



---

# ODETTE INTERNATIONAL

***Digitalisation demands Standardisation***



## What is Odette?

---

- ❑ 1984 - Started as a project (initiated by SMMT) between several national automotive associations in Europe to develop standardised electronic messages to replace paper in day- to-day supply chain communications. Project office set up in SMMT in London
- ❑ 2000 – Transformed to not-for profit company with most of the original national associations becoming members of the company.
- ❑ Small Central Office (CO) team manages the day to day operation of the company - still located within SMMT building in Great Peter Street (Odette Registered Office)



# Odette Mission

To improve the efficiency and enhance the competitiveness of the European automotive industry within the global economy by developing standards, tools and services which support the digitalisation of logistics management and supply chain communications throughout the world.





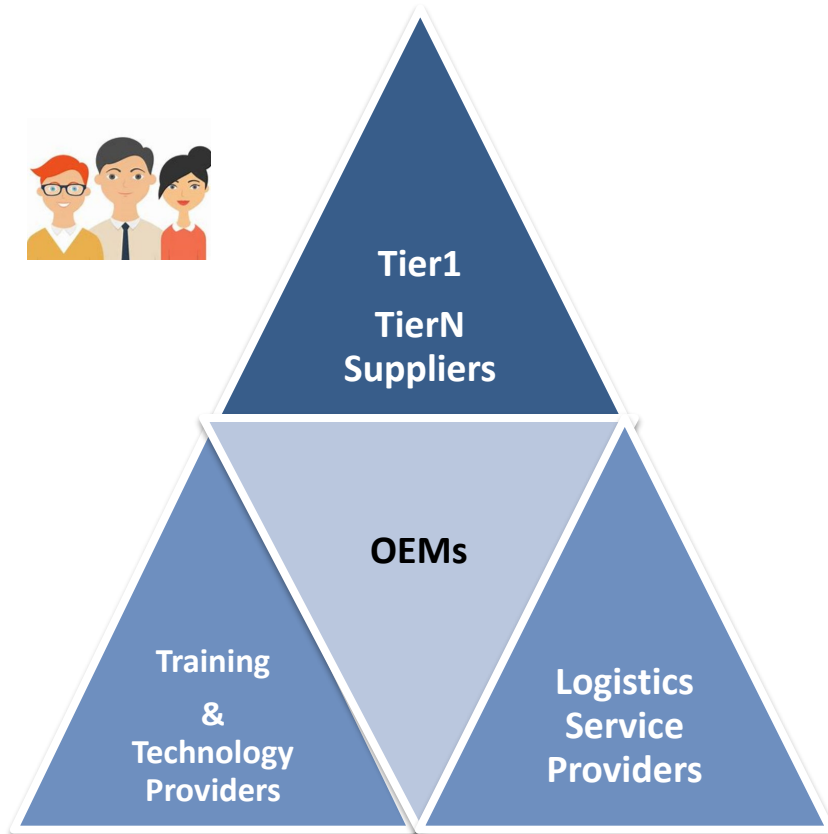
## Odette Tasks

---

- ❑ Provide a pan-European collaboration platform for actors in the automotive supply chain
  - bringing together **supply chain professionals and digitalisation experts** to develop **consensus solutions to common problems**.
  - focused on developing **standard tools and best practice recommendations** for the **entire automotive supply chain**.
  
- ❑ Provide services to support automotive supply chain activities
  - Services developed by Odette CO staff
  - Investment in services paid for out of revenue arising from the service (self-funding).



# Odette Scope



**Supply Chain  
Messaging**



**Transport  
Management**



**Cybersecurity**



**Automotive Supply Chain  
Management**

**Auto-ID**



**Packaging  
Management**



**Vehicle  
Distribution**



**Capability & Performance  
Measurement**





# Odette Member Organisations

## Members



**France & Monaco**  
[WWW.GALIA.COM](http://WWW.GALIA.COM) →



**Germany**  
[WWW.VDA.DE](http://WWW.VDA.DE) →



**Scandinavia**  
[WWW.ODETTE.SE](http://WWW.ODETTE.SE) →



**Turkey**  
[WWW.OSD.ORG.TR](http://WWW.OSD.ORG.TR) →



**United Kingdom**  
[WWW.SMMT.CO.UK](http://WWW.SMMT.CO.UK) →

## Technology Partners






## Regional Partners






**North America**      **China**      **South America**      **Iberia and North Africa**





## Odette Co-operations

- **Co-operation with other supply chain organisations** to develop global solutions:
  - Founding member of the Joint Automotive Industry Forum (**JAIF**) with **AIAG** (North America) and **JAMA /JAPIA** (Japan)
  - Working with **Automotive Technology providers** to ensure incorporation of Odette standards in supply chain solutions
  - Partnerships with **training organisations** in key markets to ensure the diffusion and support of Odette recommendations
  
- **Cross industry co-operations with:**
  - standardization bodies (**UN/CEFACT, CEN, ISO, DTLF**)
  - Industry associations (**ECG – European Vehicle Logistics Association**)





# Odette Work Structure & Contributors

---

To achieve our main task we rely on an agile organisation:

## ❑ Structure

- **Technology Group:** permanent group able to recommend or develop the appropriate technology to support the deliverables produced by the work groups
- **Work Groups:** set up on a project by project basis according to priorities defined by member companies

## ❑ Contributors

- **Supply chain professionals and technology experts:** nominated by member companies and national associations to work together in Odette and use their experience to improve the efficiency of the whole supply chain
- **Odette National Association representatives:** work alongside industry members to ensure that national industry practices and legal requirements are taken into account





---

# Odette Tools and Services



# Cybersecurity Toolbox for Secure Data Exchange

- ❑ **Odette OFTP2 Specification (IETF RFC 5024)**
  - Secure file transfer protocol
  - Used by automotive companies throughout the world
  - Continuously maintained via the Odette OFTP2 Expert Group
  
- ❑ **Odette ID Code Service (ISO 6523)**
  - Provides a globally unique ID for each OFTP2 station
  
- ❑ **Odette Certification Authority (IETF RFC 3647)**
  - Provides fully qualified X-509 digital certificates which guarantee the identity of organisations sending and receiving files over OFTP2



Get started  
with OFTP2



Odette IDs

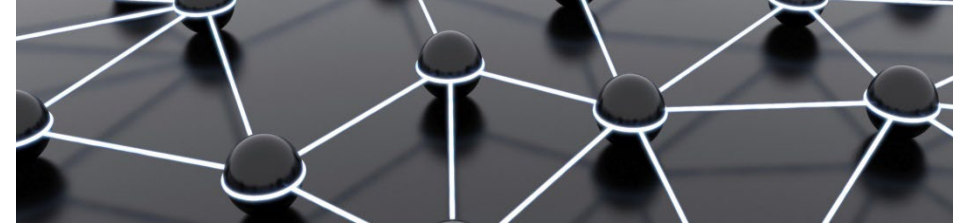
Provide unique identification for OFTP Stations and can be obtained from the Odette Service for Coding And Registration (OSCAR).



Digital certificates

Specifically developed for use with OFTP2 can be obtained from the Odette Certification Authority (Odette CA).





# Digital Message Standards for Automotive Supply Chain

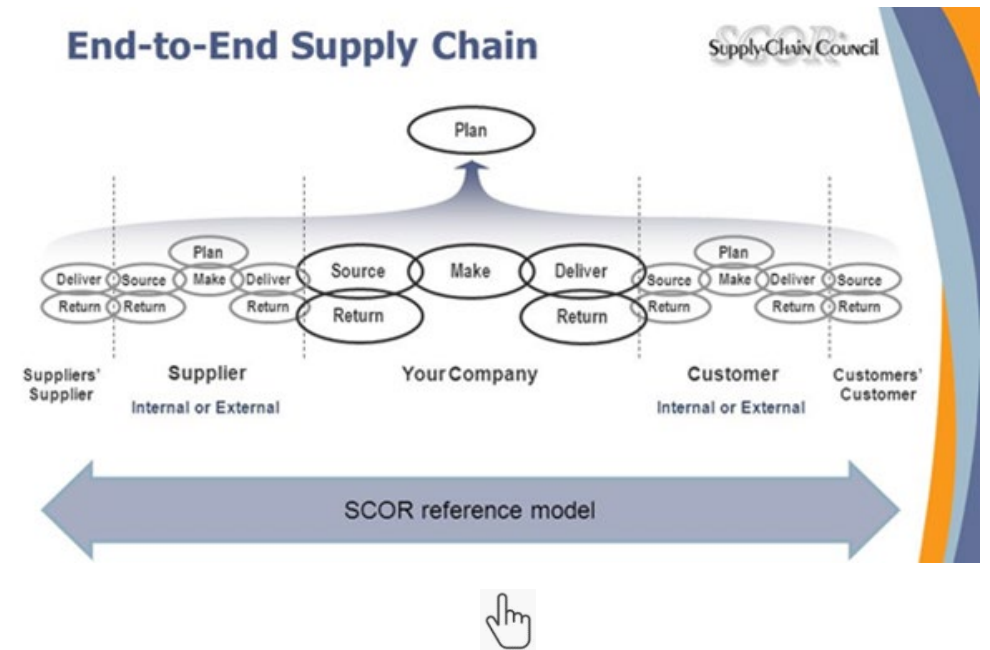
Odette EDIFACT and XML digital message standards covering supply chain communication processes

## ❑ Buy-Ship-Pay messages developed together with JAIF partners

- Requirements Forecast (DELFOR)
- Delivery Instructions (DELJIT)
- Despatch Advice (DESADV)
- Receiving Advice (RECADV)
- Invoice (INVOIC)
- Remittance Advice (REMADV)

## ❑ Specific Odette message sets

- Packaging Management
- Inventory Management
- Engineering Data Exchange





# Digital Message Standards for Finished Vehicle Distribution

- ❑ **Joint initiative of Odette/VDA and ECG** (Association of European Vehicle Logistics)
- ❑ **Set of standard digital messages** (EDIFACT and XML) supporting communication throughout the distribution process:
  - Transport Forecast /Transport Order
  - Service Order (battery charging, tyre inflation, damage repair, ...)
  - Status Reporting – Means of Transport/Individual Vehicles
  - Inventory Reporting
  - Damage Reporting
  - Geofence Mapping of Compounds
- ❑ **Currently being implemented by BMW and VW, by Stellantis in modified form, and under consideration by Mercedes-Benz and Volvo Cars**





---

# Auto ID






# Auto ID in Automotive Supply Chain

## ❑ Odette Transport Label (last updated 2007 - still in use in European industry)

- OTL1 - standard A5 size
- OTL3 - for small load carriers

## ❑ Global Transport Label (developed with our JAIF partners – continuously updated)

- enables the use of same label throughout the supply chain
- covers several different sizes of label but all with same data content
- includes label designed for shipment of empty packaging
- incorporates 2D Data Matrix code
- Includes smart labels (RFID)

SHIP FROM LIEFERANT AG WERK BERLIN BERLIN DE-10117		SHIP TO MODERN CAR INC. LONDON PLANT 72 GREAT PETER STREET UK-SW1P 2ZH LONDON		M 	
ID:	887766554		PLANT (PACKING POINT) CUSTOMER RETURN DESTINATION		
COUNTRY OF ORIGIN:	DE	013 / RAMP 15 / WH4		DATE	2016-01-15 13:30
DELIVERY NOTE NUMBER	12345678	CUSTOMER SPECIFIC BOLTING INFORMATION	QUANTITY	PCS	NET KG
		ROUTE 66	1000000	9999	19999
		LINE 15			
CUSTOMER PART NUMBER	LEFT MOUNT ALUMINIUM				
	<b>GFS-123-554-765</b>				
PACKAGE ID	UN 987654321 000123456		PACKAGING TYPE	SHIPMENT DATE	
			0009PAL	S	2016-01-14
			BATCH NUMBER		
			CH1234	NUMBER OF INBOX PACKAGES	
				40	
SUPPLIER AREA	Lieferantendaten Zeile 1 Lieferantendaten Zeile 2 Lieferantendaten Zeile 3		CUSTOMER DATA LINE 1 CUSTOMER DATA LINE 2 CUSTOMER DATA LINE 3 CUSTOMER DATA LINE 4 CUSTOMER DATA LINE 5		

## ❑ GTL Generator

- Free of charge Odette tool allowing smaller suppliers to produce Global Transport Label from csv file.





# Auto ID in Finished Vehicle Distribution

## ❑ VIN Labels in the Vehicle Distribution Process

- Definition of a standard location and fixing method
- Recommendation for size and layout
- Definition of a minimum content\*
- Recommendation of a bar-coding standard (2D QR code)
- Recommendations for the quality of the label

\* Includes Fuel Type Code in accordance with latest guidance from European Maritime Safety Agency (EMSA) concerning Identification of Alternative Fuel Vehicles.

**Currently being implemented worldwide by Volvo Cars**

<b>Manufacturer</b> Colossal Car Corporation Plant 123		<b>Destination Market or Address</b> John Doe Car Dealership 65 Broadway Ankh Morpork ND3 X23 GB	
<b>VIN</b> <b>WVWZZZ1JzXW000002</b>			<b>Fuel Type</b> <b>PHY</b>
<b>Production Date</b> 2022-07-22	<b>Production Number</b> 987-34214	<b>Model</b> AB124	
<b>Additional Information</b> Special equipment: SPILL		<b>Weight</b> 1500 <b>Height</b> 1920 <b>Length</b> 5250 <b>Width</b> 2200	
<b>Optional Data</b> Delivery due date: 2022-08-15			
			



---

# Transport Management



# Transport Management in Automotive Supply Chain

- ❑ **Odette EDI Message Guideline for Transport Tracking**
  - Based on EDIFACT – IFTSTA
  
- ❑ **API for Transport Track & Trace**
  - How to define and implement standard REST-API interfaces for the collection and provision of discrete pieces of information supporting logistics activities
  
- ❑ **Managing Inbound Transport with Mobile Apps**
  - Standard model for the exchange of data between the YMS of customer plants and the TMS of transport service providers
  - Enables the display of precise delivery slots, plant navigation routes and unloading instructions on the mobile devices of drivers





---

# Packaging Management



# Packaging Management – Design to Delivery

- ❑ **Improvement of Automotive Packaging**
  - Capability Assessment for Packaging Manufacturers
  - Key Performance Indicators for Packaging Manufacturers
- ❑ **Digitalisation of Part Packaging Agreement** between customers and suppliers
  - Packaging Master Data
  - Part Packaging Instructions
  - Standardised data items and xml messages
- ❑ **Packaging Management Guidelines** based on the best practice of leading industry companies
- ❑ **Digital Message Set** supporting the complete management process for Returnable Packaging





---

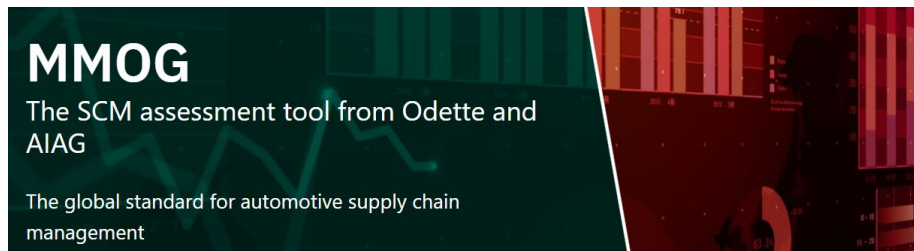
# Measuring Capability & Performance





# SCM Capability & Performance Measurement

- ❑ **MMOG/LE (Material Management Operations Guideline / Logistics Evaluation):**
  - Jointly developed by Odette and AIAG as a unique Supply Chain Management **capability assessment tool** that can be used throughout the automotive industry as well as across other industry sectors
- ❑ **KPIs for Automotive Supply Chain Management**
- ❑ **KPIs for Finished Vehicle Logistics**





## MMOG/LE Overview

- ❑ Web based assessment tool
- ❑ Measures SCM capabilities against best practice
- ❑ Developed and maintained by Odette and AIAG
- ❑ Used by companies in the automotive production and aftermarket sectors
  - ✓ to assess their own logistics capability
  - ✓ to select and evaluate suppliers
- ❑ Completed at plant level to assess capability of individual sites
- ❑ Provides a systematic and standardised approach for entire organisations
- ❑ **Version 6 assessment just released with increased emphasis on:**
  - ✓ Digital transformation
  - ✓ Capacity planning
  - ✓ ESG responsibility
  - ✓ Crisis management
  - ✓ Cybersecurity
  - ✓ **Cascade of SCM assessment with sub-suppliers**



IATF 16949 = Quality  
MMOG/LE = Delivery



---

# Current Focus of Odette Work



# APIs in Automotive

---

## ❑ API Expert Group

- leverage API technology, methods and techniques necessary to ensure a successful solution.
- provide continuity for the development of Odette API standards
- develop use cases (based on filling the EDI gap):
  - visibility in the transport chain (recommendation completed)
  - progress of delivery preparation at supplier (details of completed Packaging Units and Transport Units)

## ❑ API Security Group

- develop recommendation covering security aspects of API based data exchanges in the automotive supply chain
- provide on-going support and monitor the evolution of security technology
- promote implementation with relevant industry experts and inclusion in commercial IT solutions

## ❑ Development of 'proof of concept' application - Visibility in the transport chain

- MVP portal application for tracking shipments in the transport chain



---

# Networking



# Odette International Conference & Exhibition

- More than 20 conferences in different countries across the Europe, since 1996
- Automotive industry communication showcase
- Supply Chain Management, Purchasing, Finance, IT, Engineering and B2B communications
- Multi-stream 2-day event
- 300 delegates, 25 automotive countries
- 40 industry speakers
- 20 IT providers exhibitors
- Industry site visits

<https://www.odette.org/conference>







# Odette International Conference & Exhibition

22<sup>nd</sup> Odette International Conference - *Berlin* – *20/21 November 2023*



**Odette2023**  
Mark your calendar!

100% in-person

20 - 21 November 2023

Berlin

22nd Odette International Automotive Conference for Supply Chain Professionals and Digital Transformation Experts



# Join in

**Odette International Limited**  
 71 Great Peter Street  
 London SW1P 2BN  
[www.odette.org](http://www.odette.org)  
[info@odette.org](mailto:info@odette.org)



**ODETTE IN NUMBERS**

<b>10000</b> SITES USING MMOG	<b>8000</b> CONFERENCE DELEGATES	<b>1800</b> MEMBER COMPANIES
<b>70</b> COUNTRIES WHERE OUR SERVICES ARE USED	<b>39</b> YEARS WORKING FOR THE INDUSTRY	<b>1</b> GLOBAL COMMUNITY





---

# ODETTE INTERNATIONAL

***Digitalisation demands Standardisation***