management
- Determine appropriate goals
- Design identity-specific law to meet those goals
- Assist States in developing domestic identity-specific law
- Assist in facilitating international interoperability of identity systems

Potential UNCITRAL Goals Include . . .

- Encourage the development of identity systems
- Facilitate use of digital identity for both commercial use and access to government services
- Facilitate use of digital identity across borders i.e., internationally
- Facilitate interoperability across different identity systems
- Harmonize international legal approaches to facilitate commercial transactions that require identity

Possible Approach of Identity-Specific Law

- Remove barriers created by existing Level 1 law
- Fix problems with existing Level 1 law
 - E.g., issues that Level 3 private system rules cannot resolve
- Provide gap-fillers (for issues not addressed at Level 3)
- Promote trust in identity systems
- Facilitate legal recognition of identity and authentication
- Facilitate identity system interoperability
 - Both cross-system and cross-border
- Encourage and incentivize development of identity systems
- Regulate Level 3 private system rules

Possible Principles for Identity-Specific Law

- Technology neutrality
- Identity system neutrality
 - Accommodate many different identity systems models
 - Recognize that there is no one-size-fits-all approach
- Adaptability
 - Accommodate future changes in technology, standards, and business models
- Party autonomy
 - Allow variation by contract
 - e.g., via system rules

Possible Issues That Identity-Specific Law Might Address

- Remove legal barriers, ambiguities, and uncertainties in existing Level 1 public law
 - Liability
 - Reliance
 - Third party rights
 - Legal effect of authenticated identity
- Interoperability of identity credentials
 - Cross-system
 - Cross-border (legal interoperability)
- Facilitate trustworthiness
 - Levels of assurance
 - Data security
 - Certification, audits, etc.
 - Presumptions



Consider Liability for Example; Concerns for all Roles

- Identity Provider
 - Incorrectly identifying or authenticating a user
 - Failing to protect or misusing a user's personal data
 - Delay or failing to verify or revoke credential
- Relying Party
 - Relying on a false credential
 - Failing to protect or misusing a user's personal data
- User / Data subject
 - Providing false identity data
 - If someone else uses the credential
 - If someone misuses personal data?

Some Basic Liability Questions

- Liability of each role
- Liability for what?
- Liability to whom? Third parties?
- What legal theories are applicable?
- Impact of system rules?
- Any safe harbors?
- Rights to limit liability?

Can We Legislate Trust?



Next Step for UNCITRAL

- Convene experts group in Fall 2015
- Hold a colloquium
- Decide on a direction, and begin work in 2016

Questions?



Thomas J. Smedinghoff
Locke Lord LLP
111 S. Wacker Drive
Chicago, IL 60606
Tom.Smedinghoff@lockelord.com