

Project Name	DS_CommonAPI DLL	Doc. Type	User Manual
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Date	2015-03-08	Writer	Jin. J.E

1.1. Model Key Define

1.1.1. DS5 Model 34 or 54 Keypad

Referring to the keypad key codes ASCII table and, in the case of the keys labeled with numbers must be careful because the mapping is different, each has the OS version.



Index	Key Desc	WCE	WM(No Phone)	WM(Phone)
1	Function Key #1	0xD7	0x70	0x72
2	Function Key #2	0xD8	0x71	0x73
3	Volume up	0xE1	0x75	0x75
4	Volume down	0xE3	0x76	0x76

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1.1.2. DS5 34 Key MAP Table : Orange mode key table it is fixed, can not change.

34KEY VKEY_MODE							
Index	Key PAD	Index	Key PAD	Index	Key PAD	Index	Key PAD
0	0	20		40		60	RETURN
1	1	21		41		61	TALK
2	2	22		42		62	END
3	3	23		43		63	PERIOD
4	4	24		44		64	ESCAPE
5	5	25		45		65	UP
6	6	26		46		66	F1
7	7	27		47		67	F2
8	8	28		48		68	F3
9	9	29		49		69	F4
10		30		50	Mode Blue	70	F5
11		31		51	Mode Orange	71	
12		32		52	LIGHT	72	
13		33		53	SHIFT	73	
14		34		54	SPACE	74	CENTER SCAN
15		35		55	BACK SPACE	75	LEFT SCAN
16		36		56	DOWN	76	RIGHT SCAN
17		37		57	TAB	77	CONTROL
18		38		58	RIGHT		
19		39		59	LEFT		

34KEY FKEY_MODE (Blue Mode)							
Index	Key PAD	Index	Key PAD	Index	Key PAD	Index	Key PAD
0	+	9	(0)	18	LIGHT(+)	27	(TAB)
1	-	10	F6	19	VOL(+)	28	(ENTER)
2	*	11	F7	20	VOL(-)	29	(SPACE)
3	/	12	F8	21	(TALK)	30	(BACK-SPACE)
4	(5)	13	F9	22	(END)		
5	#	14	F10	23	(SCAN C)		
6	(7)	15	WIN	24	(SCAN L)		
7	(8)	16	ALT(menu)	25	(SCAN R)		
8	(9)	17	LIGHT(-)	26	(ESC)		

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1.1.3. DS5 54 Key MAP Table

54KEY VKEY_MODE							
Index	Key PAD	Index	Key PAD	Index	Key PAD	Index	Key PAD
0	0	20		40		60	RETURN
1	1	21		41		61	TALK
2	2	22		42		62	END
3	3	23		43		63	PERIOD
4	4	24		44		64	ESCAPE
5	5	25		45		65	UP
6	6	26		46		66	
7	7	27		47		67	
8	8	28		48		68	
9	9	29		49		69	
10		30		50	Mode Blue	70	
11		31		51	Mode Orange	71	
12		32		52	LIGHT	72	
13		33		53	SHIFT	73	
14		34		54	SPACE	74	CENTER SCAN
15		35		55	BACK SPACE	75	LEFT SCAN
16		36		56	DOWN	76	RIGHT SCAN
17		37		57	TAB	77	CONTROL
18		38		58	RIGHT		
19		39		59	LEFT		

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54KEY FKEY_MODE (Blue Mode)

Index	Key PAD	Index	Key PAD	Index	Key PAD	Index	Key PAD
0	F1	13	/	26	&	39	VOL(+)
1	F2	14	=	27	'	40	VOL(-)
2	F3	15	<	28	"	41	WIN
3	F4	16	>	29	(42	SPACE
4	F5	17	:	30)	43	BACK TAB
5	F6	18	;	31		44	(TALK)
6	F7	19	.	32	~	45	(END)
7	F8	20	?	33	!	46	(SCAN C)
8	F9	21	@	34	(Y)	47	(SCAN L)
9	F10	22	#	35	(Z)	48	(SCAN R)
10	+	23	\$	36	ALT(menu)	49	(ESC)
11	-	24	%	37	LIGHT(+)	50	(ENTER)
12	*	25	^	38	LIGHT(-)		

54KEY AKEY_MODE (Orange Mode)

Index	Key PAD	Index	Key PAD	Index	Key PAD	Index	Key PAD
0	F11	13	(D)	26	(Q)	39	(UP)
1	F12	14	(E)	27	(R)	40	(DOWN)
2	F13	15	(F)	28	(S)	41	(.)
3	F14	16	(G)	29	(T)	42	(BACK SPACE)
4	F15	17	(H)	30	(U)	43	(TAB)
5	F16	18	(I)	31	(V)	44	(TALK)
6	F17	19	(J)	32	(W)	45	(END)
7	F18	20	(K)	33	(X)	46	(SCAN C)
8	F19	21	(L)	34	(Y)	47	(SCAN L)
9	F20	22	(M)	35	(Z)	48	(SCAN R)
10	(A)	23	(N)	36	(CTRL)	49	(ESC)
11	(B)	24	(O)	37	(LEFT)	50	(ENTER)
12	(C)	25	(P)	38	(RIGHT)		

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1.1.4. KEY Remap API Function

Function	DSAPI_EXC DSAPI BOOL DSAPIKeyMapping_Query <i>Key remap register query function.</i> <i>DS3(WM), DS3.1(WM), DS5(WCE6, WM) Model supported</i>
Parameter	DS_KEY_MODE enKeyMode,
Description	DS_KEY_MODE enKeyMode VKEY_MODE = 1, //DS3 & DS3.1 & DS5 34Key & DS5 54Key FKEY_MODE = 2, //DS5 34Key & DS5 54Key BLUE Key Table AKEY_MODE = 3, //DS5 54Key only, ORANGE Key Table An application can use the <u>DSAPIKeyMapping_RegisterKeyA</u> and <u>DSAPIKeyMapping_UnregisterKeyA</u> function to set key values.

Function	DSAPI_EXC DSAPI BOOL DSAPIKeyMapping_Flush <i>Key remap register query function.</i> <i>DS3(WM), DS3.1(WM), DS5(WCE6, WM) Model supported</i>
Parameter	DS_KEY_MODE enKeyMode,
Description	DS_KEY_MODE enKeyMode VKEY_MODE = 1, //DS3 & DS3.1 & DS5 34Key & DS5 54Key FKEY_MODE = 2, //DS5 34Key & DS5 54Key BLUE Key Table AKEY_MODE = 3, //DS5 54Key only, ORANGE Key Table The key value is changed to <u>DSAPIKeyMapping_RegisterKeyA</u> and <u>DSAPIKeyMapping_UnregisterKeyA</u> function is applied.

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Function	DSAPI_EXC DSAPI BOOL DSAPIKeyMapping_RegisterKeyA <i>Key remap register function.</i> <i>DS3(WM), DS3.1(WM), DS5(WCE6, WM) Model supported</i>
Parameter	DS_KEY_MODE enKeyMode, UINT nIndex, BYTE btKeyCode
Description	DS_KEY_MODE enKeyMode VKEY_MODE = 1, //DS3 & DS3.1 & DS5 34Key & DS5 54Key FKEY_MODE = 2, //DS5 34Key & DS5 54Key BLUE Key Table AKEY_MODE = 3, //DS5 54Key only, ORANGE Key Table UINT nIndex Key Map Table Index (1.1.2 , 1.1.3 Table reference) BYTE btKeyCode To Change the key.

Function	DSAPI_EXC DSAPI BOOL DSAPIKeyMapping_UnregisterKeyA <i>Key remap unregister function.</i> <i>DS3(WM), DS3.1(WM), DS5(WCE6, WM) Model supported</i>
Parameter	DS_KEY_MODE enKeyMode, UINT nIndex
Description	DS_KEY_MODE enKeyMode VKEY_MODE = 1, //DS3 & DS3.1 & DS5 34Key & DS5 54Key FKEY_MODE = 2, //DS5 34Key & DS5 54Key BLUE Key Table AKEY_MODE = 3, //DS5 54Key only, ORANGE Key Table UINT nIndex Key Map Table Index (1.1.2 , 1.1.3 Table)

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1.2. Key remap sample(c#)

1.2.1. Arrow key Disable/Enable sample

DS5 54Key(34Key) Arrow key disable(0x00 set) setting

```

if (DS_CommonAPI.DSAPIKeyMapping_Query(DS_CommonAPI.DS_KEY_MODE.VKEY_MODE))
{
    DS_CommonAPI.DSAPIKeyMapping_RegisterKeyA(DS_CommonAPI.DS_KEY_MODE.VKEY_MODE, 56, 0x00);
    DS_CommonAPI.DSAPIKeyMapping_RegisterKeyA(DS_CommonAPI.DS_KEY_MODE.VKEY_MODE, 58, 0x00);
    DS_CommonAPI.DSAPIKeyMapping_RegisterKeyA(DS_CommonAPI.DS_KEY_MODE.VKEY_MODE, 59, 0x00);
    DS_CommonAPI.DSAPIKeyMapping_RegisterKeyA(DS_CommonAPI.DS_KEY_MODE.VKEY_MODE, 65, 0x00);

    DS_CommonAPI.DSAPIKeyMapping_Flush(DS_CommonAPI.DS_KEY_MODE.VKEY_MODE);
}

```

DS5 54Key(34Key) Arrow key enable setting

```

if (DS_CommonAPI.DSAPIKeyMapping_Query(DS_CommonAPI.DS_KEY_MODE.VKEY_MODE))
{
    DS_CommonAPI.DSAPIKeyMapping_UnregisterKeyA(DS_CommonAPI.DS_KEY_MODE.VKEY_MODE, 56);
    DS_CommonAPI.DSAPIKeyMapping_UnregisterKeyA(DS_CommonAPI.DS_KEY_MODE.VKEY_MODE, 58);
    DS_CommonAPI.DSAPIKeyMapping_UnregisterKeyA(DS_CommonAPI.DS_KEY_MODE.VKEY_MODE, 59);
    DS_CommonAPI.DSAPIKeyMapping_UnregisterKeyA(DS_CommonAPI.DS_KEY_MODE.VKEY_MODE, 65);

    DS_CommonAPI.DSAPIKeyMapping_Flush(DS_CommonAPI.DS_KEY_MODE.VKEY_MODE);
}

```

1.2.2. Window key Disable/Enable sample

DS5 34Key Window key disable(0x00 set) setting. (if 54Keypad is index 41 of FKEY_MODE)

```

if (DS_CommonAPI.DSAPIKeyMapping_Query(DS_CommonAPI.DS_KEY_MODE.FKEY_MODE))
{
    DS_CommonAPI.DSAPIKeyMapping_RegisterKeyA(DS_CommonAPI.DS_KEY_MODE.FKEY_MODE, 15, 0x00);
    DS_CommonAPI.DSAPIKeyMapping_Flush(DS_CommonAPI.DS_KEY_MODE.FKEY_MODE);
}

```

DS5 34Key Window key enable setting

```

if (DS_CommonAPI.DSAPIKeyMapping_Query(DS_CommonAPI.DS_KEY_MODE.FKEY_MODE))
{
    DS_CommonAPI.DSAPIKeyMapping_UnregisterKeyA(DS_CommonAPI.DS_KEY_MODE.FKEY_MODE, 15);
    DS_CommonAPI.DSAPIKeyMapping_Flush(DS_CommonAPI.DS_KEY_MODE.FKEY_MODE);
}

```

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1.2.3. Windows mobile F5/F6 (system volume) key disable/enable sample

DS5 34Key F5.F6Key used setting (if 54Keypad is index 0,1 of FKEY_MODE)

```

if (DS_CommonAPI .DSAPIKeyMapping_Query(DS_CommonAPI .DS_KEY_MODE .VKEY_MODE))
{
    DS_CommonAPI .DSAPIKeyMapping_RegisterKeyA(DS_CommonAPI .DS_KEY_MODE .VKEY_MODE, 66, 0x70);
    DS_CommonAPI .DSAPIKeyMapping_RegisterKeyA(DS_CommonAPI .DS_KEY_MODE .VKEY_MODE, 67, 0x71);

    DS_CommonAPI .DSAPIKeyMapping_Flush(DS_CommonAPI .DS_KEY_MODE .VKEY_MODE);
}

```

DS5 34Key F5.F6key system default volume key setting

```

if (DS_CommonAPI .DSAPIKeyMapping_Query(DS_CommonAPI .DS_KEY_MODE .VKEY_MODE))
{
    DS_CommonAPI .DSAPIKeyMapping_UnregisterKeyA(DS_CommonAPI .DS_KEY_MODE .VKEY_MODE, 66);
    DS_CommonAPI .DSAPIKeyMapping_UnregisterKeyA(DS_CommonAPI .DS_KEY_MODE .VKEY_MODE, 67);

    DS_CommonAPI .DSAPIKeyMapping_Flush(DS_CommonAPI .DS_KEY_MODE .VKEY_MODE);
}

```