-B2B

-B2B

2001 6

. 88

. ! 가

· 가

. 가

·
,
,
,

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가 ,

,

..... 3

2001. 7

1.1 2.5 가.9 1. 가. 2. 가.2026 3. 가.2730395358 1. 가.596164 가.6468

78	
87	•
B2B 94	
94	1.
96	2.
96	가.
immers100	
102	
104	3.
	가.
125	
400	
	1.
136	2.

1.		()
2.		
3.		
4.		21
5.		21
6.		23
7. Timmers	11가	41
8.		69,70
9.		71
10.		72
11.		78
12.		82
13. 4C		99
14. Timmers		102
15.	&	110
16.	&	111
17.		117
18.	&	121
19. Medigate		123
20.		()

1.	12	
2.	(%)13	
3.		
4.	16	
5.	7ト31	
6.	37	
7. e-	40	
8. Timmers	45	
9. e-	49	
10.	73	
11.		
12.		

4-5

가 . 1999 2001 가

100

,

,

·

. 3

1 2001 4 ,

. 1999 6 2001 4 B2B, B2C

, е-

가

43 , 51

. , B2B가 42

- V -

72%, B2C 2000 16 28% 60%가 2001 4 34 가 13 , 5 9, 11 , 13 , 50% 6 가 ASP 14 , 29 45% 4 C 2 Timmers, 4 C Contents 5, Community 7, Commerce 32, 가 Connectivity 10 가 Timmers 11가 3가 가 가 30 , 14, 15 가 가가 3 5

- vi -

low commitment

가 가 가 가 ee-

가

e-detailing 가 가

가 가 . 5 가

1, 2, 3

가

- vii -

•

1.

가 . 가 21 , , ,

가 .

, 가 . ,

,

가 가 · 가 가

가 가 가

가 . 가

.

,

2-3

· 가 가 가

가

가 .

가 .

가 가 . 가 ,

.

가 .

,

,

•

·

가

, 2-3 (, 2000) プト 1 ,

.

2000 5 100 プト 2000 9 3,416 プト (・

, 2000).

가

가 .

가 1, 2 ,

·

, 2000; , 2000; , 2000; , 1995; , 1998)

•

가 . , 가

가

.

- 4 -

가 가

가

2.

1999 (2001. 4) 2000 60%

- 5 -

, , B2B , ,

B2'B' 'B' , 가

B2C

, ,

.

B2B ,

•

(2001. 4)

·

.

3. 가.

, B2B, B2C .

, 1999 6

2001 4

2000 9 3,416 7\ 100 7\ 32

, 2001) 가 . 2001 2-3 1 43 51 1 B2B (2001. 4) 가 2 가

50%

- 8 -

B2B

가

· , 가

,

, , , , ,

, (Yin 1989) (case study)

. 가

- 9 -

, (Yin 1989). "

(Yin 1989). "

1.

1969 ARPANET

T CP/IP

1991 WWW (Word Wide Web) 1993

・
・
・
・
・
・
・

, 가 가

가

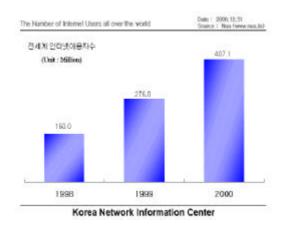
. 가

, 가

가.

2000

2000 12 Nua (http://www.nua.ie)
4 7 (1), eTForecasts(http://www.etforecasts.com) 3
7 5 .



1.

가 2000 1998 8 7 9 가 1 5 (eTForecasts, 2000) 9 1.9 가 2000 3 33%가 2 7 5 (:44.7%) 2000 12 1 9 4 가 2 , 6-7 .

.

Nua 가 , 1 가 26% (104 41% (167 9) 1 가 가 2005 27% (113) 0.8% (3), 0.6% (2 4% (16), (1)(4 2).

1. () 전세계 인터넷이용율

: Nua, 2000.12

7 ()
167
113

104.9 3 27.8 - 2.4 16 복마 마프리카 유럽 중동 마시아 라틴 아메리카

40.8

(%)

2.

•

기 2000 12 1999 가 가 가

(KRNIC, 2001).

2000 2000 400 가

,

[2001]

가 (KRNIC)

.

KRNIC가 2000 12

44.7%,

1,904 (3).

2000 8 3 6.2% 264 7 2000 3 2000 8 7

가 가 (KRNIC, 2001)(2).

가

그림 3. 인터넷 이용률 및 이용자 수 (x, 전체 가구원) 50 44.7 38.5 33.0 22.4 25 1,393만명 1:640 VE 18 943 만명 1,9041218 1999.10 2000,3 2000.B 2000.12

표 2. 인터넷 이용률 및 이용자 수

(*, 전체 가구원)

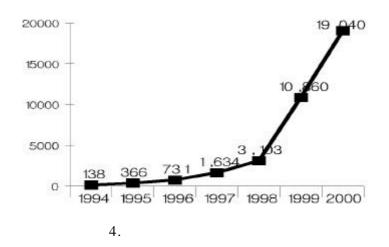
	1999, 10	2000. 3	2000, 8	2000,12	2000.8 대비 증가
이용률	22.4%	33, 0∞	38, 5%	44.7%	6,2×p
이용자 수	943반 병	1,393만 명	1,640반 명	1,904만 명	264반 병

가 1994 138 , 1995 366 , 1996 731 가 가 1998 가 1998 3,103 1999 1,086 , 2000 1,904 가 (3, 4).

3.

(: 1,000)

1994	1995	1996	1997	1998	1999	2000
138	366	731	1,634	3,103	10,860	19,040



50.9% 1,083 , 38.6% 821 가 PC 2000 12 71.0% 70.1% 가 가 (LAN) 가 59.5% 가 ADSL(35.4%), (25.3%) 가 (KIEP)가 ' 가 24.5% (49.2%), (31.7%) 3 가 가

•

(http://www.nielsen-netratings.com) 가 15 21 1 가 16 가 17 16 2 2 가 2000 51 7354 48 3700 가 (KRNIC, 2001). 가 1995 2. 가. EC(Electronic Commerce) 1989 1993 가 EC

20

7 WTO (borderless economy) (borderless competition)

가

,

가

```
( , 2000).
                                          B2B
                  31-33%,
            30-35%,
                                 28-31%
가
                                  1.5 가
(
           16%)가
                                              가
                                  가
                         0.2% - 0.4%
                   , 2001. 5).
             (
                    가
            가
  OECD(1997), European Commission(1997)
                                               1999
           [
                     ]
  7
                가
```

- 19 -

, 가

(Cyber Space) '(,

2000)

e- '

,

(, 2000).

,

,

•

2000 1999 9 1,940

2000 89.4% 7t 17 4,169 , 2001

30 2003 1 가 (, 2001)(4).

2000 1999 GDP 11%
1,050 ()

1999 0.979% 2000 1.671% 170% 가

939 1,050 110% 가

•

B2B (Business to Business)

46.9% 8 1,781 , B2C(Business to Customer) 3

186 (17.3%), B2G(Business to Government) 1.25

2 , 6 192 . 1999

B2C 2000

B2C B2B 가

(5).

4.

		2	001	2	002	2	003	20	04	20	05
 ()	29	3,414	48	5,602	78	7,306	123	9,655	187	6,856

5.

	1999	2000
(%)	0.979	1.671
()	9 1,949	17 4,167
B2B	4 7,104	8 1,782
B2C	2 1,731	3 187
B2G	1,507	2,030
	2 1,623	6 0,192

:

```
1999 1,580 2000 1,800 가
            7,596 2000
                             199.4% 가
        1999
 2
            , 2001 4
   2,745
            , 2001).
  (
             82.8%
   7.9%,
            3.9%
                              가 47.5%,
               가 52.5%
              1999
                               9 1,948
 가
                                 가
                  . 2000
                                     17
 4,166
            가
                     가
 1999
                     1999
가
가
                17.992%
       0.129% 0.508%
                           12 7000
              (3 8000), (3500),
  (2100 ), (1700 ) (6).
```

6.

(: %,)

		(%)		()
	1999	2000	1999	2000
	1,918	2,008	6,576,161	12,724,558
,가	0,003	0,000	842	0
	0,066	0,091	48,745	101,551
	0,518	1,875	2,120,660	3,835,934
	0,000	17,992	0	355,871
	0,504	0,447	278,403	211,173
	0,717	2,619	167,060	177,402
	0,000	0,000	0	0
	0,000	0,004	0	0
,	0,129	0,508	3,022	10,234
	0,979	1,671	9,194,893	17,416,723

:

가 B2B 353 'B2B

78.6%가 가

16.6%

4.8% 가 ,

(, 2001).

IT B2C B2B

가

. 가가

가

B2C

B2C CRM(Customer Relationship Management)

B2B SCM (Supply Chain

B2B

2-3

Management) '

. , 가

가

가

가 2003 가 1 (, 2001).

B2B フト フト 1 (40.1%) 6 (32.2%) フト B2B 72.3% ,

가 B2B (, 2001). (ERP EnterpriseResourcePlanning), (SCM) 가 B2C 2001 1/4 5,253 2000 4/4 362 가(7.4%) 가 2001 3 1,915 가(3.0%) 가 (, 2001). 2003 2 가 가가 0.2-0.4% 가 가 18) 25 6 50 가

- 25 -

가가 가 21 가 . 3.

, CSN . 2000 B2B가

2003

87% B2B 가 e- 가

.

,

가 .

가 .

가 가 가

가 가 .

2000 70

· 가

, , 가

,

.

가

.

가.

가

,

,

· 가

. Timmers

(1) ,

(2) 가 (3) 가

(Timmers, 1998).

,

 가
 가
 가
 가
 가
 가
 가
 가
 가
 가
 가
 가
 가
 가

가 .

, , 가 .

가 .

,

,

		B2B	,			C2C
(2)	(source of revenue)					, ,
(3)	, (1 to n)		(n to n)		1	1(1 to 1), 1
(4)	(1 to n),		(n to n)		, ,	
(5)		가				
1998						
	가					
	, 가				가	
	,		98 99 4	116 63	1999 가	1,200
25%	가			(, 2000).

(1)

B2C

•

가 .

,

· 가 ,

가 ,

(Mahadevan, 2000),
フト Mahadevan .

가 , , (

) 가 .

1) 가

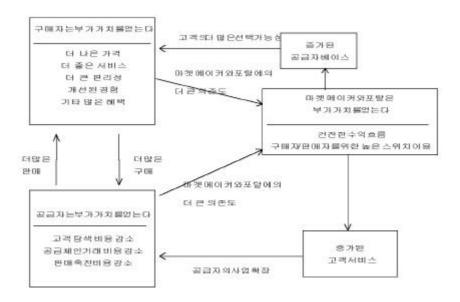
가 , 가 .

가

. , ,

가 .

B2B フト (5).



: Business Models for internet-based E-commerce:An Anatomy,B.Mahadevan, 2000

5. 가

,

가 .

가 .

가 가 .

가 ,

·

가

가 가 가 .

가 .

. 가

가 가 .

. .

3 가 . 가 가

가 가

•

가 가 .

가

가 가 가 가 가 가 가 .

가

가

가 가 가 .

가

2) 가

가 .

. 가 .

가 . 가 .

amazon.com .

가 가 가 .

가 .

가

1 가 가

, AOL, CommerceOne, Agriculture

Online B2C, B2B

.

가 가

. 0 가 . 가 가 가

가 .

. 가

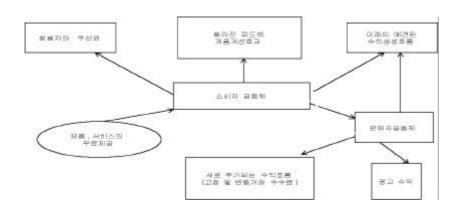
Hotmail Netscape

가 . Hotmail

e

Netscape Linux

(6).



: Business Models for internet-based E-commerce:An Anatomy, B.Mahadevan, 2000

6.

3)

. 가 3

가 .

Infomediary Metamediary

, , ,

가가

· . 가 가, .

Del computers Cisco

·

(infomediation)

가 ,

.

가 가

(meta mediation)

가 . B2B

. 가가 .

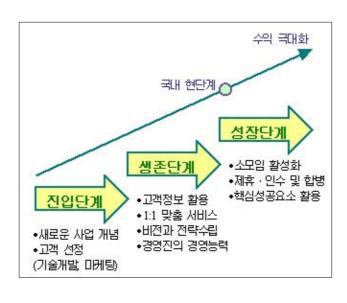
•

e-

- -

가 가 (, , 2001)(7).

7. e-



: , 2000. 1.3

가

,

가 . Timmers

Rappa가 .

1) Timmers

Timmers

가 ,

, 가

가 ,

가 .

Timmers 117 (7).

7. Timmers 11가

	B2C	B2B
(e-shop)	0	
(e-procurement)		0
(e-auction)	0	0
(e-mall)	0	
3 (3rd party marketplace)		0
가 (Virtual communities)		0
가 (Value chain intergrator)		0
가 가 (Value chain service provider)		0
(Collaboration platforms)		0
(Information brokers)	0	0
(Trust providers)		0

: EC , , 2000

E-shop(가 가 가 , B2C E-procurement () CALS EDI 가, 가 가 B2B E - auction (가 가 가 . 가 가

- 42 -

E-mall() e-shop 가 e-shop 3rd party marketplace (3) 가 가 가 . 가 , 가 가 Virtual communities (가 가 가 가 가

- 43 -

Value chain service provider(가 가 Value chain integrators (가 가 Collaboration platforms (Information brokerage (, 가 , Yahoo DB DB , DB , DB Trust and other services (

- 44 -

2) Timmers

Timmers (the degree of innovation)

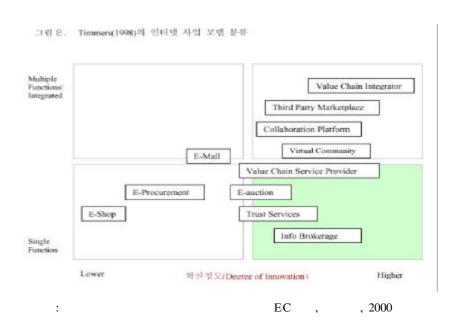
(the extegration of functions) 가

가 .

가 가 IT

가 가 .

フト (, 2000)(8).



3) Rappa 9가

M. Rappa(1999) 9가

가 .

(Brokerage Model)

. B2B, B2C, C2C

,

(Advertising Model)

e-mail ,

, 가 .

가

가

Gate way 가 .

(Informediary Model)

. , 가

.

.

(Merchant Model)

가 가 ,

brick and mortar 가 .

(Manufacturer Model)

가

. 가 ,

가 ,

가 .

(Affiliate Model)

가

, purchase point click through

. 가

가 .

(Community Model)

. B2C B2B .

가 / (Subscription Model)

가 가

가 가가 .

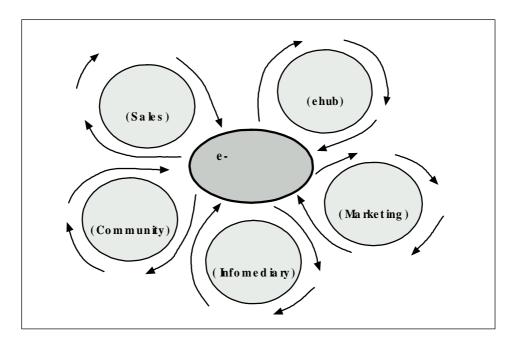
(Utility Model)

가 .

4) 3C(Contents, Community, Commerce)

3C(contents, community, commerce)

(9).



: e-Business System, , 2001. 3

9. e-

, ()

/ , ,

,

.

Contents			
	B2	2C	customer
			, contents
Community .	·		
Community			
	Conte	ents	Community
, C	ommerce		
Contents Community			
가 , Community	가	(Critical	Mass)
,	Commerce(,)
가 .			
가			
		가	
Connectivity		ASP	(ApplicationService
Providers)	,		
	가		

5) B2B 가 .

, 가 click and mortar B2C

가 B2B .

B2B B2C ERP, SCM CRM IT

B2B .

가 .

가 가

3 가

가

가 .

1998 29 2002 500 7[†] .

가 (e-bay. Auction),

. 가

가 .

(B 2B)

가 , B2G, B2B, B2C, C2C, P2P(Person to person)

가

,

가 .

B2B , B2B ,

B2B B2B SCM가 EDI N:N e-B2B e-가 40% e-가 , 2001). (가 가 가 (First Mover's Advantage) 가

- 53 -

1-2

1

•

가 , ,

· 5가 (· , 2000)

,

. e- , ,

.

- 54 -

가 , 가

가 가 . 가 가가 ,

가

가 .

. 가

,

(Customer Satisfaction) (Customer Centric)

가

가 가 .

1 1

가 .

·가 ·

,

.

- 57 -

1.

가 IT 가 가

, , ,

가 .

1 가 가

,

,

가

B2B

,

가.

.

.

•

가 .

가 가 ,

,

•

. , ,

1가 1 가 . , ,

,

.

B2B e-B2B((First Mover's Advantage) B2C 가 (, 2000). 가

- 60 -

, 1999)

(57.9%), 가 $(20.8\%), \qquad (15.9\%)$ 가 3 (22.3%), $(18.5\%), \qquad (15.9\%)$

가 가 가

가

가

가 .

- 61 -

가 가 가 4C (Content) 가 가 (Community) (Commerce) (Care) , 2000). 가

- 62 -

가가

·

,

. OECD

가 가

. 1999 19.3%

62.7%

(· , 1999).

30 フト

·

기 2000 12 30 30

43.6%, 40 22.7%, 50 5.7%가

2000 8 30 7t 23.1%, 40 7t 22.7%, 50 7t 32.5%7t

가 30

30

·

가 가

•

2. 가.

1)

9%

2.5% 2%

가 .

가 가 가

가 가 .

4 5 가 가

(B2B)

SDS 2001. 6 가

가

250 60

2,088

2001 7 2 1

- 65 -

2)

7;
COCS
Order Communication System), (EMR Electronic Medical System),
(PACS PictureArchiving & CommunicationSystem),

(LIMS) ASP

•

.

, 가 .

3)

7\ 9% 3,571

.

e-

가 .

가 . , , , , ,

Xchangecamp, SK , , , ,

가 .

B2C

200%

,

1).

가

가

가

1999 6

2001 4 , e-

2000 9 3,416 100 가 가 32

, 2001)

2001 1 2-3

, 43 51 (8).

(8).

- 68 -

8.

2001 4 20

			2001 4	20
	e-biz			U R L
	B2B		. 1999.12	www.kpline.com
	B2B		2000. 4	www.pharmsnet.com
	B2B		2000. 2	www.drugN.com
	B2B		1999. 7	www.ipharm.co.kr
	B2C			www.carecamp.com
Xchangecamp	B2B		2000. 4	www.xchangecamp.com
e-	B2B			www.e-medical.c0.kr
	B2B	.OCS.PACS	1983. 8	www.bit.co.kr
	B2B		2000. 2	www.carebest.com
	B2B		2000. 5	www.emedicals.co.kr
	B2B	EMR OCS	1994.12	www.medidas.co.kr
	B2C		1998. 6	www.healthkorea.net
	B2c		2000. 7	www.caremall.co.kr
	B2B		2000. 7	
	B2B		2000. 2	www.medion.co.kr
	B2B	ocs	1999. 1	www.medvan.com
	B2B	EMR OCS CA	1999.11	www.medbank.com
	B2B	EMR OCS	1999.11	www.medicalexpress.co.l
	B2B	OCS.	2000. 9	www.rxcare.co.kr
	B2B		2000. 1	www.mdilinx.com
	B2B		1999.12	www.mdhouse.com
	B2B		1992. 1	www.onuri.co.kr
	B2B		1993.1	www.medicamp.com
	B2B	OCS	2000. 1	www.pharmvan.com
	B2B		. 2000.3	www.neovortal.com
	B2B		2001. 2	www.bizpharm.com
114	B2B		1998.12	www.medi114.co.kr
	B2B		2000. 5	www.ahyah.com
	B2B		2001. 4	www.kopams.com
	B2C		1993. 1	www.medisay.com
	B2B		2000. 4	www.meditos.co.kr
	B2B		2000. 7	www.medi4you.com
	B2B		2000. 9	www.ezhospital.com
	B2B		2000. 5	www.opendoctors.net
	B2B		2000	www.pednet.co.kr
	B2C		2000	www.lovenkid.com
	B2C		1999. 1	www.m2comm.co.kr
HNF() B2B		2000. 8	www.hnf.co.kr
,	B2B	MDLIS	1999. 9	www.mdsaver.net
	B2B		1999. 8	www.mdbank.co.kr

	B2B 1000	1000 /	www modeban as kr			
	B2C		가		1999. 4	www.medshop.co.kr
	B2B				1999.12	www-viewmedi.co.kr
	B2B				1000 1	www.mtongil.com
	B2B				1992. 1	www.tong-il.co.kr
	B2B				2000. 6	www.medismall.com
	B2C		가		2000. 6	
	B2B				2001. 2	www.e-kdm.com
	B2C				2001. 2	www.e-kaiii.coiii
	B2B				2000. 7	www.herbncare.com
	B2C				2000. 1	www.neiblicale.com
	B2B					www.atmedica.co.kr
	B2C	•				
	B2C				1999.4	beta.medigate.net
	B2B				1998. 4	www.kimsonline.co.kr
	B2C				2000. 4	www.healthtoday.co.kr
	B2C				_	www.healthok.com
365Homecre	B2C				2000. 7	www.365homecare.com
Hospitalpage	B2C				2000. 3	www.hospitalpage.co.kr

www.dreamdrug.com
www.dailymedi.com
www.etimesi.com
(*

9.

	e
()	Xchangecamp.e
(OCS.EMR.PACS)	
(.)	
	()HNF() ()
	114.
	HNF
	- - -
e-biz B2C	
B2B	365 .HospitalpageXchangecampe
	. , ,

2)

. () ,

, e-Biz , , (9).

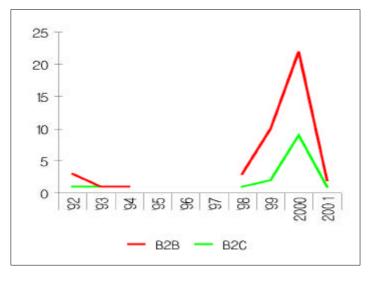
(1)

() 2000 34 , 60% 2000 31 54% (10).

가 (10).

10. (2001. 4)

2000 2001 '92 '93 '94 '99 '95 '96 '97 '98 B 2B 3 1 1 3 10 22 2 B2C 1



10.

(2)

,

가

IT () SCM, (Buying power) e- 가 ,

, SK,

가 () 가 가 가 가 가 . Xchangecamp, e- , , 1 5000 1 7.43 , 12.9

- 74 -

OCS, EMR, PACS, LIMS (OCS) 가 EDI, ASP, IC 4가 가 가 EDI B2C가 B2B B2C , 365 , Hospitalpage 가 , HNF, 가 .

- 75 -

(3) e-Biz B2C B2B B2B B2B 9 **(4)** 가 가 (9). (5) Contents 114, Xchangcamp, e-

- 76 -

, HNF,

, Hospitalpage , 365 (6) On-Off line 가 . -Xchangecamp, e-, 365 **(7)**) (**(8)** 가

- 77 -

-

(9).

•

1) 43 51

25% 13 ,

25% 13 , 21% 11

. 17% 9 6% 6 (11).

11.

() 13(25) 13(25) 11(21) 9(17) 6(12) 52(100)

e- B2B가 42 72% B2C 16 28%

. B2C B2B 7 .

2) (1) 가 가 SCM . SCM EDI POS (point of sales) 가 가 가 , 8 가 가 가 IT 가 100%

, SDS

- 79 -

. 가 가

· 가

· 가

- 80 -

, , M&A 가 .

(2)

. 가 가

가 ,

- 81 -

63 가 4 가 B2B 가 (12). 12. , 170 , 2000 가 2000 20 1 5,000 e-(MDvan) B2B 21 B2B 25 30 2000 10% 7

- 82 -

, SK

8200

e

4000

()

e-가 가

.

(3)

. 250 350 .

가 .

가 .

가 가 OCS 가 가 .

1990
1983
16
. OCS, HIS, PACS 7
200
EDI
ASP
7
7
7
7
PDIS,

2

•

ASP ,

ASP

.

SDS, SDS **(4)** 가 B2C . B2C B2B 가 B2C 43 51 B2C 16 28%, B2B 42 72% 가 B2C B2C (, 2000). 가 B2B B2C

. 2

. ,

•

, B2B, B2C

, 20

B2C, 365

.

가 , ,

가

OK SK 가 B2C 가

24 가 ,

•

1) -

B2B 가 e-, 가

가

가 .

가

가 가 .

가 - .

-

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가 , ,

· , 가

. 가

(www.drugn.com)

All-line(On/Off-line)

Off-line 가 On-line

Web-EDI

IT 가 .

SCM ,

가 e-hospital korea

가 e-hospital korea 40 2) M&A,

SDS

가

가

- 90 -

가 . 13

, SK , 가 ,

,

, , , , ,

.

3) ASP

ASP

(outsourcing-based business model) .

가

ASP가 , SCM

, 가

. 가

가

B2B ASP 가

・ ASP 가 .

ASP / .

ASP .

ASP

4)

가 ,

.

,

,

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- 93 -

. B2B

1.

(profitability)

IT 가 (growth

potential) 가 .

가

. 가 가

•

,

가

가 2000 17 4,167

2001 2 (, 2001)

1999 0.979% 2000 1.671% 170% 7[†] .

- 94 -

) e 가 가 가 가 e-가 가 가 가

2,100

가

- 95 -

7.9%, 3.9%, 5.4% (, 2001). 가 . 2. 가. 4C Internet (e-Biz) 4C(Contents, Community, Commerce, Connectivity) (13). 1) Contents B2C B2B(Biz Unit Mdhouse contents biz , ezhospital B2C

82.8%,

2000

contentsMarketing off-line e-2) Community Medigate가 . Medigate 4 Marketing 가 community I love school 2000 3 hit 가 biz 가 (BM) .

customer

가 , HNF, , be.MD 3) Commerce marketplace SCMCarebest가 . Pharms netMarketplace 2 Margin 가 가 가 20-30%가 가 off-line Carebest SCM communication 가 가 , e-B2B , B2C

B2C

- 98 -

biz			, ,	
, Hospitalpa	ge, 365homecare,	,	,	
4) Connectiv	ity	Healthcare	(,	,
)				가
Program	connectivity	,		
		,	OCS pro	gram
Progr	am	,		
		ASP()
Prog	gram	,	AS	SP
	가 .		,	,
,	,	,	,	114,
가				
	13. 4C			
Contents	PharmacyOK.			
Community		Hì	NF t	oe.MD
	· · · · ·	.e		
Commerce		ospitalpag. 365home	care.	
Connectivity		I		

. Timmers

		Timmers (1998)	11가
,			
			(14).
e-shop: B2C	,		e-shop
		,	
e- Procurement :			
c- i rocurement .			. B2G
B2B	, major		. 520
e-biz			,
,			
e- auction :	B2C		,
			Xchangecamp가
e- mall:	e-shop	,	e-shop
e-mall	가	,	,
, , ,	,		

- 100 -

3rd party marketplace : Pharmsnet,	,
B2B	
Virtual Community : Community	
	, , ,
be.MD가 .	
Value Chain service Provider :	,
Program	, ,
,	
Value Chain Integrators : 가	
Carebest, ,	, Xchangecamp가 .
Collaboration platforms:	
	, HNF,
·	
Information Brokerage : 가	
·	
Trust and other Service:	

- 101 -

14. Timmers

	.Hospitalpage		
	Xchangecamp.e-		
Xchangecamp			
omecare.			
Pharmsnet.	.Xchangecamp		
	beMD		
	Xchangecamp		
.HNF.			
	Xchangecamp omecare. . Pharmsnet.		

.

4C Timmers

. 4C

Contents 5 , Community 7 , Commerce 32 , Connectivity
10 Timmers 11가 37ト
7ト 14 , 7ト 30 ,
15 7ト .

가 . Timmers 가 (value chain integrator, 3rd party marketplace) 가 (e-mall, value chain service provider, virtual community) 50% 4C . 3 가 ASP 가 가 가 SCM

가

. () ,

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- , . .

, 가

가 가

3.

가.

1)

EDI, B2B On-line Business

OCS EMR, EDI 가

.

EDI , EMR 가 가 EDI 가 SDS, OCS, PACS, EMR S/W가 가 20 $_{S}/\,w$ s/w 2) **(1)** CSN, low commitment

- 105 -

, , , , B2B

3 49.2% 가 2002

543 , 54.9%

가 2002 450 (, 2000).

(B2B)

가 .

, ,

. B2B

.

B2B

가 .

•

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가 B2B

,

- 106 -

. EDI SK

7

 B2B
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 ・

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 カ
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Medi-CALS

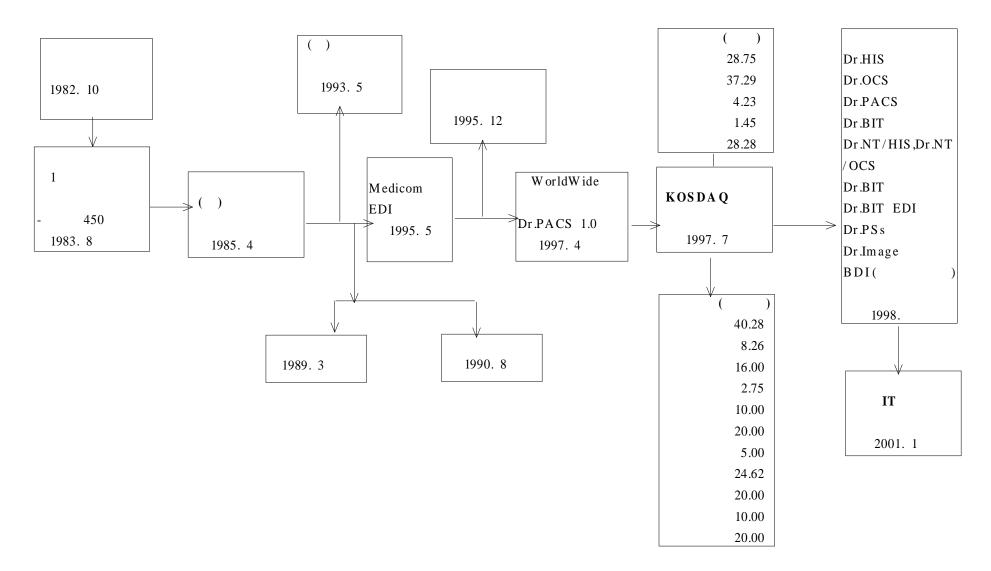
EMR

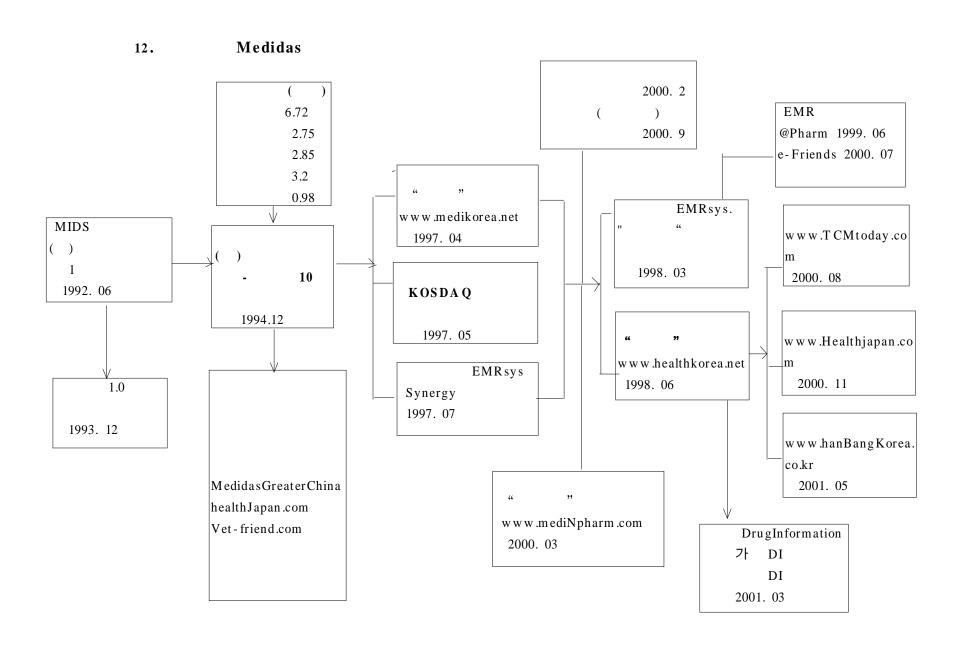
.

가 .

, . . (11, 12)

(15).





15. &

	(•)				
	Sk (•), Zuelling	g(),	B2B(
	(),	(),MS(
	(),	(),	(•	
	HealthDirector	y.com Vetf	riends.com()		
	Medison Hold	ing Japan()				
	Wai Kee Hold	ings, LG	()			
	,		,	,	,	(
	()					
•	SK ,	,	TV,		()	
ASP	,	()				
(off-line)	e-hospital kor	ea()				
	()					
	()					

(2)

(MIS), , IT ,
(SI) . 2000 6

SI ASP ,
ASP

가 . ASP

SI S/W

. OCS PACS .

1999 160 MIS SI .

3 49.2% 가 543

```
28%
                               'e-medicals'
                  가
                         EMR, Medi-CALS, CyberHospital
                                                            SI
merchandising
                            64%가
                                       가 EMR
  1999
                 121
    3
               54.9%
                         가
                                2002
                                          450
                       2002
                                         50%
B2B, B2C
                                      Medi-CALS Hospital
         3
                가
                                        , 2000. 8)
                                  (
                                                 ( 16).
           16.
                       &
                  MIS
                             ASP
                  IT Education Center
                  e-medicals
                                             (3-5%).
                  EMR(
                             @pharm)
                                                B2B
                  Medi-CALS
                                             (3-5%)
                  CyberHospital
                                        B2C
                          (SI)
```

- 111 -

(: , 2000. 8.17)

(3) B2B

: e- medicals

, ,IT

,

B2B

,

2002 28%

'e-medicals'

, ,

, , ,

BDI 100

300

B2B , SK

가 , 3-5% . B2B

: Medi-CALS, Cyber Hospital

B2B

low commitment

	EMR
	. B2B
Medi-CALS	2002
36%	가
•	(www.medikorea.net)
(www.healthkorea.net)	
	, 가
Cyber Hospital 가	가 ,
B2C	가
	•
2002 50%	(Medi-CALS Cyberhospital)
2002 3070	3 445%, 106% (2002
260 460 71	3 445%, 100% (2002
36% 16%) 가	
,	
	EMR
Medi-CALS	
EMR	. EDI
	3-5%
	B2B

. 가 .

Cyber Hospital , , Health Mall B2C

•

, B2C .

(www.mediNpharm.com)

, 가

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@ , . 5

, B2B

B2B .

B2B

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1)

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B2B 가 , 2 .

B2B

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,

B2B B2B

가 가

가 가 . B2B 'B'

가 .

가 100%

EDI 90% .

, 2000 8000 , 5000 ,

90% . 가

ADSL

4000 , 6000 , 70 - 80%

70 - 80%

100% 가

,

B2B B2B, B2C

가 , needs ,

2) B2B ()

2 B2B

,

가

가 .

가 ,

•

가 가 20-30% 가 가

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(1)

17 2000 .

17.

20	2000 4 26		2000 2 8 (2000. 6.15)	
• 1	1997 2	- VT	• 2000 2 · (2001. SK 51%) • 2000 4	.SK.
• 2	2000 4	•	• 2000 5	emedicals
	2000 7 2000 8	. () T OP 10	○ 2000 6 ○ 2000 10	
• 2	2001 1		• 2001 3 '	(SK)
			• 2001 4	

(2)

가가 가

가

SCM

가

N:N 가

가 가 e-

e -

가 e-

SCM

e-

가

3% 가

5%

가 가 가 (3) 가 ee-가 가 가 (User) 가 Win-Win가 가 PM2000 640 가 Web EDI 가 User SCM

- 119 -

가 Buying Power가 가 가 SCM EC 가 **(4)** (e-) 22 가 27 **(5)** 가 (: 1829 - 2001) 가 가

- 120 -

(6) 8 **(7)** 가가 2001 2002 18). 18. & 2000. 4.26 2000. 2. 8(2000. 6) SK. 가 e-commerce(SCM).B2Be-marketplace.B2B 5-8% 3-3.5%, 가 가 (emedicals)

(1829 : 2001. 4.)

•

Community . . 가

기 . 가

가 가 .

Medigate Community

1999 4 . Site Ranking 78 , /
Market Share 1 .

1) : 41,831 (2001 2 15) 35,466 . 6,105 60,000

59% . / /

, 20 -40 . フト

,

2) contents, community, communication

가 35 , CUG 840

19).

19. Medigate

Meditimes : MGclipping,Medigate ,Impulse Academic: Medical search, USMLE, Guide, , Academic contentsSocioEconomic: Legal information &cinsulting, $Cultural \ :$ Ibord,RadioDoctor(

Webmail, ,Messenger,E-card, communication

Bord : Freeboard Muzzima Salon OpenBoardAcademic Jumi2Doc Doc2Doc

community CUG(Closed User Groups) Medigate

Clubs:

- 123 -

20 -40
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7;
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,
Kmaweb, Mdhouse, Be.md, Medipark

3)

가 , ,

positioning .

,

가

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4)

e-detailing 22-44 /

e-detailing .

annual plan

7;
2000 (2000)
10-20% 10%
22-44 / 7;
e-detailing solution
, journal article review,
, Q&A
, Sample , PMS , ()Medion ,
, 1 1 information category

2 7;
5 ,

가

가

가

1)

가 3가 (Mahadevan, 2000). 가 가 가' 가 ()가) (가 가 , 1 가) 가

- 126 -

가 가 가 가 B2C 가 B2B 가 가가 가 . B2B MRO 가

가

- 127 -

5

(20).

20. ()

<가 Value Streams> (virtual communities) 0 0 0 <u>o</u> <u>o</u> <u>o</u> <u>o</u> <u>o</u> <u>가 가</u> 0 0 0 <u>o</u> Revenue Streams> <u>o</u> <u>o</u> 0 <u>o</u> 0 <u>o</u> <u>o</u> <u>o</u> <u>o</u> <u>가</u> 0 0 0 <u>o</u> <u>o</u> <u>o</u> Logical Streams> <u>o</u> <u>o</u> <u>O</u> 0

2)

가 가

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5 가

· 가 ' '

, , 가 , .

ASP

B2B low commitment

. 가

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e-marketplace

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가 가가

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5 가 ' '가 가 ' '

, 4

가 , 가

' ' ' '가

. 4 ' ' 가 ' '

B2B .

가 가 가 .

가

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1. 1997 VT

. 4-5

가

1999

2000 , 2001 가 100

, , ,

.

가

. 3

1999 6 2001 4 B2B, B2C e-가 , 51 43 B2B, B2C B2B 72%, 42 2000 B2C 16 28% 2001 4 60%가 2000 31 34 54% 5 25%, 13 11 21%, 13 25%, 17%, 6 12% 8 19%, 6 14%, 67% 29 45% 가 가 (50%)

2001 4

1

- 133 -

ASP

2 1 4 C

Timmers

, Contents 5 , Community

7 , Commerce 32 , Connectivity

10 가 11가 3가 가

, Timmers 가 14 ,

가 30 , 15

가가

가 5 3 1,2

low commitment

- 134 -

가 .

·

- 135 -

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, ASP

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, , 가 .

2.

, 가

. 2,000 가

· 가 , 가 ,

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가

가 가 .

100

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가 .

5 가 가 , 가 , 가

가 가 가 .

가 가 .

가 .

5 가 ,

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, 2000 , 2000 , 2000 B2C , 1995 e-Business, , 2000 , 2000 . e-Business Systems, , 2001 . 가 1998:361-365 , 2000 , 2000

EC

- 139 -

2000. 5

•	(Potal	Sites)		- 가
	가	-,		
,	2000.			
•			,	,
2000				
1999			,	,
1999				
			-	
		-,		,
1999				
		•	2000;2(1):101-113	
		, 16		
		, 10		
, 2000		, 10		
, 2000		, 10		
, 2000 · .		, 10		235
		, 10		235
				235
. , 2000. 3.		, 10		235
				235
. , 2000. 3.	, 16	,		235
. , 2000. 3.	, 16	,		235

- 140 -

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(www.ecommerce.go.kr)
                           , 2000. 8. 17
        (www.yakup.com)
                 (www.hani.co.kr/survey/3rd/record/josa3.html)
        (www.etimesi.com/news/detail.html)
                '越
                                    , 2001. 5. 22
                                (2001
                                       3
                                               1/4
         ), 2001. 5
            (www.ked.co.kr)
                  (http://www.krnic.net)
                      2001
                  (http://www.kiec.or.kr)
                  (www.eiak.org)
CDNow (www.cdnow.com)
e@ble (www.epage.co.kr/enable/)
Network wizard (www.nw.com/zone/www/top.html)
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Abstract

A Case study on e-Commerce in Healthcare Sector

- Centering the B2B e-commerce business model -

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Graduate school of
Health Science and Management
Yonsei University

(Directed by Professor Myong-Sei Sohn, M.D, Ph.D.)

In recent 4 5years period thanks to the expansion of Internet, e-commerce has become much more popular business in many industries. e-Commerce in Health and Medical industry, however, was not a popular system mainly due to the restrictions which had existed characteristically in the industry. The medical and pharmacy separation system has changed the tendency. Thousands of medical sites and more than 100 e-commerce business were newly born during the period of second half 1999 and 2001. The new era of e-commerce business in the Health and medical industry actually begins now.

In spite of appearance of many new smaller e-business firms, however, many of them at the same time had to disappear due to the absence of proper benefit models, fluctuation of sales, uncertainty of practical environment etc. Future for the firms who survive up to now

is not so bright as well. Their external expansion does not comply with the lack of sufficient actual benefit and as result many of the e-business firms are suffering from their bad financial management status. In the circumstances there could be hardly any scientific researches and analysis of the firms and the market situation so far.

In this paper I'd like to find out the e-commerce situation of the Health and Medical industry from the viewpoint of the whole e-business situation in Korea. With the findings I wish to look ahead the future of the firms and the market situation of e-commerce in the Health and Medical industry. My study is consisted of 3 stages.

At first stage, I collected and classified datas of the e-business firms in the Health and Medical industry as of April 2001. Objects were the e-business firms which had been operating B2B or B2C from June 1999 till April 2001. I checked firms and medical portal sites with e-commerce and/or e-market place as searching tool and selected 43 actually operating firms and 51 sites.

They were classified in 3 different ways.

Firstly, according to the classification of types and periods of the firms 42 firms belonged to B2B which was 72% of the total firms, 16 firms to B2C and was 28%. 34 of them were founded within the period of 2000 till April 2001 which was 60% of the total firms which means the fact that the separation system was momentum for the expansion of e-commerce. Secondly according to the calssification into 5 groups with their commodities 13 firms were medical information suppliers, 12 were medical instrument and

equipment dealers, 9 general shopping malls, 6 others. Dealers of medicament and medical instruments took 50% of total e-commerce business to show the activeness of e-commerce in this business area. Medical information suppliers posessed better business activity and technology than the other business area and they accepted ASP method. Thirdly according to the classification with the back ground of the founders 14 firms were established by medicals and pharmacists, 29 were established by venture businessmen and normal people. Medical professionals launching into the business could be remarkably acknowledged in this area. Other facts found in this research were that 45% of the total firms were operating both on and off-line business together, specialized medical consultants with the concept of marketing came into the e-commerce business area, companies in same business line including medical institutes tended towards merging into bigger firms, huge shopping malls.

At second stage, I intended to analyze firms according to the 4C theory of business model theories and the theory model of Timmers.

As result according to 4c theory 5 firms were contents type, 7 were community type, 32 were commerce type, 10 were connectivity type and some firms were mixed with multiple types. This classification shows the fact that the model is on the way from its maturing stage into growing stage. According to the summarized 3 classifications of Timmers' original 11 model classifications 14 firms were value chain integrated models, 30 were multiple service types, and 15 were basic models. Some firms were mixed with multiple model types. We now

can understand that the majority of the firms already has fully grown model with high value added services.

At third stage, 1 selected 5 excellent companies for the case study of their business details. Beat computer and Medidas were the low commitment models with the characteristics of lower operation cost and higher margin, main benefit structure of rental fees and commissions. They were active in aligning, investing inland and overseas for the various benefit sources. According to the commodity characteristics they were different from medicament distributors in their model structure. Pharmsnet and Carebest had excellent value flow structure. Pharmsnet was in e-market place with commission as their main benefit source. Carebest was in e-commerce with commodity distribution margin as their main benefit source. Management consulting was their additional service to the customers. Both companies had differences from each other not only in their structural elements but also in their business model types. Medigate was a highly specialized advertising business model with e-detailing. Advertising fee was their main benefit source and the company was consisterd of indirect benefit creating factors due to their commodity characteristics. Common features of these 5 companies were that they all had high value added business models, maximized indirect benefit rate through rational management system, and with the strategy of securing long-term benefit sources they could maintain competitiveness and the differentiation with other companies.

Through the 3 stage research I can come to the conclusion that the e-commerce market of the Health and Medical industry in Korea is at

moment in the period of searching its possibilities from the industrial viewpoint. Various directions of the developments including strategical alignments and business diversifications are under study. Many companies already possessed highly grown models but only a few of them have established creative benefit models of their own. Korean companies are trying to find out proper e-commerce benefit models in many directions.

Continuos reserach and development for the benefit models together with internal reforms, external improvements of environment in its regulations and systems are the key-factors of the competitiveness for the Korean companies and the development of the e-commerce in the Korean Health and Medical industry.

key words: e-commerce, business model, benefit model, Healthcare and Medical industry, B2B, B2C, medical and pharmacy separation, medicament distributors, medical information suppliers, medical instrument and equipment dealers.