RQ1 Rules - Complete Reference

Total Rules: 101 (BBM 23 + QAM 22 + IPT 56) **Source**: SW_QAMRuleSet_Tmplt.xlsm v3.8 (2022-07-06)
Generated: Auto-parsed from Excel with priority organization

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Priority Summary

Overall Distribution

Priority Level	Execution	Total Count	BBM	QAM	IPT
CRITICAL	mandatory	23	9	10	4
HIGH	optional	22	6	0	16
MEDIUM	new	3	0	3	0
LOW	open	7	0	7	0
SKIP	outdated	12	0	2	7
SKIP	to be deleted	3	3	0	0
N/A	(not specified)	34	4	0	29

By Rule Set

BBM (Quality Metrics): 23 rules

- 9 mandatory (CRITICAL)
- 6 optional (HIGH)
- 3 to be deleted
- 4 not specified
- 1 optional/mandatory

QAM (Quality Assurance - Documentation): 22 rules

- 10 mandatory (CRITICAL)
- 3 new (MEDIUM)
- 7 open (LOW)
- 2 outdated

IPT (Project Planning/Process/Assessment): 56 rules

- 4 mandatory (CRITICAL)
- 16 optional (HIGH)
- 7 outdated
- 29 not specified

BBM Rules (23)

Focus: Quality Assurance Metrics **Total**: 23 rules

Priority Distribution

Execution	Count
mandatory	9
optional	6
to be deleted	3
(not specified)	4
optional / mandatory	1

CRITICAL: Mandatory (9 rules)

BBM 01

Name: Ratio of technical customer requirements accepted **Execution**: mandatory **Check Retrospectively**: 3m b / 8m f **Implemented**: 2019-01-01

BBM 08

Name: Ratio of defects closed **Execution**: mandatory **Check Retrospectively**: 6m b/f **Implemented**: 2019-01-01

BBM 09

Name: Ratio of change requests closed **Execution**: mandatory **Check Retrospectively**: 6m b/f **Implemented**: 2019-01-01

BBM 10

Name: Ratio of technical customer requirements traceable to internal requirements **Execution**: mandatory **Check Retrospectively**: all **Implemented**: 2019-01-01

BBM 11

Name: Ratio of system requirements reviewed **Execution**: mandatory **Check Retrospectively**: 6m b/f **Implemented**: 2019-01-01

BBM 12

Name: Ratio of system requirements traceable to its source **Execution**: mandatory **Check Retrospectively**: 6m b/f **Implemented**: 2019-01-01

BBM 15

Name: Ratio of software requirements reviewed **Execution**: mandatory **Check Retrospectively**: 6m b/f **Implemented**: 2019-01-01

BBM 16

Name: Ratio of software requirements traceable to its source **Execution**: mandatory **Check Retrospectively**: 6m b/f **Implemented**: 2019-01-01

BBM 23

Name: Sum of unevaluated errors and warnings from static code analysis **Execution**: mandatory **Check Retrospectively**: 6m b/f **Implemented**: 2019-01-01

HIGH: Optional (6 rules)

BBM 03

Name: Ratio of system requirements successfully verified **Execution**: optional **Check Retrospectively**: 6m b/f **Implemented**: 2019-01-01

BBM 06

Name: Ratio of software requirements successfully verified **Execution**: optional **Check Retrospectively**: 6m b/f **Implemented**: 2019-01-01

BBM 07

Name: Ratio of SSL requirements successfully verified (only safety in 2017!) **Execution**: optional **Check Retrospectively**: 6m b/f **Implemented**: 2019-01-01

BBM 13

Name: Ratio of system requirements linked to at least one test case **Execution**: optional **Check Retrospectively**: 6m b/f **Implemented**: 2019-01-01

BBM 17

Name: Ratio of software requirements linked to at least one test case **Execution**: optional **Check Retrospectively**: 6m b/f **Implemented**: 2019-01-01

BBM 20

Name: Ratio of software components/units successfully verified **Execution**: optional **Check Retrospectively**: 6m b/f **Implemented**: 2019-01-01

SKIP: To Be Deleted (3 rules)

BBM 19

Name: Ratio of software units implemented or changed according to current release plan **Execution**: to be deleted

BBM 21

Name: Consumption of processor capacity **Execution**: to be deleted

BBM 22

Name: Consumption of memory **Execution**: to be deleted

N/A: Not Specified (4 rules)

BBM 02

Name: Ratio of system interfaces successfully verified

BBM 05

Name: Ratio of software interfaces successfully verified

BBM 14

Name: Ratio of defined system interfaces linked to at least one test case

BBM 18

Name: Ratio of software interfaces linked to at least one test case

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N/A: Optional / Mandatory (1 rule)

BBM 04

Name: Ratio of software requirements implemented **Execution**: optional / mandatory **Check Retrospectively**: all **Implemented**: 2019-01-01

QAM Rules (22)

Focus: Quality Assurance - Documentation and Workflow Process **Total**: 22 rules

Priority Distribution

Execution	Count
mandatory	10
new	3
open	7
outdated	2

CRITICAL: Mandatory (10 rules)

QADO 02.01.00

Name: FC in delivered state in SCM, requirement based development needed, check for URT documentation **Execution**: mandatory **Check Retrospectively**: last 12 month **Implemented**: 2018-02-01 **Relevant for PQA**: yes **Remarks**: Included in QAWP 06.00.00

QADO 04.00.00

Name: BMI evaluation and documentation **Execution**: mandatory **Check Retrospectively**: last 12 month **Implemented**: 2021-07-01 **Relevant for PQA**: no

QAWP 01.00.00

Name: Concept Review **Execution**: mandatory **Check Retrospectively**: last 12 month **Implemented**: 2016-01-01 **Relevant for PQA**: no **Remarks**: 3.7.0

QAWP 02.00.00

Name: Specification / Function Review **Execution**: mandatory **Check Retrospectively**: last 12 month **Implemented**: 2016-01-01 **Relevant for PQA**: yes **Remarks**: 3.2.0

QAWP 03.00.00

Name: Software / Code Review **Execution**: mandatory **Check Retrospectively**: last 12 month **Implemented**: 2016-01-01 **Relevant for PQA**: yes **Remarks**: 3.3.0

QAWP 04.00.00

Name: Verification and Validation Condition in SCM **Execution**: mandatory **Check Retrospectively**: last 12 month **Implemented**: 2016-01-01 **Relevant for PQA**: yes **Remarks**: 3.5.0

QAWP 06.00.00

Name: Content of Test Container for Functions (FC or related classes) in SCM **Execution**: mandatory **Check Retrospectively**: last 12 month **Implemented**: 2015-10-01 **Relevant for PQA**: yes **Remarks**: 3.6.0

QAWP 06.01.00

Name: Warning Assessment of Test Container for Functions (FC or related classes) in SCM **Execution**: mandatory **Check Retrospectively**: last 12 month **Implemented**: 2017-10-01 **Relevant for PQA**: yes **Remarks**: 3.6.0 - Included in QAWP 06.00.00

QAWP 06.02.00

Name: Review of Test Specification Artefacts for Functions (FC or related classes) in SCM **Execution**: mandatory **Check Retrospectively**: last 12 month **Implemented**: 2019-08-01 **Relevant for PQA**: yes **Remarks**: Included in QAWP 06.00.00

QAWP 08.01.00

Name: Warning Assessment of Test Container for Packages (BC or related classes) in SCM **Execution**: mandatory **Check Retrospectively**: last 12 month **Implemented**: 2016-10-01 **Relevant for PQA**: yes **Remarks**: 3.11.0 - Included in QAWP 08.00.00

MEDIUM: New (3 rules)

QADO 01.00.00

Name: FC in delivered state in SCM, but Issue-FD is not closed **Execution**: new **Relevant for PQA**: yes

QADO 02.00.00

Name: FC in delivered state in SCM, check for requirement based development **Execution**: new **Relevant for PQA**: yes

QADO 03.00.00

Name: Surrounding of ECU generation - MISRA **Execution**: new **Relevant for PQA**: yes

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LOW: Open (7 rules)

QAWP 05.00.00

Name: LifeCycle in SCM **Execution**: open **Check Retrospectively**: last 12 month **Relevant for PQA**: yes **Remarks**: 3.4.0

QAWP 07.00.01

Name: Content of delivered Packages (BC or related classes) in SCM **Execution**: open **Check Retrospectively**: last 12 month **Relevant for PQA**: yes

QAWP 07.01.00

Name: Tag-List for developed Packages (BC or related classes) in SCM **Execution**: open **Check Retrospectively**: last 12 month **Relevant for PQA**: yes

QAWP 08.00.00

Name: Content of Test Container for Packages (BC or related classes) in SCM **Execution**: open **Check Retrospectively**: last 12 month **Relevant for PQA**: yes **Remarks**: 3.11.0

QAWP 09.00.00

Name: Content of delivered Program Version (PVER or related classes) in SCM **Execution**: open **Relevant for PQA**: yes

QAWP 10.00.00

Name: Content of Test Container for Program Version (PVER or related classes) in SCM **Execution**: open **Relevant for PQA**: yes

QAWP 10.01.00

Name: Warning Assessment of Test Container for Program Version (PVER or related classes) in SCM **Execution**: open **Relevant for PQA**: yes

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SKIP: Outdated (2 rules)

QAWP 02.01.00

Name: Specification / Function Review "not necessary" **Execution**: outdated **Relevant for PQA**: no **Remarks**: 3.8.0

QAWP 03.01.00

Name: SW Review "exempt" **Execution**: outdated **Relevant for PQA**: no **Remarks**: 3.9.0

IPT Rules (56)

Focus: Project Planning (PRPL), Process/Traceability (PRPS), Assessment (PRAS) **Total**: 56 rules

Priority Distribution

Execution	Count
mandatory	4
optional	16
outdated	7

Execution	Count
(not specified)	29

CRITICAL: Mandatory (4 rules)

PRPL 13.00.00

Name: IFD is not implemented or closed, after planned dated of BC-R **Execution**: mandatory **Implemented**: 2016-07-01

PRPL 14.00.00

Name: IFD is not committed, eventhough attached Issue-SW is committed **Execution**: mandatory **Implemented**: 2016-07-01

PRPL 15.00.00

Name: Release is not closed after planned date for BC and FC **Execution**: mandatory **Implemented**: 2016-07-01

PRPL 16.00.00

Name: Workitem is not closed after planned date **Execution**: mandatory **Implemented**: 2016-07-01

HIGH: Optional (16 rules)

PRPL 01.00.00

Name: BC-R is not in requested state, 8 weeks before PVER planned delivery date **Execution**: optional **Implemented**: 2016-07-01

PRPL 03.00.00

Name: Issue/Release/workitem is still in "Conflicted" state **Execution**: optional **Implemented**: 2016-07-01

PRPL 06.00.00

Name: Not all fields for defect detection/injection attributes in a Bug Fix Issue (IFD) are filled **Execution**: optional **Implemented**: 2019-09-01

PRPL 07.00.00

Name: Planned date of BC later than requested delivery date of any mapped PVER or PVAR **Execution**: optional **Implemented**: 2016-06-24

PRPL 08.00.00

Name: BC without mapping to PVER or PFAM **Execution**: optional **Implemented**: 2019-09-01

PRPL 09.00.00

Name: FC in time for BC **Execution**: optional **Implemented**: 2019-09-01

PRPL 10.00.00

Name: Check dates for PVER, BC and FC **Execution**: optional **Implemented**: 2019-09-01

PRPL 11.00.00

Name: IFD 5 day SLA reached **Execution**: optional **Implemented**: 2016-03-01

PRPL 12.00.00

Name: IFD is not closed, even though all the BC-Rs mapped to it are closed or cancelled **Execution**: optional **Implemented**: 2016-03-01

PRPL 19.00.00

Name: Name Check Function (FC) **Execution**: optional **Implemented**: open

PRPL 20.00.00

Name: Name Check Package (BC) **Execution**: optional **Implemented**: open

PRPL 21.00.00

Name: ISW is not closed or implemented, even though function development is finished and at least one or all IRM(s) are qualified **Execution**: optional **Implemented**: 2019-09-01

PRPL 22.00.00

Name: PVER-F testing is open even though IRM is implemented **Execution**: optional **Implemented**: 2019-09-01

PRPS 01.00.00

Name: Tracking of Change Requests **Execution**: optional **Implemented**: open

PRPS 01.01.00

Name: Decomposition missing of Issue to affected SW Components **Execution**: optional **Implemented**: 2019-09-01

PRPS 01.02.00

Name: Decomposition of ASIL not correct **Execution**: optional **Implemented**: open

SKIP: Outdated (7 rules)

PRPL 02.00.00

Name: Workitem is in started state, but planned date for workitem is not entered in planning tab **Execution**: outdated **Implemented**: 2019-09-01

PRPL 17.00.00

Name: Status Canceled (planned) **Execution**: outdated **Implemented**: open

PRPS 02.02.00

Name: Traceability Check between Change Request to Customer Requirement **Execution**: outdated **Implemented**: 2019-09-01

PRPS 02.03.00

Name: Allocation Check for Customer Requirement **Execution**: outdated **Implemented**: 2019-09-01

PRPS 03.06.00

Name: Traceability Check between ECU System Requirement to Customer Requirement **Execution**: outdated

PRPS 03.07.00

Name: Traceability Check between Change Request to System Functionality Requirement **Execution**: outdated **Implemented**: 2019-09-01

PRPS 03.09.00

Name: Traceability Check between System Functionality Requirement to ECU System Requirement **Execution**: outdated **Implemented**: 2019-09-01

N/A: Not Specified (29 rules)

PRAS 01.00.00

Name: MAN.3 - Task Planning and Tracking **Implemented**: open

PRAS 01.01.00

Name: MAN.3 - Resource Loading and Skill matrix **Implemented**: open

PRAS 01.02.00

Name: Project Management Plan (- Project Guide) Contracting (Project, FMEA) **Implemented**: open

PRAS 01.03.00

Name: Project Review and Reporting (Including CPC-SW, Traffic light list SW) **Implemented**: open

PRAS 01.04.00

Name: ISO26262 artefacts check **Implemented**: open

PRAS 02.00.00

Name: Planning and Tracking of Quality Assurance activities and reviews **Implemented**: open

PRAS 02.01.00

Name: Quality Assurance Metrics Tracking **Implemented**: open

PRAS 03.00.00

Name: Problem Resolution Management **Implemented**: open

PRAS 03.01.00

Name: Risk Handling **Implemented**: open

PRPL 04.00.00

Name: Effort estimation (planned) **Implemented**: open

PRPL 05.00.00

Name: Planning of Quality Measures (planned) **Implemented**: open

PRPL 18.00.00

Name: I-FD not committed 5 or more working days after attached I-SW was committed **Implemented**: 2019-09-01

PRPS 02.01.00

Name: Missing mandatory Attributes of Customer Requirements **Implemented**: 2019-09-01

PRPS 02.04.00

Name: Baseline Check of Customer Requirements **Implemented**: 2019-09-01

PRPS 03.00.00

Name: Missing Impact Analysis for ECU System Requirements **Implemented**: 2019-09-01

PRPS 03.01.00

Name: Missing mandatory Attributes of ECU System Requirements **Implemented**: 2019-09-01

PRPS 03.02.00

Name: Missing mandatory Attributes of System Functionality Requirements **Implemented**: 2019-09-01

PRPS 03.03.00

Name: Missing mandatory Attributes of System Functionality and System Interface Requirements **Implemented**: 2019-09-01

PRPS 03.04.00

Name: Traceability Check between Change Request to ECU System Requirement **Implemented**: 2019-09-01

PRPS 03.05.00

Name: Allocation Check of ECU System Requirements **Implemented**: 2019-09-01

PRPS 03.08.00

Name: Traceability Check between System Functionality Requirement to Change Request **Implemented**: 2019-09-01

PRPS 03.10.00

Name: Baseline Check of ECU System Requirements **Implemented**: 2019-09-01

PRPS 03.11.00

Name: Baseline Check of System Functionality Requirements **Implemented**: 2019-09-01

PRPS 04.00.00

Name: Missing mandatory Attributes of Software Requirements **Implemented**: 2019-09-01

PRPS 04.01.00

Name: Missing mandatory Attributes of Software and Software Interface Requirements **Implemented**: 2019-09-01

PRPS 04.02.00

Name: Traceability Check between Change Request to Software Requirement **Implemented**: 2019-09-01

PRPS 04.03.00

Name: Traceability Check between Software Requirement to Change Request **Implemented**: 2019-09-01

PRPS 04.04.00

Name: Traceability Check between Software Requirement to System Functionality Requirement **Implemented**:
2019-09-01

PRPS 04.05.00

Name: Baseline Check of Software Requirements **Implemented**: 2019-09-01

Implementation Notes

Rule Priority for Implementation

Phase 1 - CRITICAL (23 mandatory rules):

- BBM: 9 rules - Quality metrics
- QAM: 10 rules - Documentation/workflow
- IPT: 4 rules - Planning compliance

Phase 2 - HIGH (22 optional rules):

- BBM: 6 rules - Additional quality checks
- IPT: 16 rules - Enhanced planning/process

Phase 3 - MEDIUM/LOW (10 new/open rules):

- QAM: 3 new + 7 open rules

Skip - Outdated/Deprecated (15 rules):

- BBM: 3 to be deleted
- QAM: 2 outdated
- IPT: 7 outdated
- Not specified: 3

Key Insights

1. **Mandatory rules focus on**:

   - Requirements traceability (BBM 10, 12, 16)
   - Review completion (BBM 11, 15)
   - Defect/change closure (BBM 08, 09)
   - Documentation completeness (QAM 10 rules)
   - Date compliance (IPT 4 rules)

2. **Optional rules add**:

   - Verification coverage (BBM 03, 06, 07, 13, 17, 20)
   - Planning validation (IPT 16 rules)
   - Process traceability (PRPS rules)

3. **Excel vs Java mapping**:

- 37 Java rules from POST Tool
- ~30-36 rules have both Excel + Java backing
- Focus implementation on intersection

Usage

This document serves as the single source of truth for all 101 Excel-defined rules. For implementation details and Java code references, see `IMPLEMENTATION_GUIDE.md` and `EXCEL_TO_JAVA_MAPPING.md`.