



- Introduction
- VCC processes
- EDI project
- EDI/Odette - customer-supplier information exchange
- VCC EDI training
- Information sources
- VCC EDI timeplan and demands
- Questions



VCC EDI EDUCATION

WHY ARE WE HERE??

- VCC startup new plants in China
- VCC have limited knowledge about EDI status in China
- VCC have the same demand for EDI for suppliers in Europe and in China (according to MP&L webguide)
- VCC didn't have the full knowledge to evaluate the EDI status in China ask Odette Sweden for support
- Project team created with support Odette Sweden and Swedish software suppliers



THE WORLD OF VOLVO CAR CORPORATION

Sweden

- Head office, Gothenburg
- Product development, Gothenburg
- Marketing, Gothenburg
- Administration, Gothenburg
- Design centre, Gothenburg
- Component manufacturing, Skövde, Floby and Olofström
- Car production, Gothenburg and Uddevalla

Belgium

Car production, Gent

Spain

Design centre, Barcelona

USA

Design centre, Camarillo

Volvo Car Corporation is represented in about 100 countries at approximately 2,300 dealers



VCC EDI EDUCATION

VOLVO CARS IN CHINA

Location not decided

- Study for engine plant ongoing

Chengdu

- New Volvo plant 2013
- 100,000 cars

Chongqing

Volvo production since 2006 at Changan Ford Mazda Automotive

Daqing

Study ongoing for manufacturing plant

Beijing

Office with Admin. business

Shanghai

- Volvo Car China Head office
- Volvo Car China Technology Center



VCC EDI EDUCATION

OUR CORE VALUES

QUALITY

Precision,
craftsmanship and
attention to detail

ENVIRONMENT

Minimising
emissions and
increasing efficiency

DESIGN

Beautifully simple and
simply beautiful

SAFETY

Committed to your
safety for 80 years





VCC EDI EDUCATION

MATERIAL, PLANNING AND LOGISTICS, MP&L

- MP&L is the central function responsible for the supply chain from early stages in projects to end of production.
 - Material handling engineering
 - Packaging engineering
 - Supply Chain Design
 - Supply Chain Development
 - Pre-production management
 - Process management
 - Program & ordering
 - Inbound logistics
 - Material Supply Chain



RESPONSIBILITY SPLIT CENTRAL AND LOCAL MP&L

Central MP&L Shanghai

- EDI setup
 - Changes of contact persons regarding EDI
 - Implementation of EDI
- Transport setup
 - Securing that the supplier has access to the logistics service providers booking system
 - Securing that there is a transport flow set up between the supplier and the plant
- Supplier Logistic Assurance activities

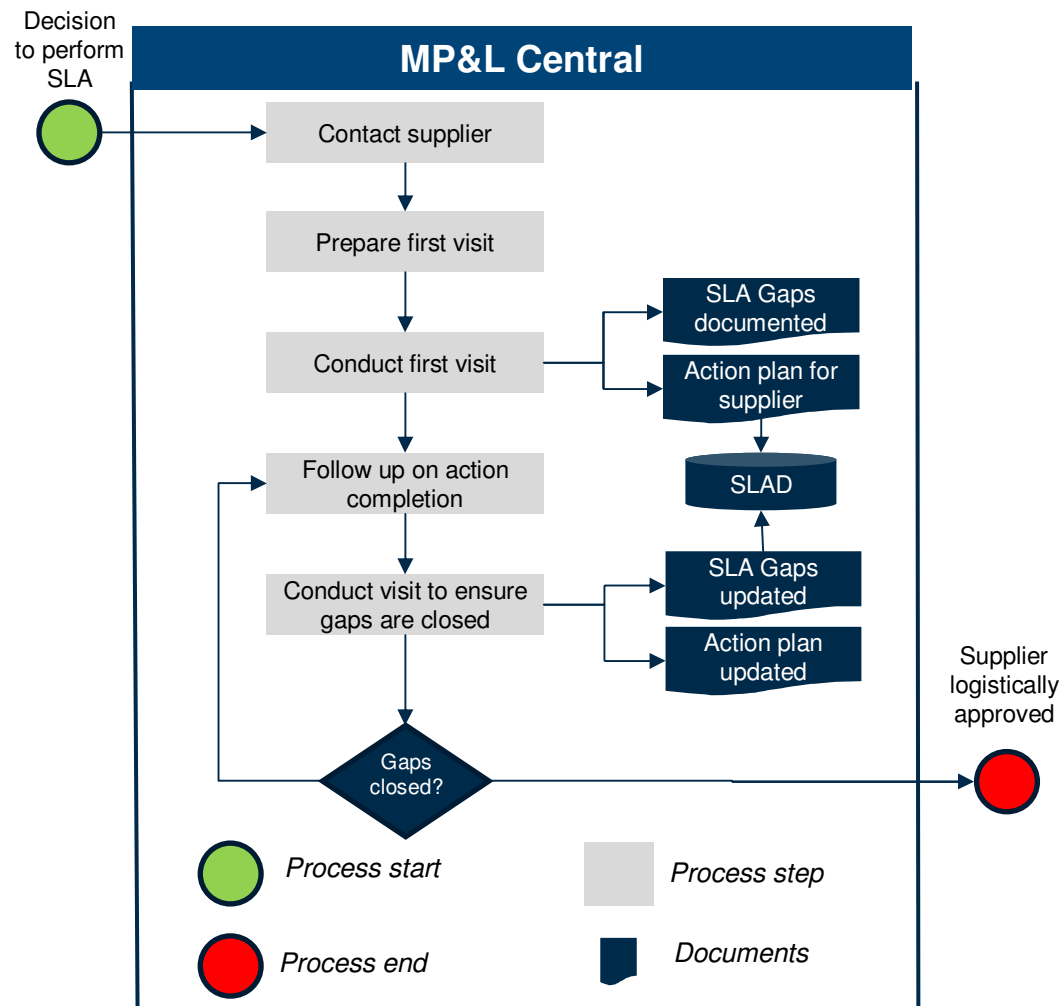
Local MP&L Chengdu

- Deliveries to the plant
- Quantities/delivery dates in call offs
- Daily contact regarding deliveries
- Packaging solutions
- Main contact in running production (after SOP)

SUPPLIER LOGISTICS ASSURANCE, SLA



VCC EDI EDUCATION



VOLVO CARS SUPPLIER PORTAL



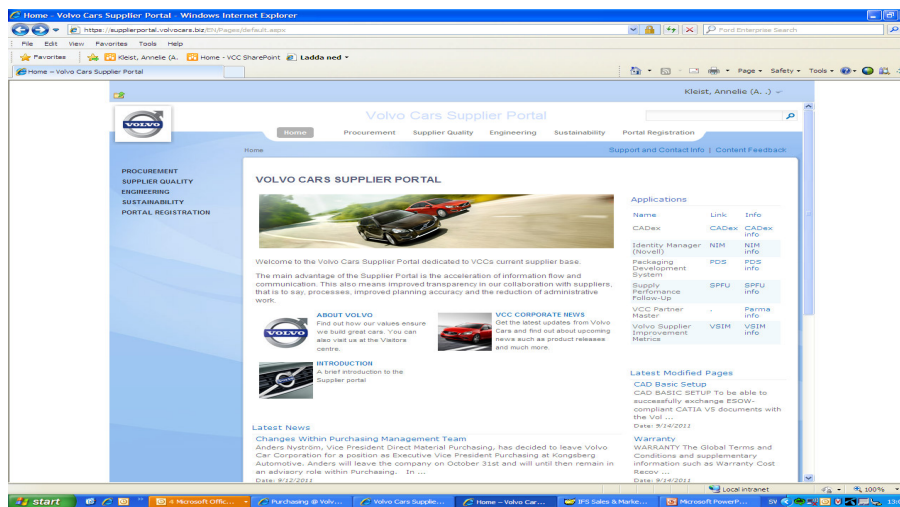
VCC EDI EDUCATION

- The Volvo Cars supplier portal contains:

<http://www.volvocars.com/intl/top/corporate/supplier-portal/Pages/default.aspx>

MP&L webguides

- Container Selection process
- Link to SPFU – Supply Performance Follow-Up
- Link to VSIM – Volvo Supplier Improvement Metrics



PACKAGING



VCC EDI EDUCATION

- The choice of packaging should follow the Container Selection Process (CSP China Operations for deliveries to plants in China, otherwise CSP, EU).
 - Volvo Standard Packaging (mainly used for VCC plants in Europe)
 - Expendable packaging (mainly used for VCC plants in China)
- Packaging data form should be communicated to and approved by packaging engineer by last week of TT series.
- Agreed packaging should be used from PP series.
- It is the supplier's responsibility to order packaging.
- Only plastic strapping is allowed, no metal straps.

PACKAGING DATA SHEET



VCC EDI EDUCATION

Volvo Car Corporation		VCC China Packaging Data Form		
Supplier Details				
Supplier GSDB Cod:		Today's Date:		
Supplier Name:				
Contact Person:		E-mail:		
Phone Number:				
Pallet Instructions <div style="border: 1px solid black; height: 150px; margin-top: 10px;"> <div style="position: absolute; top: 5px; left: 5px;">#N/A</div> <div style="position: absolute; bottom: 5px; left: 5px;">#N/A</div> </div>		Photo / Sketch of packaging <div style="border: 1px solid black; height: 150px; margin-top: 10px;"></div>		
Other Information and Remarks				
Volvo Part Number				
Part number(s):				
Project Name :				
Part Name :				
Click on "Information" sheet for instructions how to fill in the fields				
Packaging Data				
1	Packaging type			
2	Container No / type			
3	Pcs per Container			
4	Length (mm)			
5	Width (mm)			
6	Height (mm)			
7	Part Weight (kgs)			
8	Container Weight (kgs)			
9	Gross Weight (kgs)			
10	NWC			
11	VCC plant(s)	Volvo Car Corporation China(CHENGDU)		
Inner packaging details				
	No / type	Quantity		
12	No / type + quantity			
13	No / type + quantity			
14	No / type + quantity			
15	No / type + quantity			
16	No / type + quantity			
17	No / type + quantity			
Approvals				
	Signed	Name (Printed)	Date	
Supplier:				
IMPORTANT: Must be signed by hand or electronically and be sent back in PDF format.				
This document shall be returned via e-mail to responsible VCC Packaging Engineer for approval.				

TRANSPORTS



VCC EDI EDUCATION

- VCC is using a Logistics Service Provider to organize all transports.
- VCC will pick up the goods at the suppliers shipping point (FCA). The shipping point can be either the manufacturing site or an external warehouse depending on set up.
- The LSP will receive a copy of the call offs to be able to plan the transports, however the supplier is responsible for booking transports in the LSP's booking system.
- If the suppliers fail to book a transport the goods will not be picked up and the supplier will have to pay for an extra/rush transport **after contacting the responsible supply chain coordinator.**

MATERIAL HANDLING



VCC EDI EDUCATION

- When the shipment arrives at the plant the pallets will be unloaded and the OTL scanned
- For this to be efficient it is important that the OTL is easily readable and in the right place and contains the correct information.



- The scanned information will then be compared to the ASN to make sure that all the parts pre-advised in the ASN are in the shipment.

MATERIAL HANDLING



VCC EDI EDUCATION

- Scanning OTL label
- Integrated with IT system from goods reception until point of use
- Different call offs systems internal (kanban, autocall, push button)
- OTL label is used through the material flow in VCC assembly plants



STEN LINDGREN



VCC EDI EDUCATION

Agenda

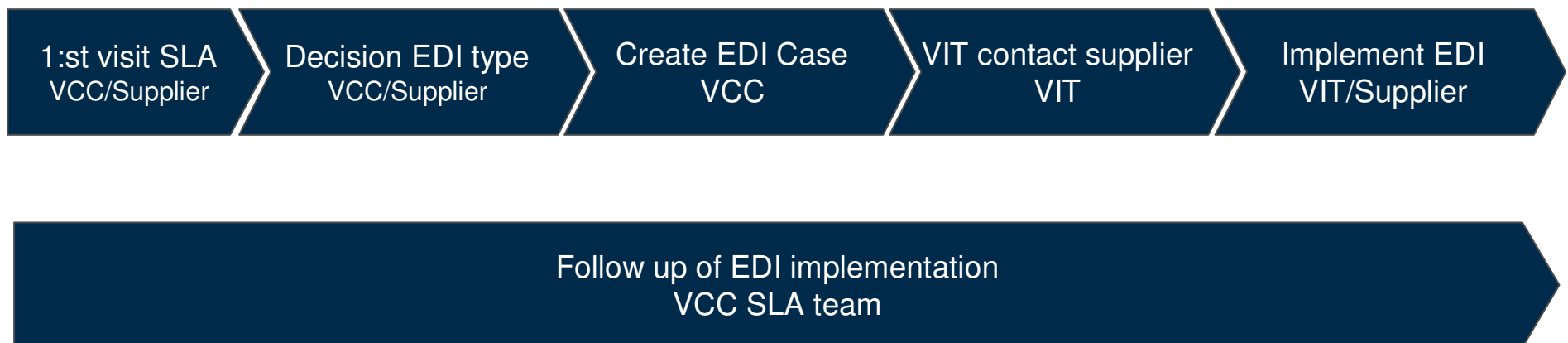
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IMPLEMENTATION STEPS EDI



VCC EDI EDUCATION



L421 VEHICLE PROGRAM PLAN OVERVIEW



VCC EDI EDUCATION

Contact your VCC supply chain design contact for detailed time plan

STATUS CODES



VCC EDI EDUCATION

Status c

Y/N	Outgoing part/Replaced by another supplier / Unclear
0	Request received.
20	Introduction communicated and EDI data sheet of set up sent to supplier.
30	Data sheet received & DELINS or DELFOR set up in gateway & Ping
40	First schedule sent to supplier. Acknowledged in gateway, confirmed and received at supplier.
50	Request test of ASN, with required set up (S or M Packaging) and Label, sent to supplier
60	ASN test ongoing
80	Label test ongoing (connection between Label and ASN and Label quality)
100	Hand over – activity closed

MMOG/LE



VCC EDI EDUCATION

*MMOG/LE comprises six chapters, with 206 criteria to determine the level of plant performance:

- Strategy and Improvement
- Work Organization
- Capacity and Production Planning
- Customer Interface
- Production and Product Control
- Supplier Interface

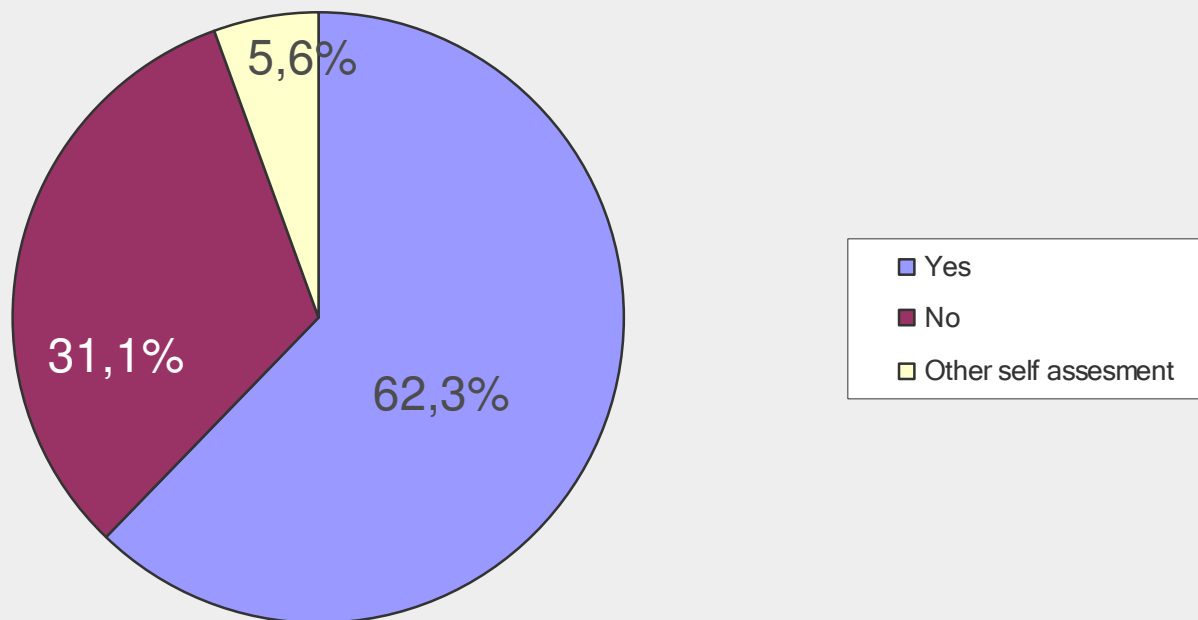
The OEMs are particularly focused on a couple areas when auditing Tier 1 suppliers:

- Management commitment
- Capacity planning
- EDI integration into ERP and automatic processing of data
- Ability to interface with Tier 2 suppliers, especially those in emerging markets
- The Improvement Plan
- Quality scores

A midsize auto supplier in China used MMOG/LE and was able to identify some problem areas to fix, which resulted in a 50% reduction in raw material and finished goods inventory, a perfect score for delivery, decreased premium freight, and improved quality. Most importantly, it obtained new customers.

***Source: ai-online.com**

Have you performed a Self Assessment MMOG/LE

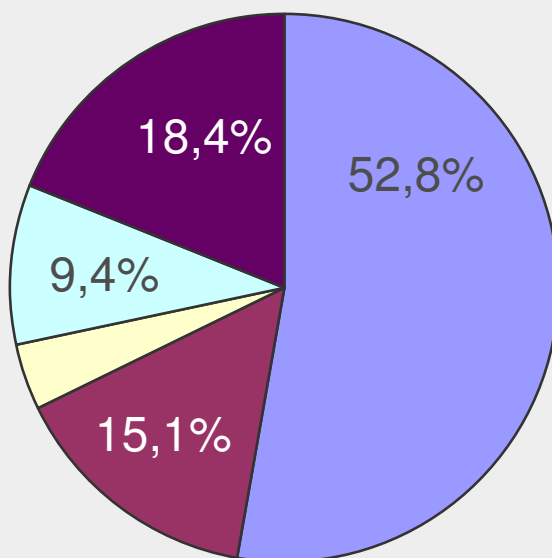


EDI SURVEY



VCC EDI EDUCATION

Do you already have full support for both EDI exchange and labeling?



- ☒ Yes, in an integrated solution (towards ERP/ other superior system)
- ☒ Yes, via a web solution or other stand alone solution, with a solution for labels
- ☒ Yes, via a web solution or other stand alone solution, without a solution for labels
- ☒ Yes, via a web solution unique for a specific customer (OEM Portal)
- ☒ No

CONCLUSION VCC



VCC EDI EDUCATION

- Follow MP&L webguide 遵从MP&L指南
- VCC MMOG/LE demand is A-, B- level in the MMOG rating
→ Action plan to be identified during Supplier Logistic Assurance 沃尔沃要求供应商MMOG/LE的评分级别是 A-或B- → 在供应商物流保证工作开展期间, 沃尔沃会确认供应商的改进措施
- EDI shall be an integrated system 要求供应商选择整合式EDI系统
- Implementation support from VIT 沃尔沃IT提供执行支持人员
- Follow up and escalation of EDI implementation in VCC Supplier Logistic Assurance activities 沃尔沃会在供应商物流保证工作开展期间跟踪和推进EDI的贯彻执行
- Implement EDI according to time plan 根据既定的时间进度贯彻EDI
- Follow VCC unique EDI requirement 听从沃尔沃专有的EDI要求



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Thank you for your time

CONTACT INFORMATION VCC SUPPLY CHAIN DESIGN



VCC EDI EDUCATION

Eric Ristenstrand eric.ristenstrand@volvocars.com

Elsa Nylander elsa.nylander@volvocars.com

Tony Huang yang.huang@volvocars.com