

# CPO Statement of ECS GmbH

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

This CPO Statement refers to:

<b>Product Name</b>	<b>Connect</b>
<b>Product Version</b>	<b>2.x</b>
<b>Product Name</b>	<b>Compose</b>
<b>Product Version</b>	<b>6.x</b>
<b>Contact</b>	<b>Peter Teckentrup teckentrup@ecs-gmbh.de</b>

This CPO Statement was created and published by ECS Engineering Consulting & Solutions GmbH in form of a self-assessment with regard to the CPO.

Publication Date of this CPO Statement: 29 April 2015

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## 1 Executive Summary - Connect

- Connect is a high efficient integration solution and provides ready-to-use pre-implemented integration tasks to setup batch processes between connected business applications.
- Connect is based eCenter connectivity, provides integration connectivity to certain marked leading PLM systems and brings existing business logic of the backend systems into system overlapping processes.
- Connect utilizes standard BPM environment (open source and commercial) to design, deploy, run and monitor background business processes.
- Connect allows customization based on industry proven standards.

<b>Company Name:</b>	ECS GmbH	<b>Contact Person:</b>	Peter Teckentrup
<b>Product Name:</b>	Connect		
<b>CPO Term</b>	<b>Fulfilled (100%)</b>	<b>Comments because of deviations</b>	
2.1 Interoperability	X		
2.2 Infrastructure	X		
2.3 Extensibility	X		
2.4 Interfaces	X		
2.5 Standards	X		
2.6 Architecture	X		
2.7 Partnership	X		
List of inherent supported neutral standards	API: <input type="checkbox"/> C/C++ / <input checked="" type="checkbox"/> Java / <input type="checkbox"/> .NET / <input checked="" type="checkbox"/> Web Services / Others: Please provide, if desired 3D: <input type="checkbox"/> IGES / <input type="checkbox"/> JT / <input type="checkbox"/> STL / <input type="checkbox"/> STEP / <input type="checkbox"/> VRML / Others: Please provide, if desired DX: <input type="checkbox"/> eCI@ss / <input type="checkbox"/> FMI / <input type="checkbox"/> IDX / <input type="checkbox"/> PDF / <input type="checkbox"/> ReqIF / <input type="checkbox"/> STEP / <input type="checkbox"/> VEC Others: Please provide more or URL to product flyers, if desired Remarks: Please provide information, if e.g. certain standards are not supported throughout the whole software suite for which you want to provide this statement.		

## 2 Details of Self-Assessment

The following chapters summarize the results of the CPO-related self-assessment of ECS Engineering Consulting & Solutions GmbH with regard to Connect.

### 2.1 CPO Chapter 2.1: Interoperability

APIs have the following standard language bindings: Java, SOAP, PLM specific API's

<http://www.ecs-gmbh.de/en/products/connect/connect-general.html>

### 2.2 CPO Chapter 2.2: Infrastructure

Supported platforms (hardware and OS) are:

Operation Systems:

- Windows
- Linux
- Solaris

Hardware: Processor: X86 32-64, ARM

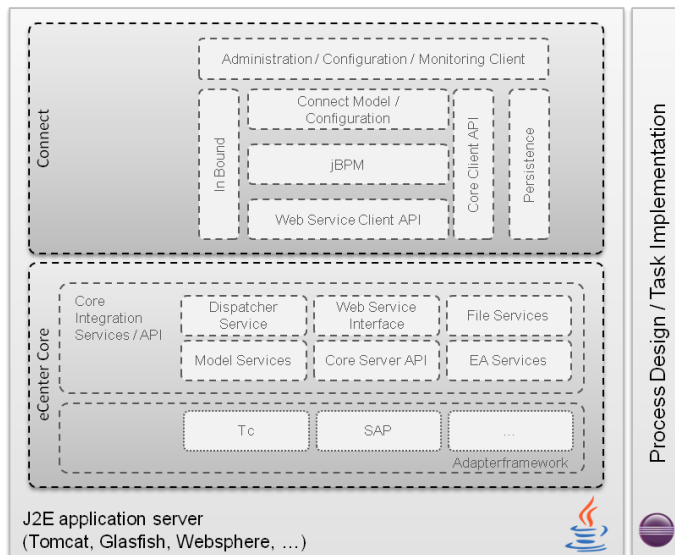
### 2.3 CPO Chapter 2.5: Standards

Supported data exchange formats: n/a

### 2.4 CPO Chapter 2.6: Architecture

The IT system's architecture is conforming CPO 2.6

Yes  / No



- **Connect is based on J2E Standards**
  - J2E application server for server components runtime and client distribution
  - JRE for administration client with Java Webstart
- **Modeling and execution of business processes across applications**
  - Embedded jBPM Workflow Engine
  - Graphical process design
  - Synchronous or asynchronous execution
  - Process initiation by URL /SOAP call or time schedule
- **Administration and monitoring client**
  - Queues, connections, requests, processes, recovery points
- **Customization methodology**
  - eCenter module concept for separation of standard and customization
  - Command plugin concept for clear modification of standard functionalities
- **Available PDM system adapters**
  - Teamcenter based on Tc SOA API
  - Teamcenter Enterprise based on Enterprise Service API
  - SAP based on JCo/BAPI
  - Windchill based on Java RMI API

## 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 X / No

### 2.5.2 Partnership Models

Partnership models are offered according CPO 2.7.7 Yes X / No

<http://www.ecs-gmbh.de/en/products/connect/connect-general.html>

### 2.5.3 Support of User and Innovation Groups

Supported groups are:

Please provide names and, if available, related URLs to the homepages of the groups

## 2.6 Additional Information

Statements concerning CPO Chapter 2.3 “Extensibility” and Chapter 2.4 “Interfaces” can be noted here. For example, statements concerning “Development Environments”, “Third-party Integration”, “Version and Release Compatibility”, possibilities for “Batch Processing” and “Cancellation”.

You can note related URLs where related information can be found.

### 3 Executive Summary - Compose

- Compose is a neutral, easy-to-use, easy-to-learn and easy-to-deploy user interface environment and enables the simultaneous management of business data from different sources, such as product data and documents from PLM.
- Compose combines modern standard software technology and IT infrastructure efficiently into one application.
- Compose is based on a system concept, which places the user in the middle of a heterogeneous system landscape.
- Compose presents the user a homogeneous UI, connected to different applications by process steps.
- Compose GUI is a configurable Web desktop, which unites Internet technology and Desktop functionality.

<b>Company Name:</b>	ECS GmbH	<b>Contact Person:</b>	Peter Teckentrup
<b>Product Name:</b>	Compose		
<b>CPO Term</b>	<b>Fulfilled (100%)</b>	<b>Comments because of deviations</b>	
2.1 Interoperability	X		
2.2 Infrastructure	X		
2.3 Extensibility	X		
2.4 Interfaces	X		
2.5 Standards	X		
2.6 Architecture	X		
2.7 Partnership	X		
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## 4 Details of Self-Assessment

The following chapters summarize the results of the CPO-related self-assessment of ECS Engineering Consulting & Solutions GmbH with regard to Compose.

### 4.1 CPO Chapter 2.1: Interoperability

APIs have the following standard language bindings: Java, SOAP, PLM specific API's

<http://ecs-gmbh.de/en/products/compose/compose-general.html>

Remark: If detailed information with regard to bindings are not given (e.g. C++, instead of C++11 (ISO/IEC 14882:2011), maybe additional clarification efforts arise.

### 4.2 CPO Chapter 2.2: Infrastructure

Supported platforms (hardware and OS) are:

Operation Systems:

- iOS
- MAC OS
- Windows
- Linux
- Solaris

Hardware: Processor: X86 32-64, ARM

### 4.3 CPO Chapter 2.5: Standards

Supported data exchange formats: n/a

Please provide relevant information or URL to product flyers providing relevant information

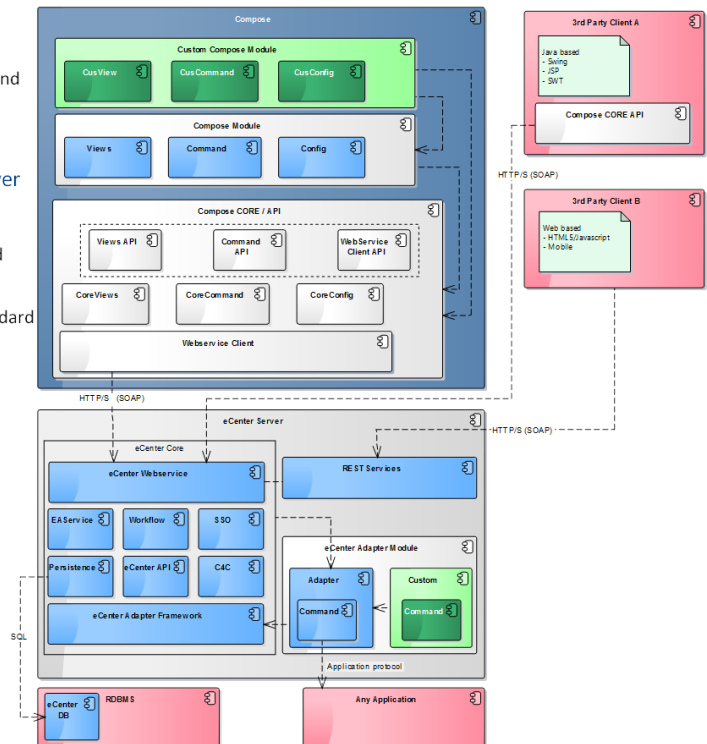
Remark: If detailed information with regard to name and version (e.g. STEP AP 214 (ISO 10303-214:2010)), considered Implementation Guidelines (e.g. CAX-IF Recommended Practices) and potential participation in related Implementor Forums (e.g. CAX-IF) are not given, maybe additional clarification efforts arise.

### 4.4 CPO Chapter 2.6: Architecture

The IT system's architecture is conforming CPO 2.6

Yes  / No

- **Compose is based on J2E Standards**
  - J2E application server for server components runtime and client distribution
  - JRE for client with Java Webstart
- **Web service communication between client and server**
- **Customization methodology**
  - eCenter module concept for separation of standard and customization
  - Command plugin concept for clear modification of standard functionalities
- **Single sign on support**
  - Kerberos based authentication is OOTB
  - PKI implementation in production with customers
- **Available PDM system adapters**
  - Teamcenter based on Tc SOA API
  - Teamcenter Enterprise based on Enterprise Service API
  - SAP based on JCo/BAPI
  - Windchill based on Java RMI API



## 4.5 CPO Chapter 2.7: Partnership

### 4.5.1 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 X / No

### 4.5.2 Partnership Models

Partnership models are offered according CPO 2.7.7 Yes X / No

<http://ecs-gmbh.de/en/products/compose/compose-general.html>

### 4.5.3 Support of User and Innovation Groups

Supported groups are:

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## 4.6 Additional Information

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