OpreX™ Data Model Broker

Design Data Validation

Various design tools

P&ID

Plant 3D Model

Industry standard file format

ISO15926

IDF *
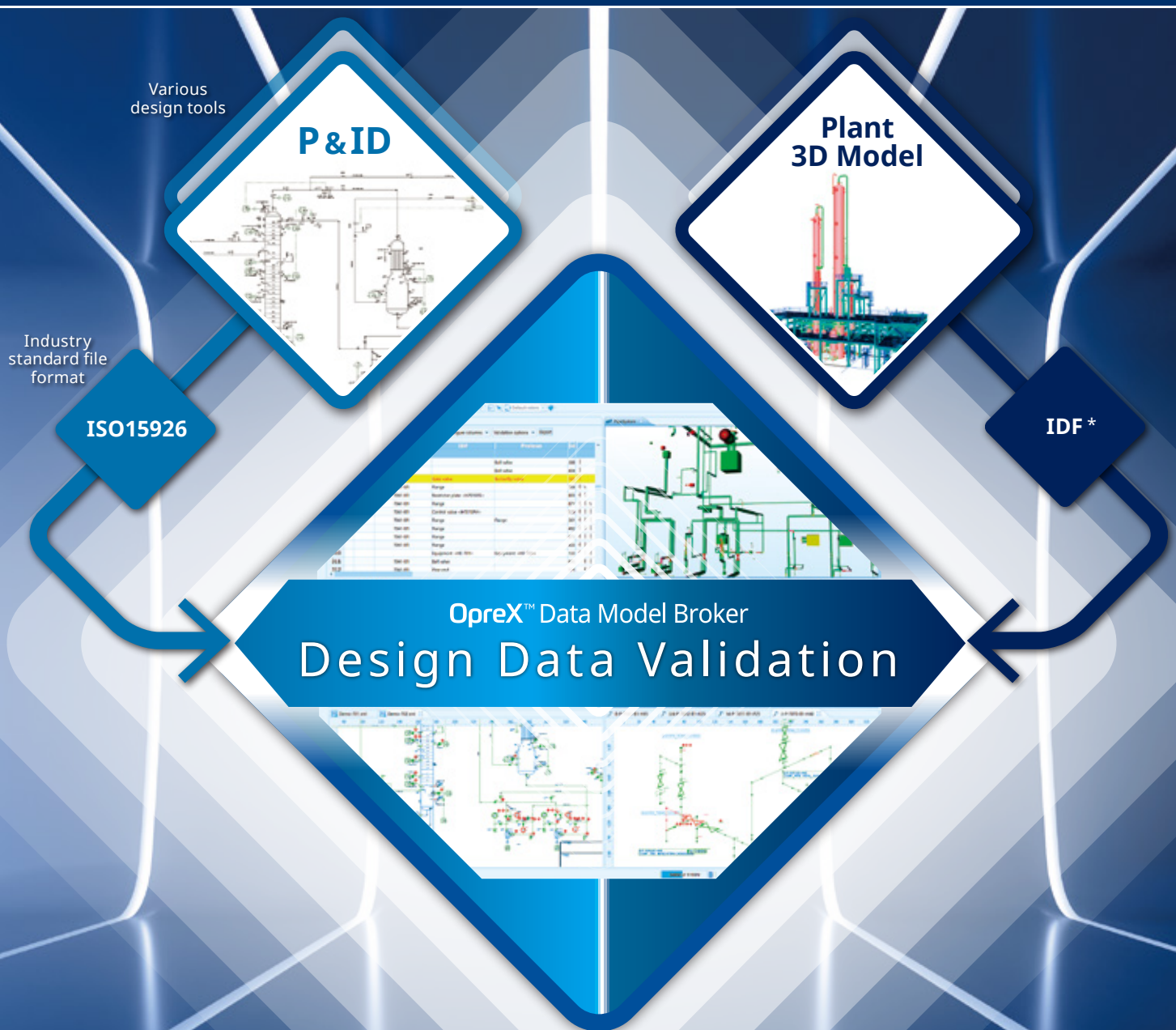
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Value Proposition

Yokogawa is promoting to utilize data and digital technologies as part of DX in order to improve engineering efficiency. Design Data Validation provides the benefits shown on the right by automating the validation between P&ID and 3D pipe drawing, which had problems in data consistency check work.

- Reduce enormous work time and man-hours required for data consistency check

- Improve work efficiency by eliminating human error

- Reduce risk of erroneous order of piping materials

* IDF: Intermediate Data File

◀▶ Comparison and validation

The following types of consistency are automatically validated by using P&ID and 3D piping isometric drawing file.

Validation type	Function summary
Piping attributes	Validate the match / mismatch between each piping attributes on P&ID and isometric drawing.
Piping specification of flange	If a change of piping specification is specified at the valve end, validate the match / mismatch of piping specifications of the corresponding valve and the accompanying flange in the isometric drawing.
Attributes and order of each piping component	Validate the match / mismatch of attribute values for each piping component. In addition, validate the match / mismatch of the order of piping component.
Installation direction of piping component	Validate whether the flow direction of each piping component on the isometric drawing matches the process flow direction on P&ID.

◀ Screen Layout ▶

Comparison view of validation results

3D piping model highlighted by validation results

Validation results can be checked with main **4 types** of **views**

Multiple views can be **displayed together** and **jumped between** views, the validation results can be checked efficiently.

P&ID highlighted by validation results

Isometric drawing highlighted by validation results

◀▶ Report

Export validation result

◆ A list of consistency check results can be exported with Microsoft Excel format.

◆ P&ID and isometric drawing with highlighted inconsistencies can be exported with PDF format.

◀▶ System distribution

It is provided as SaaS using the cloud environment. It can be accessed from anywhere thus the consistency check is possible at any time. The validation results can be displayed offline by using dedicated desktop viewer.

OpreX™ Through the comprehensive OpreX portfolio of products, services, and solutions, Yokogawa enables operational excellence across the enterprise.

Visit our website at :
https://www.yokogawa.com/solutions/solutions/connected-intelligence/oprex-data-model-broker/

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