

# WIPI 2.0

## Wireless Internet Standardization Platform WIPI 2.0

(S.Y. Lee)  
(H.K. Lee)  
(W.S. Kim)  
(J.H. Lee)  
(S.J. Kim)  
(H.N. Kim)

S/W

WIPI  
WIPI  
가  
WIPI  
WIPI가  
가  
WIPI  
WIPI 2.0

### I. 가 (machine code)

WIPI(Wireless Internet Platform for Interop-erability) (Korea Wireless Internet Standardization Forum: KWISF)

C, Java가

가 , CPU, LCD, OS(Operating System) (porting)

. 2002 5  
(TTA) TTAS-KO-06.0036(  
) . WIPI

3 , , [2].

2001

1

[1].

WIPI TTA  
OMA

### II. WIPI

WIPI “

”

LGT, SKT, KTF 3 가  
2001 8

9

“ 3 ”

가

WIPI

가 , WIPI & , , 가 , API WIPI C Java API . WIPI가 HAL , C API, Basic API [4].

[3].

2. WIPI

WIPI

III. WIPI 2.0

1.

WIPI 2.0 ( 1) Native System Software CDMA Rex OS

Java C C# API

가 HAL(Handset Adaptation Layer) API

HAL WIPI

HAL

WIPI

HAL WIN32

가

IV. WIPI 2.0

1.

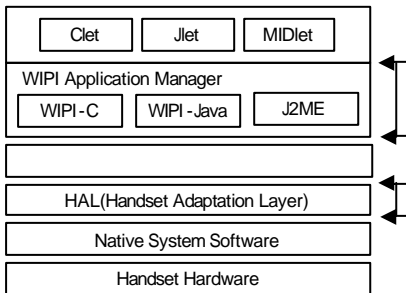
WIPI 2.0 가 J2ME (CLDC1.1/MIDP2.0)

SUN Java IPR WIPI 2.0 J2ME SUN

WIPI

. WIPI 2.0

WIPI-C, WIPI-Java J2ME



( 1) WIPI

WIPI 2.0  
 , Net-  
 work(Connection Oriented, Datagram, HTTP),  
 Secured Network Connection(HTTPS), Serial  
 Device(RS-232C, USB), Personal Information  
 ( , , )  
 가 가

가 가  
 가 < 1>  
 [5].

< 1> 가

	Graphic	Sound	Personal Info	System Property
Public	Allow	Allow	Deny	Deny
CP	Allow	Allow	User	Deny
System	Allow	Allow	Allow	Allow

- (Allow):

- (User):

- (Deny):

(User)

가 UI  
 , UI

가

J2ME

< 2>

< 2> WIPI MIDP

WIPI 2.0	MIDP
Public	Un- Trusted
CP	Trusted
System	Trusted

WIPI 1.2

WIPI 2.0

가 가  
 5

가

[6].

## 2. 가 API

가. Generic I/O API

I/O

IrDA,

IC 1Chip,

WCDMA

UICC(Universal IC

Card) . Generic I/O

가 I/O

API 가

가

. Ge-

neric I/O

HAL/C/Java API

. HAL

I/O

open,

close,

read, write가

io control

가 . HAL ( , , , )

, API가

I/O 가 WIPI

, API HAL/C/Java

vCard3.0

, open wCard

가

. HAL MIME

open 가 . Open 가 . BMP, GIF, JPEG, PNG

BMP, SIS , MPEG4, H.263, H.264 , Qualcomm CMX, Yamaha MA, MIDI, MP3, IS96

read/ MIME

write/control , , , SMS MIME

. API , I/O , 가 ,

command

. C API non-blocking

I/O 가

. POWERON, POWEROFF, IDLE, INCOMING, BROWSERON, BROWSEOFF

IrDA , OBEX version 1.2

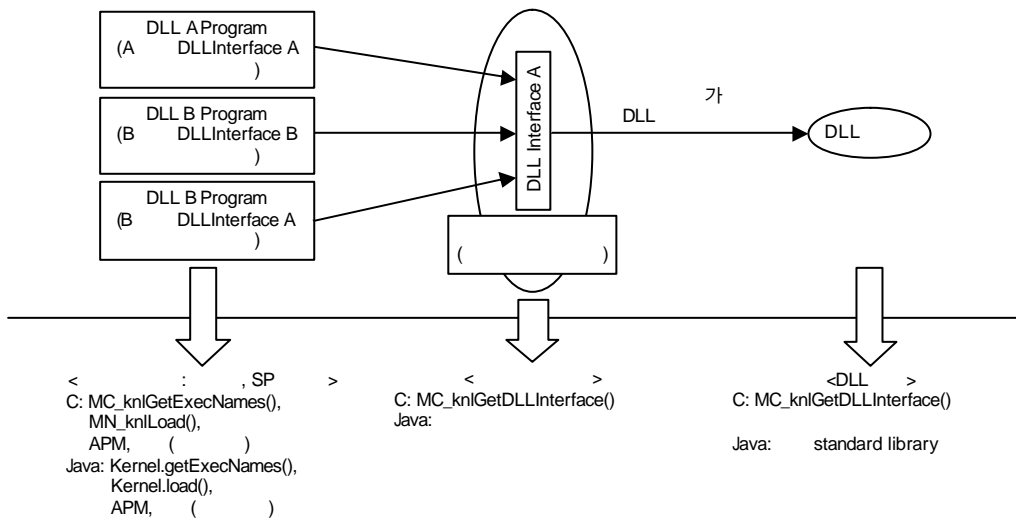
. Camera API

. API

가 , , API가 가 . HAL

C API  
 API  
 가  
 가  
 가  
 가  
 Java  
 Camera API  
 C API  
 ,  
 가 , Java API /  
 prop-  
 erty , LCD  
 ,  
 API  
 API GPS  
 Hal/C/Java API가  
 WIPI 2.0 GPS API  
 gpsOne™  
 GSM GPS  
 . gpsOne  
 gpsOne IS801-1  
 , C API  
 API gpsOne™  
 ,  
 , PDE  
 가 . GPS  
 , / ,  
 ,  
 ,  
 API  
 API WIPI 1.2

API , SSL  
 API가 가 .  
 API가 Java API 가 cipher suite cipher suite 가  
 SIS, GIF , SSL  
 SSL , SSL  
 API , (peer )  
 animate  
 가 / animated  
 , 3.  
 가. SMS API  
 API API SMS API SMS  
 API가 가 가 . SMS  
 SMS  
 . WIPI  
 API 2.0 가  
 HAL/C/  
 API SSL Java API가 .  
 . SSL 가 SMS  
 가  
 SSL MMS  
 API  
 API SSLv3, TLSv1 . API 가  
 API 가 API 가 API



( 2) DLL

(Dynamic Link -  
 ing Library: DLL)가  
 DLL  
 가 “  
 ,  
 API 가/  
 가 . DLL  
 API  
 API  
 DLL API C/Java API ((  
 2) ).

V.  
 2004 2 WIPI 2.0  
 2004 6  
 WIPI 1.1. WIPI 1.2 TTA  
 , 2005  
 JCP OMA  
 . 2004 SKT, KTF, LGT  
 가 WIPI  
 WIPI  
 WIPI

4. 가

VGI(Vector Graphic Image)  
 API  
 WIPI  
 Mobile Flash  
 SIS3 API가  
 API VGI  
 ,  
 / , /  
 가 .  
 VGI  
 ,  
 VGI Open API  
 가  
 C/Java API가 DLL

WIPI GSM  
 WIPI가 WIPI  
 .  
 WIPI가  
 가  
 [1] “TTA.KO-06.0036 ,”  
 , 2004. 6.  
 [2] , , , “  
 (WIPI) ,”  
 22 1 , 2004. 1., pp.16-23.  
 [3] , “  
 ,” TTA , 82 , 2002, pp.59-66.  
 [4] , , , “ WIPI  
 2.0,” TTA , 92 , 2004. 3. 4., pp.97-102.  
 [5] , “WIPI ,”  
 2002. 10., pp.230-235.  
 [6] ,  
 2.0, 2004. 2.