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

Swisslex – Schweizerische Juristische Datenbank AG and its development partner Supercomputing Systems AG

to confirm that its application software

JurSolution 3.1, (V 1.54)

fulfils all requirements of the SIG/TÜViT Evaluation Criteria

Trusted Product Maintainability V4.2 Level: ★★★★☆ (4 stars)

of Software Improvement Group and TÜV Informationstechnik GmbH. The requirements are summarized in the appendix to this certificate.

The appendix is part of the certificate and consists of 4 pages.

The certificate is valid only in conjunction with the corresponding evaluation report until 2015-06-30.

Main-tainability

TPM6426.13

TÜViT ®

2013 Trusted Product

Voluntary Validation

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Certificate-Registration-No.:
TUVIT-TPM6426.13

Essen, 2013-06-10

Dr. Christoph Sutter
Head of Certification Body

Certification System

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

- German document: "Zertifizierungsschema für TÜViT Trusted-Zertifikate der Zertifizierungsstelle TÜV Informationstechnik GmbH", version 1.0 as of 2010-05-18, TÜV Informationstechnik GmbH

Evaluation Report

- "C2011-0904, "JurSolution 3.1, SIG Evaluation Report, Trusted Product Maintainability", version 1.1 as of 2013-05-13, Software Improvement Group

Evaluation Requirements

- "SIG/TÜViT Evaluation Criteria – Trusted Product Maintainability", version 4.2 as of 2012-05-23, Software Improvement Group and TÜV Informationstechnik GmbH

Evaluation Target

- Application software "JurSolution 3.1", (V 1.54) as of 2012-12-13, Supercomputing Systems AG

- The application software was developed by the Supercomputing Systems AG, Technoparkstrasse 1, 8005 Zurich, Switzerland for Swisslex - Schweizerische Juristische Datenbank AG, domiciled in Bern, Switzerland, with offices at Schindlersteig 5, 8006 Zurich, Switzerland.

- Product description of the application software "JurSolution 3.1", (V 1.54), ("High-Level Description Form", version 1.4 as of 2013-05-06, Supercomputing Systems AG)

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Evaluation Result

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The overall quality level of characteristic maintainability for the evaluated product is 4 out of 5 possible stars (★★★★☆) according to the evaluation criteria.

This rating was derived from the ratings of the quality sub-characteristics of maintainability that are determined by product properties.

Results and interdependencies between sub-characteristics of maintainability and product properties are summarised in the following table. Details can be found in the evaluation report.

sub-characteristic of maintainability \ product property	volume	duplication	unit size	unit complexity	unit Interfacing	module coupling	component balance	component independence	result
analysability	X	X	X				X		★★★★☆
modifiability		X		X		X			★★★★☆
testability	X			X				X	★★★☆☆
modularity						X	X	X	★★★☆☆
reusability			X		X				★★★★☆

Table: Mapping of product properties to sub-characteristics of maintainability

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Summary of the SIG/TÜViT Evaluation Criteria

The SIG/TÜViT Evaluation Criteria Trusted Product Maintainability specify five increasing quality levels of software quality characteristic maintainability and its sub-characteristics analysability, modifiability, testability, modularity, and reusability. The different levels are represented by one (★) to five (★★★★★) stars.

The determination of the quality levels is based on the measurement of software product properties by source code analysis. These product properties are volume, duplication, unit size, unit complexity, unit interfacing, module coupling, component balance and component independence. (see table above)

To obtain the rating, the measurements of the product properties are calibrated against a benchmark repository containing a large number of comparable software products. The relative number of products in the repository to which a given number of stars is assigned for a specific property shall follow the distribution:

★★★★★: 5 % of the products

★★★★★: 30 % of the products

★★★★★: 30 % of the products

★★★★★: 30 % of the products

★★★★★: 5 % of the products

The best 5 % of the products of the repository in terms of a given property receive five stars; the next 30 % of the products four stars and so on. The last 5 % of the products finally receive one single star.

A certificate can be issued for software products having successfully passed the evaluation and reaching an overall level of at least three stars for the characteristic maintainability and a minimum of two stars for each sub-characteristic.

Furthermore the software product description must fulfil the following requirements:

- The description identifies the product boundaries and its overall function.

- The description identifies all top-level components of the product.

- The description of the top-level components is such that any software artefact within the evaluation scope belongs to exactly one top-level component.

- The description identifies the role of each top-level component in the product.

- The description contains top-level components of appropriate number and size to facilitate maintenance of the product.

The description shall give a global overview of the software product architecture.