

# GIS

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## Framework Design for Ubiquitous GIS

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1. 1 (Ubiquitous) 가

2. (Framework) [1]. 2.1

(GIS: Geographical Information System) [6]

[2]. 1988 가 “ ” [4],[5]

.2 가 가

.4 ,5 가

가

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1 / 가

1999

“ ”

2000

IP

12

가

가 가  
가

awareness)

(location awareness)

(context

가

2.2

가

가

[1]

[ 2]

가

2.3

가

가

(Anytime)

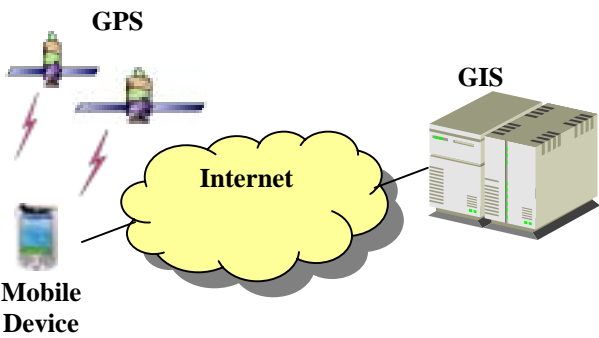
가

(Anymedia)

(Any

where)  
IPv6

가



[ 1]

◆ P2P(peer to peer)

-

2]

2

가

, [

◆

-

가

- GPS

3.

(Tracking)

- ◆ P2P Client/Server (session)
- P2P

가

- ◆ XML (Tiny Web Server)
- XML

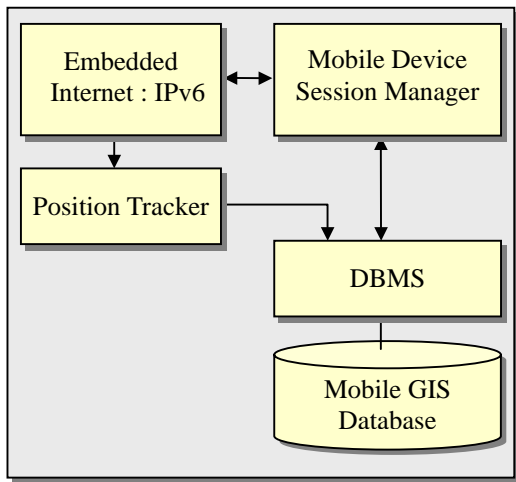
(PC, Handheld, PDA, mobile phone )

가

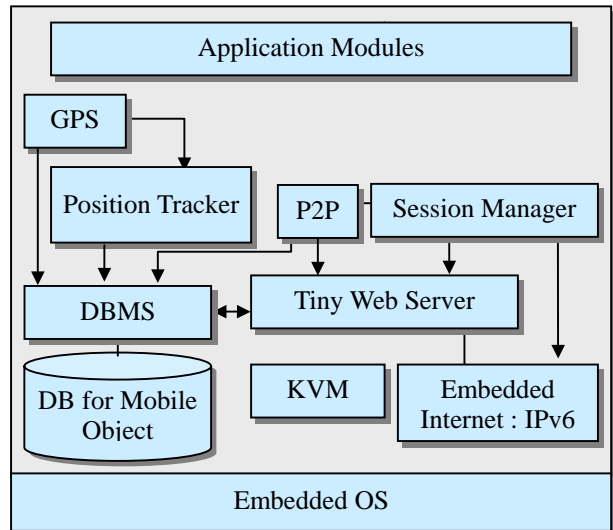
[7][8].

[7].

[ 3] [ 4]



[ 3]



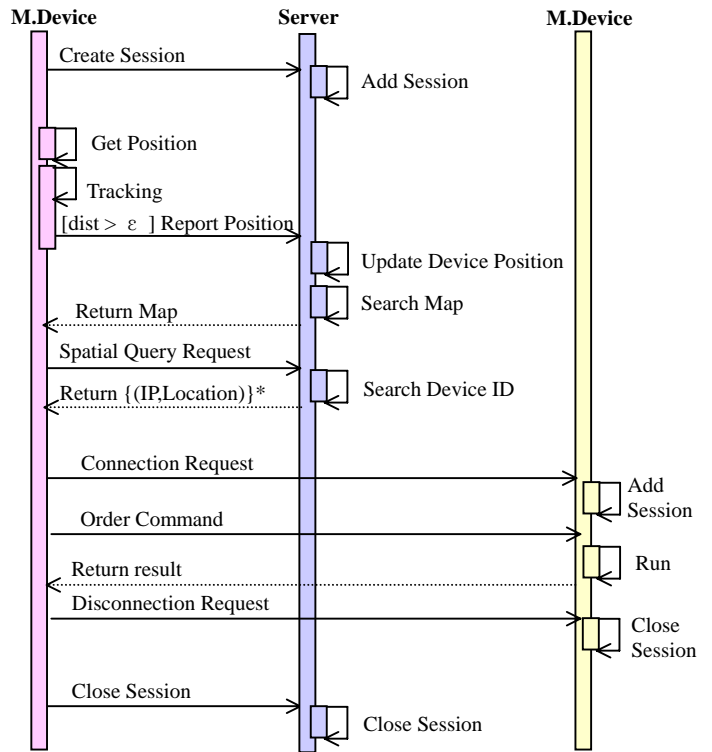
[ 4]

(XML)

(Java)

가

[ 6]



[ 6]

GIS

HP iPAQ5450 PDA CF type GPS , , ETRI  
 , IEEE 802.11 , 1098 , 2003 6  
 GPS RMC – Recommended Minimum Specific  
 GNSS data ,  
 가 ,  
 IP , IP  
 . [ 6]  
 , PDA  
 가

[3] , , “ (LBS) ”  
 Vol.20, No.4, 2003 4 .  
 [4] Mark Weiser, "The Computer for the Twenty-First Century," *Scientific American*, pp. 94-10, September 1991  
 [5] Mark Weiser, "Ubiquitous Computing", ACM Conference on Computer Science 1994: 418  
 [6] Eija Kaasinen, "User needs for location-aware mobile services," *Personal and Ubiquitous Computing*, Volume 7, Issue 1, pp. 70-79, May 2003  
 [7] M.Moschgath, J.Hahner, R.Reinema, "Sm@rtLibrary - An Infrastructure for Ubiquitous Technologies and Applications", *Proceedings of Distributed Computing Systems Workshop 2001*, pp.208-213, April 2001  
 [8] Tak-Goa Tsuei and Chin-Yang Sung, "Ubiquitous Information Service with JAIN Platform", *Mobile Networks and Applications*, Volume 8, Issue 6, pp.655-662, December 2003



[ 6] /

4.

가 ,  
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[1] , , ”  
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[2] , , , “