CPO Statement of Gamma Technologies

Following the prerequisites of ProSTEP iViP's Code of PLM Openness (CPO) IT vendors shall determine and provide a list of their relevant products and the degree of fulfillment as a "CPO Statement" (cf. CPO Chapter 2.8).

This CPO Statement refers to:

Product Name	**GT-SUITE**
Product Version	**V2016**
Contact	**Christian Armbruster** **c.armbruster@gtisoft.com**

This CPO Statement was created and published by Gamma Technologies in form of a self-assessment with regard to the CPO.

Publication Date of this CPO Statement: 01 / 07 / 2015

Content

1 Executive Summary

Gamma Technologies (GT) is committed to software openness. GT products are developed with both state of the art proprietary models built-in, as well as with the ability to add their own user created models as needed. GT provides open API's that allow third party product developers as well as independent researchers to add complementary functionality to the core software.

GT products are available with dedicated and generic co-simulation interfaces to approximately 50 third party tools, including those in the CFD, FEA, optimization and design exploration, basic co-simulation, MBD, and controls modeling space.

Company Name:	Gamma Technologies (GT)	**Contact Person:**	Christian Armbruster
Product Name:	GT-SUITE		

CPO Term	**Fulfilled (100%)**	**Comments because of deviations**
2.1 Interoperability	☒	
2.2 Infrastructure	☒	
2.3 Extensibility	☒	
2.4 Interfaces	☒	
2.5 Standards	☒	
2.6 Architecture	☒	
2.7 Partnership	☒	

List of inherent supported neutral standards	API: ☒C/C++ / ☐Java / ☐.NET / ☐Web Services / Others: Fortran 3D: ☒IGES / ☒JT / ☒STL / ☒STEP / ☐VRML / Others: DX: ☐eCl@ss / ☒FMI / ☐IDX / ☐PDF / ☐ReqIF / ☐STEP / ☐VEC

2 Details of Self-Assessment

The following chapters summarize the results of the CPO-related self-assessment of Gamma Technologies with regard to GT-SUITE.

2.1 CPO Chapter 2.1: Interoperability

APIs have the following standard language bindings:

Simulation input data: MySQL, ASCII, Microsoft Excel, ifile, MDF, ZIP

Outputs: MySQL, ASCII, Excel, Powerpoint, PDF, Image files (JPG/JPEG, BMP, PNG, TIF/TIFF)

Revision control software integration: SVN, Microsoft SharePoint

Development environment: C/C++ & Fortran

2.2 CPO Chapter 2.2: Infrastructure

Supported platforms (hardware and OS) are:

Gamma Technologies publishes the supported and discontinued platforms through the following web page:

https://www.gtisoft.com/gt-suite/supported-platforms-and-hardware/

2.3 CPO Chapter 2.5: Standards

Supported data exchange formats:

Exchanging 3D geometry data:

1) IGES, STEP, JT, STL for.
2) Along with many other 3D formats that may not be considered always “neutral” but by some industry/company as “standards” such as ACIS, AMF, AutoCAD, CATIA, DesignSpark, eCAD, Inventor, NX, OBJ, Parasolid, Pro/ENGINEER, Rhino, SketchUp, Solid Edge, SolidWorks, SpaceClaim, VDA

User Interface: Java RE

Co-simulation: TCP/IP, S-Function, FMI

Database: SQL

Model/Results Export: ASCII, PDF, JPG, ZIP

Audio Files: Waveform Audio File Format

2.4 CPO Chapter 2.6: Architecture

The IT system’s architecture is conforming CPO 2.6 — Yes ☒ / No ☐

2.5 CPO Chapter 2.7: Partnership

2.5.1 Data Generated by Users

Data generated by IT users with an IT system is and remains the intellectual property of these IT users, according CPO 2.7.4 — Yes ☒ / No ☐

2.5.2 Partnership Models

Partnership models are offered according CPO 2.7.7 — Yes ☒ / No ☐

2.5.3 Support of User and Innovation Groups

GT is since 10 years an active member of the “Forschungsvereinigung Verbrennungskraftmaschinen e.V.” (FVV, part of VDMA). This activity includes standardization work related to the industry of internal combustion engine and turbomachinery.

2.6 Additional Information