

**iNEMI / IPC Meeting
Productronica / Munich Messe**

**Material Declaration
SC Manufacturer's Perspective**

**Beatrix Pichl
Texas Instruments**

Texas Instruments' Data Exchange Practice

- Answering customer questions and forms
 - Online website www.ti.com/eoinfo
 - Company position statement
 - Schedules by package
 - Detailed product information by device... with RoHS compliance status
 - Internal team dedicated to answering product content requests
- This has become a **major** time commitment to:
 - Understand each customer form
 - Hand enter the information
- It is a **quality issue**
 - Send back to the customer one time only
 - Current system not able to track changes made and informing customers about updates

Expectations from Supply Chain Partners

EACH customer has its own reporting formats and requirements

- May be as simple as RoHS compliant
- May require partial to 100% substance disclosure
- May include extensive substances & data reporting
- May include other types of information
 - qualification data,
 - inspection data,
 - electrical characteristics, etc.
- Reference to numerous standards or regulations
- Varying reporting thresholds

Improvement Essentials

- Create internationally agreed reporting forms and formats
- Must provide ease of information exchange and data storage
 - Ability to **import** data from existing supplier databases and **export** into existing customer databases
- Matching maximum threshold values
- Substance list alignment
- Compliance documentation agreement
- Harmonized global regulations and global industry standards
- Individual companies have to follow the international standards

IEC TC 111 Environmental Standardization for Electrical & Electronic Products & Systems

WG1: (NC vote pending): Material Declaration (MD)

International standard to provide uniform minimum specifications for material declarations by suppliers of components, subsystems and systems throughout the supply chain of the Electrical and Electronic Equipment (EEE).

Purpose:

Combine several ongoing efforts to standardize the MD process

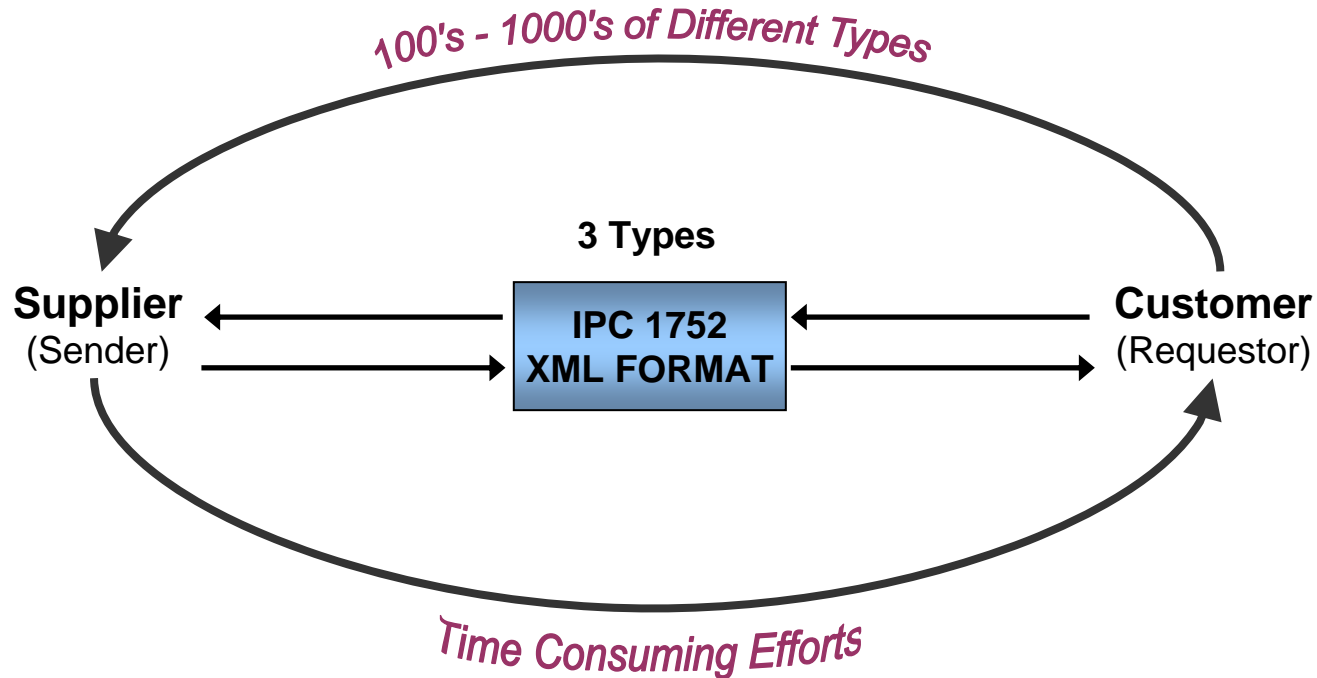
- establish minimum requirements for making material declarations based on TC3/IEC 61906 PAS – **Procedure** -
- create a list of materials and substances to be disclosed by suppliers (JIG) – **Composition** -
- create electronic data exchange formats and tools that will facilitate and improve data transfer along the entire global supply chain. (IPC draft 1751 & 1752) – **Data Transfer** -

The standard will apply to business to business transactions.

Solution for Electronic Data Transfer

- IPC, iNEMI and Rosetta Net defined a data collection process flow and data format for industry standard material composition data exchange.
- IPC 1751, Generic requirements for Declaration Process management , including company information
- IPC-1752, Materials declaration management – establishing electronic data formats and providing standardized forms to simplify the exchange of material declaration information.
- The forms support three levels of declaration:
 - Yes/no RoHS compliance declaration
 - IPC-1752-1 JIG declaration at part level (RoHS 6 at homogeneous)
 - IPC-1752-2 includes RoHS / JIG substance declaration at the homogenous material level,
- Both forms can include related manufacturing parameters
- The forms can be exchanged via electronic means, from e-mail or Web interfaces to advanced and secure b2b methods

IPC 1752 Advantages Over Current Data Request Formats



- 0 Current methods for data requests
 - There are almost as many different types of forms as there are customers needing data
- 0 Using the IPC 1752 format allows 2 ways to exchange data
 - Customer sending the form and Supplier fills in data (return form or XML data)
 - Automation possible by using it as a data translator from Supplier database to Customer database
 - Supplier uploads data being requested - Customer down loads information into their database