



Information Resources, Applications and Services for Product Design and Supply Chain Management

Manufacturers in every industry are challenged to manage the opportunities and risks of developing successful products in today's stressed economic climate.

Companies around the world are under pressure to innovate, improve quality and reduce costs as technology continues to advance, supply chains continue to expand, and new regulations and consumers drive demand for green products.

How can your organization plan, develop, and sustain successful products in this complex, dynamic environment?

Information is the key. Many organizations react to situations as they arise and rely on historical trends to guide strategic decisions. Some manufacturers take a case-by-case approach to address design, obsolescence and compliance issues. Others rely on disparate data on web sites for the latest component and supplier information, or use spreadsheets to attempt to manage complex market forecasts or product plans and configurations over lifecycles that can last for decades. However, as markets and products become more complex and sustainment requirements grow, the cost of inefficient practices and potential risks have spiraled upwards.

Advance innovation and operations to achieve market leadership

IHS is the source of critical information and insight to advance decisions across the enterprise. From the earliest stages of market analysis and product planning through design, production, and sustainment, IHS provides the insight, analysis, data, and software tools and services to advance and improve decisions and processes.

Manufacturers in every industry rely on IHS for integrated solutions that enhance productivity to enable professionals to focus on high value development, analysis and process improvements.

Research and Analysis

Country-by-country market and economic forecasts, competitive, cost and technical analysis

Information Resources

Indexed and normalized databases for powerful searching across thousands of manufacturers; includes supplier documents, compliance data and proprietary lifecycle forecasts

Product Content Management Tools Identify, compare and actively monitor part status, critical end-of-life notices; control product configurations individually or enterprise-wide

Available Where Required

Decision support information accessible via IHS applications or integrated in the client's internal systems



Comprehensive Design & Supply Chain Management Capabilities

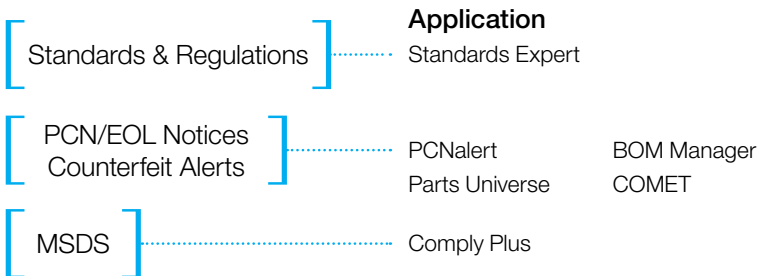
Market, Industry & Technology Research & Analysis



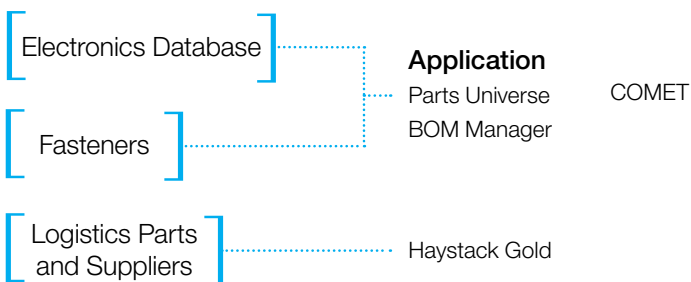
Design Data & Methods



Document Databases



Component & Supplier Databases



Services



Product Notice Distribution



Solutions

Planning, Analysis and Forecasting

- Country and market research
- Technology trends and forecasts
- Component and product costs
- Environmental regulations
- Manufacturability

Product Development

- Standards and regulations
- Component research and selection
- Performance optimization
- Configuration management

Product Content Management

- Data Cleansing
- Component status and sources
- Life cycle and years to end of life forecasts
- Cross-references

Green Design / Environmental Compliance

- EU and China RoHS compliance data and documentation
- Material content attributes and documentation
- REACH compliance, validation data and documentation

Risk Management

- Component obsolescence
- Counterfeit parts
- Supply chain optimization
- Compliance audit trail and verification

Supply Chain Management

- Consolidate parts and suppliers
- Supplier communication practices
- Alternate and aftermarket suppliers

Data Transformation

- Data cleansing and normalization
- Custom data collection and loading
- Component database updates
- Taxonomy development and implementation

Consulting Services

- Environmental Regulation Compliance
- Process Engineering and Optimization
- ITAR Compliance

Resources

Market, Industry & Technology Research & Analysis

iSuppli

- Electronics technology research and advisory services for market segments including computer platforms, automotive, consumer electronics, wired and wireless communications
- Value chain research and analysis from raw materials, to pricing, end-markets trends and demand
- Device-specific application market forecasts, teardown analysis and hardware design forecasting

Global Insight

- Economic and financial analysis, forecasting, and market intelligence
- World, region, and country risk and opportunity analysis
- Forecasts for more than 1200 global price, wage, and manufacturing costs
- Consulting services to develop solutions and strategies that enable improved profitability and reduced costs

Design Data & Methods

Engineering Sciences Data Unit (ESDU)

- Engineering design tools for more than 1500 aerodynamics design and process engineering topics
- Fully developed prediction methods calibrated against qualified data from multiple sources
- Validated by industry, professional association and academic experts
- Contains principles, methods, equations, data, worked examples and software
- Includes access to ESDU subject experts

Document Databases

Standards and Regulations

- More than 1 million documents from 370 Standards Development Organizations (SDOs)
- Government Regulations and Codes
- 350,000 US Military Standards and Specifications
- Document status and history

Product Change Notifications

- Continuously monitors more than 600 component manufacturer
- Product Change, Discontinuance, End of Life Notifications
- Counterfeit Alerts
- GIDEP Alerts

MSDS

- 1.5 million Material Safety Data Sheets
- Consistent information on health, safety, and environmental matters of material(s)
- Essential hazard information (including transport, handling, storage and emergency actions) from the supplier to the recipient

Component & Supplier Databases

Multiple access methods including on-line, DVD, behind-the-firewall, and web services

Electronics Database

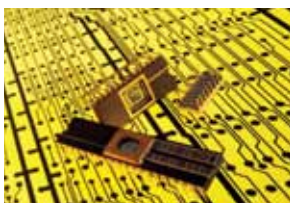
- More than 550 component manufacturers
- 400 part categories
- Technical, performance, compliance, manufacturability attributes
- Availability status, life-cycle stage and years to end of life forecasts
- Distributor price and availability data
- RoHS and REACH compliance status
- Hazardous material content and weight
- Manufacturer's datasheets, change notices, compliance documents, and counterfeit alerts
- Full Material Disclosure data sheets

Logistics Parts and Suppliers

- More than 100 million item records from the US, UK and Canadian supply catalogs
- Extensive current and historical part and stock number information
- Over 70 government, U.S. Army, Navy, Air Force, Marine Corps, Coast Guard, commercial and related databases
- National Forging Tooling Database with information on over 350,000 hard to locate forged items
- Part availability and lead time through vendor inventory listings
- Over 70 million current and historical government purchasing and procurement records

Fasteners

- 16 million aerospace industry standard fasteners specified by AIA/NAS, ASME, BSI, DIN, US Defense Logistics
- 17 categories including bolts, screws, nuts, washers, rivets, bushings, spacers and studs
- Parametric attributes
- Links to reference standards



See back page for Applications and Services

Applications

Parts Universe

Electronic Component and Supplier Selection

- Single part search by part number, characteristic or manufacturer
- Cross-references
- Side-by-side comparison
- Lead-free replacements
- Alternate and aftermarket suppliers

Haystack Gold

Logistics parts sourcing and management

- Comprehensive report generation tools with multiple electronic output formats
- Visual part and stock number obsolescence indicators
- Access multiple data sources from a single search

COMET

Bill of Materials Management

- Data cleaning with knowledge base builder
- Daily PCN / EOL notice updates
- BOM health score
- Environmental compliance score
- Sole-source supplier report
- Replacement parts and suppliers
- Analysis and resolution status notes

Standards Expert

Standard Management System

- Document number, name or full-text keyword search
- Customized document collections to meet project/organization requirements
- Enterprise-wide 24/7 access
- Equivalence references
- Standard update alerts
- Custom watch lists
- User notes
- 12 Languages

BOM Manager

Advanced Bill of Materials Management

- Includes all COMET features with additional capabilities
- Indentured, hierarchical product structure content management
- Corporate Approved Manufacturer List (CAML) to track internal part to multiple supplier parts
- Assembly Health score
- Custom reports

PCNAlert

Obsolescence and Counterfeit Risk Management

- Matches part numbers referenced in notifications to users AVL parts
- Key dates including effective date and last time buy
- Indicates number of affected AVL parts
- Indexed for reference and retrieval of history notices
- Management tools to analyze resolution priorities and processes

ESDU Design Data Items

Design Tools, Methods and Software

- Detailed descriptions of the principles on which methods are based
- Best analysis methods described with ranges of accuracy, references, derivation lists, and worked examples
- Stated limits of the method's applicability with guidance for interpreting results in a practical engineering context
- Detailed calculation diagrams to show program data flows
- Capture conditions and reuse previous calculations

Services

Web Services

Integrate IHS component data with internal systems

- Augment internal information resources with current attribute and status data and documents from IHS Electronics Database, Logistics Parts and Suppliers and Fasteners Databases
- Uses standard XML calls to integrate with internal PLM and ERP systems

Custom Data Services

Custom data collection services

- ISO-Certified data collection, organization, formatting and uploading processes
- Requirements analysis
- Taxonomy development and implementation
- Data cleansing
- Component attribute data and document collection and normalization

Product Change Management System

Distribute product information and build customer relations

- Communication tools and processes to inform prospects and customers of product events
- Tailored communications and distribution to prospects, critical customers, and internal staff
- Closed-loop system to verify receipt
- Notification history and acknowledgement status
- Self-service web portal to provide public or private access to product change documents

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