

# Introduction to the UNCITRAL Model Law on Electronic Transferable Records

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The views expressed are those of the author and do not necessarily reflect the views of the United Nations and of UNCITRAL.

## From Paper to Electronic, from Documents to Data

- High-level goals:
  - Make information available everywhere, anytime
  - > Enable data reuse and analysis
  - Digitalise trade end-to-end
- Success is the result of policy, technical and legal choices
  - ➤ On the legal side, need to have certainty and predictability on the status of electronic transactions and documents
- Certain stakeholders may be risk-averse





## **UNCITRAL** and Digital Trade Law

- UNCITRAL is the core legal body of the United Nations system in the field of commercial law
- It is tasked with modernising and harmonising commercial law by drafting treaties and model laws
- Active for 50+ years based on universal membership
- UNCITRAL started working on legal aspects of electronic commerce already in the 1980s
- UNCITRAL texts on digital trade (e-commerce) have been enacted in more than 100 States
  - > Increasing reference to UNCITRAL texts in free trade agreements
- Texts, status, preparatory and explanatory materials are available on the <u>UNCITRAL</u> website





#### **UNCITRAL Texts on Electronic Commerce**

- UNCITRAL Model Law on Electronic Commerce, 1996
  - > Enacted in over 90 States, including Hong Kong
- UNCITRAL Model Law on Electronic Signatures, 2001
  - > Enacted in about 40 States
- United Nations Convention on the Use of Electronic Communications in International Contracts, 2005
  - > 19 States parties
  - > 30+ States have enacted domestically its provisions
- UNCITRAL Model Law on Electronic Transferable Records, 2017
  - Enacted in 10+ jurisdictions
- UNCITRAL Model Law on the Use and Cross-border Recognition of Identity Management and Trust Services, 2022
- UNCITRAL Model Law on Automated Contracting, 2024





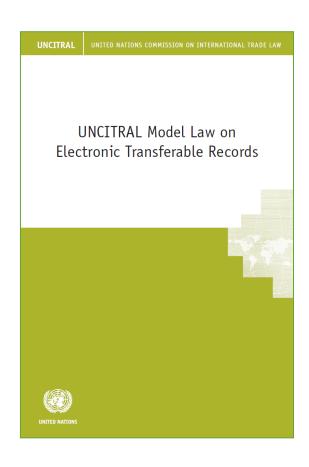
## The Missing Block in Trade Documents Digitalisation

- Transferable documents and instruments/documents of title
  - > Holder of document may receive in exchange money or goods
  - > Bills of lading, checks, bills of exchange, promissory notes
  - > Possibly, warehouse receipts, letters of credit
- Can be used for trade financing or for payment
- Contain best quality data about the commercial transaction
- Law developed based on the use of paper
  - > How to enable their use in electronic form?





## The Solution: The UNCITRAL Model Law on Electronic Transferable Records (MLETR)



- Adopted in 2017, the Model Law on Electronic
   Transferable Records (MLETR) enables the use in electronic form of bills of lading, promissory notes, etc.
- Critical for digitalisation of trade financing, transport and logistics, and paperless trade facilitation
- Supports the use of emerging technologies such as blockchain, IoT and smart contracts
- Text and explanatory note are available on the UNCITRAL website





## **MLETR: The Legal Effect**

- Enabling law: no new regulation
- Gives legal recognition to electronic transferable documents
  - One, some or all, the depending on enacting law
- Does not modify existing law
  - > Same law applies to electronic and paper-based documents
  - > All existing relevant regulations apply
- Shares the same principles and language with other UNCITRAL texts
  - This facilitates MLETR adoption in those jurisdictions, including Hong Kong, that have already enacted UNCITRAL texts on e-commerce





### **MLETR: The Features**

- <u>Technology neutral</u> (with DLT guidance)
- Based on <u>functional equivalence</u> by achieving control, singularity and integrity with the use of a reliable method to:
  - > ensure that the ETR corresponds to the obligation
  - > ensure that the person controlling the ETR (e.g. requesting performance) is the intended one
  - > record all events during the lifecycle of the ETR





## Requirements for an ETR (Art. 10)

- 1. ETR must contain all information needed for paper document
  - May contain optional information
  - May contain information available only in electronic form (metadata, automated clauses, data originating from IoT)
- 2. A reliable method must be used to
  - A. Identify an electronic record as the electronic transferable record ('singularity')
  - B. Make the ETR subject to control for the whole lifecycle
  - C. Retain the integrity of the ETR
    - All events during the ETR lifecycle should be recorded so that the information is 'complete and unaltered'





## Possession and Control (Art. 11)

- The key challenge is to define the equivalent of 'possession'
  - Possession is a fact that refers to tangible goods
  - ➤ How to possess in a virtual environment?
- The ETR management system must:
  - > Establish exclusive control over the ETR
  - Identify the person in control
- Control and integrity are implemented through technical solutions
- In practice, trust services may be used
  - For instance, transfer of control may be recorded with an electronic registered delivery service





## **Preventing Fraud ('Double-Spending')**

- Need to avoid multiple requests for the same performance
  - Paper-based documents are to be presented in original
  - Paper is far from perfect
    - But established practice allows risk assessment
  - Documentary credit fraud is on the rise
- The MLETR combines the notions of 'control' and 'singularity' to prevent multiple claims
- One ETR = one claim for performance





#### What is a Reliable Method?

- Article 12 MLETR contains an open-ended list of circumstances relevant for reliability
- Rulebooks and other contractual agreements on terms and conditions of the service may be relevant between the parties
- Emerging private sector standards:
  - > ICC DSI is helping industry to co-develop technical standards
  - > Importance of assessment of reliability by IG of P&I Clubs
- MLETR does not contain a mechanism for designation of services presumed reliable, but does not exclude it





## **How to Promote Reliability?**

- Different approaches to reliability assessment of ETR management services are possible
  - > Similar to e-signatures and other trust services
- A 'two-tier' approach is common:
  - ➤ All services may have legal effects
  - > Certain 'qualified' services enjoy legal presumptions
- This enhances legal predictability while enabling the use of ETR





## Why Adopt MLETR?

- Enables trade-related dataflows
  - Based on technology neutrality and interoperability
- Improves governance of supply chains and trade financing
- Reduces compliance costs
  - Easier access to credit
- Safeguards against fraud
- Minimises manual inputs
  - Prevents errors and inconsistencies
- Facilitates cross-border operations





## **MLETR Impact on Trade Digitalisation**

- Dematerialisation of all commercial documents is a necessity
- Adoption of MLETR allows <u>reengineering business processes around commercial</u> <u>transactions</u> instead of documents
  - ➤ All commercial (transport and finance) and regulatory documents may be contained in a single electronic transferable record
- A single electronic transferable record offers best data quality
  - complete, accurate, up-to-date and authentic
- Adoption of MLETR may <u>lower costs</u> and <u>build more resilient logistic and supply chains</u>
  - > Need to manage jointly physical and digital trade flows
  - ➤ In line with calls from carriers for 100% e-BL by 2030





## **Benefits of Electronic Bills of Lading**

- Improved description of goods
  - Clearer package limitation
- Avoid misdelivery
  - Electronic bills of lading are always available
  - No need to issue letters of indemnity due to delayed or lost bills
- Prevent fraud
  - Easy verification of the bill holder / person in control
  - Link between document and cargo
  - Cargo is traceable from the source
- Facilitate investigation of cargo damage and loss
  - Accurate description of cargo conditions
  - Constant monitoring of carriage





## **Benefits of Digital Trade Finance and Fintech**

- Improve compliance at reduced cost
  - > Information is reusable
- Reduce access to credit costs
  - > Better identification of SMEs and of their assets
  - > Easier and faster handling of trade financing
- Prevent documentary fraud and money laundering
- Introduce innovative products
  - Merge transport and finance information





## Where Do We Stand with MLETR Adoption?

- The G7 has endorsed MLETR twice
  - France, Singapore, UK adopted
  - > Australia, China, Japan, Thailand are adopting
  - Germany and US adopted compatible laws
- Reference in Free Trade Agreements / Digital Economy Agreements
- Importance of involving all States
  - > To address the digital divide
  - To facilitate foreign ETR recognition





#### **Are There Differences in MLETR Enactments?**

- Some jurisdictions have followed MLETR closely, and for all documents
  - Bahrain, Singapore, UK adopted
- Other jurisdictions have introduced variations
  - > UK: declaration that intangibles may be possessed
  - > US: notion of control in UCC Articles 7 and 9
- France has opened the door to civil law style enactment
- Some jurisdictions are enacting limited to e-BL
  - China, Japan





## **Enacting the MLETR**

- The MLETR shares the same principles and language as other UNCITRAL e-commerce texts
- This facilitates MLETR enactment in those States that have already enacted UNCITRAL texts on e-commerce
  - > MLETR may be enacted a new chapter of the electronic transactions law or as a separate law





## **Enacting the MLETR in Hong Kong**

- Cap. 553 Electronic Transactions Ordinance
- MLETR can be enacted as a new chapter of the ETO
- Section 5. Requirement for writing
- Section 6. Electronic signatures, digital signatures, etc.
  - Can be used for electronic transferable records
- Schedule 1, exclusion of negotiable instruments to be deleted





## **Enacting the MLETR in Hong Kong**

- Cap. 440 Bills of Lading and Analogous Shipping Documents Ordinance
- Section 7. Regulations
- The Secretary for Commerce and Economic Development may by regulation make provision for the application of this Ordinance to cases where a telecommunications system or any other information technology is used for effecting transactions corresponding to—
  - (a) the issue of a document to which this Ordinance applies;
  - (b) the endorsement, delivery or other transfer of such a document; or
  - (c) the doing of anything else in relation to such a document.



