



**PDES, Inc.® was formed in 1988**

**as a member-supported consortium accelerating the development and implementation of product data standards.**



**Launch of PDES, Inc. - 1988**

The original members, McDonnell Douglas, Grumman, General Dynamics, Boeing, Northrop and Lockheed, agreed to collaborate on the development and deployment of STEP standards.

1988



**AP 203 became an International Standard** for configuration controlled 3D design of mechanical parts and assemblies.

1990



**Plugfest**

Eleven vendors participated in the first test of AP 203 commercial software products.



**First Production Use of STEP**

STEP enabled McDonnell Douglas to exchange C-17 configuration management data between Long Beach and Saint Louis facilities.



**Boeing Used STEP on 777**

STEP was used to exchange information among Boeing and three engine manufacturers to support digital pre-assembly of the 777 engine/strut interface.

1995



**Upward compatibility requirement identified**

to enable evolution, reuse, and long term retention of product data.



**Rockwell Collins led development of AP 210,**

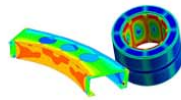
**which became an International Standard.**

It is used to allow exchange of electronic assembly, interconnect, and packaging design data.



**PDES, Inc. and ProSTEP**

combined their interoperability testing forums to form the CAX Implementor Forum, providing member companies with an efficient way to exchange ideas and experiences.



**Lockheed Martin led development of AP 209,**

**which became an International Standard.** Started as a joint PDES, Inc./Air Force funded program, it is used to describe and analyze metallic and composite structures.

2000



**GM's STEP Translation Center**

**established** to communicate design information between GM divisions and increase collaboration with first tier suppliers.



**Eurofighter Program launched**

**STEP into Production** BAE Systems, EADS and Alenia used STEP to share configuration management data for design.



**STEP Endorsed by Joint Commanders and U.S. Navy** as a proven, valuable method for the exchange of product data for critical weapons systems.



**First Modular AP** developed featuring plug-and-play ability for easy integration with other APs.

2005



**A National Institute of Standards and Technology study** estimated the impact of imperfect interoperability in the U.S. automotive supply chain as over \$1 billion per year.



**Industry investment in STEP** reached \$200,000,000 as a testament of the high ROI standardization achieves for users.

2010



**PDES, Inc. membership reached 25 member organizations** from France, Germany, Norway, Sweden, the United Kingdom, and the United States.



**STEP is widely used in diverse industries** and millions of products every year.



**AP233 (Systems Engineering)** was published.



**LOTAR published International Standards** to help design and engineering enterprises retain their 3-D product definition.

**The Customer Supplier Interoperability (CSI) project** won the Defense Manufacturing Conference (DMC) Excellence in Manufacturing Award.

2015



**PDES, Inc. celebrated its 25th Anniversary** with 26 member organizations from industry, government and academia.



**PDES, Inc.'s mission has evolved**

**to support the Digital Enterprise through the development, testing, and implementation of information standards to support Model-based Engineering, Model-based Manufacturing, and Model-based Sustainment.**