“Sanctioned Interpretations” – SI
and “Frequently Asked Questions” – FAQ

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German Association of the Automotive Industry
Quality Management Center

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The further applicable documents pertaining to these requirements will be defined in the following guidelines: “Sanctioned Interpretations” (SI) and “Frequently Asked Questions” (FAQ), which are published by VDA QMC in coordination with the VDA 2 Project Group as and when required:

- “Sanctioned Interpretations” (SI) change the interpretation of a rule or a requirement, which as such provides the basis for a deviation.
- “Frequently Asked Questions” (FAQ) provide explanations regarding existing rules or requirements.

They are binding from the date of publication.

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“Sanctioned Interpretations” – SI
and “Frequently Asked Questions” – FAQ

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Sanctioned Interpretations (SI)

currently, no SI have been established

Frequently Asked Questions (FAQ)

relates to the software quality metrics
(see the following pages)

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KPIs on Software Quality

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In Chapter 5.3 “Defining the evidence and the recording of this evidence”, Table 5-2 “PPA evidence recording” requires proof of KPIs on software quality (VDA No. 6.2).
The following pages show practical examples of SW KPIs with variants:

Page 2 – KPI: Accepted customer requirements
Page 3 – KPI: Software requirements implemented
Page 4 – KPI: SW requirements with verification
Page 5 – KPI: SW requirements with passed verification measure (variant 1)
Page 6 – KPI: Software verification passed (variant 2)
Page 7 – KPI: Code quality

If no other indicators are agreed between the organisation and the customer, these indicators can be used as proof in the PPA procedure.

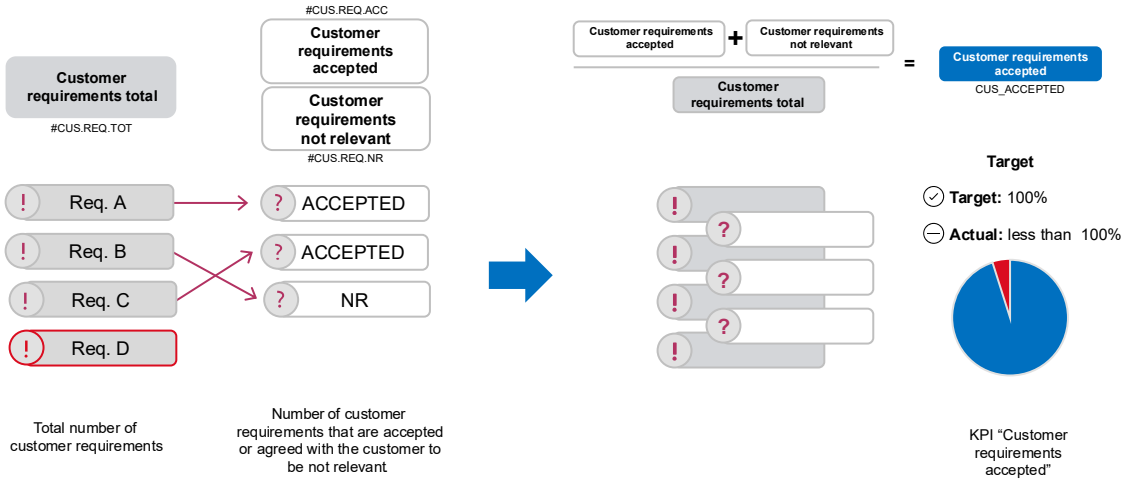
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KPI “Accepted customer requirements” [CUS_ACCEPTED]

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Target
Proof that all customer requirements are accepted. Clarification with the customer is complete.

Explanation
- Customer requirements must be accepted and confirmed between the organisation and the customer or be marked as not relevant.
- The customer requirements are requirements from the customer‘s specifications. Requirements can be functional and non-functional requirements for the product.
- The customer requirements are requirements for the product and can apply to the software, the mechanics, the hardware or the process.



Format
Percentage of accepted customer requirements.

Risk
If 100% are not achieved, there are customer requirements that are not accepted and therefore potentially not implemented.

Data response:

#CUS.REQ.ACC: Customer requirement status accepted

#CUS.REQ.NR: Customer requirement not project-relevant / rejected

#CUS.REQ.TOT: Total number of customer requirements

CUS_ACCEPTED: (#CUS.REQ.ACC + #CUS.REQ.NR) / #CUS.REQ.TOT

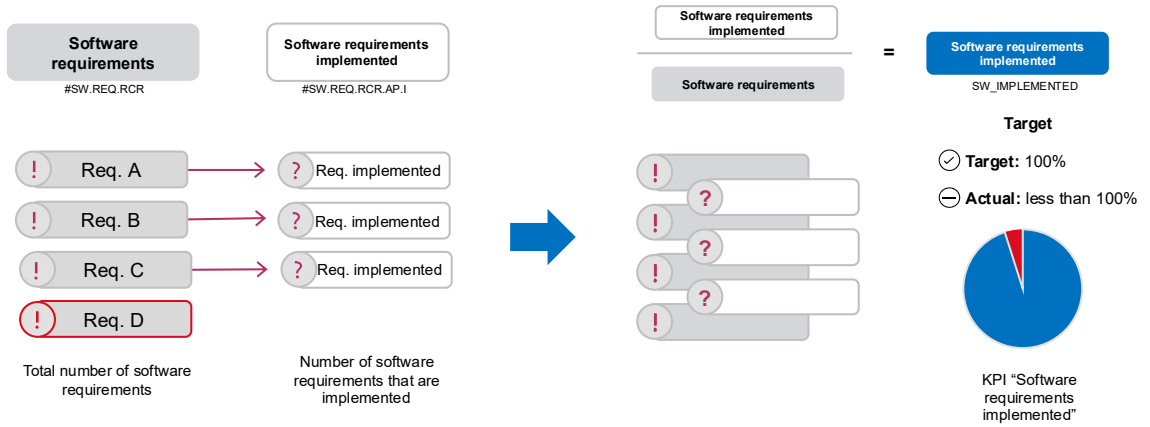
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KPI “Software requirements implemented” [SW_IMPLEMENTED]

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Target
Proof that all software requirements are implemented.

Explanation
- The software requirements are requirements that are inferred from the customer/system requirements or other sources and are implemented in the software.
- Sources according to AK13: PAM4.0
  Stakeholder req., SYS req, architectural req, design constraints, …



Format
Percentage of implemented software requirements.

Risk
- If 100% are not achieved, there are software requirements that are not implemented in the software.
- Functional / non-functional requirements can potentially not be implemented.

Data response:

#SW.REQ.RCR.AP.I: Software requirement status approved and implemented

#SW.REQ.RCR: Software requirements

SW_IMPLEMENTED: #SW.REQ.RCR.AP.I / #SW.REQ.RCR

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KPI “Software requirements with verification” [SW_TC]

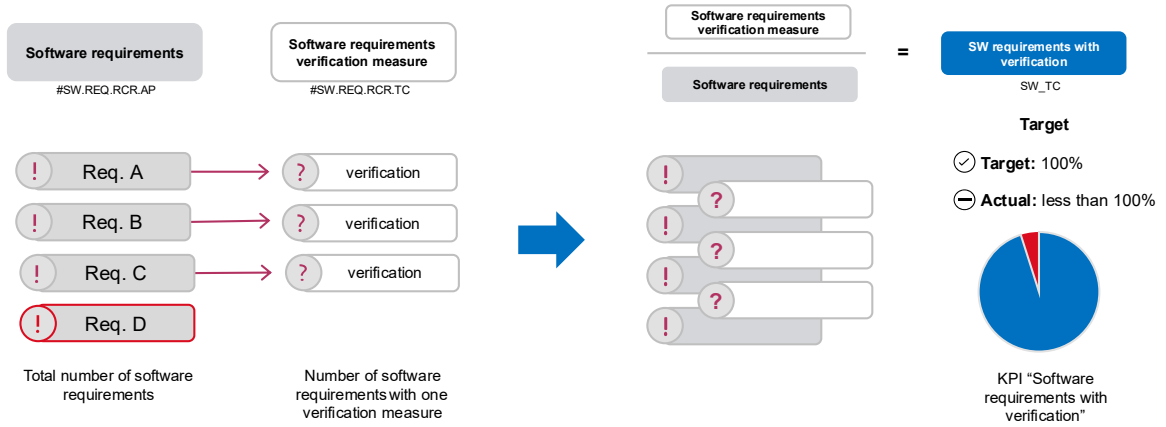
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Target
Proof that at least one verification measure is assigned to each software requirement.

Explanation
- Verification measures can be e.g. test cases or reviews.
- Verification measures are defined in the verification strategy.
- Verification measure see VDA glossary.

Format
Percentage of software requirements to which at least one verification measure is assigned.

Risk
- If 100% are not achieved, there are software requirements that cannot be verified.
- Functional / non-functional requirements can potentially not be verified.
- The completeness of verification measures is not the object of the indicator.



Data response:

#SW.REQ.RCR.TC: Software requirements with one verification measure

#SW.REQ.RCR: Software requirements

SW_TC: #SW.REQ.RCR.TC / #SW.REQ.RCR

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KPI Variant 1 “Software requirements with passed verification measure” [SW_VERIFIED]

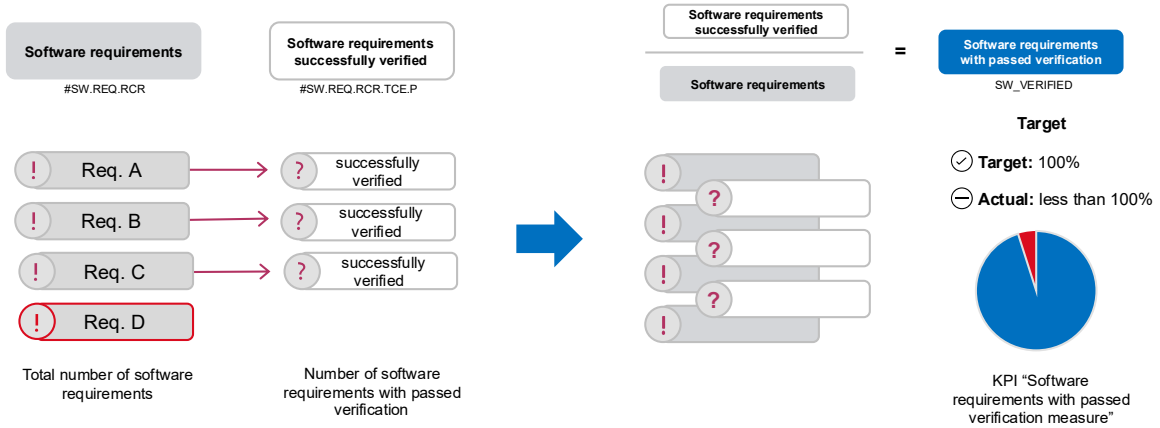
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Target
Proof that alle verification measures assigned to the software requirements are carried out and passed.

Explanation
All verification measures are carried out, and the expected result has been achieved.

Format
Percentage of software requirements for which all assigned verification measures were carried out and passed.

Risk
- If 100% are not achieved, there are software requirements for which assigned verification measures are present which were not carried out or did not pass.
- Functional / non-functional requirements are potentially not completely verified or not completely fulfilled.



Data response:

#SW.REQ.RCR.TCE.P: Software requirements with passed verification

#SW.REQ.RCR: Software requirements

SW_VERIFID: #SW.REQ.RCR.TCE.P / #SW.REQ.RCR

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KPI Variant 2 “Software verification passed” [SW_TC_VERIFIED]

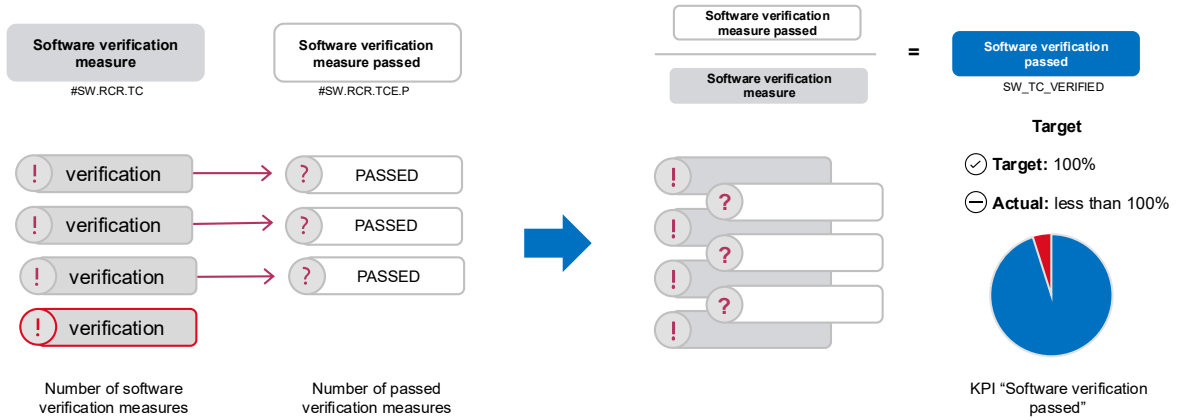
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Target
Proof that all verification measures were carried out and passed.

Explanation
Alle verification measures have been carried out, and the expected result was achieved.

Format
Percentage of passed verification measures.

Risk
- If 100% are not achieved, there are verification measures that were not carried out or did not pass.
- Functional / non-functional requirements are potentially not completely verified or not completely fulfilled.



Data response:

#SW.RCR.TCE.P: Software verification measure passed

#SW.RCR.TC: Software verification measure

SW_TC_VERIFIED: #SW.RCR.TCE.P /#SW.RCR.TC

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KPI “Code quality” [CODE_QUALITY]

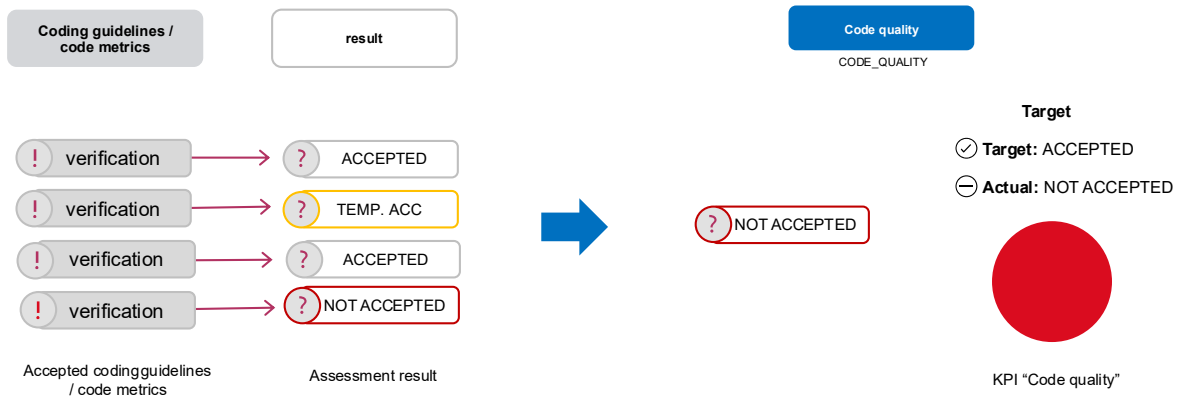
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Target
Proof that all agreed coding guidelines / code metrics were applied.

Explanation
- The code was checked against the coding guidelines and code metrics, and a result was obtained.
- The assessment of the results must be carried out by an independent role (dual control principle). Acceptance of deviations is permitted.

Format
Decision:
- Accepted, no open deviations.
- Temporarily accepted, deviations must be removed by a defined release.
- Not accepted, deviations cannot be accepted.

Risk
- Non-compliance with the requirements can cause e.g. instability of the software, lack of maintainability, lack of expandability, etc.



Data response:

CODE_QUALITY: ACCEPTED / TEMP. ACCEPTED / NOT ACCEPTED

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