

Status Report of Telematics Testbed Technologies

<p>& RFID/USN</p> <p>.....</p> <p>.</p> <p>.</p> <p>.</p> <p>.</p> <p>.</p> <p>.</p> <p>.</p> <p>.</p>	<p>(B.S. Kim)</p> <p>(S.Y. Lee)</p> <p>(I.S. Jang)</p> <p>(J.W. Lee)</p> <p>(S.G. Hong)</p> <p>(Y.M. Kim)</p> <p>(W.S. Choi)</p> <p>(J.H. Park)</p>
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I.

1.

, M-commerce,

CAN[1], MOST[2], IDB-1394

()

가

VEG

OSGi가
API

AMI-C OSGi single invoice”

2.

(Göteborg)

(interoperability) (conformance)

가
가
3GT GST

ERTICO

end-to-end

, EMC

3GT OSGi

OSGi, AMI-C, AutoSar

2002 6

2003 10

[3].

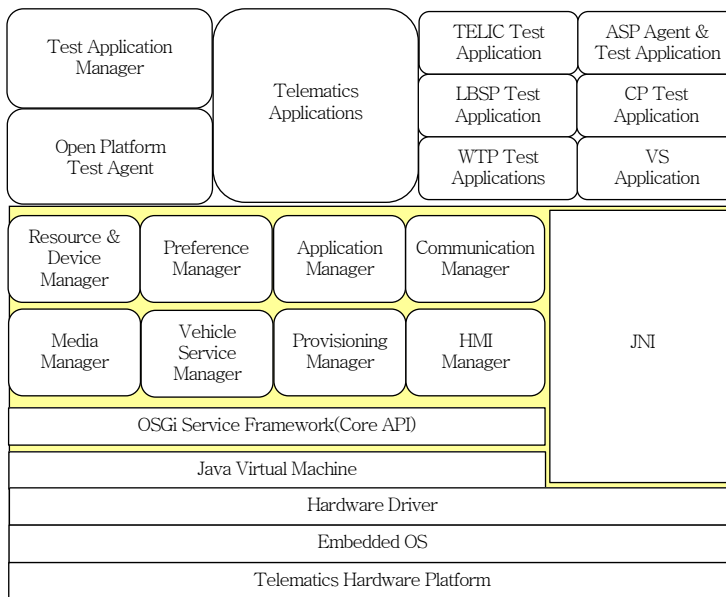
가

3.

5

. GST 3GT

“A single system, a single contract, a



(1)



. ETRI · USN 2004

WiBro, WCDMA, 4G
DMB

ETRI
1)

, (2.

UMTS 2G GSM , 3G
. GSM

가,
가

[4],
GSM, AMPS, D-AMPS, Mobitex[5]

ITS
YRP NICT[6] ITS
DSRC, CDMA, WLAN, PHS

ITS

CDMA, TDMA, GSM

·가

TTA가

가

TTA CDMA

TIA/EIA

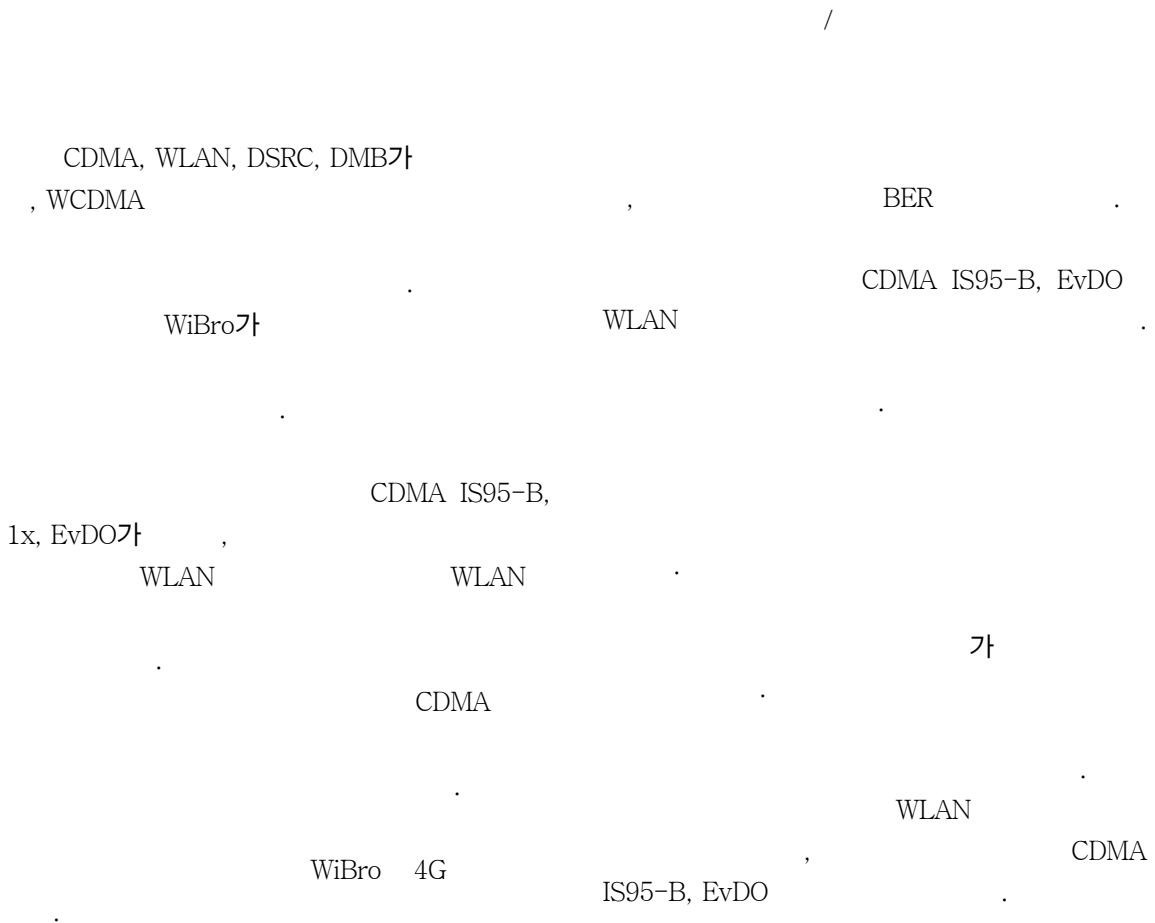
가 . TTA

1.

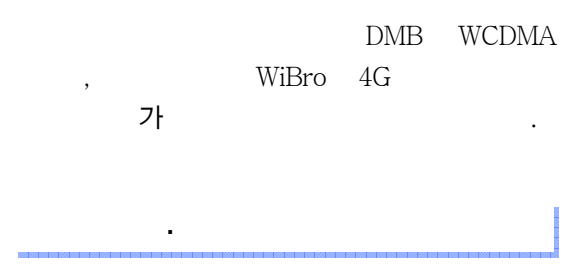
ETRI · USN

2004 12

2G 3G



3.



1.

(TSP)
 , , bit , 가
 rate . 가 ,



DB, CTI IBM, ,
 , , POI, 가
 , 가 가 DB, ASP, GeoMobility
 LBS MLP, -
 TSP

TSP front-end, ERTICO 3GT가 2002
 back-end

2.

ETRI
 (open service technology)
 OMA MLP, 3GPP/3GPP2
 , Parlay Group Parlay
 OSA API, OGC ISO-TC211
 , 3GT GPT

3.

MLP, GTP - (performance)
 가
 -
 MLP -
 MLP
 LBS

(response time), (throughput)
QoS

1.

(2)

3

ETRI LBSP ASP

, HMI

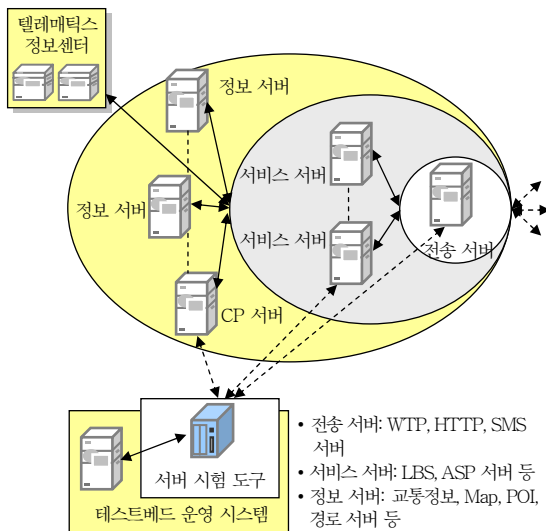
TSP

(CP)

TSP가

Windows Automotive WinCE

OSGi AMI-C



XML

OpenLS

TSP
(application server)
service provider)

(appli-
(application

C/S

(2)



Runner, Robot, Silk Test QARun

2.

LoadRunner, QARun, e-Load Performance Studio 가 LoadRunner TestStudio

가

ISO/IEC 9126[7]

가 ISO/IEC 14598[8]

TTA

가

/

/

가

-

IT839

. ISO/IEC 9126

가

ETRI

가

3.

(white-box)

WinCE

(black-box)

OS가

GPS

/

,

/

[9].

가

가

가

GPS

capture and playback

Win-

가 , .
 AOA ,
 TOA,
 (virtual
 user) 가 TDOA [10].
 / 가
 IC
 DB
 /
 [11].

1.

2.

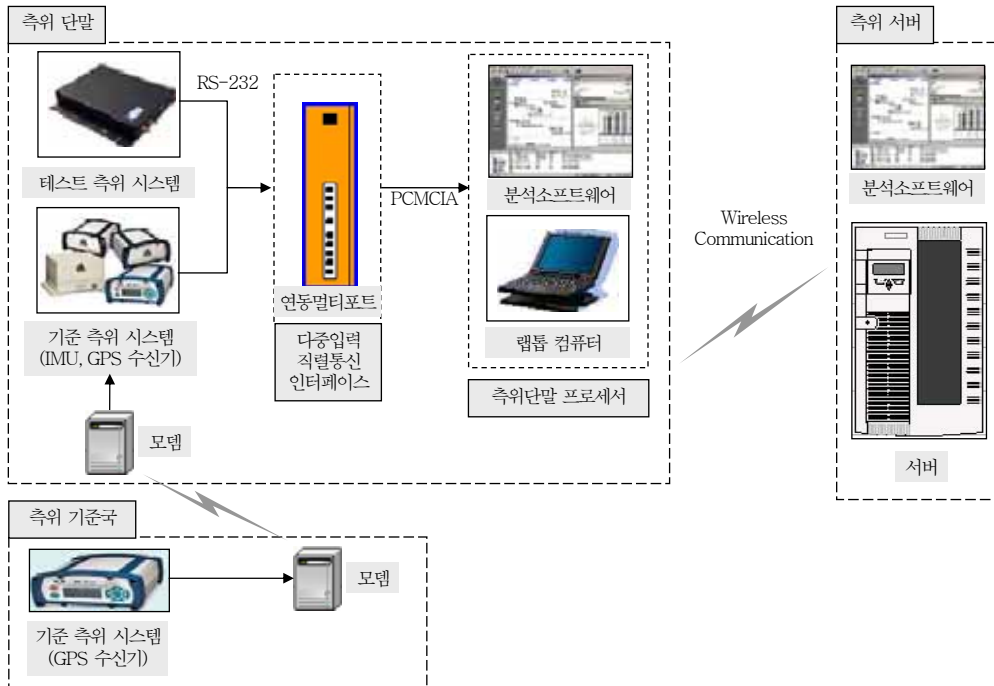
,
 (M-commerce)
 INS DR , 가 ,
 GNSS ,
 GPS GLONASS가 .
 , 1993 GPS
 2000 5 S/A
 가 GPS
 가
 GLONASS-M
 GALILEO
 , 2008
 GPS
 Seeker Wireless LBS
 SMS
 GPS

GPS, GSM, CDMA, 3G, GPS/INS, GPS, GPS/DR, LG, ETRI, 가 GPS L1/L2C RF, MEMS Gyro SIP

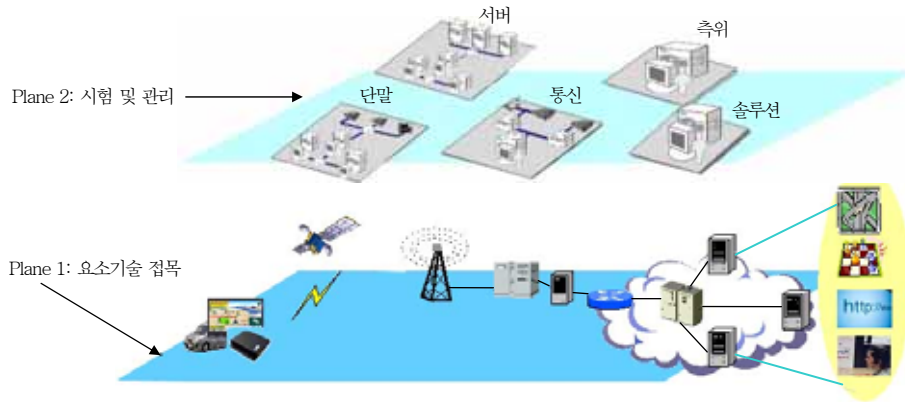
3.

GPS seamless)

A-GPS



(3)



(4)

(plane 2) ((4)).

< 1 >

OSGi Framework	OSGi	API
MLP		, VTSP, LBSP
	CDMA, WLAN, DMB	
WTP	14가 Use Case	, VTSP
		, TTF
	ISO/IEC 9126	, VTSP

< 1 >

< 1 >

OSGi framework, MLP, 가 end-to-end

가 SNMP MIB private MIB



XML eXtensible Markup Language
YRP Yokosuka Research Park

[1] ISO/IEC 11898, Road Vehicle Controller Area Network(CAN) part 1-4, 2003.

[2] MOST, <http://www.mostcooperation.com>.

[3] John Juhasz 5, 3GT Interoperability White Paper, 2003.

[4] Telematics Valley, <http://www.telematicsvalley.org/>

[5] Mobitex™, <http://www.mobitex.com/http://www>.

[telematicsvalley.org/](http://www.telematicsvalley.org/)

[6] NICT, <http://www.nict.go.jp/>

[7] ISO/IEC 9126-1: Software engineering-Product quality, Part 1: Quality model, 2001.

[8] ISO/IEC 14598, Software Product Evaluation Part 1,2,3,4,5,6, 1999.

[9] , “ , ” , 12 2 , 2005.

[10] , “ , ” , 8월호, 1999.

[11] , “ , ” 113 , 2003. 7.

[12] , 2004.