

# CPO Statement of ISD

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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 fulfilment as a "CPO Statement" (cf. CPO Chapter 2.8).

This CPO Statement refers to:

<b>Product Name</b>	<b>HELiOS</b>
<b>Product Version</b>	<b>HELiOS 2015 SP 1, Version 2001.0</b>
<b>Contact</b>	<b>Dr. Markus Grunwald</b> <b>mgrunwald@isdgroup.com</b>

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

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# 1 Executive Summary

We believe that every company has its own processes and that there is no *one size or one software fits all* solution. Thus the increasing interconnectedness of all software solutions needed to implement the process requires the creation of a consistent and open IT structure, which is especially true in the field of PLM. Openness is a basis for the long term success of every company's IT structure and secures investments within this environment.

By signing the Codex of PLM Openness (CPO) the ISD Group supports such openness of IT systems, especially with regard to our PDM solution HELiOS. ISD Group does not only commit itself to meet the requirements of the CPO in the field of product development, but also actively supports technical advancements in this field.

<b>Company Name:</b>	ISD	<b>Contact Person:</b>	Dr. Markus Grunwald
<b>Product Name:</b>	HELiOS		
<b>CPO Term</b>	<b>Fulfilled (100%)</b>	<b>Comments because of deviations</b>	
2.1 Interoperability	<input checked="" type="checkbox"/>		
2.2 Infrastructure	<input checked="" type="checkbox"/>		
2.3 Extensibility	<input checked="" type="checkbox"/>		
2.4 Interfaces	<input checked="" type="checkbox"/>		
2.5 Standards	<input checked="" type="checkbox"/>		
2.6 Architecture	<input checked="" type="checkbox"/>		
2.7 Partnership	<input checked="" type="checkbox"/>		
List of inherent supported neutral standards	API: <input type="checkbox"/> C/C++ / <input type="checkbox"/> Java / <input checked="" type="checkbox"/> .NET / <input type="checkbox"/> Web Services 3D: <input checked="" type="checkbox"/> IGES / <input checked="" type="checkbox"/> JT / <input checked="" type="checkbox"/> STL / <input checked="" type="checkbox"/> STEP / <input checked="" type="checkbox"/> VRML DX: <input type="checkbox"/> eCl@ss / <input type="checkbox"/> FMI / <input type="checkbox"/> IDX / <input checked="" type="checkbox"/> PDF / <input type="checkbox"/> ReqIF / <input checked="" type="checkbox"/> STEP / <input type="checkbox"/> VEC		

## 2 Details of Self-Assessment

The following chapters summarize the results of the CPO-related self-assessment of ISD with regard to HELiOS.

### 2.1 CPO Chapter 2.1: Interoperability

APIs have the following standard language bindings: C# 2.0 (ISO/IEC 23270:2006)

### 2.2 CPO Chapter 2.2: Infrastructure

Supported platforms are Windows 7, 8 and 8.1. Further information can be found at <https://wiki.isdgroup.com/display/FAQ/HELiOS+Desktop>.

### 2.3 CPO Chapter 2.5: Standards

HELiOS provides automation for plot and conversion management. This solution needs to be operated together with CAD-systems that will perform the physical conversion of the file formats. Thus supported data exchange formats vary according to the CAD-systems used. Common exchange formats are:

STEP AP 214 (ISO 10303-214:2010)

JT (ISO 14306:2012)

IFC 2x3 (ISO 10303-21, ISO 16739:2013)

DXF up to Version 2013

DWG up to Version 2013

IGES

STL

VRML (ISO 14772-1:1997)

(3D-)PDF (ISO 32000-1:2008, ISO 19005-1:2005, ISO 14739-1:2014)

### 2.4 CPO Chapter 2.6: Architecture

The IT system's architecture is conforming to CPO 2.6

Yes  / No

The HELiOS desktop client uses a 3-tier architecture:

- Presentation tier presenting the user interface (running on the client)
- Business logic tier (running on the client)
- Data tier (running on the database server / file server)

### 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 to CPO 2.7.4

Yes  / No

#### 2.5.2 Partnership Models

Partnership models are offered according to CPO 2.7.7

Yes  / No

ISD does not provide fixed partnership models. We engage in partnerships using specific models and mutual agreements depending on the individual partner.

#### 2.5.3 Support of User and Innovation Groups

Supported groups are:

- Dutch User Group (<http://www.hicaduser.nl/>)
- Swiss User Group (<http://www.hicad-userclub.ch/index.php>)

## 2.6 Additional Information

ISD provides API documentation for HELiOS along with any installation of the product. The API is based upon the .NET framework. Extensions of HELiOS can be realized using this API and any suitable development environment such as e. g. Microsoft Visual Studio.

ISD guarantees upward compatibility for extensions using the API at least within one release cycle including service packs and patches. In general, though, the interfaces are stable within a lot longer period of time.

Customer-specific menus can be introduced in HELiOS by changing the definition files of the menus. These are standard XML files.

In addition to the API, HELiOS also provides tools for mass import of meta- and document data which allow a file-based exchange of these data in e. g. csv format.