



TPP

Environmental Compliance  
Obsolescence Management

Data Management Solutions  
for Environmental Compliance,  
Conflict Minerals Reporting,  
& Obsolescence Management



## Conflict Minerals

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To comply with the SEC's conflict minerals requirements, companies will have to identify components containing conflict metals, determine country of origin, review each suppliers' records for compliance, identify at risk suppliers, and finally, review aggregate supplier data on entire BOMs to determine conformity to the requirements.

**Total Parts Plus provides a turnkey solution for quick and easy compliance. TPP will provide EICC/GeSI declarations from suppliers, ensure accuracy and completeness, and organize data into easily retrievable reports for quick and effortless declaration of conformity.**

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### Customers can easily:

- Identify non-RoHS compliant components
- Run BOM or product level RoHS certificates based on supplier declarations
- View full material declarations
- Access component data library for Technical Documentation
- Evaluate components for environmental compliance during the product design phase
- Review supplier provided RoHS certificate of compliance
- Export directly to internal PLM systems with XML API

## REACH

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REACH mandates additional requirements on products containing SVHCs in concentrations above 0.1%. New SVHCs are added every six months and SVHCs listed in the "Authorization List" are not allowed in the EU unless the company is granted authorization. To comply, companies must obtain supporting documentation from each supplier, validate their claims for conformity, review components material declarations for the presence of SVHCs, and roll up SVHC concentrations to product or BOM level to determine REACH compliance.

**TPP provides supplier data and supporting documentation to include material declarations and supplier certifications. All data is checked for quality and completeness and organized into easily retrievable reports for efficient and easy REACH compliance management and product certification.**

### Users can run reports to:

- Identify parts and components subject to conflict minerals legislation
- Identify country of origin of conflict metals in the supply chain
- Generate conflict minerals reports based on supplier provided EICC/GeSI documents
- Identify non-compliant and at risk suppliers
- Aggregate EICC/GeSI supplier responses
- Identify suppliers reported smelters by metal
- Identify smelters as CFS, non-CFS compliant, or of unknown origins
- Access suppliers EICC/GeSI forms and data library
- Export directly to internal PLM systems with XML API

## RoHS II

RoHS II will incrementally lift exemptions for many categories of EEE over the coming years and has redefined EEE to include products previously out of scope. To comply, companies must obtain supporting documentation for each component, validate supplier claims for conformity, review components material declarations, and finally, assess aggregate suppliers data on entire BOMs to determine product conformity.

**TPP can provide a turnkey RoHS solution and reduce the cost of compliance by providing required documentation and supplier certifications. All data is checked and verified for quality and loaded into the database for quick access and efficient RoHS compliance management and product certification.**

### In addition, customers can:

- Access full material disclosure by component
- Run BOM level REACH compliance reports based on supplier declarations
- Identify components with substances on the Authorization List
- Access component data library for Technical Documentation
- Evaluate components for environmental compliance during the product design phase
- Review supplier provided REACH declarations
- Export directly to internal PLM systems with XML API

## Material Content Analysis

TPP gathers part data down to the homogenous level for full material content reporting, regardless of the declaration requirement. All materials, weights, and measures can be rolled up to the product level for creating compliance reports in custom formats, and in IPC-175x as XML or PDF.

### Key data fields include:

- Substance Name
- CAS Registry Number
- Concentration Levels
- Weight
- Substances Locations & Uses
- Associated Documentation

Material	Material Mass	Substance	CAS	Substance Mass	Concentration
Gold	0.0289 mg	Gold	7440-57-7	0.0289 mg	100 %
Epoxy, Silver Filled	0.1078125 mg	2,2' dimethylethyl	129915-3	0.016171875 mg	15 %
		Silver	7440-22-4	0.091640625 mg	85 %
Matte Tin	2.874 mg	Tin	7440-31-5	2.874 mg	100 %
Copper Alloy	1.861156251 mg	Copper	7440-50-8	1.861156251 mg	100 %
		Iron	7439-89-6	0.041503784 mg	2.229999979 %
		Lead	7439-92-1	0.000018612 mg	0.001000024 %

## Technical Documentation

TPP's CMM shows due diligence with supporting documentation and disclosures, which can be downloaded by part or aggregated by BOM. Documents are maintained for your product parts so the compliance status stays current to the latest standards and part data available.

### Compliance disclosures in accordance with:

- REACH/SVHC
- RoHS II
- China RoHS
- Conflict Minerals Declarations
- Halogen-Free
- Full Materials Declarations

## BOM Management

A customizable interface delivers flexible BOM and compliance data management, and creates reporting formats specific to customer requirements. Data exports are available for all reports in XML and Excel formats for integration with your current enterprise software.

### Capabilities:

- Compliance Flagging
- Drop-in Replacements
- IPC-1752A Generator
- Custom Reporting Templates
- One-Click Document Export
- Customizable User Interface

Manufacturer	RoHS	REACH	Conflict Metals	Halogen	Proprietary
Maxim	✓	84	✓  EICC GeSI	✓	✓
Fairchild Semi	✓	138	✓  EICC GeSI	K	⊗
MAXIM	✓	138	✓  EICC GeSI	✓	⊗
Texas Instruments	✓	138	✓  EICC GeSI	✓	✓
Fairchild Semi	✓	138	✓  EICC GeSI	✓	⊗
MAXIM	✓	138	✓  EICC GeSI	✓	✓
Fairchild Semi	✓	138	✓  EICC GeSI	✓	⊗
Fairchild Semi	✓	138	✓  EICC GeSI	✓	⊗
Fairchild Semi	✓	138	✓  EICC GeSI	✓	⊗



# Obsolescence Management



Reduce the risks and costs of future obsolescence and extend the life of your product design and lifecycle.

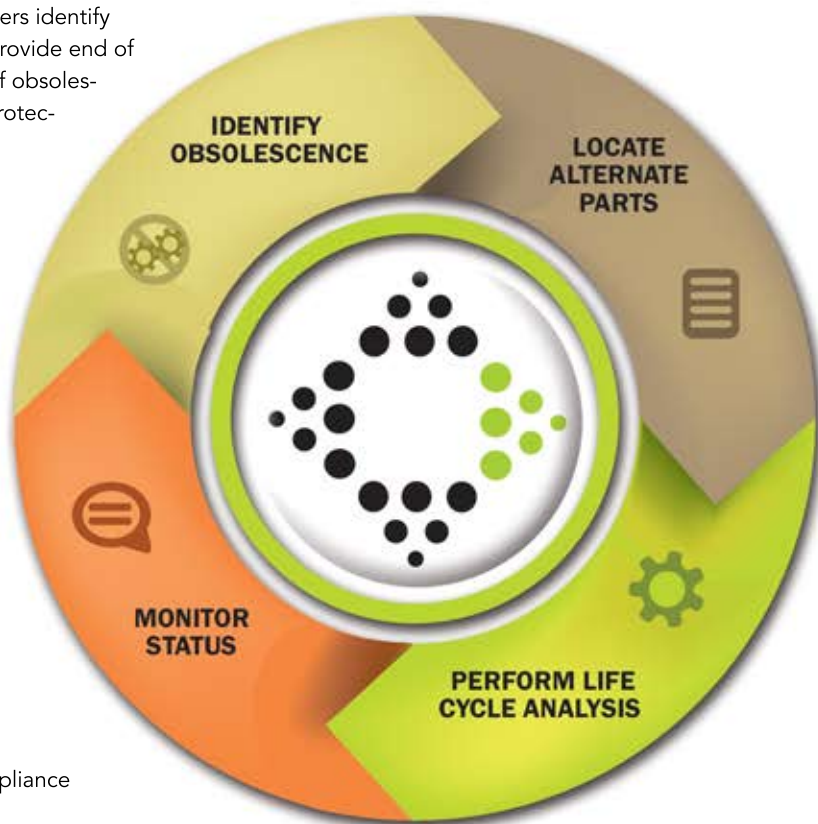
Many electronic components have a very short lifecycle compared to the products or systems that they go into. This lifecycle mismatch causes obsolescence problems during the products field life, and occasionally before the product is even fielded.

TPP provides tools and data services for obsolescence and environmental compliance management (REACH, RoHS, and Conflict Minerals) to help users identify obsolete components, replacement parts, second sources, and to provide end of life notices as they become available. TPP's tools mitigate the risk of obsolescence throughout the life of the product and provide a blanket of protection against the unexpected.

TPP's obsolescence predictive algorithms forecast the future availability of components and anticipate end of life, ensuring users stay informed of potential risks before they occur.

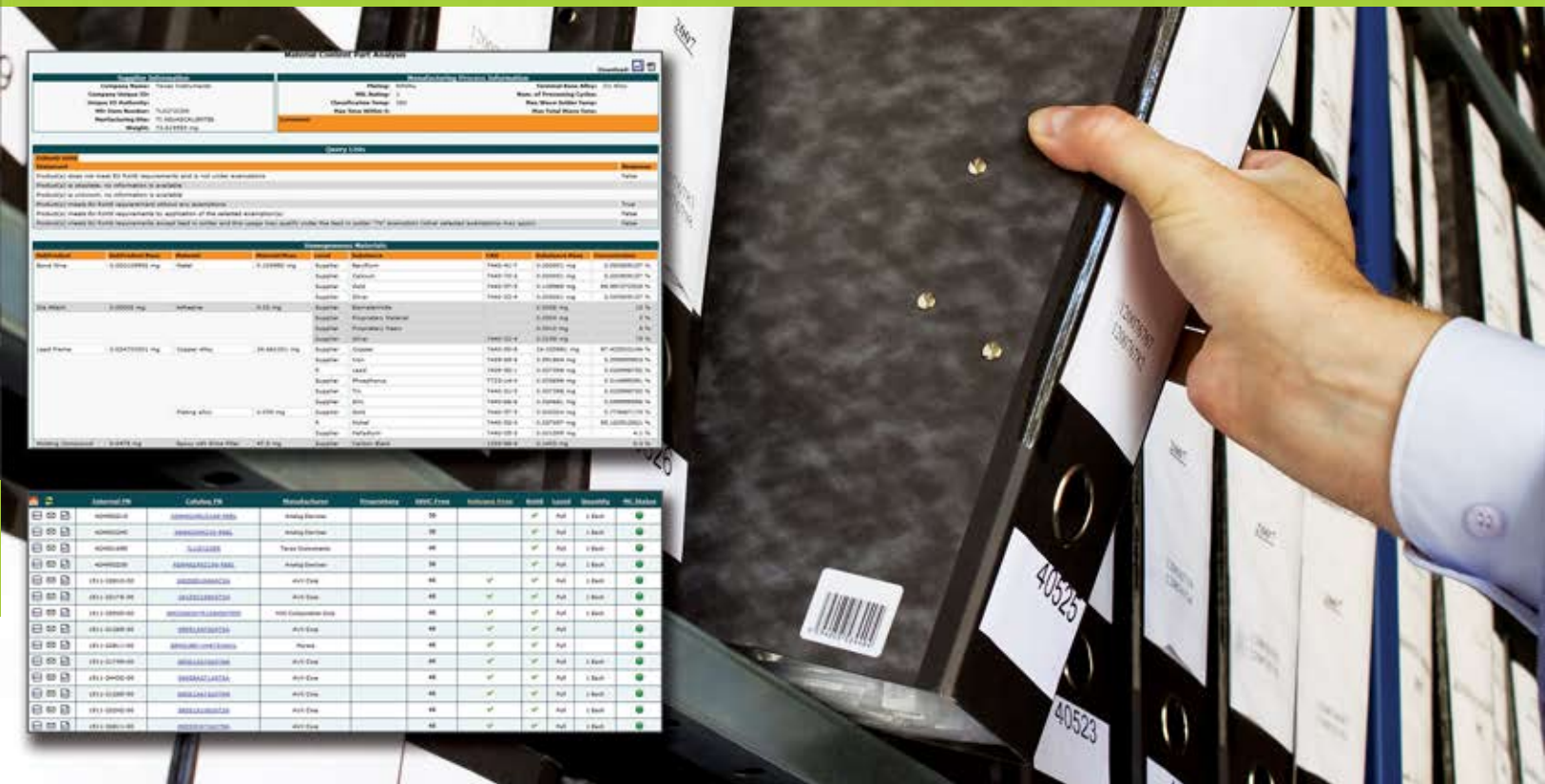
## Features

- EOL impact analysis
- Automated PCN and EOL alerts
- Short & long term BOM health analysis
- Component End of Life forecasts
- Powerful searching & sorting features
- Identify obsolete components
- Identify form, fit, and function alternates
- Specify approved vendors
- Adhere to environmental regulations
- Achieve environmental compliance & sustainability
- Access Conflict Minerals data and supplier certification of compliance
- Export directly to internal PLM systems with XML API



# Compliance Management Module

CMM delivers material content data, technical documentation, and reporting capabilities to match a variety of environmental standards and requirements.



CMM allows manufacturers to quickly react to requests for compliance documentation to minimize delays and maintain legal compliance throughout the life of the product.

## Challenges in compliance data management

Identifying, tracking, and maintaining the regulatory data necessary to comply with international substance restrictions has never been more important or complex. The regulations, initiatives, and directives are devised and enforced throughout the world, each with their own reporting requirements.

Having centralized access to comprehensive and current regulatory information alleviates the time spent by regulatory and R&D professionals researching and maintaining this data.

## Quality assurance

TPP provides quality checks on supplier data to ensure erroneous information doesn't find its way into our system. One hundred percent of supplier documents are checked and verified before being loaded into the material database and compliance application.

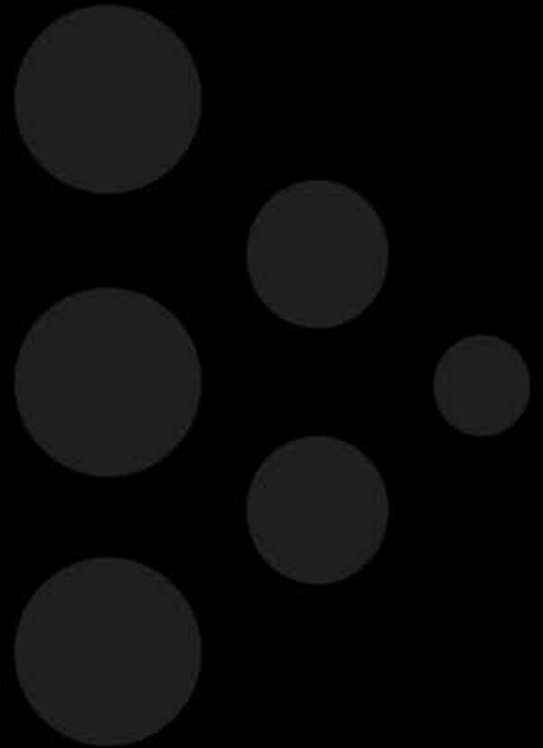
TPP data technicians work directly with suppliers to understand their compliance maturity level and improve their reporting capabilities. If help is needed, TPP can provide additional assistance so suppliers can conform with the reporting formats our customers require.



## About

TPP is an established provider of customizable web-based solutions for environmental compliance and obsolescence management. Currently, TPP provides value-added services to approximately four hundred original equipment manufacturers including many of the technology industry's top communications and electronics companies.

As the industry evolves and works towards new standards of data management and reporting, TPP will continue to refine its services and applications to offer comprehensive and flexible data management solutions for manufacturers.



Visit [www.totalpartsplus.com](http://www.totalpartsplus.com) or contact us at 877.912.7278 or [tppsales@totalpartsplus.com](mailto:tppsales@totalpartsplus.com) to see how TPP can help your organization.

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