

## ORPB-AirInterface Change Notice v.1.1.0

Date	2012年11月8日
Name	Dai Muto
Company	Sierra Wireless Inc
Model	MC8795V (51B)

Applicable file (Document ID)		RNP-Sierra Wireless-MC8790V_20091119
Technology regulation certification Plan date	HW for evaluation	1-Aug-12
	HW for mass production	1-Aug-12
Declaration by the vendor		Firmware bugfixes and enhancements. The latest firmware (2012/11/09) Customers: TOMEN ELECTRONICS

- Air Interface, while generally referring to the interface between user equipment (UE) and base transceiver station (BTS), also includes the interface between UE and USIM in this notice.
- This notice is intended to report changes in hardware/software (protocol processing/UI) corresponding to the above-mentioned interface.
- This change notice shall be submitted also for a newly developed terminal (Master terminal) for the comprehension of its basic and detail information.
- Existence of change in Air Interface will be judged based on "Basic&details(by the vender)" to determine whether real network permit test can be conducted.
- This notice is used to select test items to be performed by the vendor or by SoftBankMobile for development verification/acceptance testing.
- When it is determined that real network permit test is unnecessary, previously granted real network permit shall be attached to this notice and be applied.  
In this case, the document ID of previously granted real network permit (Master model) shall be stated in above "Applicable file" field.  
If there are more than one Master model, as many document ID numbers should be stated.
- Vendors are requested to attach materials separately if detailed functional explanation is considered necessary.
- If a software for current model is installed to the hardware of past models and tested, this change notice should be reported twice.  
First change notice should report differences of softwares and second one should report differences of hardwares in addition to them immediately after the hardware for current model is completed.

Development Dept, Bearer Development Dept.  
SoftBank Mobile Corp.

\*1 Yellow columns are critical items in checking functional differences of Present model.

\*2 Master: UE with Real Network Permit, Present: UE to apply for Real Network Permit

Previous: One of model variations which applied for Air Interface before UE to apply for Real Network Permit and obtained the permit.

\*3 Air Interface-related items: Radio, Voice, PS, SMS, SS, USIM, Restriction Control

\*4 If there is any change, please submit pictures clearly showing the shapes and places of implemented antennas or submit the figures of them.

\*5 Please fill in taking into account of the possibility of impacting radio performances (Antenna transmission characteristics test /FT test).

\*6 Modules of protocol stack in use shall be specified when IWLAN function is supported.

\*7 Any updates shall be indicated in red color and be submitted each time.

**Basic Information (Differences from Master to be entered in 'Previous' and 'Present' columns)**

		Master (*2)	Previous	Present
Model name (Name only of present model)		MC8790V	MC8795V (50B)	MC8795V (51B)
UI changes related to Air Interface (*3)				
Chipset	BB	Name	MSM6290	MSM6290
		SW(FW) / HW Ver.	K2.0.7.3x/HW Ver 1.1	K2.0.7.50B/HW Ver 1.1
	RF	Name	RTR6285	RTR6285
		SW(FW) / HW Ver.	HW rev 13	HW rev 13
		Bands(UMTS)	850/800, 1900, 2100	850/800, 900, 1900, 2100
		Bands(GSM)	850, 900, 1800, 1900	850, 900, 1800, 1900
	WLAN	Name	-	-
		SW(FW) / HW Ver.	-	-
		Bands	-	-
		IPSec module	-	-
Body	Shape	Minicard	Minicard	
	Antenna	Position of implementation	-	
	Exterior (*5)	Changes of radio circuit	-	
		Changes of how to hold	-	
Protocol stack	IWLAN (*6)	TCP/IP	-	
		IKEv2	-	
		EAP-AKA	-	
		Cryptography processing	-	

Remarks
FW update history: * Fix the bug that +CHLD doesn't return when CS voice call and PS data call are simultaneous * AT+CFUN state is changed to 0 if toggling W_DISABLE switch ON/OFF

**Functional differences of Present model (If there is any functional differences between Previous model and Present model, please enter details in each impacted field.)**

New, Added, Changed, and Deleted functions of previous model (including hardware)

Test item list of the same release version as this notice shall be applicable to below items.

Document ID	Sheet name	Category No.	Category name	Date	Supported function/difference	Brief description	Function/category details	Appl./UI/IF
<b>BearerTestList-Femto</b>					MC8795V (50B)			
	Femto	1	SA&R					
		2	RAN					
		3	NC					
		4	EMR					
		5	SS					
		6	PS					
		7	SMS					
		8	HSDPA					
		10	IMS					
		-	Other					
<b>BearerTestList-FT</b>					MC8795V (50B)			
	FT_A	1	Connectivity Performance Test					
		2	Retainability Performance Test					
		3	Throughput Performance Test					
		4	Marginal Performance Test					
		5	Integrated Performance Test					
		-	Other					
	FT_B	1501	Connectivity Performance Test					
		1502	Retainability Performance Test					
		1503	Throughput Performance Test					
		-	Other					

<b>BearerTestList-GSM</b>				MC8795V (50B)				
GSM	1	Handover						
	2	Cell reselection						
	3	Cell barred						
	4	Ciphering						
	5	Frequency Hopping						
	6	Coding Scheme						
	7	System Access & Registration						
	8	Voice						
	9	Circuit Switched Data						
	10	Call Waiting/Hold						
	11	MPTY						
	13	CLIP/CLIR						
	17	SMS						
	18	GPRS						
	19	Network Release Version						
	20	Emergency Call						
	21	Inter RAT						
	22	Video Telephony						
	-	Other						
	<b>BearerTestList-HSPA</b>				MC8795V (50B)			
	HSPA_A	1	HSDPA					
		2	HSDPA Status Change					
		3	HSDPA Multi					
4		HSDPA Mobility						
5		HSUPA						
-		Other						
HSPA_B	1501	HSDPA 1.5GHz						
	1502	HSDPA Status Change						
	1503	HSDPA Multi						
	1504	HSDPA Mobility						
	1505	HSUPA 1.5GHz						
	-	Other						
<b>BearerTestList-L1</b>				MC8795V (50B)				
L1	1	W-CDMA Transmitter Characteristics						
	2	W-CDMA Receiver Characteristics						
	3	Rel-5 W-CDMA/HSDPA Transmitter Characteristics						
	4	Rel-5 W-CDMA/HSDPA Receiver Characteristics						
	5	Rel-6 W-CDMA/HSDPA Transmitter Characteristics						
	6	Rel-6 W-CDMA/HSPA Transmitter Characteristics						
	14	Rel-7 HSDPA Receiver Characteristics						
	7	W-CDMA Performance Requirements						
	8	Rel-5 HSDPA Performance Requirements						
	9	Rel-6 HSDPA Performance Requirements						
	10	Antenna transmission characteristic test						
	11	Antenna reception characteristic test						
	12	Display						
	13	Frequency bands						
	15	Measurements Performance Requirements						
-	Other							
<b>BearerTestList-VS</b>				MC8795V (50B)				
VS	1	Normal call (Speech)						
	2	Emergency Call						
	3	Emergency Call (without SC)						
	-	Other						

<b>BearerTestList-PLMN</b>				MC8795V (50B)			
PLMN	1	Automatic Mode					
	2	Manual Mode					
	3	Others					
	5	3G roaming (GSM unsupported MS)					
	-	Other					
<b>BearerTestList-PS</b>				MC8795V (50B)			
PS	1	Session Management					
	2	Preservation					
	3	Internet Access					
	4	Other					
	5	Service Request					
	6	Service Reject					
	10	TCP					
	11	DNS					
-	Other						
<b>BearerTestList-RAN_A</b>				MC8795V (50B)			
RAN_A	1	Stand-by					
	3	Multi-call					
	5	SoftHandOver					
	6	HardHandOver					
	7	CELL UPDATE					
	8	URA UPDATE					
	10	Radio parameter change					
	11	Communication/call quality test					
-	Other						
<b>BearerTestList-RAN_B</b>				MC8795V (50B)			
RAN_B	13	Restriction test					
	-	Other					
<b>BearerTestList-RAN_C</b>				MC8795V (50B)			
RAN_C	1501	Stand-by					
	1505	SoftHandOver 1.5Ghz					
	1506	HardHandOver					
	1507	CELL UPDATE					
	1508	URA UPDATE					
	1510	Radio parameter change					
	1511	Communication/call quality test					
-	Other						
<b>BearerTestList-SA&amp;R</b>				MC8795V (50B)			
SA & R	1	Power-on/off					
	2	Change cells in idle state					
	3	Change cells during communication					
	5	Process in out-of-coverage area					
	6	Either domain operation					
	7	Timer					
	10	Identity Request					
	11	Initial Direct Transfer					
	-	Other					

<b>BearerTestList-SMS</b>				MC8795V (50B)		
SMS_A	1	SMS message reception				
	2	SMS message sending				
	4	Delivery report				
	5	SMS COMMAND				
	6	Parameter setting				
	7	M C N				
	8	FOTA				
	-	Other				
	<b>BearerTestList-SS</b>				MC8795V (50B)	
SS	1	Call Barring				
	2	Multiparty				
	3	Call Forwarding				
	4	CLIP/CLIR				
	5	Advice of Charge				
	6	Call Waiting/Hold				
	-	Other				
<b>BearerTestList-UDI</b>				MC8795V (50B)		
UDI	1	Normal call (64kUDI)				
	2	Normal call (VT 64kUDI)				
	-	Other				
<b>BearerTestList-USIM</b>				MC8795V (50B)		
USIM	1	ETSI TS 102 230 Physical, Electrical and Logical Test				
	2	3GPP TS 31 121 UICC - Terminal Interface; USIM Appli				
	10	USIM phonebook handling				
	11	PIN/PUKhandling				
	13	Call charge indication				
	14	Network setting				
	15	Language selection				
	16	SPN				
	17	SMS				
	19	MSISDN number				
	20	Personalization				
	21	OTA				
	28	Detection of UICC				
	-	Other				
	<b>Other (than Document)</b>				MC8795V (50B)	
Other						

**Result of the review**

Real Network Permit Test	Unnecessary
Technology regulation certification	Received
Remarks	

Reviewed by	Lab testing	2012/11/16	Mitsuhiro Kuchitsu
	Bearer specification	2012/11/16	Yasutaka Matsuda
Approved by	Manager, Bearer Verification	2012/11/16	Yosuke Okamura