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Content-Based Dynamic Event Notification System for Collaborative Virtual Environment

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XML

XML

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XML
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1.

(Event notification)

(notifier)

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RML
[1].

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XML

[2, 3].

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XML

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2.

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[4,5].

(Mediator model)

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XML

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[5,6].
(Observer model)

3.1 event specification
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- Action Event
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[5,6].

(Event Notifier model)
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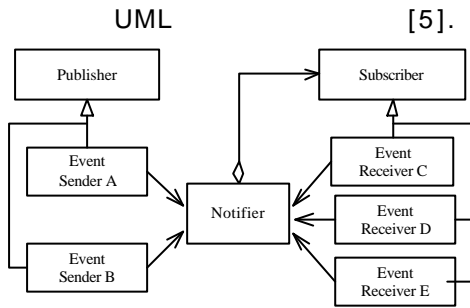
-

- Independent interaction event :

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- Shared interaction event :
Independent event



1. UML

- Information event
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mail

3.

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3

(publisher)

(subscriber

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2

```

Event {
  Type = INDPENENT | SHARED | INFORMATION
  {
    Session ;
    ObjectID;
    AvatarID;
    NotifyRange = Interaction | System | Session |
      userDef |Outer | AvatarIDs;
    TimeStamp;
    Content { ...}
  }
}

```

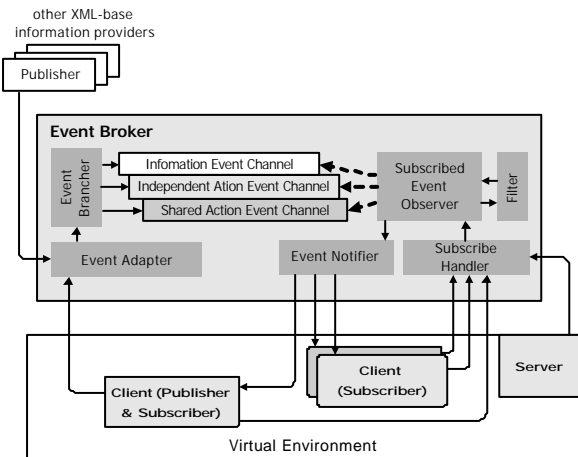
3.

Shared Interaction Event

4 XML
lio “Work” <vec3fx> “Ei
가 , “Co
.<Content>
가 VRML
XML 가 가

가

가



2.

```

<?xml version="1.0" encoding="UTF-8"?>
<Event type = " SHARED">
  <Session > Field1 </Session>
  <AvatarID > Ellio </AvatarID>
  <ObjectID> CoWork </ ObjectID >
  <NotifyRange>InteractionRange
</NotifyRange>
  <TimeStamp> 05:12:04 </TimeStamp>
  <Content>
    <node type = "translation">
      <vec3fx value = "10", "-2", "5"/>
    </node>
  </Content>
</Event>
</xml>

```

4. XML

Personalized filter Human-readable event
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, Action event

, information event
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4.

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3.2 Notifier

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XML

(Converter)

(Filter)

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bsubscribers

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XML

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. subscriber

notifier

, notifier

personalized

, XML

<tag>

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. notifier

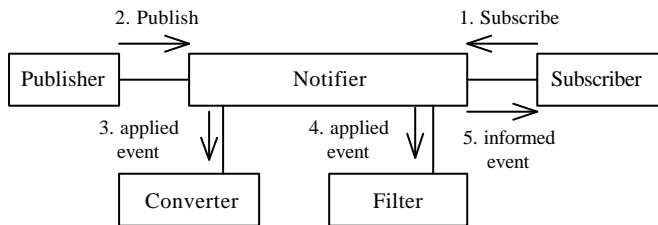
XML

VR

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XML



5. Collaboration Diagram

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subscriber

notifier

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Action Event

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information Event

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