Automotive Focus
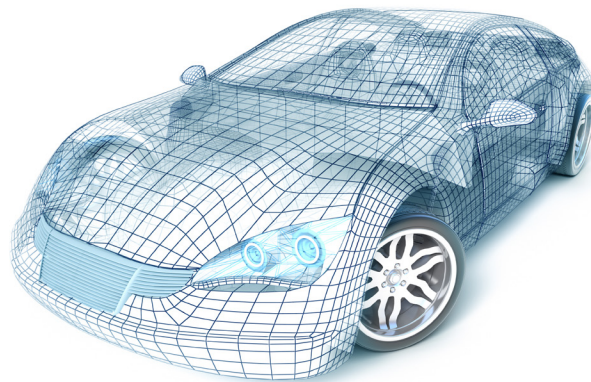
To remain competitive, automotive manufacturers are implementing model-based enterprise (MBE), advanced simulation and PLM initiatives supported by best-in-class engineering systems. However, data interoperability issues can impede progress.

ITI solves complex interoperability problems, supporting key aspects of MBE and PLM implementation including: product design, computational analysis, engineering change management, regulatory compliance, long term archival, technical data packaging, and secure engineering information transfer.

ITI solutions for data conversion, integration, validation and migration ensure success

- Robust and stable 3D CAD geometry and 3D PMI for use throughout the lifecycle of the automotive product

- Reduction in cost impact of engineering errors and escapes for 3D product data

- Rapid identification of changes in 3D geometry and PMI when new CAD model revisions are received from customers

- Validation of the accuracy of derivative CAD models as they are translated for supply to manufacturing and collaborative partners

- Creation of an accurate and fully validated long term archival system (LOTAR), achieving automotive regulatory compliance

- Reduction in lead times and model rework for advanced simulation, collaboration and manufacturing processes

- Creation of fully validated technical data packages and secure data exchange across the automotive supply chain

ITI Technology

CADfix

CADIQ

DEXcenter

DrawtoPMI

Proficiency

About ITI

ITI is the global leader providing reliable interoperability, validation and migration solutions for product data and related systems. Our customers recognize the value in having a trusted solution partner that provides more than just software. ITI solves complex product data interoperability problems so that the world's leading manufacturers can focus on making great products.
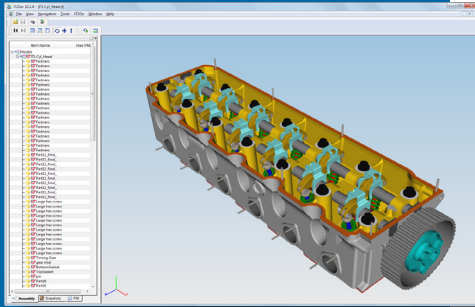You need to keep your engineering initiatives moving forward.

ITI is a certified JT Collaboration Partner

ITI's solutions offer clients the ability to translate and validate JT models with ease. The ability to seamlessly share and verify JT files between automotive OEMs and suppliers ensures data compliance with the ISO standard for viewing and sharing lightweight 3D product information.

**Maximize technology.
Drive program success.**

Create Momentum

ITI

International TechneGroup
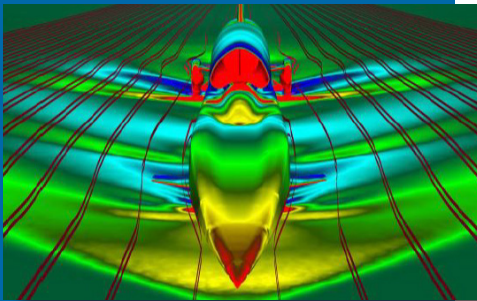
Automotive Focus

Approved JT Supplier

Multi-CAD interfaces, combined with advanced geometry diagnostics, repair and translation tools in a user friendly wizard interface, ensure that CADfix meets industry requirements for JT based interoperability between customers and suppliers.

Bloodhound SSC

Using the CADfix API, the Bloodhound Supersonic Car CFD team developed an integration between the FLITE surface mesh generator and CADfix, that would act as a critical link between NX CAD files and the FLITE meshing algorithms.

Customer Success

Automotive OEMs have applied ITI technology to achieve success on a wide range of programs and projects including:

- Migration of over 100,000 SOLIDWORKS files, plus integration, into new, centralized Teamcenter installation for tier one automotive engine timing system manufacturer.

- Verification of CAD model quality at a tier one automotive supplier for internal and external consumption; streamlining thermo-mechanical CAE analyses by ANSYS Workbench.

- **Migration of over 1 million Creo files** from a Matrix environment to a new PDMLink system **in one weekend**, for major diesel engine manufacturer.

- Simplification of large supplier machine models for North America's largest automotive manufacturer, for easy use in their overall plant layout models.

- Conversion of over 5,000 Inventor files to NX before loading to Teamcenter, along with a mass migration of data from Autodesk's Vault for the leading global manufacturer of heavy duty axle systems for commercial transport.

- Validation of derivative CAD files, and revision comparison to identify internal changes made in the shared design process for the leading global manufacturer of automotive safety-critical components.

- Fully automatic transfer of native CATIA V5 data between leading powertrain thermal energy management group based in France and leading automotive OEMs who have various specific CAD format requirements.

- CAD validation at major US auto manufacturer, identifying and minimizing model quality defects, and estimating/tracking number of opportunites for each type of geometry and topology defect. Enabled all divisions to estimate six-sigma quality levels for a specified set of models.

Clients we serve

ITI's automotive clients include: Autoliv, Benteler, Borg Warner, Caterpillar, Continental Automotive, Cummins Engine, Daihatsu Motor, Daimler, Dana, Delphi Interior, Ford, Hendrickson, Inalfa, Intier, John Deere, Johnson Controls, Key Safety Systems, MAHLE, Mazda, Mercedes-Benz R&D India, Meritor, Parker Hannifin, Robert Bosch, TATA Motors, Toyota Motor, TRW, Valeo, Yamaha Motor, and more.

Key Program Contributions	Vendor Partnerships	Industry Alliances	
DoD NIST MBE PMI Validation	PTC Platinum Partner	AIAG	NACFAM
DoD TDP Integration & Validation	Dassault Systemes Solution Partner	CAX-IF	NCMS
Digital Mfg and Design Innovation Initiative	Siemens PLM Solution Partner	CIMdata	NDIA
UK Projects: GHandI, AuGMENT, GEMinIDS, and ICE NITE	ARAS ISV Certified Partner	JAMA	PDES, Inc.
	Autodesk Development Partner	LOTAR	ProSTEP
		NAFEMS	SASIG

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