MUTUAL RECOGNITION MECHANISMS

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Background: Why Mutual Recognition is important?

- Electronic exchange of data across borders requires a certain degree of trust
- Legislative frameworks exist within national jurisdictions that recognize electronic data and their exchange
- In a cross border electronic data exchange
  - Establishing confidence and “substantial equivalent level of reliability” can be difficult because of differing local legislation
  - Electronic data exchange, storage and retention standards may differ and may have evolved based on local regulations
  - Usage of technologies such as cloud computing results in data residing in multiple jurisdictions
  - Emerging technologies such as Blockchain, IoT are adding new dimensions resulting in increased types and source of data

To address these issues, a mutual recognition mechanism is required to create trusted trans-boundary electronic interaction and enable cross border exchange of electronic data.
Electronic Data and its inherent nature

- The Buy Ship Pay process developed by UN/CEFACT indicates that a number of documents and data are exchanged during a trade related process.
Electronic Data and its inherent nature

- As electronic systems have matured, over time, standards have also evolved which define how electronic data can be exchanged, for example: Electronic Data Interchange
- Reliable exchange and acceptance of electronic data needs to tackle a number of issues
  - Data could be in structured or unstructured form
  - Interoperability and compatibility issues arising out of different data standards, for example: XML, PDF etc and different technologies used
  - Ability to ascertain integrity of data where required
  - Need for tackling high volume and velocity of data as in the case of big data use cases such as IoT
  - Usage of legacy systems and need for migration of data
  - Differing language environments

Given this context, electronic data poses significant challenges in enabling digital trust in cross border exchange of trade related data and documents
Scope of Mutual Recognition

• The scope of mutual recognition mechanism should cover aspects and areas that allow establishment of “substantial equivalent level of reliability”

• This may have to go beyond just trade related data and take into account
  • Technical standards used in data exchange (for ex: ability to ascertain data integrity)
  • Entities owning, certifying and/or transmitting data,
  • Establishment of level of confidence (identification, authentication methods) through a trusted environment
  • Role that accreditation bodies could play in monitoring the trusted environment
Preliminary Research and Findings

- A number of bi-lateral and multi-lateral institutional and inter-governmental arrangements exist for cross-border mutual recognition
- A closer analysis helps us make the following general observations
  - The concept of trusted trans-boundary legally significant electronic interactions is still fairly new
  - While most countries have put in place national legislation recognizing electronic documents or signatures, the scope is domestic or regional or limited to highly integrated union of states
  - Instruments are generic and not legally binding from the perspective of cross-border trade
  - Awareness levels are generally low across multiple sectors and their regulators making cross-sectoral adoption challenging
  - There is no concrete action at an implementation level to facilitate paperless cross-border electronic trade
Experiences from India

• In India, the journey started 18 years back
• Key milestones achieved
  • 2000 – IT Act was passed based on UNCITRAL model law with following provisions introduced
    • Legal recognition to electronic records
    • Authentication of electronic records
    • Manner in which authentication can be satisfied (for ex: through the use of electronic signatures)
    • Procedures for licensing Certifying Authorities that can issue digital certificates
    • References with Indian Penal Code, Indian Evidence Act, 1872, Bankers Book Evidence Act, 1891, Reserve Bank of India Act, 1934
  • 2008 – Key amendments made including distinction between electronic signature and digital signature
Experiences from India

• Key milestones achieved (contd..)
  • 2012 – Powers given to Controller of Certifying Authorities, Ministry of Information Technology to sign mutual recognition agreements with other countries
  • 2013 – First such mutual recognition agreement signed with South Korea
  • 2014 – Central Bank (Reserve Bank of India) and published a comprehensive report outlining need for enhancing cyber security measures in Banking
    • Electronic signature was recommended to be provided as an option to customers for securely logging into internet banking or for fund transfers
    • Other cyber security measures include use of Two Factor Authentication
  • 2014 – Tax Administration and others adopted similar approach
Experiences from India

- Key milestones achieved (contd..)
  
  - 2015 – Launch of AADHAAR enabled electronic Signatures
    
    - AADHAAR is India’s Digital ID now rolled out to **1.3bn residents**
    
    - Electronic signatures use OTP/Biometric authentication and leverage KYC data available with Govt of India to create **dynamic one time signatures that are legally valid**
    
    - Helped bring cost of adoption to **USD 10 cents** per transaction and create large scale adoption
    
    - Use cases include Account Opening in Banks, Insurance, Capital Markets, availing eGovernance services, employee onboarding etc
Experiences from India

- Creation of India Stack – a technology stack based on Open API’s and Layered Innovation to enable electronic KYC, Signatures and Payments based on user consent
  - **CONSENT LAYER**: Provides a modern privacy data sharing framework
  - **CASHLESS LAYER**: Game changing electronic payment systems and transition to cashless economy
  - **PAPERLESS LAYER**: Rapidly growing base of paperless systems with billions of artifacts
  - **PRESENCE-LESS LAYER**: Unique digital biometric identity with open access of nearly a Billion users
  - **Open Personal Data Store**: IMPS, AEPS, APB, and UPI
  - **Aadhaar e-KYC, E-sign, Digital Locker**: Aadhaar Authentication

- AADHAAR eSign – Digital Id based electronic signatures
Experiences from India

- Key milestones achieved (contd..)
  - 2019 – Huge success of Digital India program
    - Over 3bn electronic KYC’s
    - Over 40mn electronic signatures
    - Over 600mn electronic payments
Conclusion

- The following will need to be considered in enabling mutual recognition
  - Creation of a strategy which can help arrive at a legal, technical and operational umbrella framework
  - Domain and country specific legislation supporting cross border paperless trade
  - Use of interoperable open standards in technology frameworks for Identity, Authentication etc
  - Capacity building for implementation
Thank You

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