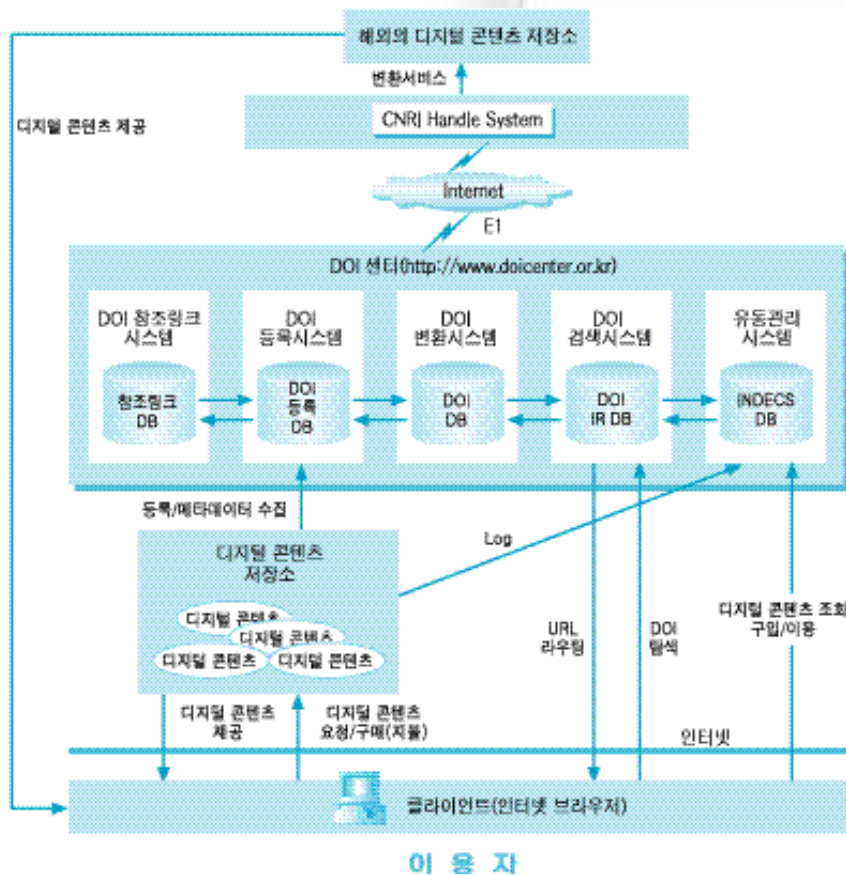


DOI(Digital Object Identifier:) 가?

PART II

DOI	DOI	, DOI	, DOI	, INDECS
		, DOI		. < 3>



5. DOI

DOI Prefix
DOI
Dublin Core, MARC
DOI Prefix
DOI Suffix
가 DOI Prefix Suffix
DOI
가
DOI , DOI
DOI , DOI

6. DOI

URN
URN , DNS
DOI
URL
URL
IP
Handle System
URN

7. DOI

DOI
DOI
DB
DOI
DB
DOI
DOI가

8.

DOI

INDECS

INDECS(INteroperability of Data in E-Commerce System)

CIDOC, Dublin Core, MPEG21

가

. INDECS

가

XML RDF가

DOI

. INDECS

가

DOI

(work),

(performance),

INDECS

(manifestation)

. INDECS

INDECS

() . DOI

9. DOI

DOI
, 가
,
(fulltext) 가
SCI DB 가가



가

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KISTI

1. CAVE (Cave Automatic Virtual Environment)

CAVE Cave Automatic Virtual Environment

4 6

가

가

가가

CAVE

EVL(Electronics Visualization Laboratory)

가

EVL

, , , 4

3 6

CAVE

Fakespace Systems

가

CAVE

Trimension Systems

ReaCtor, TAN

CUBE, MechDyne

MD_Flex MD_SSVR

가

가

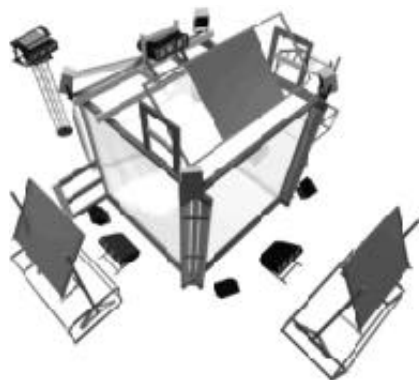
가

가

가

가

가



CAVE



CAVE 가

2. HMD (Head Mounted Display)

HMD

(LCD or CRT)

. RGB

가

가

200x150

1280x1024

. HMD

가

.

가

/

가

HMD

가

가

가



HMD

. HMD CAVE

가

3. VRML

3

. SGI

Open Inventor

가

,

가

가

. VRML

가

. VRML

Cosmo

Player World View

VRML

4. OpenGL

OpenGL

가

가

3D

. OpenGL SGI

, 80

. OpenGL

, 3D

가

VoIP

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KISTI

1. VoIP (Voice-over-IP)?

VoIP (Voice-over-IP)는 IP 망을 이용하여 음성 데이터를 전송하는 기술이다. 기존의 PSTN (Public Switched Telephone Network) 망을 이용하는 것과 달리, IP 망을 이용하여 음성 데이터를 전송한다. VoIP는 QoS (Quality of Service)가 중요하다. VoIP는 ITU-T IETF가 ITU-T SG16 H.323, IETF SIP (Session Initiation Protocol), MGCP (Media Gateway Control Protocol) 등을 표준화하고 있다.

2. VoIP

VoIP는 PC-to-PC, PC-to-Phone, Phone-to-Phone 등이 가능하다.

1) PC-to-PC

[2-1] PC-to-PC

IP

PC

PC

VoIP
PC



< 2-1> PC-to-PC

Vocaltec
 Vocaltec
 Vocaltec
 PC
 (64K 5.3K, 6.3K, 8K -G723, G729)
 H323,RSVP,RTP/RTCP ()
 PC ()
 가

2) PC-to-Phone
 PC-to-PC
 PC
 Gateway

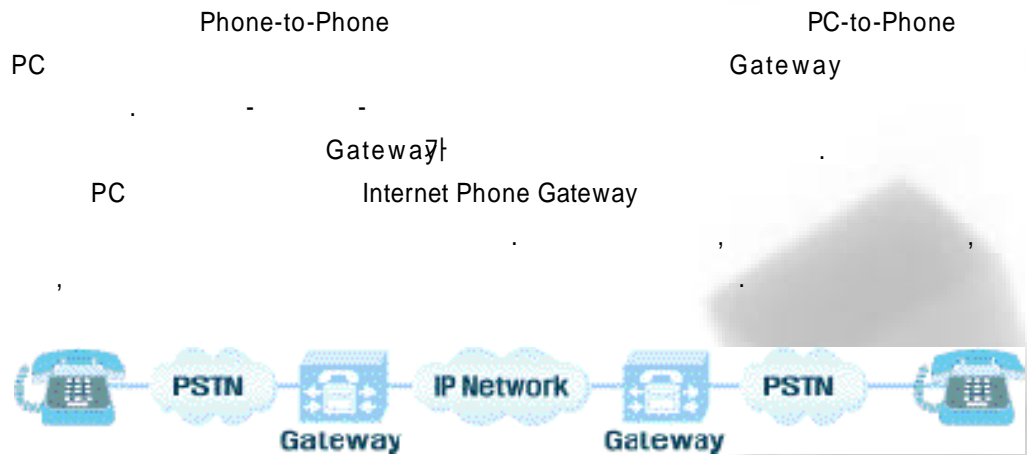
PC
 Internet Phone
 PC
 PC-to-PC
 PC-to-PC
 PC-to-Phone
 Internet Phone Gateway가
 , VocalTec IDT
 가()

가



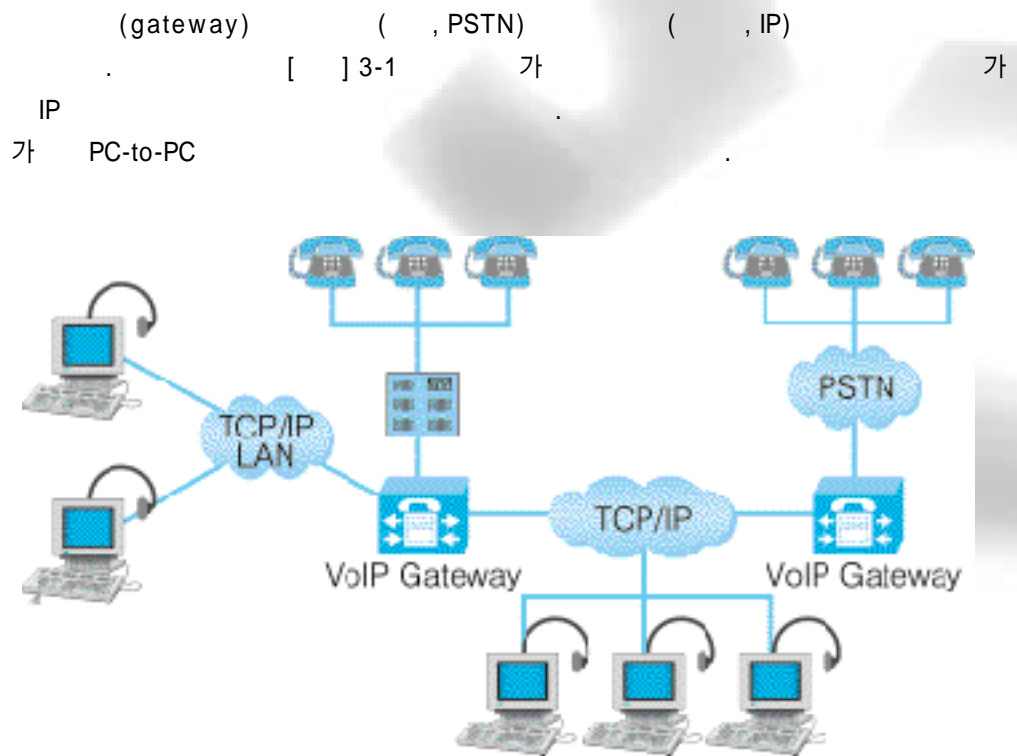
< 2-2> PC-to-Phone

3) Phone-to-Phone
 PC-to-Phone

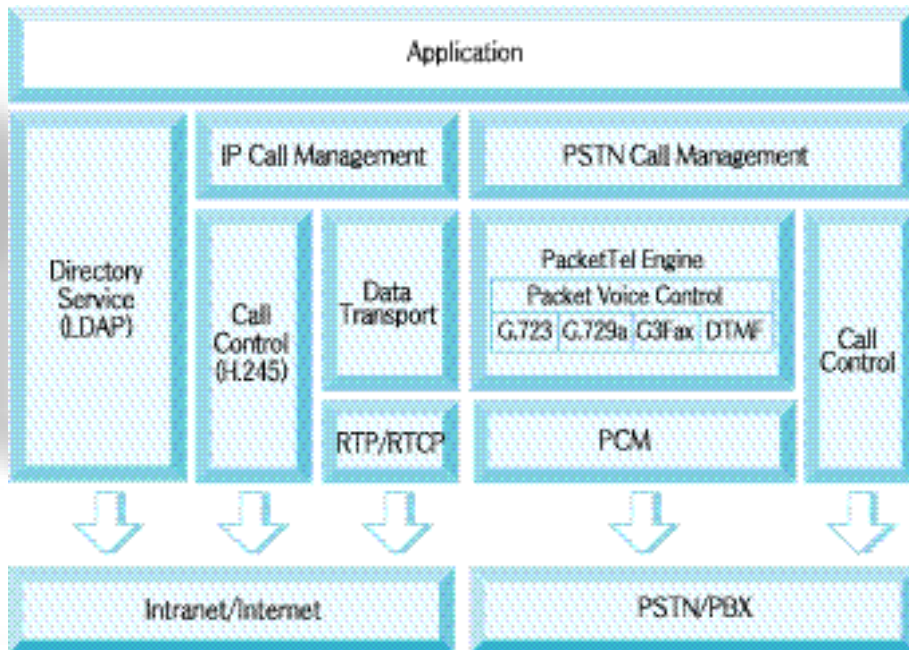


< 2-3> Phone-to-Phone

3. VoIP GateWay



< 3-1>



< 3-2> VoIP

[3-1] 가
 PSTN() 가 IP
 가가 .
 3-2 . Application IP resolution
 (end-to-end) VoIP . ,
 Application , , ,
 Directory Service PSTN , , IP IP
 . H.323 , H.245 H.323
 Q. 931 . H.245
 TCP IP
 encapsulated/ unencapsulated Application . H.225
 Real Time Protocol (RTP)
 Real Time Control Protocol (RTCP) .