

**SK Telecom**

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Platform

NATE WAP

가

SK TELECOM

NATE WAP

가

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# NGB

N

GB XHTML WML WML1.x SK Telecom  
XHTML , NATE  
NATE  
NGB

가

# XHTML

XHTML WML 2 PC  
가 WML1.x WMLScript NGB  
가 가  
가 , , ,  
가 , , ,  
ontimer



# NGB

**N**

GB XHTML, WCSS  
WMLScript

WML 1.x, WML 2.x  
NGB 가

## Markup Language

		WML 1.3	WML 2.0	NGB	
Element	Attribute				
		○	○	○	
*		○	○	○	
	class	○	○	○	
	id	○	○	○	
	style		○	○	
	title		○		
	xml:lang		○		
a		○	○	○	
	charset		○		
	href	○	○	○	
	hreflang		○		
	rel		○		
	rev		○		
	type		○		
	accesskey	○	○	○	
	** 가 attribute	title xml:lang	tabindex		

<b>abbr</b>			O		
<b>***wml:Access</b>		O	O xml:lang	O	
	<b>domain</b>	O	O	O	
	<b>path</b>	O	O	O	
<b>acronym</b>			O		
<b>address</b>			O		
<b>wml:anchor</b>		O	O	O	
	<b>accesskey</b>	O	O	X	
	<b>가 attribute</b>	title xml:lang			

<b>b</b>		O	O	O	
	<b>가 attribute</b>	xml:lang			
<b>big</b>		O	O		
	<b>가 attribute</b>	xml:lang		X	
<b>blockquote</b>		O	O	O	
	<b>cite</b>		O		
<b>body</b>			O	O	
	<b>wml:newcontext</b>		O	O	
	<b>wml:onenterforward</b>		O	O	
	<b>wml:onenterbackward</b>		O	O	
	<b>wml:ontimer</b>		O	O	
<b>br</b>		O	O xml:lang	O	
<b>caption</b>			O	O	
<b>wml:card</b>		O	O	O	
	<b>newcontext</b>	O	O	O	
	<b>onenterforward</b>	O	O	O	
	<b>onenterbackward</b>	O	O	O	
	<b>ontimer</b>	O	O	O	

	<b>ordered</b>		O		
	<b>가 attribute</b>	title xml:lang		O	
<b>cite</b>			O		
<b>code</b>			O	O	
<b>dd</b>			O	O	
<b>dfn</b>			O		
<b>div</b>			O	O	
<b>dl</b>			O	O	

<b>wml:do</b>			O	O	O
	<b>role</b>			O	
	<b>type</b>		O		O
	<b>label</b>		O		O
	<b>name</b>		O		O
	<b>optional</b>		O		O
	<b>가 attribute</b>	xml:lang			
<b>dt</b>				O	O
<b>em</b>		O		O	
	<b>가 attribute</b>	xml:lang			
<b>fieldset</b>			O	O	O
	<b>가 attribute</b>	title xml:lang		title	title title
<b>form</b>				O	O
	<b>action</b>			O	O
	<b>enctype</b>			O	
	<b>method</b>			O	O
	<b>wml:getvar</b>			O	
			xml:lang		O
	<b>name</b>			O	O
	<b>conversion</b>			O	O
<b>wml:go</b>				O	
		O		xml:lang, style	O
<b>href</b>			O	O	O

	sendreferer	○	○		
	method	○	○	○	
	enctype	○	○		
	accept-charset	○	○		
	cache-control	○	○		
	type		○		

head		○	○ xml:lang	○	
	profile		○		
hn		○	○	○	
hr		○	○	○	
html		○	○	○	
	version	○	○		
	xmlns	xml:lang	○ (=xmlns:wml)		
	wml:onenforward		○	○	
	wml:onenbackward		○	○	
	wml:ontimer		○	○	
	wml:use-xml-fragments		○		
i		○	○		
	가 attribute	xml:lang			
img		○	○	○	
	align	○		○	
	alt	○	○	○	
	height	○	○	X	
	hspace	○	○	○	
	longdesc		○		
	src	○	○	○	
	vspace	○	○	○	
	width	○	○	X	Resize 가
	wml:localsrc	○	○	○	
	wml:type		○		
	가 attribute	xml:lang			
input		○	○	○	

	<b>name</b>		○	○	
	<b>type</b>	○	○	○	
	<b>accesskey</b>	○	○	○	
	<b>wml:format</b>	○	○	○	
	<b>wml:emptyok</b>	○	○	○	
	<b>wml:name</b>	○	○	○	
	<b>가 attribute</b>	title tabindex xml:lang	tabindex src		
	<b>input:checkbox</b>		○	○	
	<b>checked</b>		○	○	
	<b>value</b>		○	○	
	<b>input:hidden</b>		○	○	
	<b>value</b>		○	○	
	<b>input:password</b>	○	○	○	
	<b>maxlength</b>	○	○	○	
	<b>size</b>	○	○	○	
	<b>value</b>	○	○	○	
	<b>input:radio</b>		○	○	
	<b>checked</b>		○	○	
	<b>size</b>		○		
	<b>value</b>		○	○	
	<b>input:reset</b>		○	○	
	<b>size</b>		○		
	<b>value</b>		○	○	
	<b>input:submit</b>		○	○	
	<b>size</b>		○		
	<b>value</b>		○	○	

	<b>input:text</b>	○	○	○	
	<b>maxlength</b>	○	○	○	
	<b>size</b>	○	○	○	
	<b>value</b>	○	○	○	
	<b>kbd</b>		○		
	<b>label</b>		○	X	
	<b>for</b>		○		
	<b>가 attribute</b>		accesskey		
	<b>li</b>		○	○	



<b>link</b>			O	O	
	<b>charset</b>		O		
	<b>href</b>		O	O	
	<b>hreflang</b>		O		
	<b>media</b>		O		
	<b>rel</b>		O		
	<b>rev</b>		O		
	<b>type</b>		O	O	
<b>meta</b>			O		
		O	xml:lang	O	
	<b>content</b>	O	O	O	
	<b>http-equiv</b>	O	O	O	
	<b>name</b>	O	O	O	
	<b>scheme</b>	O	O		
	<b>wml:forua</b>	O	O		
	<b>wml:Noop</b>		O		
		O	xml:lang	O	

<b>object</b>			O		
	<b>archive</b>		O		
	<b>classid</b>		O		
	<b>codeBase</b>		O		
	<b>codeType</b>		O		
	<b>data</b>		O		
	<b>declare</b>		O		
	<b>height</b>		O		
	<b>standby</b>		O		
	<b>type</b>		O		
	<b>width</b>		O		
	<b>가 attribute</b>		name tabindex		
<b>ol</b>			O	O	
<b>wml:onevent</b>			O		
		O	xml:lang	O	
	<b>type</b>	O	O	O	
<b>optgroup</b>		O	O	O	
	<b>disabled</b>		O		
	<b>label</b>		O	O	

	<b>가 attribute</b>	title xml:lang		title	
<b>option</b>		o	o	o	
	<b>selected</b>		o	o	
	<b>value</b>	o	o	o	
	<b>wml:onpick</b>	o	o	o	
	<b>가 attribute</b>	title xml:lang			

<b>p</b>		o	o	o	
	<b>align</b>	o	o	o	
	<b>wml:mode</b>	o	o		
	<b>가 attribute</b>	xml:lang			
<b>param</b>			o id		
	<b>name</b>		o		
	<b>type</b>		o		
	<b>value</b>		o		
	<b>valuetype</b>		o		
<b>wml:postfield</b>		o	o xml:lang	o	
	<b>name</b>	o	o	o	
<b>value</b>		o	o	o	
<b>pre</b>			o		
	<b>xml:space</b>		o	o	
<b>wml:prev</b>		o	o xml:lang	o	
<b>q</b>			o		
	<b>cite</b>		o		
<b>wml:refresh</b>		o	o xml:lang	o	
<b>samp</b>			o	o	
<b>select</b>		o	o	o	
	<b>multiple</b>	o	o	o	
	<b>name</b>		o	o	

	<b>size</b>		o	o	
	<b>wml:name</b>	o	o	o	
	<b>wml:iname</b>	o	o	o	
	<b>wml:value</b>	o	o	o	
	<b>wml:ivalue</b>	o	o	o	
	<b>가 attribute</b>	tabindex xml:lang title	tabindex	tabindex title	
<b>wml:setvar</b>		o	o xml:lang	o	
	<b>name</b>	o	o	o	
	<b>value</b>	o	o	o	
<b>small</b>		o	o	o	
	<b>가 attribute</b>	xml:lang			
<b>span</b>			o	o	
<b>strong</b>		o	o	o	
	<b>가 attribute</b>	xml:lang			
<b>style</b>			o xml:lang, title	o	
	<b>type</b>		o		
	<b>media</b>		o		
	<b>xml:space</b>		o	o	

<b>table</b>		o	o	o	
	<b>wml:align</b>	o	o	o	
<b>summary</b>			o		
	<b>wml:columns</b>	o	o		
	<b>가 attribute</b>	xml:lang title			
<b>td</b>		o	o	o	
	<b>abbr</b>		o		
	<b>align</b>		o	o	
	<b>axis</b>		o		
	<b>colspan</b>		o	o	
	<b>headers</b>		o		
	<b>rowspan</b>		o	o	
	<b>scope</b>		o		
	<b>valign</b>		o	o	

<b>template</b>		o		o	
<b>onenterforward</b>		o		o	
<b>onenterbackward</b>		o		o	
<b>ontimer</b>		o		o	
<b>가 attribute</b>		title xml:lang			
<b>textarea</b>			o	o	
<b>cols</b>			o	o	
<b>name</b>			o	o	
<b>rows</b>			o	o	
<b>wml:format</b>			o	o	
<b>wml:emptyok</b>			o	o	
<b>wml:name</b>			o	o	
<b>가 attribute</b>			accesskey tabindex		

<b>th</b>			o	o	
<b>abbr</b>			o		
<b>align</b>			o	o	
<b>axis</b>			o		
<b>colspan</b>			o	o	
<b>headers</b>			o		
<b>rowspan</b>			o	o	
<b>scope</b>			o		
<b>valign</b>			o	o	
<b>wml:timer</b>		o	o	o	
<b>name</b>		o	o		
<b>value</b>		o	o	o	
<b>title</b>			o	o	
<b>tr</b>		o	o	o	
<b>align</b>			o	o	
<b>valing</b>			o	o	
<b>가 attribute</b>		xml:lang			
<b>u</b>		o	o	o	
<b>가 attribute</b>		xml:lang		xml:lang	
<b>ul</b>			o	o	
<b>var</b>			o		
<b>wml</b>		o		o	
<b>가 attribute</b>		xml:lang			

<b>wml:widget</b>		o		
<b>type</b>		o		
<b>minlength</b>		o		
<b>require-key</b>		o		

## CSS Selector

CSS		WML CSS	NGB
Selector	Syntax		
Grouping	E, F, G	Mandatory	O
Universal selector	*	Mandatory	O
Type selector	E	Mandatory	O
Descendant selector	E F	Mandatory	O
Child selector	E > F	X	O
Adjacent selector	E + F	X	O
Attribute selector	E [foo]	X	O
Attribute selector	E [foo="warning"]	X	O
Attribute selector	E [foo~="warning"]	X	O
Attribute selector	E [lang]="en"]	X	O
Class selector	DIV.warning	Mandatory	O
ID selector	E#myid	Mandatory	O

## CSS Unit

CSS		WML CSS	NGB
UNIT Type	unit		
number		O	O
string		O	O
length	px, em, ex	O	O
	in, cm, mm, pt, pc	X	O
percentage		O	O
uri		O	O
define color		O	O
Numerical RGB		O	O

## CSS Attribute

CSS Attribute	CSS 2	WML CSS	NGB
background	O	O	O
background-attachment	[scroll fixed inherit]	O( )	O( )
background-color	O	O	O
background-image	O	O	O
background-position	O	O	X
background-repeat	O	O	X
border	O	O	O
border-bottom	O	O	O
border-bottom-color	O	O	O
border-bottom-style	O	O	O
border-bottom-width	O	O	O
border-collapse	O	X	X
border-color	O	O	O
border-left	O	O	O
border-left-color	O	O	O
border-left-style	O	O	O
border-left-width	O	O	O
border-right	O	O	O
border-right-color	O	O	O
border-right-style	O	O	O
border-right-width	O	O	O
border-spacing	O	X	X
border-style	O	O	O
border-top	O	O	O
border-top-color	O	O	O
border-top-style	O	O	O
border-top-width	O	O	O
border-width	O	O	O
bottom	O	X	X
caption-side	O	X	X
clear	O	O	-
clip	O	X	X
color	O	O	O
content	O	O	X
counter-increment	O	O	X
count-reset	O	O	X
cue	O	X	X
cue-after	O	X	X
cue-before	O	X	X
cursor	O	X	X
direction	O	X	X

!important	O	X	X
@charset	O	O	
@font-face	O	X	X
@import	O	O	X
@media	O	O	X
@page	O	X	X
azimuth			
display	inline   block   list-item   run-in   compact   marker   table   inline-table   table-row- group   table-header- group   table-footer- group   table-row   tablecolumn- group   table-column   table- cell   table- caption   none   inherit	inline   block   list-item   none   -wap - marquee	X
elevation	O	X	X
empty-cells	O	X	X
filter	O	O	O
font	O	O	X
font-family	O	O	X
font-size	O	O	X
font-size-adjust	O	X	X
font-stretch	O	X	X
font-style	O	O	X
font-variant	O	O	X
font-weight	O	O	X
height	O	O	O
ime-mode	X	X	X
layout-grid	X	X	X
layout-grid-char	X	X	X
layout-grid-line	X	X	X
layout-grid-mode	X	X	X
layout-grid-tpe	X	X	X
left	O	X	X
letter-spacing	O	X	X
line-break	X	X	X
line-height	O	X	X
list-style	O	O	X
list-style-image	O	O	-
list-style-position	O	O	X
margin	O	O	O
margin-bottom	O	O	O

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margin-left	O	O	O
margin-right	O	O	O
margin-top	O	O	O
marker-offset	O	X	X
marks	O	X	X
max-height	O	X	X
max-width	O	X	X
min-height	O	X	X
min-width	O	X	X
orphans	O	X	X
outline	O	X	X
outline-color	O	X	X
outline-style	O	X	X
outline-width	O	X	X
overflow	O	X	X
overflow-x	X	X	X
overflow-y	X	X	X
padding	O	O	O
padding-bottom	O	O	O
padding-left	O	O	O
padding-right	O	O	O
padding-top	O	O	O
page	O	X	X
page-Break-After	O	X	X
page-Break-Before	O	X	X
page-Break-inside	O	X	X
pause	O	X	X
pause-after	O	X	X
pause-before	O	X	X
pitch	O	X	X
pitch-range	O	X	X
play-during	O	X	X
position	O	X	X
quotes	O	X	X
richness	O	X	X
right	O	X	X
ruby-align	X	X	X
ruby-overhang	X	X	X
ruby-position	X	X	X
scrollbar-3dlight-color	X	X	X
scrollbar-arrow-color	X	X	X
scrollbar-base-color	X	X	X
scrollbar-darkshadow-color	X	X	X
scrollbar-face-color	X	X	X
scrollbar-highlight-color	X	X	X
scrollbar-shadow-color	X	X	X
size	O	X	X
speak	O	X	X
-wap-accesskey	X	O	O



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-wap-input-format	X	O	O
-wap-input-required	X	O	O
-wap-marquee-style	X	O	X
-wap-marquee-loop	X	O	X
-wap-marquee-dir	X	O	X
-wap-marquee-speed	X	O	X

## SK Telecom Extension

**N** GB  
WMLScript,  
가

Pictogram,

### Pictogram

pictogram  
bullet  
pictogram

NGB

620 가

12x12

#### Example Code

```

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bullet

가 가



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가

- ① NATE.com
- ② WML2.0 Demo Site
- ③ WITOP Test Site
- ④ Browser Test
- ⑤ NATE Test

5 가 가

URL	Image Type
pict:///core/button/3	③
pict:///core/button/3_1	③
pict:///core/button/3_2	③
pict:///core/button/3_3	③
pict:///core/button/3_4	③

**pict:///core/button/3\_1**



(0~9)

Icon

가

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가

## SK Telecom WMLScript Extensions

### Multimedia Library (Library ID : 32000)

	<pre> "      1"      "      1"       1" "      2"가      . " Image type  1       kindofimage         </pre>
<b>Syntax</b>	setImage(url,title,kindofimage,imagetype);
<b>Library ID/Function ID</b>	32000 / 0
<b>Parameters</b>	<pre> url=string:  title=string:       .(Maximum Length: 20Bytes)  kindofimage=int 0:      Power On 1:      Power Off 2: 3;      RING 4:WAP  imagetype=int:  0:WBMP Type 0 1: SIS Type 2:bmp         </pre>
<b>Output</b>	<pre> int (0:      , 1001:Invalid_URL 1002:Not_Supported_Format 1003:INVALID_PARAMETER 1004:Invalid_Data_Format 1005:Overrange_Parameter 1:Undefined_Error)         </pre>
<b>Example</b>	Multimedia.setImage("http://www.skt.com/pretty.wbmp", " ",2,0);

### Phonebook Library (Library ID : 32002)

Phonebook



- 2, = 3
- MaxGroup, GroupID Int Type
- 4. SK\_\* 가 .( :1 - MaxShortKey) , MaxShortKey 가
- 5. Extension\_Flag . Extension\_Flag

Extension_Flag (Int)	No_Extension_Para (Int)	Extension_Para#	
00000000			
00000001	1		Entry
		Extension_Para1 : string(32Bytes)	
00000010	4		Entry
		Extension_Para1 : Int	/ ( :0, :1)
		Extension_Para2 : Int	( :1-12)
		Extension_Para3 : Int	( :1-31)
		Extension_Para4 : string(16Bytes)	
Not_Defined			

가 Extension\_Flag 0 가 Sum 가

- 6. Timestamp GTimestamp
- 7. cModify Entry 가 OffLine 'C(ASCII 67)', 'M(ASCII 77)', Sync ( , Script ) 'S(ASCII 83)' 가 , cModify 'C' OffLine cModify 'M' .('C' 가 .) Entry 'D(ASCII 68)' cModify 'D' Entry cModify Sync 가

Phonebook Entry	cModify	'C', 'M'
-----------------	---------	----------

	Entry ID
<b>wml Script</b>	isModifyAll(first,last);
<b>Library ID/Function ID</b>	32002 / 0
<b>Parameters</b>	First = int Last = int FIRST ENTRY ID , LAST ENTRY ID FIRST LAST ENTRY ID CMODIFY 'C', 'M' ENTRY ID
<b>Output</b>	string (Entry ID NULL : Entry ID ID .)
<b>Example</b>	SKPhonebook.isModifyAll();

	Phonebook Entry name EntryID( NULL)
<b>wml Script</b>	isExist(name);
<b>Library ID/Function ID</b>	32002 / 1
<b>Parameters</b>	name=string Phonebook Entry name name
<b>Output</b>	string (EntryID NULL) EntryID ,( )
<b>Example</b>	SKPhonebook.isExist("오");

	Phonebook Group groupname GroupID( NULL)
<b>wml Script</b>	isGroup(groupname);
<b>Library ID/Function ID</b>	32002 / 2
<b>Parameters</b>	groupname=string Phonebook Group group name
<b>Output</b>	string (GroupID NULL), NULL GroupID ,( )
<b>Example</b>	SKPhonebook.isGroup("가 ");

	가 가 (MaxEntry)
--	-------------------

<b>wml Script</b>	getMaxEntry();
<b>Library ID/Function ID</b>	32002 / 3
<b>Parameters</b>	
<b>Output</b>	string (MaxEntry NULL)
<b>Example</b>	SKPhonebook.getMaxEntry();

	가 가 (MaxGroup)
<b>wml Script</b>	getMaxGroup();
<b>Library ID/Function ID</b>	32002 / 4
<b>Parameters</b>	
<b>Output</b>	string (MaxGroup NULL) NULL
<b>Example</b>	SKPhonebook.getMaxGroup();

	가 가 (MaxShortKey)
<b>wml Script</b>	getMaxShortKey();
<b>Library ID/Function ID</b>	32003 / 5
<b>Parameters</b>	
<b>Output</b>	string (MaxShortKey NULL) NULL
<b>Example</b>	SKPhonebook.getMaxShortKey();

	가 Entry
<b>wml Script</b>	getPhonebook();
<b>Library ID/Function ID</b>	32002 / 6
<b>Parameters</b>	
<b>Output</b>	string : Entry
<b>Example</b>	SKPhonebook.getPhonebook();

	Entry EntryID Entry
<b>wml Script</b>	getDeletedEntry(first,last);
<b>Library ID/Function ID</b>	32002 / 7
<b>Parameters</b>	First = int Last = int FIRST , LAST ENTRY ID ENTRY ID FIRST LAST ENTRY ID ENTRY ENTRY ID
<b>Output</b>	string : Entry EntryID EntryID (,)



	Entry 가 ) Phonebook Entry 가 1 100 가 5 , 10 "5,10"
<b>Example</b>	SKPhonebook.getDeletedEntry();

<b>wml Script</b>	getGroup();
<b>Library ID/Function ID</b>	32002 / 8
<b>Parameters</b>	
<b>Output</b>	string ("GroupID,GroupName, GTimestamp [,GroupID,GroupName, Gtimestamp]" NULL) NULL
<b>Example</b>	SKPhonebook.getGroup(); ) "1,가 , -1,2, ,57890000, 3, , -2147483648" 1 가 2 3 가 GTimestamp

	GroupID Phonebook Overwrite
<b>wml Script</b>	setGroup(GroupID, groupname);
<b>Library ID/Function ID</b>	32002 / 9
<b>Parameters</b>	GroupID=int GroupID groupname=string "GroupName" "가 " Timestamp GTimestamp
<b>Output</b>	int (0: , 1001:Invalid_URL 1002:Not_Supported_Format 1003:Invalid_Parameter 1004:Invalid_Data_Format 1005:Overrange_Parameter 1007:Same_Group_Name ( ,

	) 1:Undefined_Error )
<b>Example</b>	SKPhonebook.setGroup(3,“ ”);

	EntryID 가 Entry .
<b>wml Script</b>	getEntry(EntryID);
<b>Library ID/Function ID</b>	32002 / 10
<b>Parameters</b>	EntryID=int Entry EntryID .
<b>Output</b>	string (Entry ID : Entry ) <b>Option Field</b> , ( ) 가 .  “GroupID,Name,Home,SK_Home,Add_Home ,Mobile,SK_Mobile,Pager,SK_Pager,School, SK_School,Add_School,FAX,Email,Extension _Flag,[+No_Extension_Para,Extension_Para1 ,Extension_Para2,...]Timestamp” “2, ,08228133142,12,,0117260732,,0 1232671234,,,,,bluetooth @n- top.com,0,56789000” “2, ,08228133142,12,,0117260732,,0 1232671234,,,,,bluetooth @n- top.com,3,56789000” “2, ,08228133142,12,,0117260732,,0 1232671234,,,,,bluetooth @n- top.com,3+1, +4,0,12,12, ,56 789000” “2, ,08228133142,12,,0117260732,,0 1232671234,,,,,bluetooth @n- top.com,3+1,+4,0,12,12, ,56789000” 가 Entry 가 가
<b>Example</b>	SKPhonebook.getEntry(11);

	EntryID 가 Entry .
<b>wml Script</b>	deleteEntry(EntryID);
<b>Library ID/Function ID</b>	32002 / 11
<b>Parameters</b>	EntryID=int Entry EntryID .
<b>Output</b>	int (0: , 1001:Invalid_URL 1002:Not_Supported_Format 1003:Invalid_Parameter

	1004:Invalid_Data_Format 1005:Overrange_Parameter 1006:Empty_Entry 1:Undefined_Error )
<b>Example</b>	SKPhonebook.deleteEntry(102);

	EntryID                      Phonebook  Overwrite
<b>wml Script</b>	setEntry(EntryID,data);
<b>Library ID/Function ID</b>	32002 / 12
<b>Parameters</b>	EntryID=int Entry                      EntryID data=string "GroupID,Name,Home,SK_Home,Add_Home ,Mobile,SK_Mobile,Pager,SK_Pager,School, SK_School,Add_School,FAX,Email,Extension _Flag[+No_Extension_Para,Extension_Para1, Extension_Para2...]" "2,                      ,08228133142,12,,0117260732,,0 1232671234,,,,,bluetooth @n-top.com,0" Entry                      Timestamp . data    Option Field
<b>Output</b>	int (0: 1001:Invalid_URL 1002:Not_Supported_Format 1003:Invalid_Parameter 1004:Invalid_Data_Format 1005:Overrange_Parameter 1007:Same_Entry_Name ( , Entry  )  1:Undefined_Error)
<b>Example</b>	SKPhonebook.setEntry("12","2,                      , 08228133142, 12,, 011 7260732,, 01232671234,,,,,bluetooth@n-top.com,0")

	Sync
<b>wml Script</b>	GetVerID();
<b>Library ID/Function ID</b>	32002 / 13
<b>Parameters</b>	
<b>Output</b>	string

<b>Example</b>	<pre>SKPhonebook.getVerID(); ) "1.0" , "1.3" Sync "1.0" .</pre>
----------------	---

**Terminal Library (Library ID : 32001)**

	url .
<b>wml Script</b>	seturl(url,kindofurl);
<b>Library ID/Function ID</b>	32001 / 0
<b>Parameters</b>	<pre>url=string: url .  Kindofurl=int 0: url 1: wap gateway 2: n-top e-mail</pre>
<b>Output</b>	<pre>int (0: , 1001:Invalid_URL 1002:Not_Supported_Format 1003:INVALID_PARAMETER 1004:Invalid_Data_Format 1005:Overrange_Parameter 1:Undefined_Error)</pre>
<b>Example</b>	Terminal.seturl("http://wap.n-top.com",0);

# NGB Menu

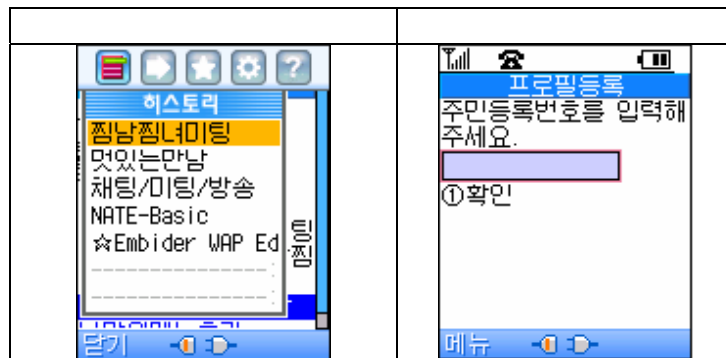
UI

UI

가

5

가



UI

UI



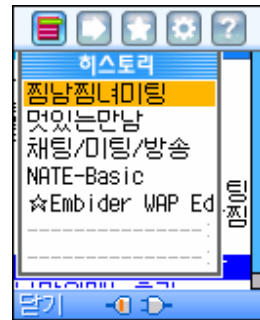
가

가

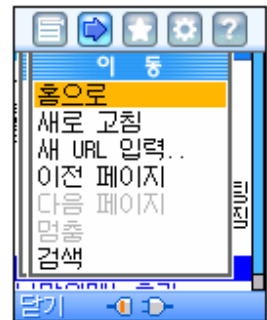
가

10

가



가

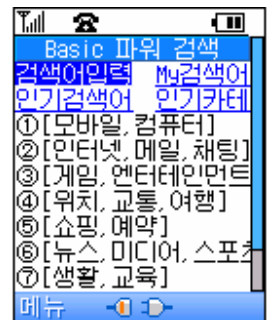


URL

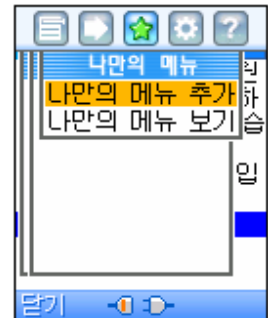
URL



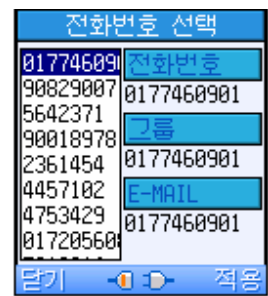
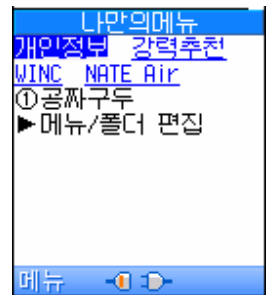
NATE

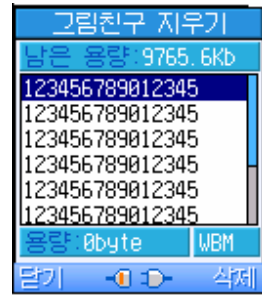


가 “ ”



“ ”





가

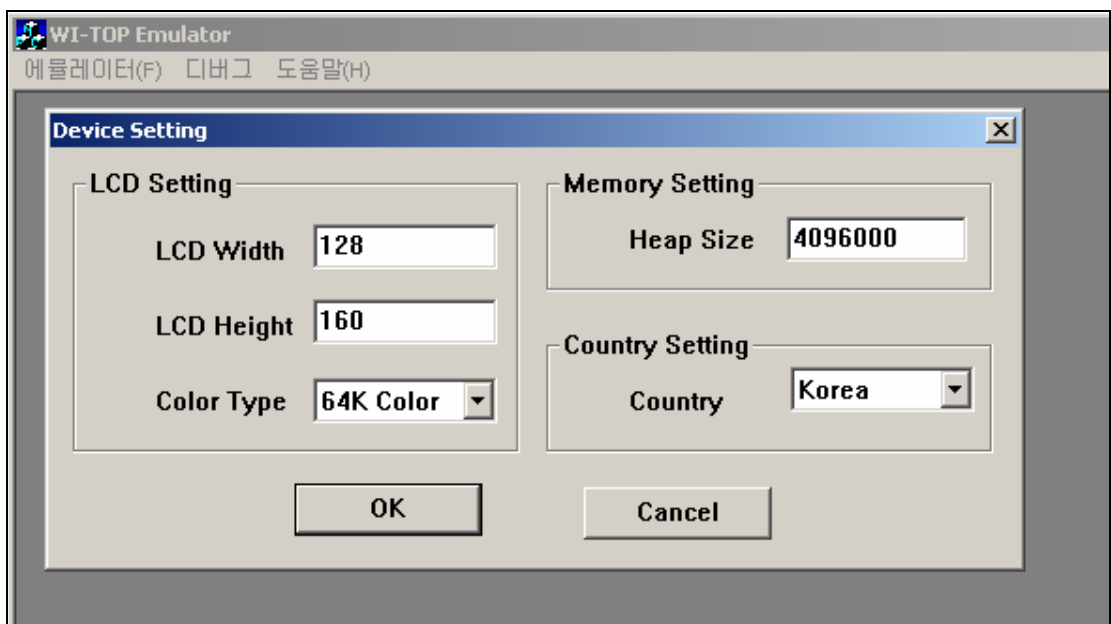




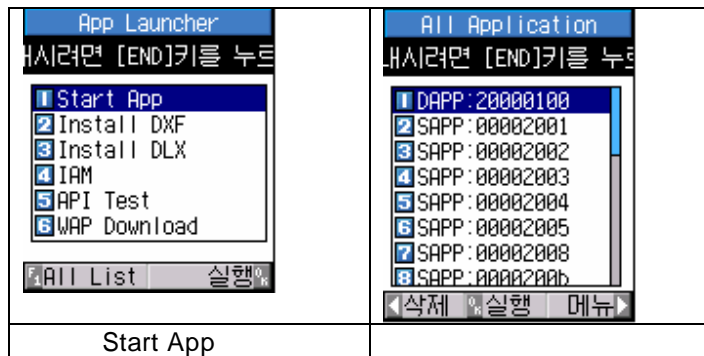
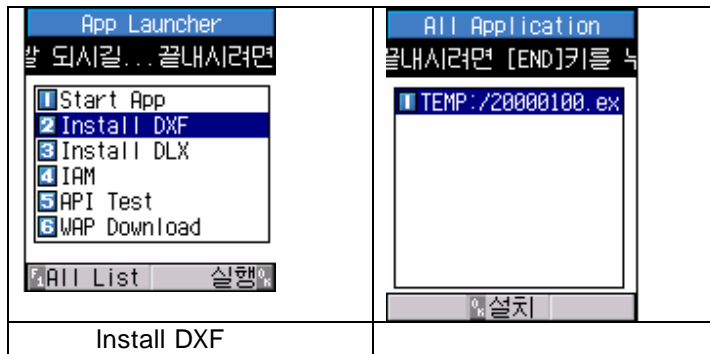
# NGB

## Wi-Top

NGB  
가 → Device Setting (CTRL-D)  
Memory Setting Heap Size  
LCD LCD LCD



(.exf) → EXF Download (CTRL-N) 가



# NGB

## XHTML

XHTML (well-formed document) error

### 1. XML Prologue DOCTYPE

. XML Prologue

. XML Prologue

가

```
<?xml version="1.0" encoding="ks_c_5601-1987"?>
```

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML Basic 1.0//EN"
"http://www.w3.org/TR/XHTML-basic/XHTML-basic10.dtd">
```

```
<html>
```

```
<body title = "XHTML" >
```

```
<p>
```

```
<a href="test.XHTML">XHTML </a><br/>
```

```
<a accesskey="vnd.up" href = "../index.wml" />
```

```
</p>
```

```
</body>
```

```
</html>
```

DOCTYPE

<b>XHTML</b>	<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML Basic 1.0//EN" "http://www.w3.org/TR/XHTML-basic10.dtd">
<b>WML 1.3</b>	<!DOCTYPE wml PUBLIC "-//WAPFORUM//DTD wml 1.3//EN" "http://www.wapforum.org/DTD/wml13.dtd">
<b>WML 2.0</b>	<!DOCTYPE wml PUBLIC "-//WAPFORUM//DTD wml 2.0//EN" "http://www.wapforum.org/DTD/wml20.dtd">

## 2. Tag

html                      wml    XHTML                                      tag    attribute

## 3. Attribute    Value

attribute    value                      ("")

```
height="55"
```

## 4. Closing Tags

HTML                      WML, XHTML                                      tag

가                                      가                                      .

```
Tag
<p></p>

Empty Tag
<br />
```

Note

XHTML                                      가                                      가                                      .

item <br />  
another item <br />  
a third item <br />

<ul>  
<li>item</li>  
<li>another item</li>

```
</li>a third item</li>
</ul>
```

## Sample

### Table + WCSS Sample

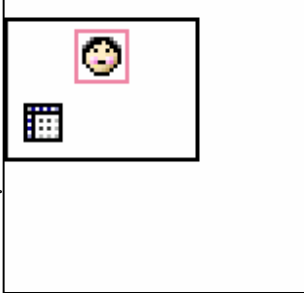
NGB table WCSS layout 가 .  
 NGB 가 가 .

**(1) Table Example 1**

Table border style="border-style:solid"  
 align="center" cell align  
 accesskey biding

```
<table width="50%" style="border-style:solid">
  <tr><td align="center">
    <a accesskey="1" href="./music.wml">
      
    </a></td></tr>

  <tr><td>
    <a accesskey="2" href="./index.wml">
      
    </a></td></tr>
</table>
```

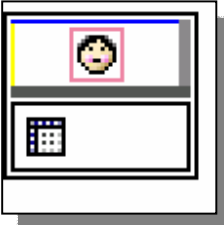


**(2) Table Example 2**

cell border border

```
<table width="50%" style="border-style:solid">
  <tr><td align="center"
    style="border-color:blue;
    border-style:solid;
    border-left-color:yellow;
    border-right-color:#888888;
    border-bottom-color:#555555;
    border-right:3px;
    border-bottom:3px;">
    <a accesskey=1 href="./music.wml">
      
    </a></td></tr>

  <tr><td style="border-style:solid;border-color:black">
    <a accesskey=2 href="./index.wml">
      
    </a></td></tr>
</table>
```



Tip	
table	tag width 가 %
LCD	가 %
	가

### External CSS

```
<head>
<title> </title>
<link rel="stylesheet" type="text/css"
href="http://www.rocode.co.kr/Color256.css"/>
</head>
```

```
http://www.rocode.co.kr/Color256.css
a {text-decoration:none; color:#00008b}
do { text-decoration:none; color:#00008b; background:#afeeee;}
body { height:100%; background:#afeeee; font-face: ;}
hr {color:#6495eb}
table {background:#9370db; width:100%}
table.01 {background:#87ceeb; width:100%}
table.02 {background:#afeeee; width:100%}
td {text-align:center; color:#ffffff;}
td.left {text-align:left}
```

Tip	
Page	default style sheet , 가
	style sheet . 256 6 5
	style sheet 가

NATE Sample



(1) Table background-color

```
<table style="background-color:#6fb9ff">
<tr>
<td width=52>
<a href="index.wml">

</a>
</td>
<td>

</td>
</tr>
</table>
```



(2) Ima ALT " "

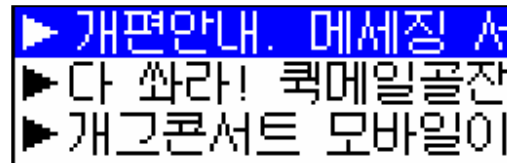
```

```



(3) P style /

```
<p style="color:#30235e;font-weight:800;background-color:#8cd2ea">
 /
```



(4) Do label 가

```
<do label=" " />
<do label=" ! " />
<do label=" " />
```

## NATE Basic Sample



### NATE Basic

#### (1) Table background-image style

```
<td style="background-image:
URL(/img/titleback_32C.bmp);">
<p align="center">
<span style="color:white">NATE Basic</span>
</p>
</td>
```



#### (2) bullet

```
<do localsrc="pict:///core/arrow/upperRight"
label="[ ] * " />
```



# WML to XHTML Migration

NGB

XHTML

XHTML

WML

## Prologue

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML Basic 1.0//EN" "http://www.w3.org/TR/xhtml-
basic/xhtml1-basic10.dtd">
```

## Structure

1. <wml>

<html>

2. <head>

3. <card>

<body>

wml           xhtml

xhtml

get/post

body 가

card

variable

card 가

card

4. `<card title="TEST">`

`card title <body title="TEST"> <title>TEST</title>`

## Anchor

1. `<do type="vnd.up" label=" " "><go href="test.xhtml"></do>`

wml : do, wml : go

`<a accesskey="1">`  
`<wml:do type = "vnd.up"><wml:go href = " test.xhtml" /></wml:do>`

`<a></a>` tag

2. `<anchor><go href="section.xhtml"/> 가 </anchor>`

WML `<a href="section.xhtml"> 가 </a>`

## Input

1. `<do> <input> variable`

WML do input \$(var1)

, XHTML

form , WMLScript

WML	XHTML
<pre>&lt;anchor title="GET Test"&gt; &lt;go href="Login.asp" method="post"&gt; &lt;postfield name="id" value="\$ (id)" /&gt; &lt;postfield name="pwd" value="\$ (pwd)" /&gt; &lt;postfield name="save" value="\$ (save)" /&gt; &lt;/go&gt;&lt;/anchor&gt;</pre>	<pre>&lt;form action="Login.php" method="post"&gt; &lt;input type="text" name="id"&gt; &lt;input type="text" name="pwd"&gt; &lt;input type="hidden" name="save"&gt; &lt;/form&gt;</pre>

2. `<setvar> <getvar> variable`

가 . XHTML































`<form> <input> HTML`














































## Event














































WML	XHTML
<pre>&lt;card ontimer=" cartoon_2.wml "&gt;   &lt;timer value="10"/&gt; &lt;/card&gt;</pre>	<pre>&lt;head&gt; &lt;meta http-equiv="refresh" content="10;URL=cartoon_2.wml" /&gt; &lt;/head&gt;</pre>














































## A














































## Pictogram

Pictogram URL	Image
pict:///adult/condom	
pict:///adult/condom_1	
pict:///adult/cushion	
pict:///adult/fiction	
pict:///adult/heart_1	
pict:///adult/heart_2	
pict:///adult/heart_3	
pict:///adult/kiss	
pict:///adult/mark	
pict:///adult/warning	
pict:///animal/ant	
pict:///animal/bear	
pict:///animal/beetle	
pict:///animal/cat	
pict:///animal/chicken	
pict:///animal/dog	
pict:///animal/fish	
pict:///animal/horse	
pict:///animal/ladybird	
pict:///animal/monkey	
pict:///animal/octopus	
pict:///animal/penguin	
pict:///animal/pig	
pict:///animal/rabbit	
pict:///animal/rat	
pict:///animal/tiger	
pict:///animal/whale	
pict:///appliance/antenna	
pict:///appliance/balloon	
pict:///appliance/camera	














































pict:///appliance/disk	
pict:///appliance/fax	
pict:///appliance/mobilePhone	
pict:///appliance/mobilePhone_1	
pict:///appliance/mobilePhone_2	
pict:///appliance/mobilePhone_3	
pict:///appliance/pager	
pict:///appliance/pc	
pict:///appliance/pc_1	
pict:///appliance/pc_2	
pict:///appliance/pc_3	
pict:///appliance/pc_4	
pict:///appliance/pc_5	
pict:///appliance/pc_6	
pict:///appliance/phone	
pict:///appliance/phone_1	
pict:///appliance/phone_2	
pict:///appliance/phone_3	
pict:///appliance/phone_4	
pict:///appliance/phone_5	
pict:///appliance/phone_6	
pict:///appliance/phone_7	
pict:///astronomy/earth	
pict:///astronomy/moon	
pict:///astronomy/star	
pict:///astronomy/sun	
pict:///body/face/head_1	
pict:///body/face/head_2	
pict:///body/face/head_3	
pict:///body/face/head_4	
pict:///body/face/head_5	
pict:///body/face/head_6	
pict:///body/face/head_7	
pict:///body/face/smile_01	
pict:///body/face/smile_02	
pict:///body/face/smile_03	
pict:///body/face/smile_04	
pict:///body/face/smile_05	
pict:///body/face/smile_06	
pict:///body/face/smile_07	
pict:///body/face/smile_08	
pict:///body/face/smile_09	
pict:///body/face/smile_10	
pict:///cartoon/cartoon_1	
pict:///cartoon/cartoon_2	














































pict:///cartoon/cartoon_3	
pict:///cartoon/cartoon_4	
pict:///cartoon/cartoon_5	
pict:///cartoon/cartoon_6	
pict:///cartoon/cartoon_7	
pict:///cartoon/cartoon_8	
pict:///cartoon/character	
pict:///chineseZodiac/boar	
pict:///chineseZodiac/cock	
pict:///chineseZodiac/dog	
pict:///chineseZodiac/dragon	
pict:///chineseZodiac/horse	
pict:///chineseZodiac/monkey	
pict:///chineseZodiac/ox	
pict:///chineseZodiac/rabbit	
pict:///chineseZodiac/rat	
pict:///chineseZodiac/sheep	
pict:///chineseZodiac/snake	
pict:///chineseZodiac/tiger	
pict:///core/action/back	
pict:///core/action/clear	
pict:///core/action/find	
pict:///core/action/makePhoneCall	
pict:///core/action/next	
pict:///core/action/nextItem	
pict:///core/action/password	
pict:///core/action/stop	
pict:///core/action/top	
pict:///core/action/userAuthentication	
pict:///core/arrow/down	
pict:///core/arrow/down_1	
pict:///core/arrow/down_2	
pict:///core/arrow/down_3	
pict:///core/arrow/down_4	
pict:///core/arrow/fingerDown	
pict:///core/arrow/fingerLeft	
pict:///core/arrow/fingerRight	
pict:///core/arrow/fingerUp	
pict:///core/arrow/left	
pict:///core/arrow/left_1	
pict:///core/arrow/left_2	
pict:///core/arrow/left_3	
pict:///core/arrow/left_4	
pict:///core/arrow/lowerLeft	
pict:///core/arrow/lowerRight	














































pict:///core/arrow/right	
pict:///core/arrow/right_1	
pict:///core/arrow/right_2	
pict:///core/arrow/right_3	
pict:///core/arrow/right_4	
pict:///core/arrow/up	
pict:///core/arrow/up_1	
pict:///core/arrow/up_2	
pict:///core/arrow/up_3	
pict:///core/arrow/up_4	
pict:///core/arrow/upperLeft	
pict:///core/arrow/upperRight	
pict:///core/button/0	
pict:///core/button/0_1	
pict:///core/button/0_2	
pict:///core/button/0_3	
pict:///core/button/0_4	
pict:///core/button/1	
pict:///core/button/1_1	
pict:///core/button/1_2	
pict:///core/button/1_3	
pict:///core/button/1_4	
pict:///core/button/2	
pict:///core/button/2_1	
pict:///core/button/2_2	
pict:///core/button/2_3	
pict:///core/button/2_4	
pict:///core/button/3	
pict:///core/button/3_1	
pict:///core/button/3_2	
pict:///core/button/3_3	
pict:///core/button/3_4	
pict:///core/button/4	
pict:///core/button/4_1	
pict:///core/button/4_2	
pict:///core/button/4_3	
pict:///core/button/4_4	
pict:///core/button/5	
pict:///core/button/5_1	
pict:///core/button/5_2	
pict:///core/button/5_3	
pict:///core/button/5_4	
pict:///core/button/6	
pict:///core/button/6_1	
pict:///core/button/6_2	














































pict:///core/button/6_3	
pict:///core/button/6_4	
pict:///core/button/7	
pict:///core/button/7_1	
pict:///core/button/7_2	
pict:///core/button/7_3	
pict:///core/button/7_4	
pict:///core/button/8	
pict:///core/button/8_1	
pict:///core/button/8_2	
pict:///core/button/8_3	
pict:///core/button/8_4	
pict:///core/button/9	
pict:///core/button/9_1	
pict:///core/button/9_2	
pict:///core/button/9_3	
pict:///core/button/9_4	
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





















































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






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## Icon

**Icon**      **URL**    <http://203.236.43.23/ngb/img>

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