

EDI Taxonomy EDI

*, **, ***
 , LG-EDS , CALS & CIM , *,

Abstract

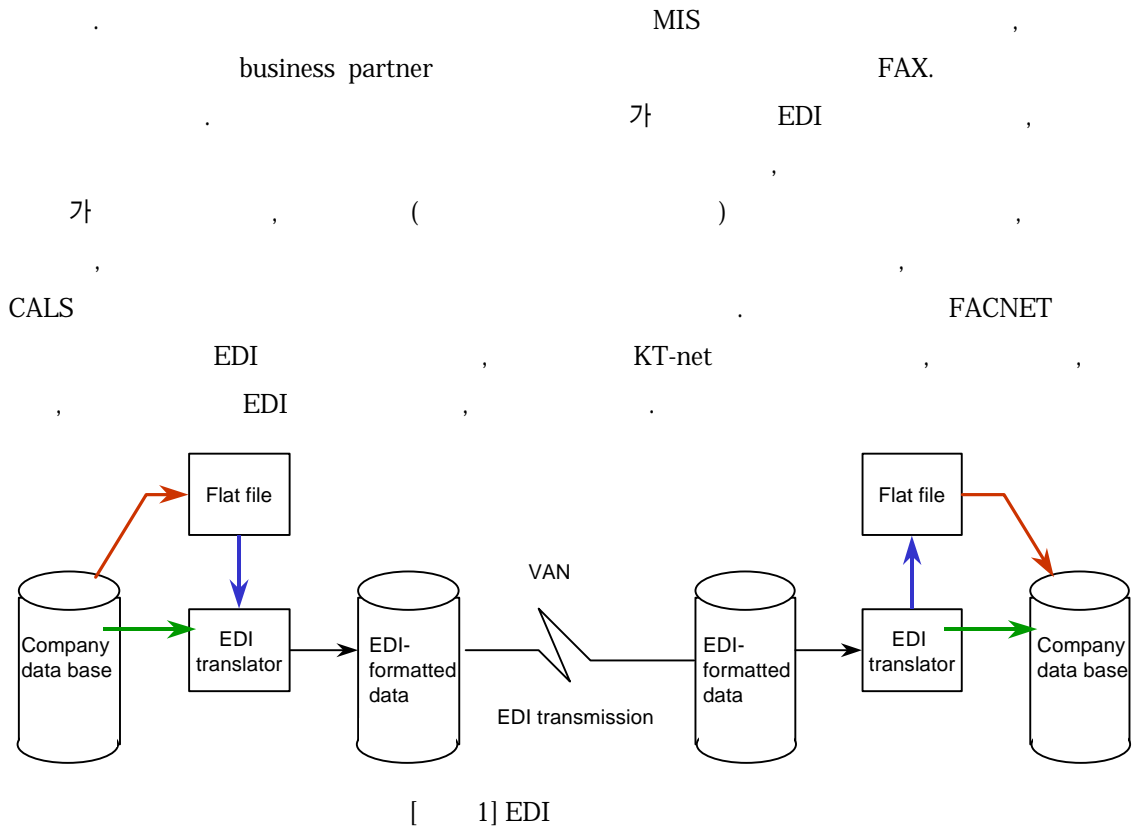
EDI(Electronic Data Interchange) has been used to automate the inter-organizational business transactions for a few decades. Originally it hired the OSI X.400 as its protocol and required separate private network, so called VAN. Nowadays Internet has expanded and been ubiquitous in the help of World Wide Web. At the same time, EDI has reached to adapt Internet technology for their network protocol. Therefore, today there are many technical forms to act EDI and each has suitable business trading environment. This paper deals with what EDI forms are suitable to what business trading environments. For this purpose, EDI technology has to be classified first, and the business situation should be examined. Proper choice of EDI technology to special business situation will help the competitive advantage in today's threatening business environment.

1.

EDI OSI X.400
 EDI(Traditional EDI) WEB, SMIME, FTP Internet EDI
 CALS (EC)
 EDI 가 ,
 EDI (bargaining power) (first mover advantage)
 가
 EDI
 가 EDI (Taxonomy)
 EDI , 가
 가

2. EDI(Electronic Data Interchange,)

EDI
 EDI FAX,



3. EDI

- OSI X.400 Traditional EDI

EDI 가 , EDI

EDI

Traditional EDI

VAN(Value Added Network) 가 , EDI

. VAN 가 , 가 VAN 가

. EDI UN/EDIFACT , 가

, 가 가

가

Traditional EDI 가

가

- S/MIME Internet EDI

EDI . MIME(Multipurpose Internet

Mail Extensions) , S/MIME(Secure MIME)

, EDI 가 가

, VAN

, COTS(Commercial Off the Shelf) S/W(Translator, Mapping S/W¹)가

- **S/FTP Internet EDI**

S/MIME Secure/FTP 가

Traditional EDI . S/MIME

<http://www.ecweb.com/>, *Electronic Commerce Systems*

- **Web EDI**

, EDI ,

SSL(Secure Socket Layer)

Web , Web browser ,

Web Server ,

가 가 ,

가 가 ,

Traditional EDI ,

Web

(potential trading partner) 가

- **Hybrid EDI(Web EDI + Traditional EDI)**

Web EDI Traditional EDI

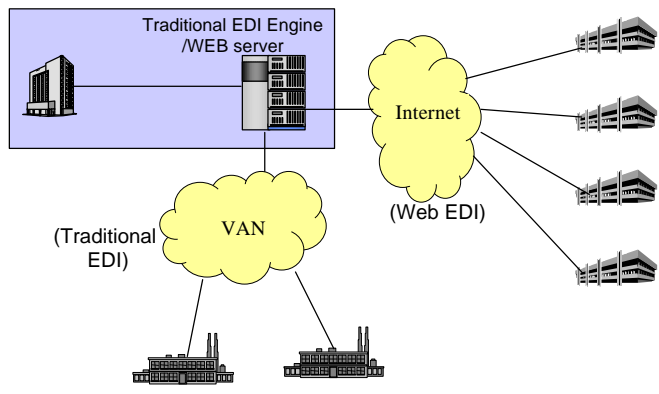
가 ,

Web EDI,

Traditional

EDI

(Web EDI)



[2] Hybrid EDI

Web EDI VAN()

Broker 가 . Broker Web

Broker (catalog) Web

Buyer(Supplier) , (buyer) ()

¹ EDI Mapping S/W Translator S/W 가 . [1] , DB

, DB Mapping , flat file EDI format

Translator .

가 .

4. Business Trading Situations

- Long term & Close relationships b/w trading partners vs. Short term or Ad hoc relationship

가

- Small firms vs. Medium or Large firms

, Traditional

EDI

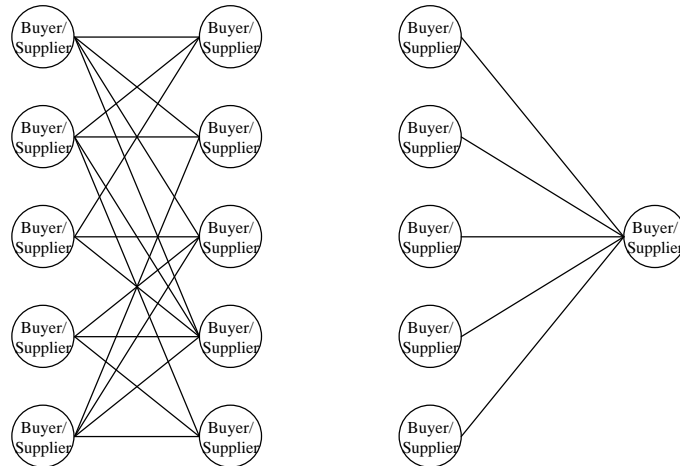
- Hub & Spoke vs. Evenly Distributed

Hub & Spoke

가

(bargaining power) hub 가

, Trading partner 가 Evenly Distributed



[3] Hub & Spoke vs. Evenly Distributed Business Situation

가

가

가

- Many partners vs. A Few partners

5. EDI Taxonomy EDI

3 4

EDI

Business Trading Situation

EDI Taxonomy

. Y

가 Short term or Ad

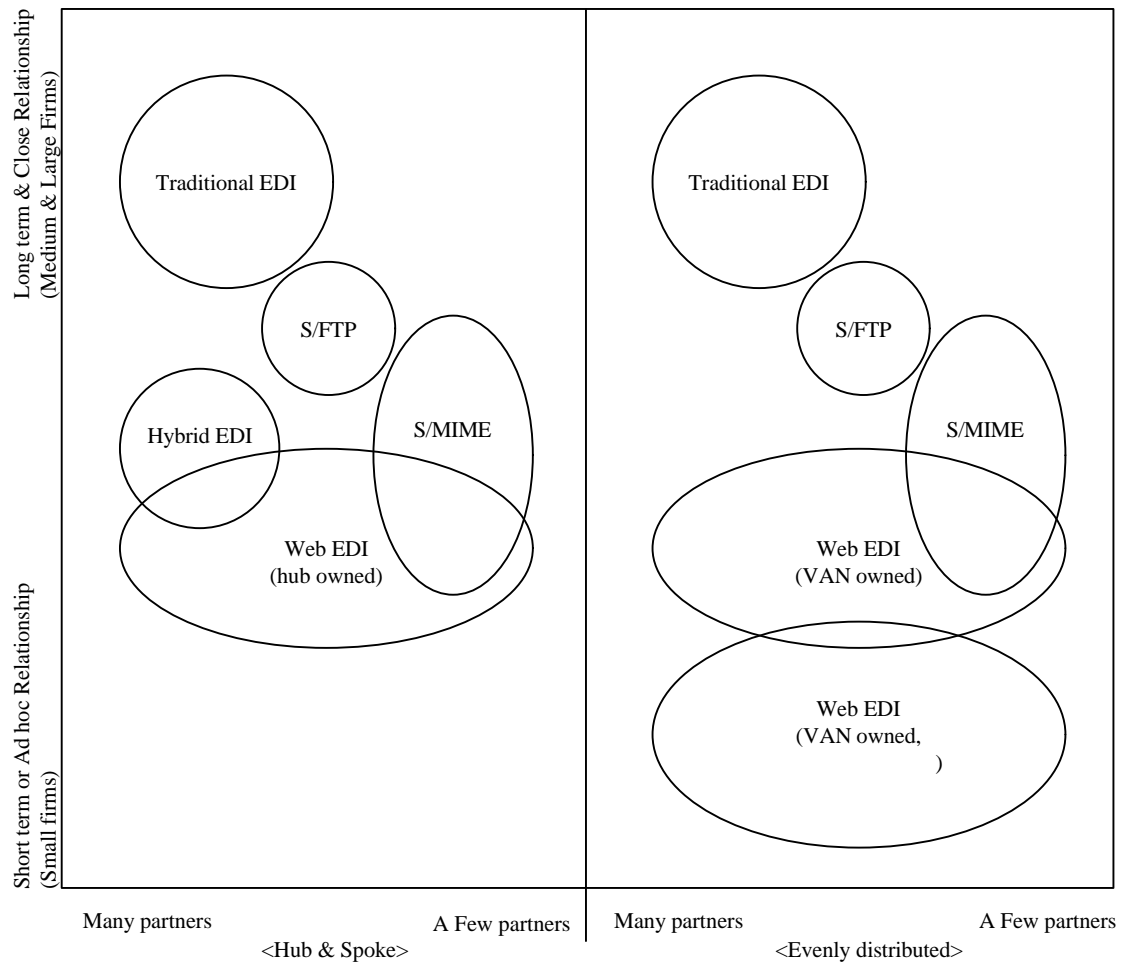
hoc Relationship

, Long term and Close Relationship

. X

<Hub & Spoke>

<Evenly distributed>



[4] EDI Taxonomy

, Traditional EDI
 , Size 가 , ()
 . Web-EDI(hub-owned) , <Hub & Spoke> , ()
) , () ,
 , Web EDI , ()
 , Web , ()
 . < > .

[1] EDI Taxonomy

EDI	Buz. Configuration	<hub&spoke> <evnly distd>	# of partners	Degree of relationship	Scale of Firm	Remarks
Traditional EDI		both	So Many (esp. traffic)	Long term & Very close	Large/medium	VAN needed

S/FTP	both	Many	Long term & close	Medium	VAN needed Less commercial yet
S/MIME	both	Medium	A little close	Medium or small	No VAN needed Less commercial yet
Web EDI(hub owned)	<hub & spoke>	One hub Many spoke	Short term or Ad hoc	Hub: large Spk: small	No VAN needed
Web EDI(VAN owned)	<evnly distd>	Many firms	Short term or Ad hoc	Generally small	VAN needed
Web EDI()	<evnly distd>	Many firms	Short term or Ad hoc	Medium and small	VAN needed
Hybrid EDI	<hub & spoke>	Many firms	both	Large/Medium/Small	Partially VAN needed

, Hybrid EDI , <hub & spoke> () ()
)
 Traditional EDI(VAN) ,
 Web EDI .

6.

EDI , EDI

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<http://www.ecweb.com/>, *Electronic Commerce Systems: “S/MINE vs. FTP: Which is better for Internet EDI?”*
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