

ProSTEP iViP
Documentation

2nd ProSTEP iViP / VDA JT Translator Benchmark
Long Report

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Abstract

In order to achieve an independent evaluation of the progress being made with regard to the development of JT translators, a JT translator benchmark was carried out for the second time in 2010. The benchmark was managed by the JT Workflow Forum and JT Implementor Forum. The aim was to create a neutral comparison of currently available JT translators with regard to selected test criteria. This means that the results of the benchmark can not only be used to evaluate the application of JT in PLM environments but also improvement to the interoperability of the translators.

The quality of JT export and import were tested. Different combinations of translators and CAD systems were used by way of example. The information to be transferred and the requirements were defined by users in the ProSTEP iViP / VDA JT Workflow Forum. The vendors participating in the benchmark verified the test cases proposed by the users. They were also responsible for making available the translator settings to be used for their respective tools. In 2010, focus was placed on benchmarking the ability to transfer the following elements:

- Geometry (solids)
- Product structure
- PMI annotations
- Material data (the CAD systems' material feature)
- Tessellation (predefined LODs)
- User-defined attributes

JT translators from CT CoreTechnologie, Siemens PLM, T-Systems and Theorem Solutions were tested. CATIA V5 R19 from Dassault Systèmes, NX 6 from Siemens PLM and Pro/E Wildfire 4 from Parametric Technology were used as the sending and receiving systems.

The results of this second ProSTEP iViP / VDA JT translator benchmark are presented in this document.

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