



# InterPARES 3 Project

International Research on Permanent Authentic Records in Electronic Systems

Certified e-Document Authority (CeDA)

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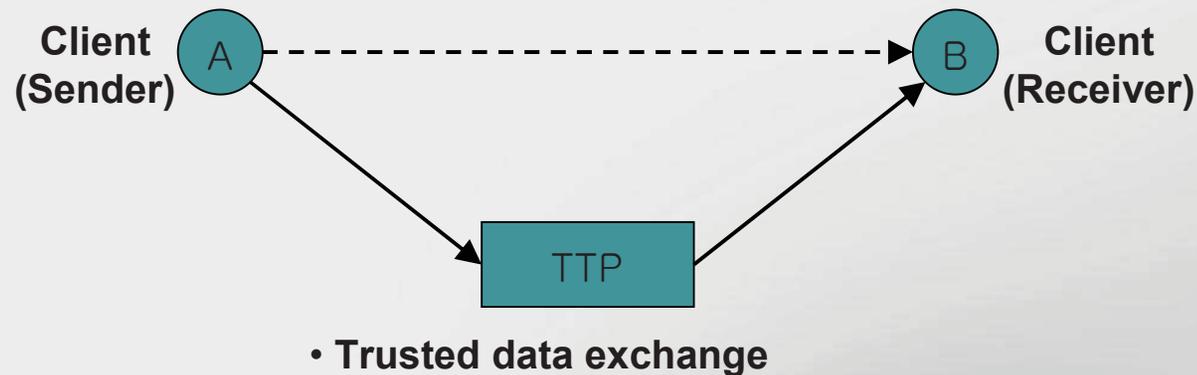
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# Agenda

- InterPARES 3 Project Team Korea Case Study
- Basics of trusted 3rd party digital repositories
  - Concept, features, and background
- Data collection and analysis
- Types and roles of trusted 3rd party digital repositories
- CeDA in Korea
- Issues and further questions

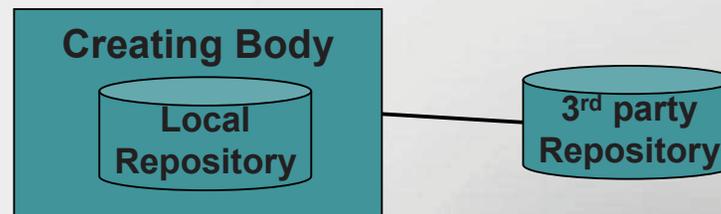
## Overview

- ◆ What is ‘Trusted Third Party Digital Repository’ ?
- ◆ Trusted Third Party (TTP)
  - An authority that acts as an intermediary between participating parties for trustworthy interactions between the parties
  - A trusted third party authority that is trusted by both parties (A and B) • **Risk of fraudulence**



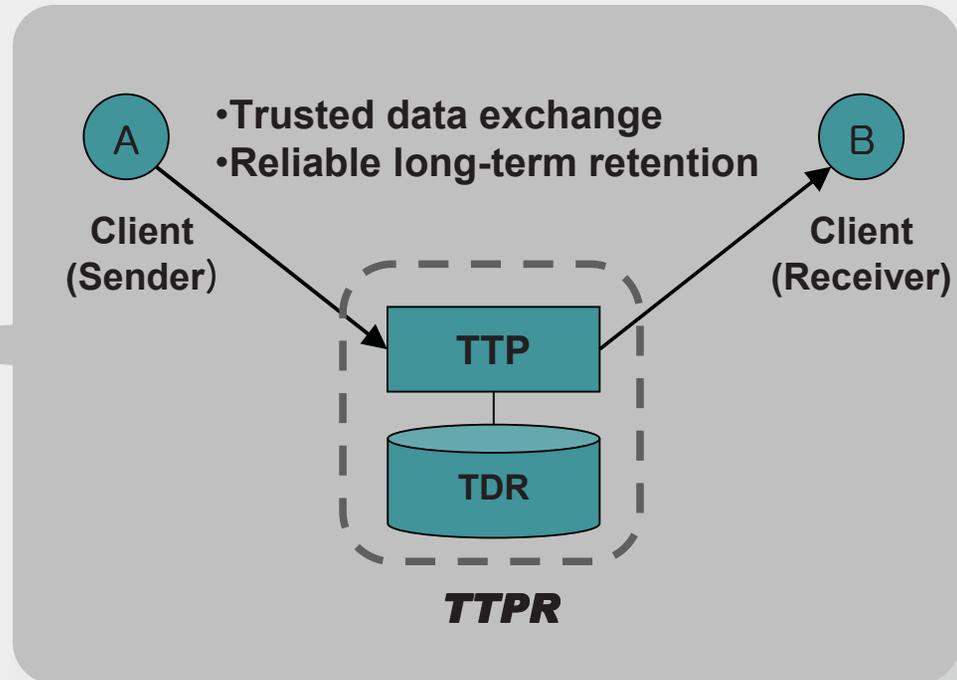
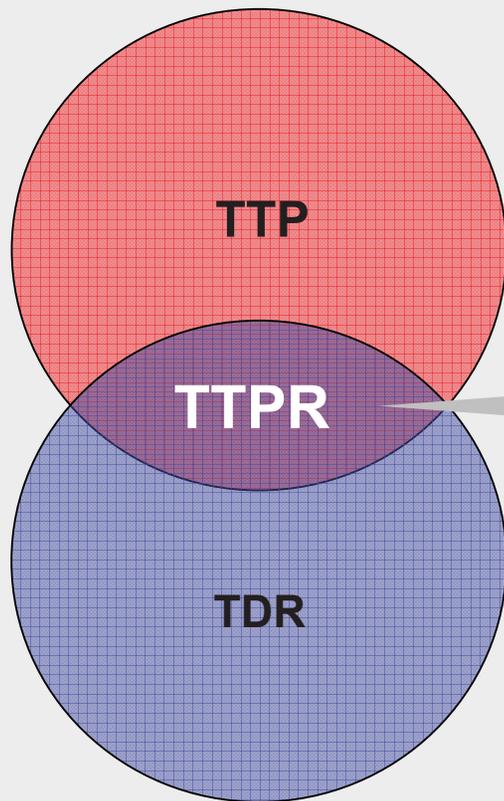
## Overview

- ◆ What is ‘Trusted Third Party Digital Repository’ ?
- ◆ Trusted Digital Repository (TDR)
  - “A trusted digital repository provides reliable, long-term access to managed digital resources to its designated community, now and in the future.” (OCLC/RLG, 2002, p. 5)
    - Take responsibility for the long-term maintenance of digital documents
    - Demonstrate fiscal responsibility and sustainability
    - Design its system in accordance with standards
    - Establish methodologies for system evaluation
    - Prepare policies, practices, performances that can be audited and measured
    - Can be either local repository or third-party repository



# Overview

◆ What is Trusted Third Party Digital Repository ? (TTPR)



# Background of trusted 3rd party digital repositories

## Industry

- Ensuring e-documents' reliability and authenticity;
- Building trust between e-document exchange parties;
- Promoting e-business and improving business efficiency and speed.

## Legal

- Resolving relevant laws and regulations into unified requirements in dealing with e-documents;
- Offering legal and procedural standards in establishing digital repository;
- Endowing digitized (scanned) documents with legal authority.

## Technical

- Based on the development of security and preservation technologies;
- Supporting electronic document exchange and sharing.

# Data collection: Interview

## 1. Interviews with 3 groups of professionals:

- Records creators
- Records managers
- (Records users)

## ■ Interview questionnaire: drawn from InterPARES 3

- Records questions
- System questions
- Policy questions

# Data collection: Supporting documents

## 2. Relevant Documents

- Institution's mission statement and annual reports;
- Publicly available documents that related to the system;
  - System manuals;
  - User guides.
- Other written materials generated by the institution;
  - Newsletters, monthly reports, special reports, statistical forms, meeting agendas, and planning documents of the institution.
- Additional comments made by the interviewee

# Types of trusted 3rd party digital repositories

## ◆ By Major Role



- Type 1: Archives retaining and preserving e-documents (e.g. US Iron Mt., Spain)
- Type 2: Archives + Certification or Notarization of e-documents (e.g. US, Japan)
- Type 3: Archives + Certification + Trusted Third Party (e.g. Korea)

# Governance of CeDA in Korea

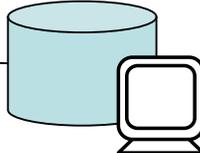
**Ministry of Knowledge Economy**

- Establishing acts, notices and regulations;
- Supervising KIEC's activities;
- Authorizing the CeDA.

**National IT Industry  
Promotion Agency (NIPA)**

- Evaluating potential candidates for the CeDA;
- Setting up technical standards and guidelines.

**Private Service  
Provider (CeDA)**

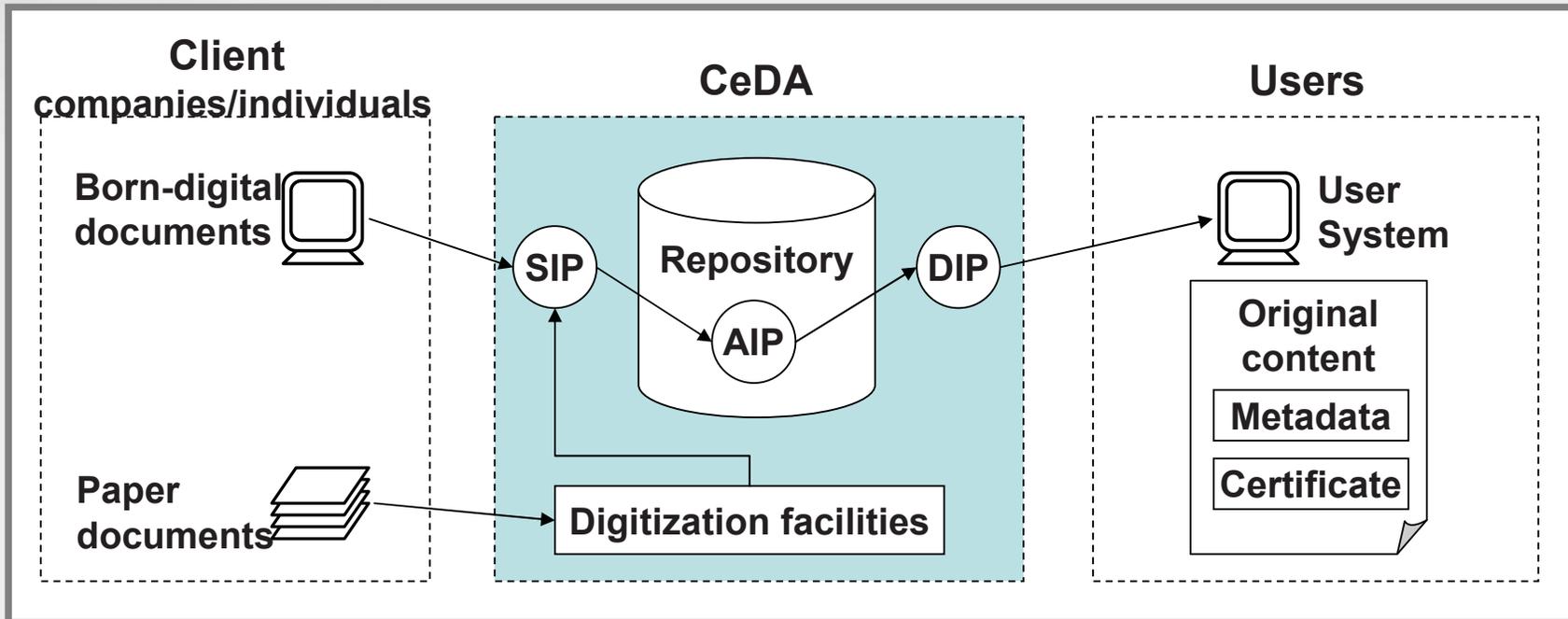


- Archiving e-documents;
- Exchanging secure e-documents;
- Certificating the retained e-documents.

**Client**

- Private businesses;
- Individuals.

# Overview of CeDA

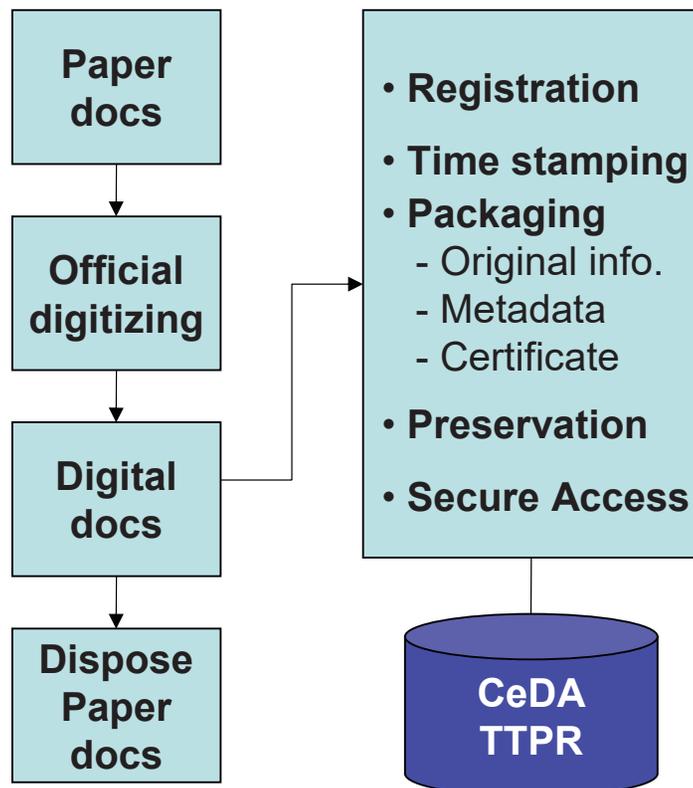


## Official repository that ensures e-document's reliability

- 1) Preserving born-digital and born-again digital documents;
  - Ensuring legal authority of all retained documents;
- 2) Certifying the lifecycle of e-documents; and
- 3) Being as an Intermediary for secure e-document exchange between parties.

# Services of CeDA

## 1) Official Digitizing & Archiving



## 2) Issuing Certificate

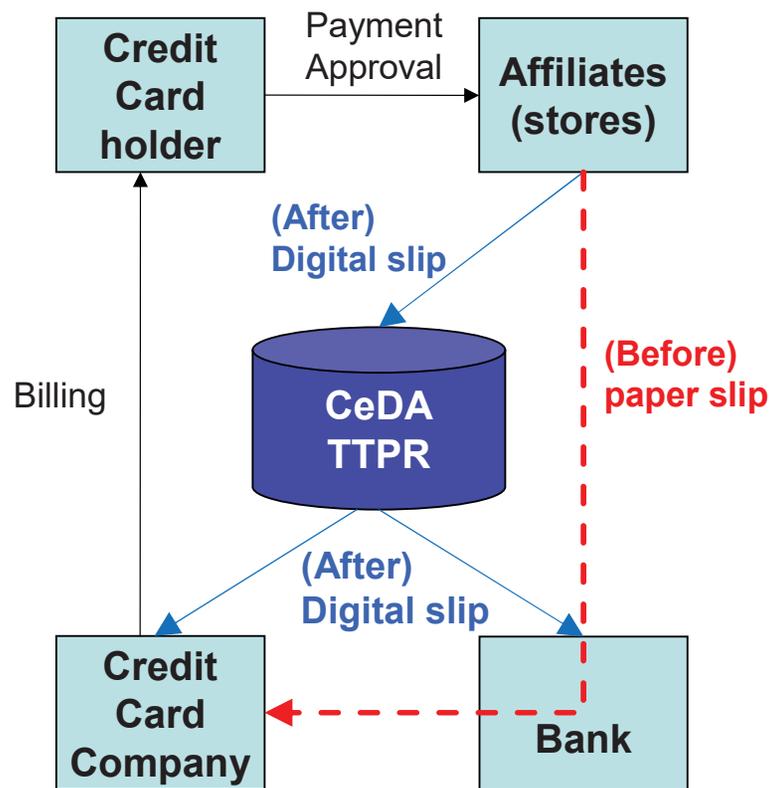
**Validation of the fact that  
CeDA retains authentic docs**

**Certificate of digital docs**  
- Creator information  
- Registration information  
- Authenticity information  
- Access history

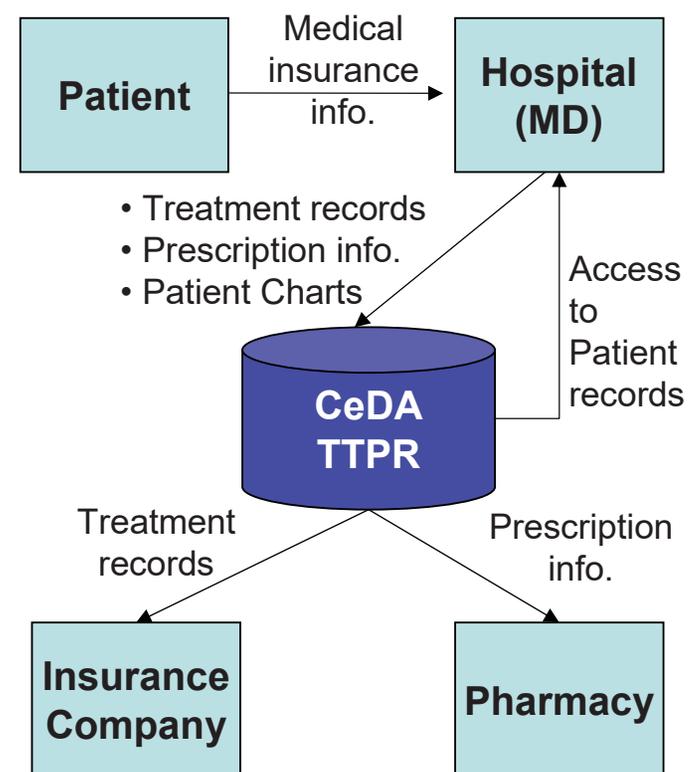
**Validation on the  
issued certificates**

# Services of CeDA: 3) Intermediary services

## Paperless Credit Card records



## Paperless Medical records



# Issues

- Repositories may vary in their major services and governing body, depending on the context of each country.
- Each repository seems to have some ways to ensure authenticity, reliability and integrity of electronic documents by establishing:
  - legal requirements;
  - technical specifications; and
  - operational procedures.
- Value of TTPR
  - Being a feasible solution for organizations without sufficient capabilities of digital information management;
  - Enabling to build national infrastructure in various industries for digital collaboration based on trusted relationship between participants