

**M1 Declaration QM**

Product: **SL95** **Onyx**  
(Market Name) (Internal Name)

[International EMEA //China//no USA // LAM later]  
Dual Mode WCDMA/FDD 2100 MHz and GSM 900/1800/1900 MHz

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**Remarks:**

LC return rate over 24 month is max. 13% (1% has been agreed as additional return rate because of reduced antenna performance)  
for DS : 6,5% HW // 9,0% SW  
for S4 : 5,9% HW // 5,2% SW

**Related Documents:**

Conformance Assessment: Project\_Report\_QMPLPP\_Onyx\_20060316\_M1  
SW-QA-Assessment: **XXX**

Special M1 Issues : **Onyx-Risk-Top-M1\_issues-2006-03-17**

**Hereby we declare the Status M1 of QM**

QM-PL of BMG QM PQA, date 17.03.06

SPL of BMG QM SW, date 17.03.06

Head of BMG QM SW P, date 17.03.06

Head of BMG QM PQA, date 17.03.06

BMG QM PQA

1/3

M1\_Onyx\_PQA

Fax S Un ID: +49 2842 95 4387 an: 4677 16.03.2006 16:38 [00:00:38] OK S.001/001

Fax S Un ID: +49 2842 95 4387 an: 4239 17.03.2006 17:00 [00:00:40] OK S.001/001

## 1.1 Quality Management: Product Quality

		Completed on: Initials and Date
1	Controlling if the qualification of new components has started.....	See status below
2	Q concept, delivery quality coordinated with Development .....	Ok M.Krepcke
3	Field test plan is available	OK
4	Product specification checked for completeness and plausibility .....	Review done OK
5	FMEAs/Reviews controlled (completeness and plausibility) .....	MD, RF, EA, BB done
6	Inputs from System- and Interface-FMEA are processed in RDP .....	n.a. No RDP planed
7	Initiate first estimation of dpm values (Defect Budget Scorecard) by module teams	No RDP Score Card planed, dpm value defined by TTD
8	Risk analysis for product safety performed .....	08.02.06 (OK)
9	Controlling if mechanic and electronic reviews are performed for new components; see S0 and S15 started .....	No SMT mic will be used (see below) OK
10	Implementation concept for product safety, EMC and the environment ...	OK / shielding / SAR value met leagal requirements
	10.1 Specifications for product safety .....	OK (EN60950)
	10.2 Fulfillment of regulations and directives (e.g. VDE, CE) .....	OK Systemtest, BAPT-UK
11	Quality planning is available.....	Ok in IMS
	11.1 Milestone-oriented Q Plan for the duration of the project.....	Ok Mk
	11.2 Environmental planning coordinated .....	<b>OK new genr. Spec</b>
	11.3 Controlling that production and test concept is available (responsible is SD)	Production test ws done
12	Defined testing tools for software releases of PQA (until S3) defined .....	OK
13	Project-Audit prepared (measuring software, cradles, cables etc. ordered)	Cradels OK / SW OK / antenna coupling device open under evaluation
14	Project plan in Primavera on work-package level until M3 showing dedicated resources by name .....	OK, done MK
15	Detailed Primavera project plan up to M3/S4 is available, showing dedicated resources by name and/or on department level for external consultants	Ok done MK, Kröger
16	Quality gates in terms of return rates defined which has to be reached for DS	Done DS: 6,3%HW // 6,3% SW S4: 3,7% HW // 5,9%SW LC: RR : 12%
17	Risk Mode and Effects Analysis (RMEA) for PS and DS done (scrap risk, return rate, additional effort, ...)	Done update in CW 11 Done
18	PSQA-plans completely available	OK done BB,ST, MD, RF,EA
19	QM-checklist reviewed	Done
20	Conformance assessment available	OK, done
21	Accessory-QA milestone declaration available	OK / done by J.Knappmeier
22	SW-QA milestone declaration available	OK

Point 1:

**Von:** Markus Tews

**Gesendet:** Donnerstag, 9. März 2006 16:00

**An:** Martin Krepcke

**Betreff:** M1\_Risk\_Assessment.doc

Point 1

New component	Risk for DS (low,med,high)	TTD (open, ongoing, signed)	Qualification status (started, limited release, unlimited release)
Speaker	Low	Ongoing	Started
Batterie	Low	Signed	Started
Vibra Contact	Low	Signed	Started
Double action key	Low	Signed	Started
VGA camera	Low	Signed	Started
VGA camera socket	Low	Signed	Started
3 Mpix camera	Low	Signed	Started
Glossy black keypad	Medium	Signed	Started
Glossy black front cover IMF technologie	High	Signed	Started
FSR technologie for keypad	Medium	Signed	Started
Other new components			

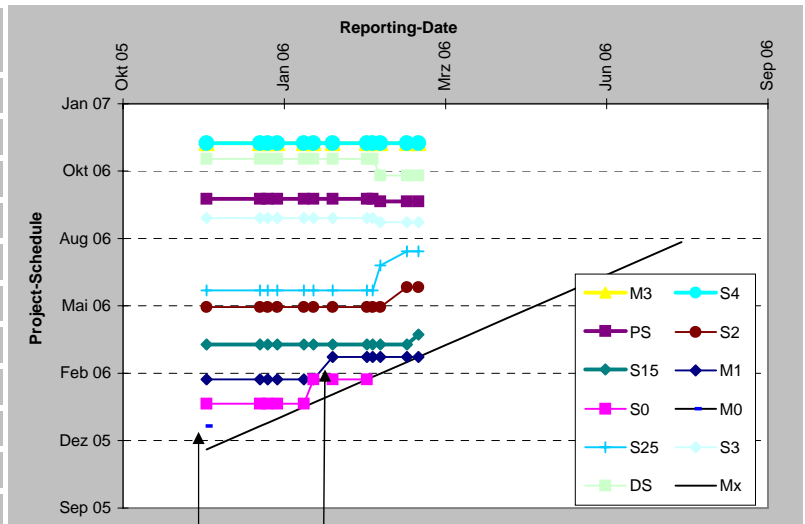
**Onyx SL95****17.03.2006**

M.Krepcke

SL95 Onyx [International EMEA //China//no USA // LAM later] (currently no APAC varaint planed)  
Dual Mode WCDMA/FDD 2100 MHz and GSM 900/1800/1900 MHz**Major**

## Milestone Assessment

	Milestone compliance	Planned Date	Current Plan
M0	Prohibitive	2005.12.23	n.a.
S0	Major	2006.02.17	2006.02.17
M1	Major	2006.02.24	2006.03.16
S15		2006.03.31	2006.04.12
S2		2006.06.08	
S25		2006.07.21	
S3		2006.08.25	
PS		2006.09.19	
DS		2006.10.20	
S4		2006.11.28	
M3		2006.11.28	



## Defect Data HW

defects	Open	In Progress	Closed
Prio 1			
Prio 2			
Prio 3+4			

## Top 5 quality risks

1	Rohm Controller of Display is limited, capability not ensured, management discussion ongoing, capability about 850k, new LC target 1,29 mio pcs mus be confirmed by CR	Critical
2	EA: antenna desing critical // to improve the antenna design, the 3 MG camera shielding must be removed, with this change, there might be a lost of the network connection within an area, that has low RF indication UMTS and GSM antenna performance reduced, dose not meet the FBT requirements and customer acceptance	Critical
3	realisation of FSR technologie critical, due to supplier feasibility, only possible with 2 k molding process, influence on even glossy black surface, surface not scrach	Critical
4	mechanical concept changed // Display position changed by 180 degree // slider short guiding, increase rattling when virbra is on //	Medium
5	desktop stand: "Desk Shell" definition is still ongoing, high level of effort for CR light, to define feature set and design for this accessorie impact on EMC Antenna possible, because the accessories did not consider design guide line	Critical

## Comments

new LC quantity : 950k ( 08.12.05) // delivery with desk top stand // LED  
delay S0 and M1 because of SW resources and IP definition  
S0 SW will be declared 17.02.06  
M1 HW will be declared 17.02.06 (to get project account released for order material)  
M1 SW will be declared 16.03.06 (critical path)  
TA Scenario due to GCF version 3.22 end at 24.10.2006 still highly endangered  
systemtest has missing knowledge of the qualcomm platform // much problems expected when running testcases and solving problems with reduced qualcomm support  
SW M1 declaration 4 weeks delay // ST declaration delay // IP planning of QCT not acceptable  
delay of S15 due to mechanic data release

Conformance assessment milestone M1			Onyx SL95				Major
Additional risks, miscellaneous			Name of PPL				None/Minor
Radio							
Problem description	Measure	Responsible	Due date	Date completed	Risk potential 1)	None/Minor Milestone assessment 2)	
no issues						1	
EMC antenna							
Problem description	Measure	Responsible	Due date	Date completed	Risk potential 1)	Major Milestone assessment 2)	
when phone lies in desk top shell, significant loss of antenna performance possible	define DTS requirements	Dieter Sütthoff/ Belhassen	final M1			2	
antenna performance does not fulfill FBT requirements	agreement discussed 1,5% additional return rate expected first evaluation must prove some improvement steps, improved antenna performance since M0	Dieter Sütthoff/ Belhassen	S15			2	
self interference increased due to that 3 Mpix Camera can't be shielded	first evaluation must prove some improvement steps,	Dieter Sütthoff/ Belhassen	S15			2	
Display rotation of 180° might cause self interferer, this schedule has no room for big corrective actions, to reduce selfinterference	first evaluation must prove some improvement steps,	Dieter Sütthoff// Rene Cezane	S15			2	
EMC SW requirements open	must be defined at final M1	Dieter Südhoff	16-Mar-2006			2	
concept to perform 3 T tests not clear	define coupling adaptpter or implement hole for antenna hirose buchse	Dieter Südhoff// Thomas Alkaemper	16-Mar-2006			2	
EMC quality is endanger because reduced R&D time to eliminate and improve problems with countermeasures	scheck with primavera planning	Dieter Südhoff	16-Mar-2006			2	
Digital and mixed signal HW							
Problem description	Measure	Responsible	Due date	Date completed	Risk potential 1)	Major Milestone assessment 2)	
preliminary TTDs available for FSR technologie		Rene Cezane	CW12			2	
Speaker, Display, Camera, Magnet : TTD ongoing because new components		Rene Cezane	S15			1	
standby and talk time in performance description dose not fit into curent estimation		Rene Cezane	final M1			1	
new controler (2nd source) for Carina Display might endanger display availability for Onyx		Andreas wipper/Rene Cezane	S15			2	
Software							
Problem description	Measure	Responsible	Due date	Date completed	Risk potential 1)	Major Milestone assessment 2)	
see SW risk assessment	planned to declare 16th of march					2	
new data base concept critical for Onyx Platform handling	falt back solution available	Seibold				2	
Signal Processing							
Problem description	Measure	Responsible	Due date	Date completed	Risk potential 1)	Milestone assessment 2)	
done by Qualcomm	no status possible						
Mechanics							
Problem description	Measure	Responsible	Due date	Date completed	Risk potential 1)	Major Milestone assessment 2)	
sensor realization keypad under evaluation, risk of bad usecase scenario	only 2 k molding process can realize the FSR sensor Keypad technologie FEM calculation necessary to evaluate the deforming of the display lens	Tenbrüggen	final M1			2	
I/M/L foil of display lens will have a process related displacement, risk of otical split line	new tooling concept is under discussion with Balda	Tenbrüggen	final M1			2	
semi automatic slider has reduced length	fix slider in open and close position	Tenbrüggen	final M1			2	
scratches on glossy surface expected, scratch resistance reduced	improve production process	Tenbrüggen	S2			1	
Lavout/Production Data						None/Minor	

[illegible]

1) e.g.: Time to Market delay; Return rate rise; Additional R&D effort  
2) Milestone assessment: Issues are ranked as follows:

Prohibitive	Milestone declaration not signed by COM MD QM. Milestone declaration blocked. State of emergency. Most strictly follow-up.
Major	Major deviation according to conformance assessment of COM MD QM.
None/Minor	Milestone declaration recommended or at least possible Action items in case of deviations to be tracked by SPM.

The Conformance Assessment will be issued by the responsible Quality Project Manager (QM Product Lifecycle). It is binding to the project team.  
The final Round Table meeting in the project team has to take place one week prior to envisaged Milestone declaration at the latest.  
The Product Generation Manager (PGM) or the PM / ODM Board members can overrule the milestone decision due to strategic reasons. In this case the decision maker takes all responsibility undivided. The decision maker has the responsibility to inform the MP Board on the decision.



**Condor: Top Quality Issues**  
**Assessment regarding next Milestones**

Status 17.03.2006

Prio	Topic	Description	Measure	Owner	Assessment for PreM1 23.02.06	Assessment for M1 15.03.06	Assessment for S2	Assessment for S25
1	reduced Antenna performance	antenna performance does not fulfill FBT requirements	blocked M0 // decision by OPC and PBR at Pre M1, to continue with project;07.03 additional 1.5% of RR need to be confirmed by Asmussen/Fillers	Asmussen/Filler	open			
2	risk of selfinterference	self interference increased due to that 3 Mpix Camera can't be shielded Display rotation of 180° might cause self interferer	evaluation at S2 milestone	Sütthoff				
3	EMC SW	requirements open	define requirements until M1 07.03 Dieter will get in contact with G. Seibold 14.03. -> main SW requirement: camera (VGA and 3 Mpix) in pre view mode at B1; clock data rate must be close to final target; cross check by Dieter using HW-SW requirement list	Seibold/ Sütthoff	open	ongoing		
4	3 T test	definition of test concept	B1 samples will get hole with 2,7 mm if Antenna performance will be decreased, new evaluation and concept must be defined	Radi Savic; Roland Göringen, Andreas Tepner, Arcer				
5	EMC quality	EMC quality is endanger because reduced R&D time to eliminate and improve problems with countermeasures	TBD if legal requirements can not be met	Sütthoff				
6	Define right standby and talk time	standby and talk time in performance description dose not fit into curent estimation	get closer to similar values as Kestrel in performace description 07.03 commitment missing from CPM 14.03.06 -> target of Onyx Standby is based on Kestrel measurements done 13.02.06; performance description update OK, steckbrief OK Standby Time Target : UMTS 250h // GSM 310h // Talk: UMTS 3h12min // GSM: 3h 12min (power level5) // power level 19 : GSM: 6h	Jerbi/TPM				
7	vibration of slider upper case	loud vibration sound when vibra is on and slider is open	risk of customer unsatisfaction and return rate // current estimation is that the slider vibration is low due to vibra with low power (SL55 version) evaluation at B1	Tenbrüggen/Krepcke				
8	Front cover feasibility studdy ongoing	FEM calculation necessary to evaluate the deforming of the display lens	decision of 2 K molding process must be evaluated result FEM (Flowmodesimulation) calculation open 07.03, actual status, Balda committed new technology to ensure at least 5 Newton pressure...feasibility concept reached	Tenbrüggen/Alkämper				
9	optical split line	IML foil of display lens will have a process related displacement, risk of otical split line	evaluation at B1	Tenbrüggen/Krepcke				
10	BOM target not achieved	BOM include DTS	define supplier for DTS and agreement about BOM target 07.03 BOM target of DTS defined, PE evaluate new votes and supplier 14.03.06 -> difference to BOM Target 0,6 EUR (BOM +1,8EUR has been evaluated as project risk)	TPM/CPM		ongoing		
11	Packaging concept	definition of open	define layout and surface 07.03, packaging defined	Jerbi/Wüstenberg/Gillitzer		done		
12	Ramp Up Plan	update quantity	tooling plan not conform with quantity planing check status with supplier and new RampUp plan 07.03 Pre M1 HW base on 950k, new CR raised by CPM due to new volume 1.29mio pcs 14.03.06 -> M1 Status will be based on LC quantity 950k	CPM/TPM		open		

**Condor: Top Quality Issues**  
**Assessment regarding next Milestones**

13	B2B connector assembly concept	check feasibility with production	B2B connector of MMI Flex must be glued to slider base, before assembly step with PCB connection / high risk for alignment and feasibility 07.03 H. Waschkowski need to clarify feasibility with MD, if these could not be reached fallback solution which was agreed by Prototype workshop will used instead	Tenbrüggen/Waschkowski		done		
14	test cycle time	calculated without B2B connector assembly and Camera test	update and confirm cycle time by production technolohgie	Alkämper/Waschkowski		ongoing		
15	feasibility studdy slider upper case	Supplier Balda declared only limited feasibility of slider upper part	update Pre M1 declaration status 07.03 feasibility of upper case reached, new ramp-up volume not committed by BALDA yet.	Alkämper/Gillitzer/Tews		ongoing		
16	Display quantity not confirmed	not confirmed availability of epson display 800k instead of 950k	check availability of Display controller (Rohm) 07.03 get feasibility to reach volume from Epson 14.03.06 -> MGM BenQ in Taipei is in charge of getting supplier commitment // falt back solution is 2nd display controler qualification / high project risk	Wipper/Friesen		open		
17	LSA not complete	LSA not for all parts available	check status of Pre M1	Alkämper/Gillitzer				
18	Supply Chain DTS	Onyx DTS is declared as Sub Project, Material availability is not ensured	get Supplier selection and feasibility studdy 07.03 feasibility studies available, price negotiation ongoing 14.03.06 : new vote of supplier 5,70EUR // 0,6 EUR to high for current BOM target	CPM/TPM		ongoing, check point 10		
19	keypad disassembly	concept open	define disassembly concept until S15	Tenbrüggen				
	Software	declaration	open // data base concept still ongoing 15.03.05 :Die Datenbank muss aufgesetzt sein: 3GUMPLA gibt es bereits. Das Aufsetzen der Produkt-Branch schaffen wir aber vermutlich nicht innerhalb von 2 Tagen. 2) CM-Plan ready: Im Prinzip muss der CM-Plan noch erstellt werden und eigentlich muss auch ein Review gemacht werden. Das werden wir bis Donnerstag auch nicht schaffen.	Seibold/ Kloppe		ongoing schedule defined		
20	Systemtest	declaration	open / agreement for pre M1 07.03 track status	Abratis				
21	AD	declaration	open / agreement for pre M1 07.03 check status, should be reached 14.03.06 : status open (e.g. Bluetooth stereo profile, BT Sim Access Profile) Qualcom can not support BT profiles as early as requested, schedule for implementation ongoing // synchronizing DTS and wired stereo headset volume control // M1 status DTS and headset not reached so far / not critical for project schedule // supply management will be responsibility by AD	Knapmeyer		ongoing but not critical for M1		
22	primavera planning	current primavera planning dose not confirm S2, S25, S3 HW schedule aligned with QM test	update and confirm new planning	Feldhoff/ Alkämper		done		
23	ASP	concept definition open	get concept description	Alkämper/Cezanne		done		
24	performance description	must be complete	review document	Krepcke/Alkämper		done		
25	update RMEA	update project risk assessment	check input of all PD team members / define counter measures	Alkämper/Feldhoff		ongoing		

Onyx

21.03.2006

Onyx

Heiko Titz



## Milestone Assessment

	Product	Milestone compliance	mandatory requirements		planned original	planned actual	declared on
<b>M0</b>	platform						
	Onyx	81%	☹️ 94%		23.12.2005	23.12.2005	<b>23.12.2005</b>
<b>S0</b>	platform						
	Onyx	96%	☹️ 95%		19.01.2006	17.02.2006	<b>20.02.2006</b>
<b>M1</b>	platform						
	Onyx	84%	☹️ 92%		17.02.2006	17.03.2006	<b>17.03.2006</b>
<b>S2</b>	platform						
<b>S25</b>	platform						
<b>S3-HW</b>	platform						
<b>PS</b>	platform						
<b>AS</b>	platform						
<b>MKA</b>	platform						
<b>S3</b>	platform						
<b>DS</b>	platform						
<b>S4</b>	platform						

## Summary of Top 5 quality risks

1	GCF approval timeline to be clarified with QCT and System test	High
2	Setup of platform development environment might be delayed, CM, IM	Critical
3	Resource shortage in development and architecture group	High
4	CM scenario (responsibilities) not finally agreed	High
5		

## Comments

Conditions for M1:

- Resource assignment sheet to be completed until 24.03.06
- Integration Matrix: Content after IP1 need to be completed until 24.03.06
- First version of CM plan is available. Review will be done until 24.03.06
- Onyx will be done on a product specific branch on 3GUMPLA.  
Database and branch are available.  
Switch back to platform approach until end of April possible.

yes	Assessment of M1 milestone, Implementation Release			
Identifier				
M1.10.1.	Project Management			
M1.10.1.13.	Key-operator approvals (normally 3 Operators) defined, which are necessary to reach DS	yes		
M1.10.1.22.	Country / Operator specific Approval (Update)	yes		
M1.10.1.22.1.	Approval feasibility has been clarified	yes		
M1.10.1.22.2.	Approval requirements (technical parameters, etc.)	yes		
M1.10.1.22.3.	Implementation plan for approvals (deadlines and responsibilities)	yes		
M1.10.1.22.4.	Approvals required for DS are defined	yes		
M1.10.1.22.5.	Local type approval and network approval requirements (required documentation, required hardware, time schedule) collected and matched with standard project plan	yes		
M1.10.1.22.6.	Definition of the key operators (ordered by priority) which should get support from System Test during operator approval finalized and sent to System Test	yes		
M1.10.1.22.7.	Number of SW variants for the key operators defined and sent to System Test	yes		
M1.10.1.22.8.	Definition which other operators (besides key operators, ordered by priority) and to which extent these operators are supported by System test during operator approval finalized and sent to System Test	yes		
M1.10.1.22.9.	Planned availability of SIM cards needed for the operator approval support by System Test	yes		
M1.10.1.26.	Variant Management	yes		
M1.10.1.26.1.	Disposition variants in SAP/Demand Planer available	yes		
M1.10.1.26.2.	Variant strategy defined (minimum quantity, cost allocation)	yes		
M1.10.1.26.3.	Kick-off meeting with mechanical design and layout production data held	yes		
M1.10.1.26.4.	Language groups are fixed	yes		
M1.10.1.26.5.	Variant concept available	yes		
M1.10.1.26.6.	HW Variants: Variant concept available e.g. HW variants (keypads, charger, displays, logo positioning on casing and display, additional parts i.e. metal clip ...)	yes		

M1.10.1.26.7.	SW Variants: Operator specific MMI, MMI languages, SIM-Lock, Initialization, applications	yes
M1.10.1.26.8.	Packaging adjustment (standard, customer specific...)	yes
M1.10.1.26.9.	First draft of customization guide is available	yes
M1.10.1.26.10.	User Guide: User guide concept incl. timeline available. User Guide languages are defined	yes
M1.10.1.26.11.	Bundling possibilities	yes
M1.10.1.26.12.	Target number of variants and target countries for PS/DS volume defined	yes


M1.10.8.1	<b>Synchronization Platform Development /HW Predevelopment</b>	
M1.10.8.1.1	Test Plan WBIT (White Box Integration) available	yes
M1.10.8.1.2	Test Specification WBIT (White Box Integration) for IP 1 available (latest before WBIT of IP 1)	yes

	n/a no WBIT planned			
	n/a no WBIT planned			

M1.10.8.2	<b>Radio</b>	
M1.10.8.2.12	Time schedule for provision of devices for conformity assessment and certification agreed with System Test	yes

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M1.10.8.3	<b>EMC/Antenna</b>	
M1.10.8.3.4.	EMC SW defined with SW	yes
M1.10.8.3.12.	Time schedule for provision of devices for conformity assessment and certification agreed with System Test	yes


M1.10.8.4	<b>Digital and mixed signal HW</b>	
M1.10.8.4.7.	RTF SW from platform adapted to product	yes
M1.10.8.3.16.	Time schedule for provision of devices for conformity assessment and certification agreed with System Test	yes


M1.10.8.5	<b>Software</b>	
M1.10.8.5.1.	Binding statement for all defined SW features (including initial (P)ICS, PIXIT etc. required for System Test planning of agreed conformity assessments and certifications)	yes
M1.10.8.5.2.	Product specific components projects have reached C1	yes
M1.10.8.5.3.	Memory Requirements fixed Consistent to memory estimations	yes
M1.10.8.5.4.	Testability of the features by S2 in the field guaranteed	yes
M1.10.8.5.5.	Feasibility of implementation and approval ensured positive assessment of implementation by SW department positive assessment of approval by system test department	yes
M1.10.8.5.6.	Product specific user interface specification Detailed MMI specification complete? Reviews completed without blocking points? Detailed MMI specification consistent to rough MMI specification?	all

	CM scenario, Test concept open			
	actual memory consumption to be checked			
	No new field relevant fetures compare dto Kestrel			
High	GCF approval timeline to be clarified with QCT and System test			

M1.10.8.5.7.	Software Supplier Management: Review of contracts, ready for signature (must be ensured that contracts can be signed after M1) 1. Negotiations by Global Procurement performed 2. Contract checked by Legal Department 3. Contract approved by Global Line Manager 4. Contract approved by Head of SW development	most
M1.10.8.5.8.	Resources provided by the department up to M3	yes
M1.10.8.5.9.	Product specific Architecture Document available	yes
M1.10.8.5.10.	Software Quality Assurance Plan (SQAP) completed Reviews completed without blocking points?	yes
M1.10.8.5.11.	Software Project Management Plan (SPMP) completed Reviews completed without blocking points?	yes
M1.10.8.5.12.	Product Integration Plan available Number and content of IP's defined? Reviews completed without blocking points? Consistent with component schedules?	open
M1.10.8.5.12.	Integration Matrix	yes
M1.10.8.5.12.	Planning of Integration Phases for defined IPs (+ detailed phase planning for IP 1); number and content of all IP's defined	yes
M1.10.8.5.12.	Test Plan WBIT (White Box Integration) available	no
M1.10.8.5.12.	Test Specification WBIT (White Box Integration) for IP 1 available (latest before WBIT of IP 1)	no
M1.10.8.5.12.	Integration Scenario for each Integration Phase	yes
M1.10.8.5.12.	Reviews completed without blocking points	open
M1.10.8.5.12.	Consistence with component schedules given	yes
M1.10.8.5.13.	Core Integration Team nominated (appointed specialists from CA, L1, PS and SP)	yes
M1.10.8.5.14.	Configuration Management Plan available Reviews completed without blocking points?	open
M1.10.8.5.15.	Project Database created	yes

	handled via frame contract with QCT			
	PMC is up to date Resource assignment sheet to be completed			
	partly done. Planning is done on feature step level in Primavera			
	Integration Matrix is available. Content of IP1 is defined. Need to be completed until 24.03.06			
	n/a no WBIT planned			
	n/a no WBIT planned			
	First review performed. Need to be finalized until 24.03.06			
	CM: not dedicated CM-P, Stefan Westmeier nominated First version is available. Review will be done next week (until 24.03.06).			
	Onyx will be done on a product specific branch on 3GUMPLA. Database and branch are available. Switch back to platform approach until end of April possible.			

M1.10.8.5.16.	Detailed Primavera project plan up to M3/S4 is available, showing dedicated resources by name and on department level for external consultants. Critical path within target date?	yes
M1.10.8.5.17.	Update Risk Management Plan	yes
M1.10.8.5.18.	Requirements and responsibilities fixed for all software deliverables which need to be adapted or tested "software deliverables" are all deliverables (files, documentation) that is provided to Factory, Customer Care, Customers or End Users. Requirements may be - naming, versioning conventions - requirements regarding identification - requirements regarding verification	yes
M1.10.8.5.19.	Creating in Defect Tracking Tool (Clear Quest) a new Project for Defect Tracking. Registration Form issued including Project Responsibilities, Roles and Suppliers. Project in Clear Quest created	yes
M1.10.8.5.20.	Scope and schedule for implementing of the SW (EMC, service SW logic, accessories) is available for the individual HW statuses and has been agreed with HW and Accessories (-> Layer 1 proposed to postpone this checkpoint from M0 to M1)	yes
M1.10.8.5.21.	Format of release notes and delta description of all SW parts agreed with CCQ, PM and System Test	yes
M1.10.8.5.22.	AT command list available	yes
M1.10.8.5.23.	SW boot concept for internal test and test at operator defined and agreed with at least System Test, Global Product Management	yes
M1.10.8.5.24.	Update concept defined and agreed with at least System Test, Service and production	yes
M1.10.8.5.25.	Trace concept defined	yes
M1.10.8.5.26.	SW Variants: Operator specific MMI, MMI languages, SIM-Lock, Initialization, applications	yes
M1.10.8.5.27.	SW customization feature list overview created	yes
M1.10.8.5.28.	Key applications defined	yes
M1.10.8.5.29.	PSQA plan built up and provided to PQA	yes
M1.10.8.6	<b>Signal Processing (SP) Software</b>	
M1.10.8.6.1.	Commitment for all defined SP SW features	yes
M1.10.8.6.2.	SW Architecture Description of sub-components (features) with SP contributions reviewed (e.g. a block diagram)	yes
M1.10.8.6.3.	Detailed description of the voice controlled user interface defined. This includes translation of voice control commands into all relevant languages	yes
M1.10.8.6.4.	Requirements and implementation schedule for RF and audio test software are available (including production test software) (contact RF sub-project leader and Logic sub-project leader)	yes

	PL-SW plan only contains milestone and ongoing activities for project management. Detailed activities are handled in the platform project plan for QCT6250a			
Medium	tool need to be improved			

n/a delivered by QCT


M1.10.8.6.5.	If applicable: External SP software suppliers are selected and contracts signed. It is defined, what is included in the deliveries, and what are the acceptance criteria	yes
M1.10.8.6.6.	SP department resources are available up to M3	yes
M1.10.8.6.7.	Resources from other departments that are needed to support SP work are available up to M3	yes
M1.10.8.6.8.	SP SW Design Specifications have been reviewed	yes
M1.10.8.6.9.	Final version of Test Plan for product-specific SP SW created, agreed and reviewed by QM PT	yes
M1.10.8.6.10.	Build Managers for product-related SP SW are identified (micro-controller code).	yes
M1.10.8.6.11.	An AD engineer and an Acoustics engineer in charge of audio parameterization are appointed.	yes
M1.10.8.6.12.	Project Plan for SP tasks until S4 is available.	yes
M1.10.8.6.13.	Requirements and responsibilities fixed for all SP SW deliverables, which need to be adapted or tested.	yes
M1.10.8.6.14.	System Simulations are completed and final version of RF interface specification is available.	yes
M1.10.8.6.14.	Detailed Primavera project plan up to M3/S4 is available, showing dedicated resources by name and on department level for external consultants	yes
M1.10.8.6.16.	Time schedule for provision of devices for conformity assessment and certification agreed with System Test	yes
M1.10.8.6.17.	Input for SW-PSQA plan is given	yes

[illegible]

M1.10.8.10	System test (ST)	
M1.10.8.10.1	Product Test Plan (BBIT, system test)	yes
M1.10.8.10.2	Test specification and planning, testability of all features ensured (test benches, ext. test houses, radio net, radio net manufacturers ... ) or identification of non-testable features	open
M1.10.8.10.3	Planning of agreed conformity assessment (R&TTE, FCC) and certification (GCF, PTCRB etc.) created and ensured	yes
M1.10.8.10.4	Planning of agreed certification, conformity (e.g. MMS, WAP, kJAVA, Sync ML ...) created and ensured	yes
M1.10.8.10.5	Test planning "Radio Communication Device with Accessories" coordinated between Accessories and Device	yes
M1.10.8.10.6	Responsibility for the system test (device/accessories) is fixed	yes
M1.10.8.10.7	Agreement between PM, System Test (ST) and QM PT how to organize the trial for the project (development trial for new technologies, strategic operator trial to speed up the operator approval; Interoperability test for new technologies planned and ensured)	yes
M1.10.8.10.8	Detailed Primavera project plan up to M3/S4 is available, showing dedicated resources by name and on department level for external consultants	open
M1.10.8.10.9	Definition of key operators for customer/vendor interoperability test (for all new technologies which require customer/vendor interoperability test) received from PM	yes
M1.10.8.10.10	Definition of the key operators (ordered by priority) that are supported during operator approval received from Global Product Management	yes

[illegible]



M1.10.8.10.11	Number of SW variants for the key operators received from Global Product Management	yes
M1.10.8.10.12	Definition which other operators (besides key operators, ordered by priority) and to which extent these operators are supported during operator approval received from Global Product Management	yes
M1.10.8.10.13	Received plan for availability of SIM cards needed for operator approval support by Global Product Management	yes
M1.10.8.10.14	Type and application approvals required for DS have to be defined considering requirements from PM	yes
M1.10.8.10.15	Time schedule for reception of devices for conformity assessment and certification agreed with Radio, EMC/Antenna, Digital and mixed signal HW	yes
M1.10.9.	<b>Quality Management: Product Quality</b>	
M1.10.9.1.	Controlling if the qualification of new components has started	yes
M1.10.9.2.	Q concept, delivery quality coordinated with Development	yes
M1.10.9.3.	Field test plan is available (part of product test plan)	yes
M1.10.9.4.	Product specification checked for completeness and plausibility	yes

	chinese and arabic language groups will not be supported with QCT 6250A chipset			
see HW QA Assessment for comments				

M1.10.9.5.	FMEAs/Reviews controlled (completeness and plausibility)	yes
M1.10.9.6.	Inputs from System- and Interface-FMEA are processed in RDP	yes
M1.10.9.7.	Initiate first estimation of dpm values (Defect Budget Scorecard) by module teams	yes
M1.10.9.8.	Risk analysis for product safety performed	yes
M1.10.9.9.	Controlling if mechanic and electronic reviews are performed for new components; see S0 and S15 started	yes
M1.10.9.10.	Implementation concept for product safety, EMC and the environment 1. Specifications for product safety 2. Fulfillment of regulations and directives (e.g. VDE, CE)	yes
M1.10.9.11.	1. Milestone-oriented Q Plan for the duration of the project 2. Environmental planning coordinated 3. Controlling that production and test concept is available (responsible is SD)	yes
M1.10.9.12.	Defined testing tools for software releases of QM PT (until S3) Remark: Unclear, means: "It must be defined which testing tools are required for software releases of QM PT. These tools must be available in their final version latest at S3." Compare to 8.3.5.15 (see above) Compare to 7.2.4.14 (see S0 checklist)	yes
M1.10.9.13.	Project-Audit prepared (measuring software, cradles, cables etc. ordered)	yes
M1.10.9.14.	Project plan in Primavera on work-package level until M3 showing dedicated resources by name	yes
M1.10.9.15.	Detailed Primavera project plan up to M3/S4 is available, showing dedicated resources by name and/or on department level for external consultants	yes
M1.10.9.16.	Quality gates in terms of return rates defined which has to be reached for DS	yes
M1.10.9.17.	Risk Mode and Effect Analysis (RMEA) for PS and DS done (scrap risk, return rate, additional effort, ...)	yes
M1.10.9.18.	PSQA-plans completely available	yes
M1.10.9.19.	QM-checklist reviewed	yes
M1.10.9.20.	Conformance assessment available	yes
M1.10.9.21.	Accessory-QA milestone declaration available	yes
M1.10.9.22.	SW-QA milestone declaration available	yes

#### Checks

M1.10.10	Other Check Items	
M1.10.10.1.	Applications: timelines and deliverables for application test devices (e.g. functional Java VM) are aligned with PM AS	yes
M1.10.10.2.	Special cost regulations agreed for the market introduction phase (e.g. for upgrades, device provisioning) where not covered in the business case	open
M1.10.10.3.	All open topics from the previous milestone are closed (= unlimited release of the previous milestone)	yes
M1.10.10.4.	In case of any open topics, a list of open topics, responsible persons and due dates has been created	yes

M1.S	Summary	QA-P
M1.S.1	Milestone Assessment rated by QA-P resp. by formula	84%
M1.S.2	mandatory requirement for assessment	92%
M1.S.3	Compliance to SQAP	

	n/a no RDP planned			
