

VRML

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Design of VRML based Applications Sharing Engine for Supporting Multi-Participants

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가 1 [3,4,5,6]
가 3
가 가

(Scheduler)

(A.S.A: Application Sharing Agent)
가

1.

	[3]	[4]	[5]	[6]
	O	O	O	O
	X	X	X	O
	X	X	X	O
	O	X	X	O
	O	O	O	O
3	X	X	X	X
	X	X	X	X

3.2

3.

3.3

VRML

VRML

3 가

가

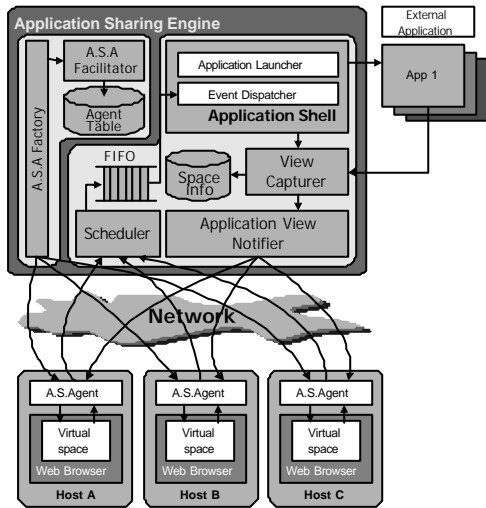
(View)

가

DIB(Device Independent Bitmap)
JPEG

3.1
VRML

1



1.

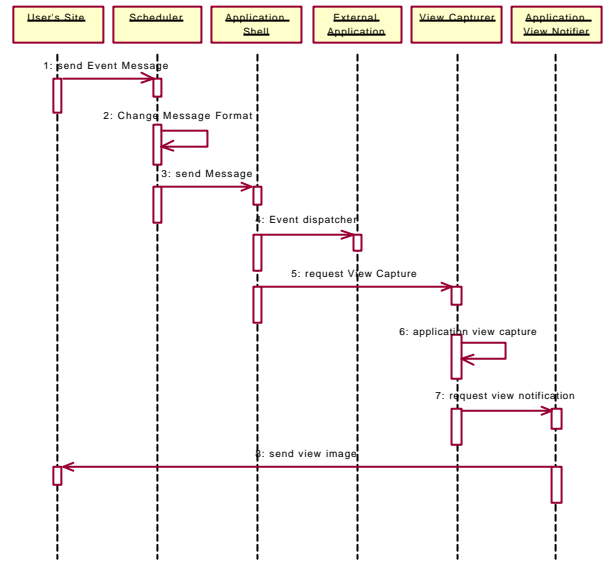
(Application Shell)

(View Capturer)

가

(Application View Notifier)

가



2.

3.4

가

가

WYSIWIS(What You See Is
가

What I See)

가

2

3.5

가

가

1.

```

Input : Buffer_Data
Output : FIFO input
Begin Method
While( True )
  If(Read Buffer_data is NULL) continue();
  else{
    switch(Eventtype){
      case MouseEvent:
        Retrive EventPair with same Client
          And Event_type from Buffer;
        insert EventPair with ApplicationID to FIFO;
      case KeyboardEvent:
        Retrive EventPair with same Client
          And Event_type from Buffer;
        insert EventPair with ApplicationID to FIFO;
    }
  }
EndIf
EndWhile
End Method

```

3.6

가

가

(Facilitator)

3

3

가

가

3

4.

가

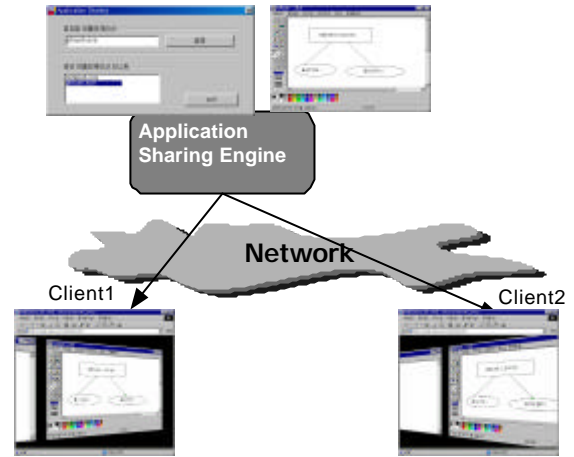
VRML
MS-Windows NT

Visual C++ 60 IIS
Cosmo Player 2.11 addon IBM
Aglet
LAN ATM 155MB 100base-TX Ethernet

3

가

가



3.

[1]

VRML

가

가 가

가

VRML

가

Cosmo player

가 addon

5.

VRML

가

3 가

3

2

3
가

가

VRML

가 가

가

CSCW

가

[1] A. Versey and Ajay Paul Sravana, CASE as Collaborative Support Technologies, *Communication of the ACM*, Jan. 1995, pp.83-94
[2] Schooler, E. M., Conferencing and Collaborative Computing, *ACM Multimedia Systems*, Vol.4, No.5, pp. 210-225(1996)
[3] D. Garfinkel, B. B. Welti and T. W. Yip, "HP SharedX: A Tool for Real-Time

Collaboration," Hewlett-Packard Journal, April, 1994.

- [4] H. Abdel-Wahab and M. Feit, "XTV : A Framework for Sharing X Window Clients in Remote Synchronous Collaboration," Proceedings IEEE Ticommm' 91, August, 1991.
- [5] M. Altenhofen, B. Neidecker-Lutz and P.Tallett, "Upgrading a Window System for Tutoring Fuctions," Proceedings of International workshop on Distributed Window System, December, 1991.
- [6] , " TSHARE (C) 5 1 ,1999.2