

**34th AFACT Interim Meeting**  
**Tehran, Iran**

# **Sharp WG**

*2015. 6.16~17*



# Overview of Sharp

- Brief introduction of Sharp WG
  - **Secured authenticated accountable interchange platform**
- Definitions of key concepts
  - ① **Trusted Service** : B2B, G2B, G2C etc.
    - Legality regarding e-transactions + Qualified service
    - paper based = paperless = hybrid(digitization)
  - ② **Trusted Third Party** : at least two other parties trust TTP
    - Between organizations/ outsourced group, interested group
  - ③ **Sharp Platform** = Trusted third party service platform
    - Internet/ Cloud / Mobile

# • Why Sharp?

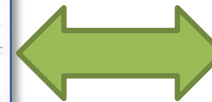


**Cert. of authenticity**

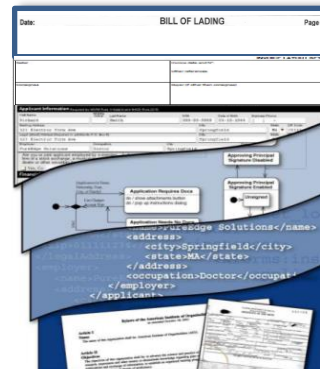


Custody

Paper records



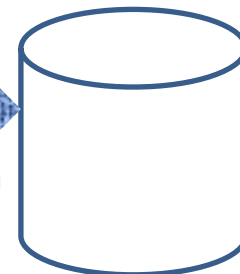
electronic system



**Cert. of communication**

**Sharp platform**  
dematerialization

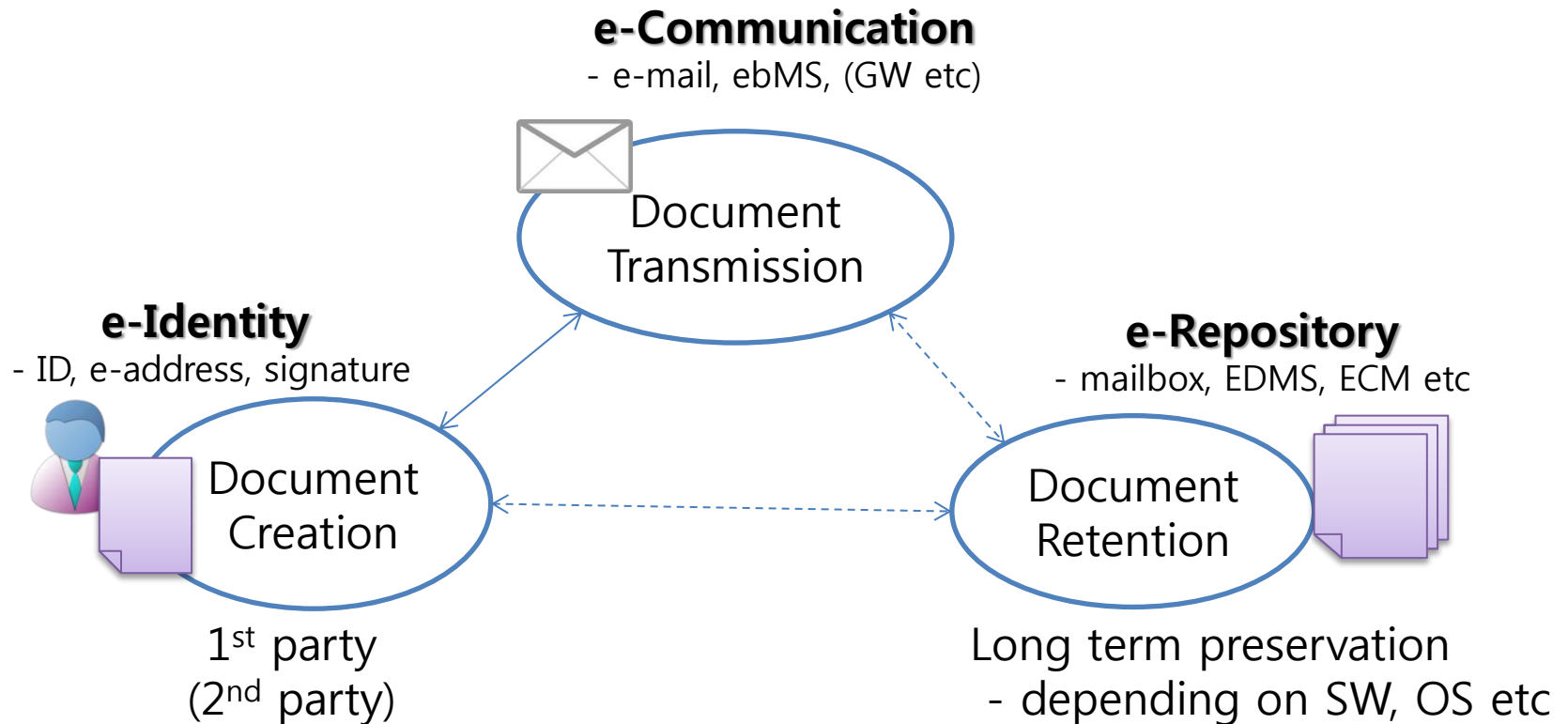
electronic records



**Cert. of authenticity**

# Current problems of custody chain, security

**How can I trust your this e-document was factual?**

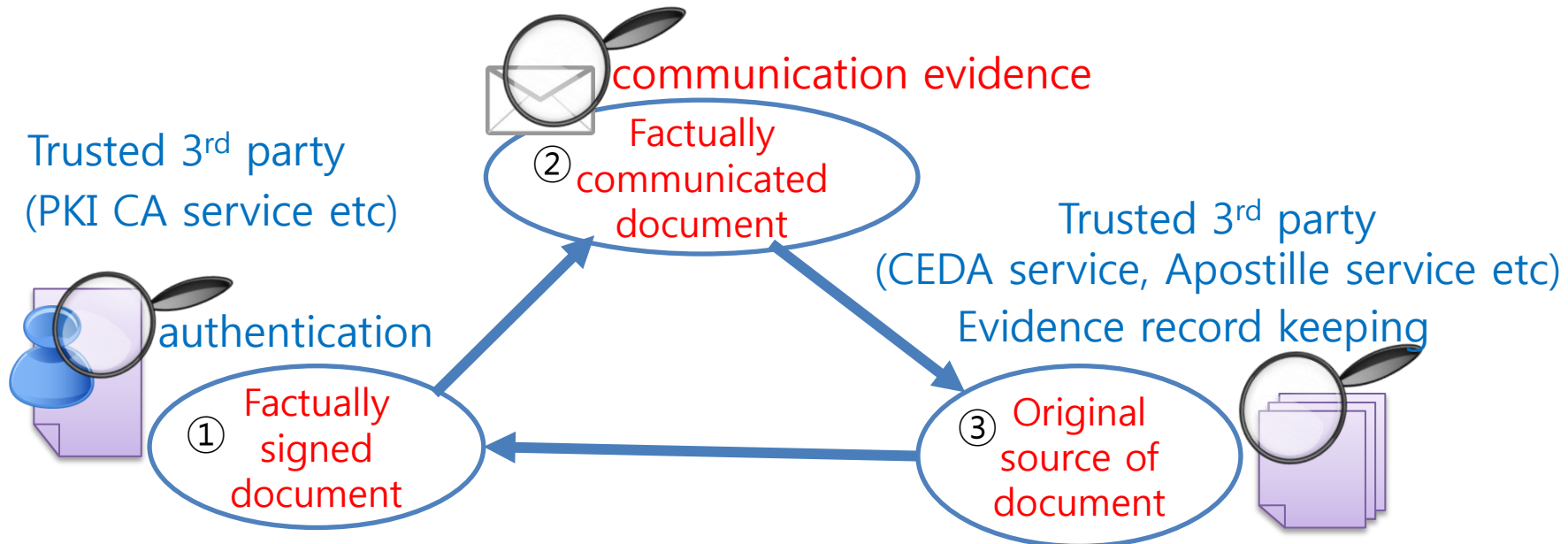


# A solution


## “trusted e-document infrastructure”

### “Prima facie document”

Trusted 3<sup>rd</sup> party  
(Notary service, Registered mail service etc)



# • Needs of Sharp



19626 **Trusted Communication Platform for Electronic Documents**  
(2013~)

**‘dematerialization’**  
“much **needs** (10~15% cost down)  
But, least developing cost!!,  
no new wheel !!!”



INTERNATIONAL MARITIME ORGANIZATION



WORLD CUSTOMS ORGANIZATION  
ORGANISATION MONDIALE DES DOUANES



IATA

**‘legal validity of electronic documents’**

United Nations Convention on the Use of **Electronic Communications in International Contracts** (2007)

**Electronic transferable records** (2015, ongoing)



UNCITRAL

# ◆ ISO 19626-1 Trusted Communication Platform for Electronic Document

## • History

- ('13.10) New project proposal accepted (32th Plenary, Berlin)
- ('14. 8) ISO/PWI 19626-1 project draft ver.1.0
  - Project leader :Jasmine Jaegyong Chang
- ('14.10) WG 6 (Trusted e-communication) (33th Plenary, Incheon)
- ('15. 3) ISO/PWI 19626-1 WG6 revision draft ver.2.0
- ('15. 5) ISO TC46/SC11(record management) joint work
  - 2 records experts was nominated for this joint work
- ('15. 7) ISO/PWI 19626-1 WG6 voting -- plan

# ◆ ISO TC1154 WG6 experts list

The list of experts for ISO/TC 154/WG 6 ↵

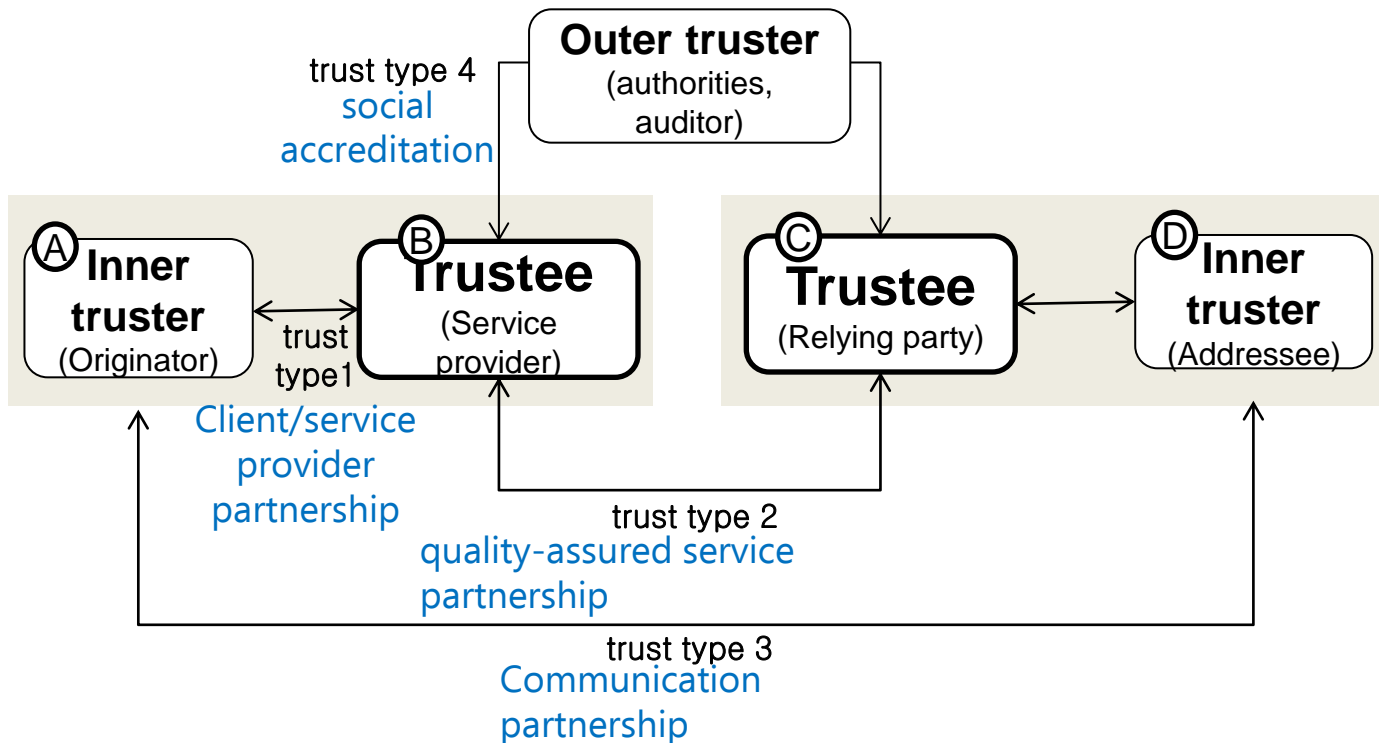
Name*↵	E-mail*↵	NSB or organization*↵	WG*↵	Role↵	Phone↵	Fax↵
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# ◆ ISO 19626-1 How to manage trust...

**Issue : A solution : Chain of trust**

1. Trusted communication model
2. Public and Private Partnership
3. Quality and risk management



# ◆ ISO 19626-1 How to dematerialize

Issue : **A solution : Proof and its validation about trusted communication**

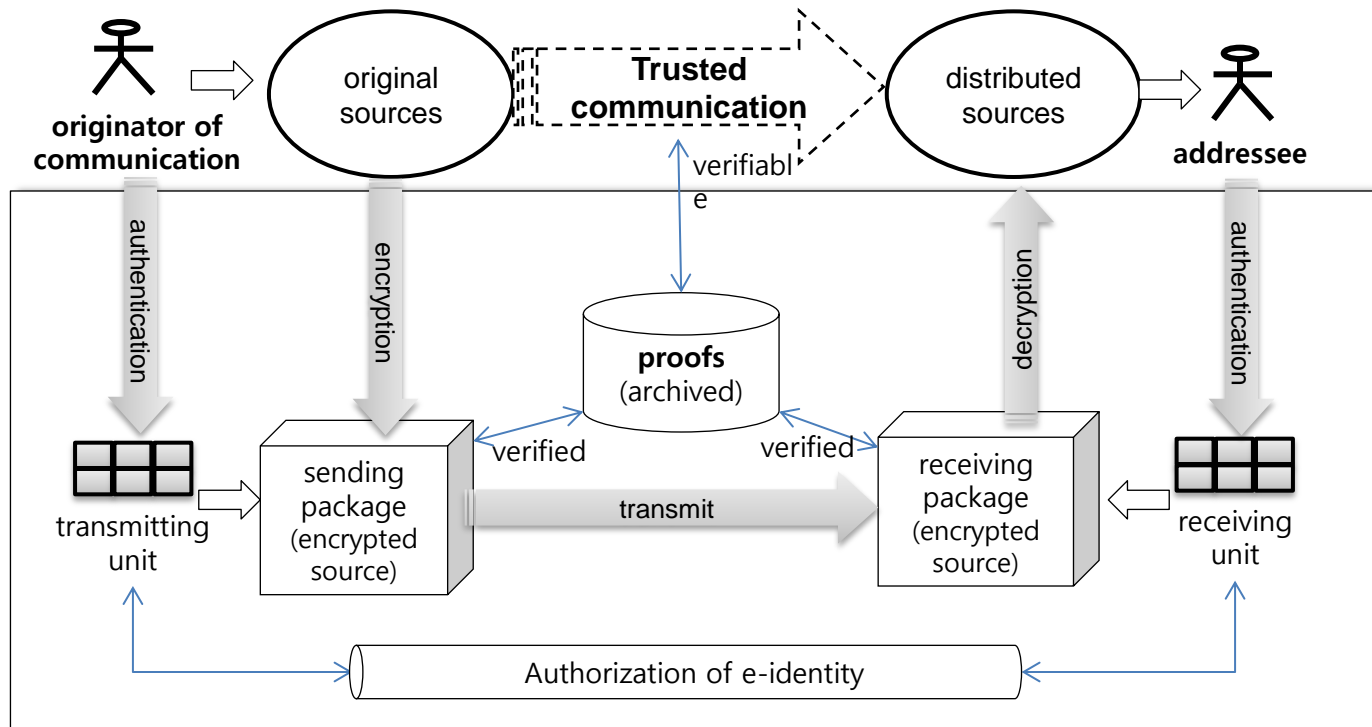


Figure 2 : TCP dematerialization mechanism

# ◆ ISO 19626-1 Proofs of trusted communication

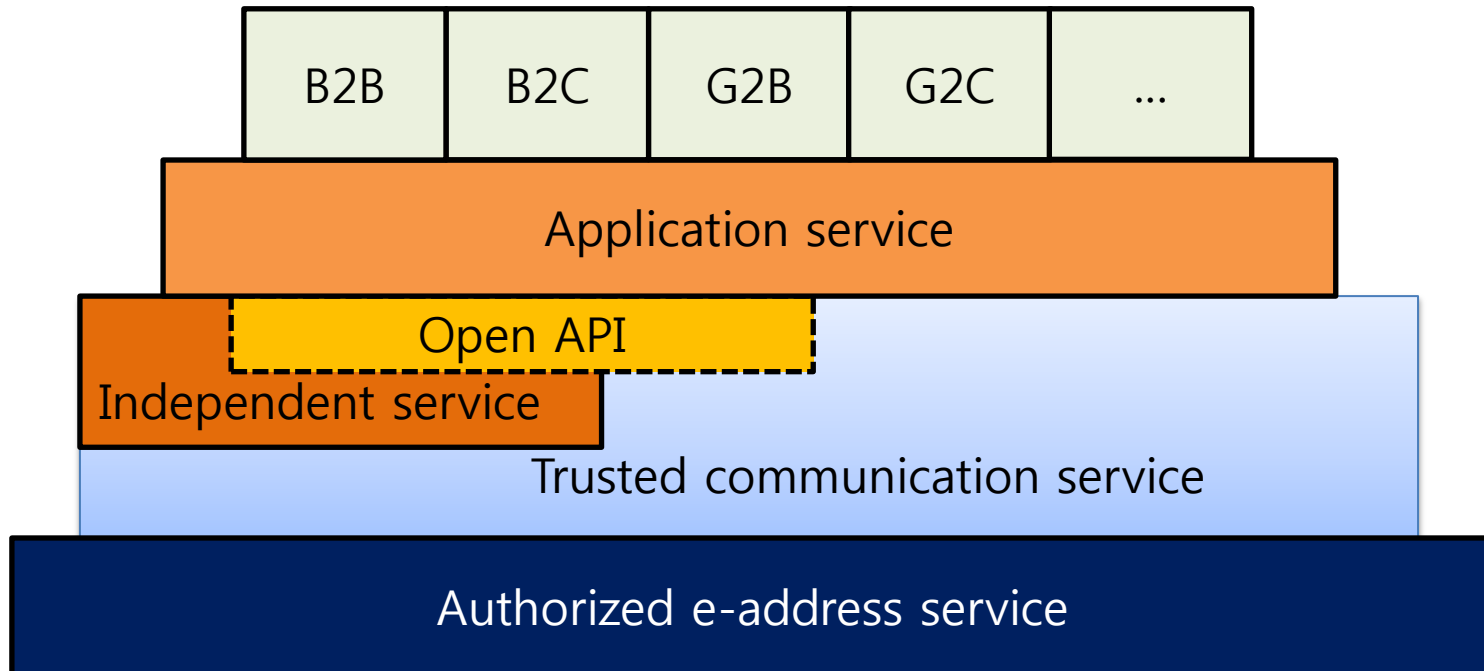
Issue : **A sample : Certificate of trusted communication**

Certificate of trusted communication <sup>Ⓢ</sup>		
Communication <sup>Ⓢ</sup>	eigenvalue <sup>Ⓢ</sup>	1234-5678-89-1234 <sup>Ⓢ</sup>
	type <sup>Ⓢ</sup>	transmission/ receiving/ perusal <sup>Ⓢ</sup>
Originator of communication <sup>Ⓢ</sup>	ID(address) <sup>Ⓢ</sup>	gildong.hongl#nipa.pe.kr <sup>Ⓢ</sup>
	extension <sup>Ⓢ</sup>	organization : nipa, org ID : 123-45-45678 <sup>Ⓢ</sup>
Addressee <sup>Ⓢ</sup>	ID(address) <sup>Ⓢ</sup>	yori.ko#kisa.or.kr <sup>Ⓢ</sup>
	extension <sup>Ⓢ</sup>	organization : kisa, org ID : 987-65-43210 <sup>Ⓢ</sup>
Communication date/time <sup>Ⓢ</sup>	transmitting time <sup>Ⓢ</sup>	2015.03.10 09:13 <sup>Ⓢ</sup>
	receiving time <sup>Ⓢ</sup>	2015.03.10 09:16 <sup>Ⓢ</sup>
	perusal time <sup>Ⓢ</sup>	2015.03.10 10:05 <sup>Ⓢ</sup>
Communication contents <sup>Ⓢ</sup>	content title <sup>Ⓢ</sup>	Hello <sup>Ⓢ</sup>
	Hash value (content) <sup>Ⓢ</sup>	<u>nOczepEXEhtZGtpIXvRUiMnFutw<sup>Ⓢ</sup></u>
	attached file name <sup>Ⓢ</sup>	TCP overview.ppt <sup>Ⓢ</sup>
	Hash value (attached file) <sup>Ⓢ</sup>	<u>MnvWxtuiPhtoQRvTuROMSoptwP<sup>Ⓢ</sup></u>
Issue date <sup>Ⓢ</sup>	<sup>Ⓢ</sup>	2015.05.05 <sup>Ⓢ</sup>
Issuer of certificate <sup>Ⓢ</sup>	<sup>Ⓢ</sup>	Trusted communication certificate committee <sup>Ⓢ</sup>

# ◆ ISO 19626-2 How to manage trust...

**Issue :** **A solution : trusted communication platform**

1. Portability
2. NIPA's TCP technical service component



ان شاء الله

Inshat'Allah

'God willing'