

The certification body of TÜV Informationstechnik GmbH
hereby awards this certificate to the company

DXC Technology Deutschland GmbH
Alfred-Herrhausen-Allee 3 - 5
65760 Eschborn, Germany

to confirm that its software product

MORA 100.0.0-2022-S4

fulfils all requirements of the evaluation criteria TIOBE/TÜViT

Trusted Product Maintainability
ISO/IEC 25010 Quality Model, v1.2
Level: ABCDEF

of TIOBE Software B.V. and TÜV Informationstechnik GmbH. The
requirements are summarized in the appendix to this certificate.

The appendix is part of the certificate and consists of 3 pages.

The certificate is valid only in conjunction with the evaluation
report.



Certificate validity:
2022-10-12 – 2024-10-12

Certificate ID: 6480.22
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Essen, 2022-10-12

Dr. Christoph Sutter
Head of Certification Body

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Certificate



Certification scheme

The certification body of TÜV Informationstechnik GmbH performs its certification on the basis of the following certification scheme:

- German document: “Zertifizierungsprogramm (nicht akkreditierter Bereich) der Zertifizierungsstelle der TÜV Informationstechnik GmbH”, version 1.1 as of 2020-03-01, TÜV Informationstechnik GmbH

Evaluation report

- “TIOBE-20220729.001: TIOBE TÜViT Trusted Product Maintainability Evaluation Report for MORA 2022-SA”, version 1.2 as of 2022-09-27, TIOBE Software B.V.

Evaluation requirements

- “Evaluation Criteria TIOBE/TÜViT Trusted Product Maintainability ISO/IEC 25010 Quality Model”, version 1.2 as of 2021-12-16, TIOBE Software B.V. and TÜV Informationstechnik GmbH

Evaluation target

- Software product MORA 100.0.0-2022-S4, DXC Technology Deutschland GmbH as of 2022-07-06.

Evaluation result

- The evaluation was conducted using specific versions of coding standards and compilers with assigned severity levels as indicated in the evaluation report.

- The overall code quality level of characteristic maintainability for the evaluated product is level C out of 6 possible quality levels A-F according to the evaluation criteria.
- The overall code quality level was calculated from the code quality levels of the measured product properties. These are indicated in the following table:

Product property	Quality level
Cyclomatic complexity	A B C D E F
Compiler warnings	A B C D E F
Coding standards compliance	A B C D E F
Code duplication	A B C D E F
Fan out	A B C D E F
Total (maintainability)	A B C D E F

Table: Rating of the product properties and total score

Summary of the TIOBE/TÜViT evaluation criteria

The evaluation criteria TIOBE/TÜViT Trusted Product Maintainability ISO/IEC 25010 Quality Model specify six decreasing code quality levels of the software quality characteristic maintainability. The different levels are represented by letters A (highest quality level) to F (lowest quality level).

The determination of the code quality levels is based on the measurement of five source code product properties. These product properties are cyclomatic complexity, compiler warnings, coding standards compliance, code duplication, and fan out.

To obtain the rating, the measurements of the product properties are mapped to an absolute scale between 0 (lowest possible code quality level) and 1 (highest possible code quality level), expressed in percent. The score for the characteristic maintainability is calculated as the average of the scores of the five product properties.

Six code quality levels A-F are defined for the product properties and for the characteristic maintainability as follows:

ABCDEF: score \geq 90 %

ABCDEF: $80\% \leq$ score $<$ 90%

AECDEF: $70\% \leq$ score $<$ 80%

ABCDEF: $50\% \leq$ score $<$ 70%

ABCDE: $40\% \leq$ score $<$ 50%

ABCDEF: score $<$ 40%

A certificate can be issued for software products having successfully passed the evaluation and reaching an overall code quality level of at least C.