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## IMDS PROCESS

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### 1. Purpose

The purpose of this procedure is to describe the Stoneridge rules and processes applicable to manage IMDS. It completes the official rules given by IMDS User Manual and IMDS Recommendations.

In order to fulfill legal & customer requirements on Materials/Substances [EU Directive on End-of-Life Vehicles, REACH, etc.], all suppliers must provide information about the materials used in the products (raw materials, components, assemblies, final product).

Internet-based IMDS was developed on behalf of various car manufacturers with the purpose to enable the gathering of relevant material/substance content information on parts and materials along the automotive supply chain.

The MDS submission is part of the PPAP process, i.e., the MDS must be submitted to and approved by the customer prior to PPAP submission.



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The Applicability in this procedure is:

- Worldwide. For China, IMDS is a prerequisite for China Automotive Material Data System (CAMDS),
- to any exchange of MDS with IMDS between Stoneridge and its suppliers,
- to any exchange of MDS with IMDS between Stoneridge and its customers, except when the customers require specific tools, for example CAMDS for Chinese customers.

IMDS Approval is a mandatory deliverable impacting following métiers:

- Design Review with Supplier
- Purchasing
- Quality
- Projects
- SQE

## 2. Scope

The **International Material Data System** (IMDS) is the standard material reporting tool used by the automotive industry, including the whole supply chain actors, to ensure that the vehicles put on the market comply with the regulations related to materials and substances. Stoneridge is part of this information exchange:

- Stoneridge receives **Material Data Sheets** (Incoming MDS) coming from its suppliers,
- Stoneridge sends MDS to its customers (Outgoing MDS),
- Stoneridge releases the MDS internally for sharing within Stoneridge.



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### 3. Definitions

All relevant definitions are described in IMDS User Manual.

Stoneridge Specific:

Banned, Restricted, Declarable Substances List compiles the worldwide restrictions of use of chemical substances in the automotive industry (parts and/or processes) as well as by regulation restrictions.

Part: Means by default the objects that can have an MDS: Material, Semi-component, Component, Assembly

### 4. Reference documents

The following documents are critical to the understanding of this procedure.

Ref	Document ID	Type	Title
IMDS 001	www.mdsystem.com	General Rules	IMDS General Rules and Guidelines
CAMDS	www.camds.org.cn	General Rules	China Automotive Materials
Declarable System (CAMDS)			

### 5. Procedure

Within the IMDS Portal, Stoneridge is structured into Organizational Units (only applies to Stoneridge Juarez) as follows:

- Joseph Pollak Corporation [11899] Control Devices Division
- Pollak, A Stoneridge Company [2724] Control Devices Division
- Stoneridge TED [67439] Electronics Division

At Organization Unit level:

- **IMDS Key User** guarantees the application of the IMDS procedure in his local Org Unit
- **IMDS User** creates customer outgoing MDS based on approved incoming MDS

Specific Stoneridge Juarez Profiles:

- **User (Read-Only)**: Granted to any Stoneridge Juarez User without restriction.



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- **User:** Granted to Stoneridge Juarez User after validation by IMDS Coordinator. User profile implies knowledge, full acceptance, and commitment to apply the rules defined into this procedure.
- **User (Publish):** Forbidden to all Stoneridge Juarez Users. No MDS from Stoneridge Juarez shall be published on IMDS Portal.
- **User (Certification):** Forbidden to all Stoneridge Juarez Users.

#### Specific Stoneridge Juarez Contact Persons Policy:

##### **IMDS Contact Person**

As a reminder, it's not necessary to be IMDS User to be IMDS Contact Person. However, it is recommended that every IMDS Key User defines at least one IMDS Contact Person, valid for his Org Unit.

By default, the writer of MDS selects his own name as Contact Person, or the Contact Person defined by the Key User.

Responsibility of IMDS Contact Person is granted after validation by IMDS Coordinator.

**For Personal Data Protection reason if the selected Contact Person is not the User, the Contact Person must systematically have formally agreed prior to MDS submission to customer.**

Therefore, this person must systematically commit to forward any customer feedback because the notification of customer approval or refusal will arrive at its end.

##### **REACH Contact**

By default, REACH Contact persons shall be limited to IMDS Coordinator.

##### **Chemical Manager**

By default, Chemical Manager ability shall be limited to IMDS Coordinator.



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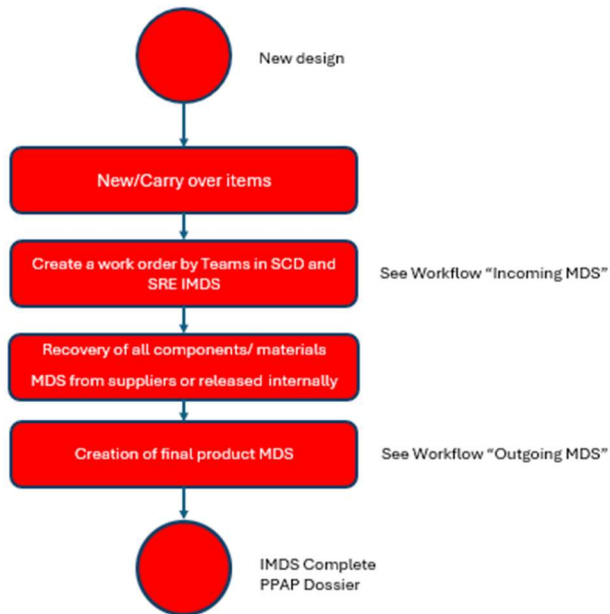
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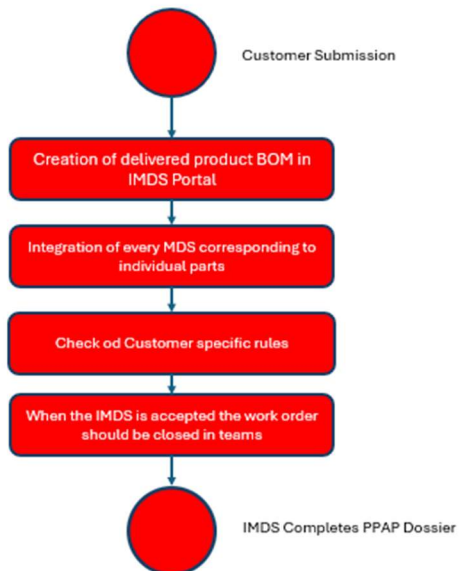
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## 5.1. General Workflow



## 5.2. Customer Workflow



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### Timing

For each project, a month is taken for the review of components (Supplier) and the creation of the IMDS finished product for the Customer.

## 6. IMDS Check list: Customer.

Items	All products
<b>Prerequisite</b>	Must be available: <ul style="list-style-type: none"><li>- All customer MDS mandatory data</li><li>- In case of a new revision of an existing MDS, a new version copy must be generated</li></ul>
Step 1	Stoneridge generates the delivered product MDS as per BOM Recipient data: Customer specific data
Step 2	Stoneridge checks before submission: Weight: measured with real final product OEMs typically require $\pm 5\%$ part weight accuracy [deviation between measured and calculated weight] $\approx \pm 5\%$ Polymeric part marking: no empty area Recyclate: no empty area Forwarding allowed: must be yes by default unless customer specific request. Execute check: check result must be empty. Materials according to supplier drawing, PSW, material certificate
Step 3	Stoneridge submits its product MDS to customer. Select option: <ul style="list-style-type: none"><li>- "Propose "in case of external customer unless customer specific request.</li><li>- "Internal release "in case of internal customer (other Stoneridge plant)</li></ul>
Step 4	When MDS is approved by customer, IMDS Coordinator communicates the approval to .... and all relevant stakeholders. In case of no feedback from customer after 2 weeks, IMDS Coordinator must remind the customer.



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## 7. Mandatory Outgoing Information

	Mandatory items to be checked	Materials  Mechanical / Electromechanical components and assemblies	Electronic components and assemblies  PCB / PCBA
Recipient Data	Org Unit	Org Unit / ID provided by customer	
	Name	Provided by customer	
	Part / Item		
	Legacy Spare Part	Provided by customer and confirmed by Stoneridge Sales	
	Forwarding allowed	Must be yes, unless specific customer request	
	Drawing No Drawing dated Drawing Change level	Provided by customer	Optional
	Purchase Order No Bill of Delivery No	Provided by customer or NA	
	Report No	Provided by customer or NA	
	Date of Report	Defined by IMDS User	
	Company specific	Specific data pending on customer	
	Modify applications. Modify Norms Modify Parts marking. Modify Recyclate	Modifications not authorized unless deviation by IMDS Manager.	



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Supplier Data	Contact Person	By default, MDS writer name, unless otherwise defined by IMDS Manager	
	Org Unit	By default, the manufacturing plant delivering the product, unless otherwise defined by IMDS Manager / Customer	
Ingredients	Description	According to Stoneridge BOM	
	Part / Item No	According to Stoneridge BOM It is recommended to add Stoneridge BOM #	PCBA process materials (solder paste, varnishes, coating...)
	Amounts & Weights	According to Stoneridge BOM	Direct weighting of the PCBA. Amount of Solder paste is estimated.
	BOM structure	According to Stoneridge BOM Implement: - Accepted Incoming MDS - Published MDS - Internally released Stoneridge Modules (Own or from other Users)	
	Amounts & Weights check	According to real measured weight	



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## 8. Customer Specific Material Reporting System

IMDS remains the basic standard and mandatory worldwide system to check regulatory material compliance. In case the customer requires Stoneridge to use a specific system for material reporting, Stoneridge may adapt the Incoming MDS and/or the Outgoing MDS contained in IMDS Portal in order to build a BOM compatible with the customer reporting system.

It is authorized to send an Outgoing MDS in a system different than IMDS Portal as long as:

- All Incoming MDS from suppliers are reported and approved in IMDS Portal, according to this standard procedure.
- The Terms of use of the Customer specific system have been accepted by Stoneridge.

The organization and tasks remain the same as for IMDS System.



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## 9. Customer IDs and Supplier Code identifications

Company	ID	DUNS
Volvo Group	46569	63607
PST Indústria Eletrônica da Amazônia LTDA	56598	60-628-0873
Joseph Pollak Corporation	11899	60-628-0873
Stoneridge Electronics	28948	60-628-0873
Hi-Stat Mfg. Co - A Division of Stoneridge	9348	60-628-0873
VALEO (PTS/PSD Puebla (MX))	209146	81-253-6670
FCA US LLC	71459	72430 E
Ford Motor Company	102	P545
Tesla Inc	113431	214083
American Axle Manufacturing Inc (AAM - de Mexico, Central Plant)	51676	81-253-6670
American Axle Manufacturing Inc (AAM - Guanajuato Manufacturing Complex , Plant 6)	183485	81-253-6670
American Axle Manufacturing Inc (AAM - AccuGear - Silao)	119199	81-253-6670
American Axle Manufacturing Inc (AAM - Colfor Manufacturing)	52102	81-253-6670
Dana Corporation	2259	81-253-6670
FCA US LLC	71459	72430 E
HYUNDAI MOBIS	31541	81-253-6670
ACSCO Products, Inc.	30625	81-253-6670
MD Elektronik GmbH	2669	81-253-6670
Lumen North America, Inc.	179974	81-253-6670
Curt Manufacturing	109517	81-253-6670
Mobis Alabama, LLC	73648	81-253-6670
General Motors- NA Vehicle Operations	5751	81-253-6670
Aptiv	954	81-253-6670
Autoplas	2569	81-253-6670
SAIC General Motors Co., Ltd	75773	81-253-6670
Cable Connect s.r.o.	127092	81-253-6670
Standard Motor Products, Inc.	20431	81-253-6670
SEWS (SEWS-US)	56697	81-253-6670
EH Connector AB	20431	81-253-6670
Kromberg & Schubert Automotive GmbH & Co. KG	1757	81-253-6670
Draexlmaier Group	568	81-253-6670
LEONI Bordnetz-Systeme GmbH	213	81-253-6670



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Rev #	Description of change	Process owner	Date
1.0	Procedure release	Claudia Perez	07/01/2022
2.0	Adding Timing	Claudia Perez	03/29/2023
3.0	Adding WR by teams in general & Customer workflow and file location to Customer IDs	Claudia Perez	6/26/2024



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