






## QM-SW milestone assessment

Product Software Quality Report BenQ MD QM SW		MEP 7.01	
<b>Jerry</b>		<b>10-03-2006</b>	
Vodafone variant based upon Aries.		B. Mortensen	
M0 declared			

### Milestone Assessment

	Product	Milestone compliance	mandatory requirements	Compliance to SQAP	planned original	planned actual	declared on
<b>M0</b>	Jerry	 97%	 96%	 NA	23-02-2006		<b>10-03-2006</b>
<b>S0</b>	Jerry			 NA	28-02-2006	10-03-2006	
<b>M1</b>	Jerry				21-03-2006	21-03-2006	
<b>S2</b>	Jerry				04-07-2006	18-07-2006	
<b>S25</b>	Jerry				01-08-2006	18-07-2006	
<b>S3</b>	Jerry				31-08-2006	17-08-2006	
<b>DS</b>	Jerry				28-09-2006	22.09.2006	
<b>S4</b>	Jerry				26-10-2006	01.11.2006	

### Top 5 quality risks

1	SW team setup with several sitez involved. Effort to coordinate activities.	High
2	Requirements from VF difficult to get closed. Replanning can be needed.	High
3	Very tight time schedule	High
4		
5		

### Comments

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B. Mortensen	Assessment item	Milestone Assessment	Boundary	Milestone Assessment	mandatory requirement for assessment	Compliance to SQAP	Minimum Requirement for Milestone Assessment	Potential Impact on Returnrate	SQAP Compliance	Checked by QM-SW	Checklist	Criticality	Finding(s)
yes	Assessment of M0 milestone, Product is defined												
Identifier													
M0.8.8.1.	Radio			100%	100%			0					
M0.8.8.2.	EMC/Antenna			100%	100%			0					
M0.8.8.3.	Digital and mixed signal HW			100%	100%			1					Responsible : PL-HW (Poul Erik Rask)
M0.8.8.3.11.	Platform features/configurations supported by product agreed with PL SW	yes		1,0			yes	-	sw				According to PL-HW
M0.8.8.3.12.	Product related deviations from the platform defined and agreed with involved parties i.e. SW, MD etc.	yes		1,0			yes	-	sw				According to PL-HW
M0.8.8.3.16.	Hardware / Software interface and function description coordinated (hardware description and list of requirements on the software, port pin list are available)	open		1,0	1,0		yes	x					
M0.8.8.4.	Software			93%	92%			25					Responsible: PL-SW
M0.8.8.4.1.	Project Leader SW has been designated by the department head	yes		1,0	1,0		yes	x	-	sw			PL-SW: Yang Yong Qiang
M0.8.8.4.2.	PL <CA, L1, PS, SP, PC> has been designated by the department head	yes		1,0	1,0		yes	x	-	sw			PL-SW + PL-IM (Allan Hansen)
M0.8.8.4.3.	SW quality assurance (SW QA) has been designated	yes		1,0	1,0		yes	x	-	sw			-> M1: B.Mortensen, M1 -> : Zhang Qiu Ping
M0.8.8.4.4.	Detailed Primavera project plan from M0 to M1 showing dedicated resources by name is available.	yes	!	1,0	1,0		yes	x	-	sw			OK according to PL-SW
M0.8.8.4.5.	Rough Primavera project plan from M1 to M3/S4 showing dedicated resources on department level is available	yes	!	1,0	1,0		yes	x	-	sw			OK according to PL-SW
M0.8.8.4.6.	All M-alpha requirements are assigned to Component Projects (Architectural Analysis of requirements completed by System Architect)	open		1,0	1,0		yes	x	-				NA, No components project defined for Jerry
M0.8.8.4.7.	M0 version of milestone planning for SW component projects (platform) is available and in line with product requirements	open		1,0	1,0		yes	x					NA, No components project defined for Jerry
M0.8.8.4.8.	Requirement specification (M0 quality) agreed	yes	!	1,0	1,0		yes	x	-	sw			14 requirements still needs clarification This has to be done before S0
M0.8.8.4.9.	Accessory related requirements for the SW design (incl. MMI) are available.	yes		1,0	1,0		yes	x	-	sw			OK according to PL-SW
M0.8.8.4.10.	Requirement specification accessory related (M0 quality) agreed	yes		1,0	1,0		yes	x	-	sw			Reused from Aries
M0.8.8.4.11.	M0 Freeze version of R&D featurelist is available	yes	!	1,0	1,0		yes	x	-	sw			OK according to PL-SW M0 version not located. Only a later version available in IMS.
M0.8.8.4.12.	Deviations between operator requirements and "to be implemented functionality" as of R&D are agreed.	yes		1,0			yes	-	-	sw			14 requirements still needs clarification This has to be done before S0
M0.8.8.4.13.	Result of feasibility check on General technical service requirements is available.	yes		1,0	1,0		yes	x	-	sw			OK according to PL-SW
M0.8.8.4.14.	Software Supplier Management. Handled according to SSMP (Software Supplier Management Process) 13.1 Project Outsourcing Manager designated 13.2 Make-or-Buy-Decision "Deliverables" made 13.3 Start NDA process 13.4 Creation of Technical Requirements Specification "Deliverables"	open		1,0	1,0		yes	x	-				NA, No software supplier used in Jerry project. SISL India are used as "hired in" consultants under fully control of PL-SW
M0.8.8.4.15.	Draft project plan for application delivery (alpha, beta and gold master) is available from AS PM and in line with product requirements	yes		1,0	1,0		yes	x	-	sw			OK according to PL-SW
M0.8.8.4.16.	Applications: timelines & deliverables for application development environment (e.g. for specific phone functions like running Java VM on B1+ @ S25), phone emulator/MTK) are planned within SW-component projects (CS0 status) and are aligned with PM AS	open		1,0	1,0		yes	x	-				NA, Jerry project used sprint planning for requeisue implementation of features
M0.8.8.4.17.	Feasibility to fulfill requirements from applications is confirmed	yes		1,0	1,0		yes	x	-	sw			14 requirements still needs clarification This has to be done before S0
M0.8.8.4.18.	User Interface (UI) style guide, User Interface (UI) concept: aligned version after review by R&D and TI is available	no	!	0,0	0,0		yes	x	-	sw	Medium		According to PL-SW: VF Flow spec. and Styleguide available. Good enough for SW Not reviewed by R&D and TI
M0.8.8.4.19.	Design for all (dfa) compliance is confirmed by UE	yes	!	1,0	1,0		yes	x	-	sw			OK, Only VF style guide used.
M0.8.8.4.20.	User Interface (UI) style guide, UI concept for accessory devices: aligned version after review by R&D and TI is available	no	!	0,0	0,0		yes	x	-	sw	Medium		According to PL-SW: VF Flow spec. and Styleguide available. Good enough for SW Not reviewed by R&D and TI
M0.8.8.4.21.	Feasibility to fulfill feature requirements on Software, HW and MMI from Customer Care is confirmed	yes	!	1,0	1,0		yes	x	-	sw			OK according to PL-SW
M0.8.8.4.22.	First concept is aligned with factory, Requirements to SW from the factory are available	yes		1,0	1,0		yes	x	-	sw			Reused from Aries
M0.8.8.4.23.	Necessary test tools (Radio) and testing concept agreed with SW; availability of tools committed by SW	yes		1,0			yes	-	-	sw			Reused from Aries
M0.8.8.4.24.	EMC SW defined with SW, necessary test tools and testing concept agreed with SW; availability of tools committed by SW	yes		1,0			yes	-	-	sw			OK according to PL-SW
M0.8.8.4.25.	Digital and Mixed Signalling HW: Hardware/Software interface and function distribution coordinated (hardware description and list of requirements on the software, port pin list is available)	yes		1,0			yes	-	-	sw			OK according to PL-SW
M0.8.8.4.26.	Digital and Mixed Signalling HW: Product related deviations are agreed with PL SW.	yes		1,0			yes	-	-	sw			OK according to PL-SW
M0.8.8.4.27.	Product related SW project folder is created according platform documentation standard	yes		1,0	1,0		yes	x	-	sw			OK according to PL-SW
M0.8.8.4.28.	Result of rough estimation of CODE/RAM/EEPROM size available	yes	!	1,0	1,0		yes	x	-	sw			Reused from Aries
M0.8.8.4.29.	Requirements to SW from System Test are available	yes	!	1,0	1,0		yes	x	-	sw			OK according to PL-SW
M0.6.2.5.29.	Risk Management Plan available	yes		1,0	1,0		yes	x	-	sw			OK. Version 1.0_002_R seen
M0.8.8.5.	Signal Processing (SP) Software			100%	100%			10					Responsible: PL-SP: Allan Hansen
M0.8.8.5.1.	PL SP has been designated by the department head	yes		1,0	1,0		yes	x	-	sw			According to PL-SP: Reuse from Aries. No changes needed
M0.8.8.5.2.	Detailed Primavera project plan from M0 to M1 showing dedicated resources by name is available	yes	!	1,0	1,0		yes	x	-	sw			According to PL-SP: Reuse from Aries. No changes needed
M0.8.8.5.3.	Rough Primavera project plan from M1 to M3 showing dedicated resources on department level is available	yes	!	1,0	1,0		yes	x	-	sw			According to PL-SP: Reuse from Aries. No changes needed

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M0.8.8.5.4.	Product feature list is checked and a list of SP-related features that are achievable by S4 deadline has been derived.	yes	!	1,0	1,0		yes	x	-	sw			According to PL-SP: Reuse from Aries. No changes needed
M0.8.8.5.5.	List of SP-related features has been agreed with the relevant pre-development project leaders.	yes		1,0	1,0		yes	x	-	sw			According to PL-SP: Reuse from Aries. No changes needed
M0.8.8.5.6.	SP department resources are available up to M1, reserved up to M3.	yes	!	1,0	1,0		yes	x	-	sw			According to PL-SP: Reuse from Aries. No changes needed
M0.8.8.5.7.	Resources from other departments that are needed to support SP work are available up to M1	yes	!	1,0	1,0		yes	x	-	sw			According to PL-SP: Reuse from Aries. No changes needed
M0.8.8.5.8.	List and status of all relevant SP-related pre-development projects are available. Wherever the I3 / P3 has not yet been declared, a risk assessment and a schedule to achieve I3 / P3 until S2 are available	yes	!	1,0	1,0		yes	x	-	sw			According to PL-SP: Reuse from Aries. No changes needed
M0.8.8.5.9.	Check if RF interface specification is available from platform development. If not, system simulations are to be initiated and completed until M1	yes		1,0	1,0		yes	x	-	sw			According to PL-SP: Reuse from Aries. No changes needed
M0.8.8.5.10.	SP Build Manager is appointed. SP configuration management is set up for the product project	yes		1,0	1,0		yes	x	-	sw			According to PL-SP: Reuse from Aries. No changes needed
M0.8.8.9.	System Test (ST)			100%	100%			4					
M0.8.9.	Quality Management: Product Quality			100%	100%			8					
Checks													
M0.C1	Project specific checkpoints			100%	100%			1					
M0.C1.1	Needed devices for SW-QA and variant releases added in sample list of PL-T: Figure for needed devices at minimum: B1 4 devices B1+ 4 devices B2 10 devices B2+ 15 devices Pilot 30 devices Please note that it is necessary to have these numbers of devices also added for special operator variants of a device, e.g. Vodafone, T-Mobile, in case of different HW.	yes		1,0	1,0		yes	x	-	sw			A: 0 devices B1: 10 dev. (6 VM, 4 QM-SW) B2: 25 dev. (14 VM, 4 QM-SW, 7 QM sites) Pilot: 30 dev. (14 VM, 6 QM-SW, 10 QM sites)
M0.S	Summary	QA-P		calc.									
M0.S.1	Milestone Assessment rated by QA-P resp. by formula	97%		97%									
M0.S.2	mandatory requirement for assessment	96%		96%			49						
M0.S.3	Compliance to SQAP	NA											
yes	Assessment of S0 milestone, Requirement Release – Design freeze												
yes	Assessment of M1 milestone, Implementation Release												
yes	Assessment of S2 milestone, Tested Functional Sample (B1)												
yes	Assessment of S25 milestone, Tested Prototype Device B1+												
yes	Assessment of S3 milestone												
yes	Assessment of DS milestone												
yes	Assessment of S4 milestone												