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## 3.1.7 Requisitos Logísticos

### Propósito :

Definir os requisitos logísticos da Autoliv: previsões e pedidos firmes, embalagem, etiquetagem, requisitos de contrato, entregas e auditorias logísticas.

### Entrada do Autoliv :

- Previsões e Pedidos
- Padrões de EDI, etiquetagem e embalagem
- Login e senha do fornecedor do Portal de Parceiros Autoliv para:
  - acesso aos Requisitos Logísticos locais (ASM/Documentos Locais)
  - acesso ao WEB EDI

### Requisitos :

Neste documento, a palavra "deve" indica uma exigência, e a palavra "deveria" indica uma recomendação.

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## 1. Âmbito

Os Requisitos de Logística da Autoliv são aplicáveis a todos os fornecedores da Autoliv.

Protocolos Logísticos Divisionais adicionais complementam e detalham os requisitos logísticos locais.

O não cumprimento de quaisquer Requisitos de Logística da Autoliv iniciará um Relatório de Não Conformidade de Logística (NCM). Isso afetará a classificação do Fornecedor conforme declarado na Classificação Padrão de Fornecedores da Autoliv [AS051\(/sites/autoliv-portal/files/AS%2051.pdf\)](/sites/autoliv-portal/files/AS%2051.pdf).

## 2. Previsões e lançamentos de ordens firmes

### 2.1. Informações gerais

Para gerenciar melhor as mudanças nas demandas e dar suporte a novos lançamentos, a Autoliv está fornecendo previsões de demanda confiáveis e precisas para toda a sua Cadeia de Suprimentos. Os lançamentos oficiais de OEM e os volumes de carros compartilhados pelos OEMs são usados para desenvolver a Previsão de Demanda nivelada.

Uma previsão é fornecida a todos os nossos fornecedores para garantir que matéria-prima, equipamentos, ferramentas e mão de obra suficientes estejam disponíveis e prontos para atender às nossas demandas.

As previsões e cronogramas de entrega são comunicados aos Fornecedores pela DELFOR (EDI), conforme descrito na [AS242-1\(/sites/autoliv-portal/files/AS242.1.pdf\)](/sites/autoliv-portal/files/AS242.1.pdf).

Uma nova previsão e/ou liberação de pedido firme sempre substitui a anterior. É responsabilidade do Fornecedor revisar as previsões e liberações de pedido firme e informar a Planta Autoliv se eles preveem qualquer problema para cobrir as demandas da Autoliv.

Uma liberação de pedido é uma solicitação da Autoliv para que um material e quantidade específicos sejam entregues à Autoliv em um horário definido. Pedidos firmes são comunicados ao fornecedor pela DELJIT (EDI) conforme descrito em [AS242-3\(/sites/autoliv-portal/files/AS242.3.pdf\)](/sites/autoliv-portal/files/AS242.3.pdf).

### 2.2. EDI ou WEB EDI

O Autoliv impõe o uso de EDI como a ferramenta de comunicação preferida. O Autoliv se comunica com EDI conforme descrito nas Mensagens EDI Padrão do Autoliv ( [AS242-1\(/sites/autoliv-portal/files/AS242.1.pdf\)](/sites/autoliv-portal/files/AS242.1.pdf) , [AS242-2\(/sites/autoliv-portal/files/AS242.2\\_new.pdf\)](/sites/autoliv-portal/files/AS242.2_new.pdf) ; [AS242-3\(/sites/autoliv-portal/files/AS242.3.pdf\)](/sites/autoliv-portal/files/AS242.3.pdf) ; [AS242-4\(/sites/autoliv-portal/files/AS242.4.pdf\)](/sites/autoliv-portal/files/AS242.4.pdf) ).

Se o Fornecedor não tiver capacidade para EDI, o aplicativo WEB EDI deverá ser usado através do Portal de Parceiros Autoliv (APP).

## 3. Embalagem

### 3.1. Geral

Todas as embalagens devem estar de acordo com o Autoliv Packaging Standard [AS246 \(/sites/autoliv-portal/files/AS246.pdf\)](#) e regulamentos de importação/exportação, e aprovadas pela Autoliv antes de qualquer entrega. As embalagens podem ser avaliadas por testes de qualificação mediante solicitação da Autoliv.

### 3.2. Aprovação de Embalagem

Os fornecedores são responsáveis por enviar uma Folha de Proposta de Embalagem, com custo de embalagem detalhado, ao responder a uma RFQ (Solicitação de Cotação) para qualquer nova alteração de número de peça e índice.

A proposta deverá ser enviada por meio da plataforma Autoliv Packaging Approval, acessível no Portal de Parceiros Autoliv.

A embalagem e os rótulos propostos (caixa e palete) serão verificados para verificar se estão em conformidade com o Padrão Autoliv [AS244 \(/sites/autoliv-portal/files/AS%20244\\_new.pdf\)](#) e [AS246 \(/sites/autoliv-portal/files/AS246.pdf\)](#) e pré-aprovados antes da adjudicação comercial.

A aprovação final será dada pela Planta de Produção da Autoliv, por meio de um teste de transporte específico ou após a primeira entrega.

É de responsabilidade do Fornecedor garantir a entrega de peças sem danos.

### 3.3. Embalagens descartáveis

Embalagens descartáveis devem ser usadas somente quando consideradas economicamente benéficas ou quando as regulamentações assim o exigirem.

Qualquer forma de embalagem descartável (incluindo subembalagens) deve estar em conformidade com todas as regulamentações internacionais e locais de reciclagem.

Caixas e paletes devem ser de qualidade suficiente para proteger as mercadorias em trânsito.

### 3.4. Embalagens retornáveis

Autoliv supports the use of re-usable standard packaging where applicable.

Autoliv or the Supplier shall buy or rent a limited quantity of packaging. If Autoliv owns the packaging, the Supplier may be charged rent for exceeding quantities.

The responsibility of maintenance and cleaning is to be defined in the [Packaging Specification \(/sites/autoliv-portal/files/AS246.pdf\)](/sites/autoliv-portal/files/AS246.pdf). If not specified, it is the Supplier's responsibility.

Returnable packaging assigned for the defined supply chain is to be used exclusively for Autoliv supplies. In the event of missing or damaged quantities, Autoliv shall be notified immediately. Returnable tracking and reconciliation are the supplier's responsibility, and Autoliv will support for reconciliation once every 3 months.

Autoliv may debit the Supplier's account a replacement fee if packaging owned by Autoliv is missing or is damaged due to supplier negligence.

### 3.5. Substitute Packaging

In the event substitute packaging cannot be avoided, the Supplier shall send to the receiving Autoliv Plant a written deviation request prior to the delivery.

Autoliv will consider the effects of the deviation and estimate the extra costs from the non-standard process that may be debited to the Supplier's account.

### 3.6. Packaging Changes

Changes of packaging are only possible after agreement from Autoliv.

A new packaging proposal shall be sent through the Autoliv Packaging Approval Platform, and the packaging can only be changed after the proposal is approved by Autoliv.

## 4. Advanced Shipping Notice (ASN)

### 4.1. General

Autoliv expects an Advanced Shipping Notice (ASN) to be sent latest 1 hour after every loading.

The ASN should be according to Autoliv Standard AS242.

## 4.2. Minimum Requirements

The ASN message only refers to:

- one seller
- one buyer
- one consignee = delivery plant

The message can cover several articles.

The message will specify:

- quantity delivered
- batch number
- packing serial number

For more details, please refer to AS242.

## 5. Labeling

### 5.1. General

Autoliv expects all Suppliers to use labels according to the Autoliv Standard Package and Transport Label [AS244\(/sites/autoliv-portal/files/AS%20244\\_new.pdf\)](/sites/autoliv-portal/files/AS%20244_new.pdf). The Standard includes requirements on approved label layouts, sizes, and the information the labels shall contain. It also informs how to handle mixed components on pallets.

To ensure traceability, correct labeling is mandatory on each box and on both sides of each individual pallet.

Correct labeling is the supplier's responsibility. Labels shall be in English.

All Suppliers can print correct labels by using the WEB SUPPLY application through the Autoliv Partner Portal.

### 5.2. Labeling approval

Package and Transport label will be approved during packaging approval process through the Autoliv Packaging Approval platform.

Product label (caution label, serial ID label, etc.) will be approved as part of PPAP by Autoliv Supplier Quality.

Pre-PPAP samples have to be marked with an orange sticker. ([Pre-PPAP Label \(/sites/autoliv-portal/files/Pre-PPAP%20Sample%20Label.xlsx\)](/sites/autoliv-portal/files/Pre-PPAP%20Sample%20Label.xlsx)) ([Pre-PPAP Requirements \(/sites/autoliv-portal/files/Pre-PPAP%20Labeling%20Requirements.pdf\)](/sites/autoliv-portal/files/Pre-PPAP%20Labeling%20Requirements.pdf))

## 6. Contract Requirements

### 6.1. Capacity Planning

Capacity planning of tools, production lines, and personnel training needs to be anticipated, achieved, and checked by the Supplier to meet the required volumes, based on the forecasts given by Autoliv.

A defined reserve of production capacity shall be available within a defined lead time at the Supplier upon Autoliv request. This should be specified and agreed in the [Contract Review \(/sites/autoliv-portal/files/Contract\\_Review.xlsm\)](/sites/autoliv-portal/files/Contract_Review.xlsm) and verified through a [Run at Rate \(/sites/autoliv-portal/files/Production%20Trial%20Run%20Standard.pdf\)](/sites/autoliv-portal/files/Production%20Trial%20Run%20Standard.pdf).

The supplier is requested to assess the capacity situation and submit their response in a timely manner using the Supplier Capacity Survey. The tool is located in the Autoliv Partner Portal and Autoliv aims to launch the survey four times a year. Failing to submit the survey in time will lead to a red responsiveness rating for three consecutive months in Supplier Rating ([AS051 \(/sites/autoliv-portal/files/AS%2051.pdf\)](/sites/autoliv-portal/files/AS%2051.pdf)) and a potential escalation that can lead to New Business Hold (NBH).

The Supplier shall ensure at least a monthly contact with the Autoliv Plants to ensure proper communication, address questions or inform about any situation that may affect the deliveries.

Supplier shall ensure enough flexibility and intelligence in its working patterns, finished goods stocks and manufacturing capacity to respond positively to any demand fluctuations (mix and volumes).

If the forecasts or orders are showing demands higher than the Supplier's capacity, the Supplier shall immediately contact the local Autoliv Logistics Department and propose an alternative supply solution.

## 6.2. Product Changes and Phase In/Out operations

### 6.2.1. Change Management

The requirements for Management of Changes of products and processes at Autoliv is defined in ASM 3.1.3 (<https://suppliermanual.autoliv.biz/en/general-requirements/specific/quality-requirements-general>) Quality Requirements (<https://suppliermanual.autoliv.biz/en/general-requirements/specific/quality-requirements-general>) section 6: Change Point Management, in line with Customer specific requirements.

It is applicable to changes after the parts reach Serial Change Process Level, for Product and Supply Chain, process, and combined scenarios changes.

### 6.2.2. Phase In/Out Operations

In case of EOP at an individual Autoliv Plant, Plant Logistics contact will inform the Supplier minimum 6 months before End of Production:

- The Supplier will evaluate possible obsoletes and will inform the corresponding Autoliv Plant for further decision and action.
- In case of EOP or revision change, orders can be under agreed MOQ, in order to have a minimum of obsolete cost for Autoliv.

After EOP Date (in case more than 1 plant is affected), the Supplier is, according to ASM (see ASM: Spare Part Standard) contractually obligated to serve ALV with Service Parts, incl. specified period of last serial pricing. Supplier should continue to supply until EOS (End of Spares and should secure the Master samples).

Supplier agrees hereby to contact all affected plants, in writing one year prior to the end of serial pricing, to announce and inform Autoliv about:

1. Future pricing
2. Availability of tool(s), equipment, material, skilled personal
3. Any extra costs of future service parts orders that need to be considered for the period beyond last serial price, until the EDO (End of Delivery Obligation, acc. ASM).

Any delay of this supplier information one year before will automatically delay the end of serial pricing accordingly, so that ALV has always 1 year between received information (a, b, c) and end of serial price period.

## 7. Deliveries

### 7.1. General Delivery Compliance

Autoliv requires 100% conformance to delivery from all Suppliers, as per the Incoterm agreed.

It is the Supplier's responsibility to ensure that goods are available at the right location on time as required by each Autoliv plant, including all needed documents. Suppliers are expected to send parts according to Autoliv firm order/call offs.

The Supplier shall plan to have the material shipped to meet all required dates, even if the Supplier is on holiday or shut down.

The delivery performance is measured and reported through the Autoliv Standard Supplier Rating [AS051\(/sites/autoliv-portal/files/AS%2051.pdf\)](/sites/autoliv-portal/files/AS%2051.pdf).

It is the Supplier's responsibility to inform the local Autoliv Logistics Department immediately of any potential difficulties in meeting delivery schedules to avoid production stoppage and/or premium freights. The Supplier should also explore and inform about the contingency or alternate supply plan to ensure continuity of business.

Supplier should have agreed Finish Goods and Raw Material level at any point of time as per Plant Logistics and [Contract Review\(/sites/autoliv-portal/files/Contract\\_Review.xlsx\)](/sites/autoliv-portal/files/Contract_Review.xlsx) requirements. Failing to share the information on time will affect the responsiveness rating in [AS051\(/sites/autoliv-portal/files/AS%2051.pdf\)](/sites/autoliv-portal/files/AS%2051.pdf).

Autoliv reserves the right to reject any delivery that does not conform to the Logistics requirements included in the corresponding Autoliv Logistics Standards. Failure to comply may also result in Autoliv debiting the Supplier's account for all incurred costs.

This procedure is valid for all serial transports. In case of need for a different type of transport, it will be treated and handled by exception, and shall be confirmed directly with affected Autoliv Plant or the Central Transportation Team.

## 7.2. Scheduling Serial Deliveries

The Supplier is required to meet the following requirements before starting shipping serial deliveries:

- PPAP approval (or Interim approval) for the product and process, valid for all Autoliv.
- Plant Approval (PA) in PLM with PA# in Approved state. Each PA is unique and specific for each PPAP and Autoliv Manufacturing Plant Site. If parts are required, due to transportation lead time, to ship before PA is fully approved, a Temporary Shipping Approval (/sites/autoliv-portal/files/Temporary%20Shipping%20Approval.docx) (PA Waiver Request Form) must be completed and fully approved to permit shipment. NOTE: A TSA is valid for 1 shipment of 1 part number to 1 plant. Refer to Plant Approval Training (/sites/autoliv-portal/files/E4867800 Plant Approval training for suppliers.pdf).

After the 2 conditions above are met, the Supplier can start serial deliveries according to the forecast and firm order received from the receiving Autoliv Plant.

Failure to meet the above requirements places the Quality/Cost risks and responsibility onto the Supplier for the serial material shipped.

## 7.3. Transport Management System

Based on a local agreement between Autoliv and Supplier (regional specific), the Autoliv Plant may request Supplier to pre-advise goods using a different way of communication – most common is to use Autoliv TMS (Transportation Management System). In such case pre-advise is equal to uploading Shipment file in required standard, minimum one working day prior the collection day, acc to Logistics Protocol/Standard.

## 7.4. Premium Freights

If a Premium Freight cannot be avoided, the type of transport should be adapted to the emergency. The local Autoliv Logistics Department shall receive all necessary information to be able to contact the transport driver at any time and be informed in advance of the estimated arrival time.

## 7.5. Deliveries according to FIFO

Autoliv Standard for Product Traceability ([AS004 \(/sites/autoliv-portal/files/AS%204.pdf\)](#)) defines the supplier's manufacturing lot/batch size. Deliveries to Autoliv must follow the First-In-First-Out (FIFO) principle in respect to the oldest batch available.

## 7.6. Documents

The Supplier must provide all necessary documents for Customs/Tax purposes, both during the Project phase and for every delivery.

As requested by Autoliv, the supplier shall provide a Certificate of Origin or other requested documentation (e.g., Origin declaration on Invoice based) to certify origin and content levels of each of the individual components which they are supplying to Autoliv. This is required from the supplier in order to assure that Autoliv can comply at a maximum level possible with multiple international Free Trade Agreements (FTA) which exist between countries around the world. An example of this is USMCA (United States-Mexico-Canada Agreement) as related to supply to North America.

The supplier can be notified of the requirement through email, supplier board notification and/or through APP portal messages supporting these activities. The method of uploading and providing the required documentation will be identified in each specific request. Even if they do not receive a requirement previously mentioned, supplier should provide corresponding Certification of Origin.

Timing of these requirements may vary based upon the Free Trade Agreement and its compliance requirements. The Certificate of Origin or the Declaration of Origin on the invoice (depending on the FTA) must be made available for each shipment unless otherwise regulated.

Autoliv requests a so-called Long-Term Supplier Declaration (LTSD). All European based suppliers who supply the European Union and the Turkish Autoliv plants must provide these declarations to Autoliv. This Long-Term Supplier Declaration shall be issued via a portal at Autoliv's request and it is mandatory at the latest when requested by Autoliv.

Furthermore, since payment is based on receipt of appropriate documents, a physical printed Delivery Note shall be attached with the delivered material. This documentation is mandatory and shall be 100% complete. The Delivery Note shall

contain the necessary information described in [AS242-2 \(/sites/autoliv-portal/files/AS242.2\\_new.pdf\)](/sites/autoliv-portal/files/AS242.2_new.pdf).

In addition, an electronic invoice (INVOIC (self-billing)) will be received by the Supplier, described in Autoliv Standard [AS242-4 \(/sites/autoliv-portal/files/AS242.4.pdf\)](/sites/autoliv-portal/files/AS242.4.pdf).

Autoliv expects to have all invoicing process digitalized (minimum requirement is to send a native/original pdf to Finance department in the receiving Plant).

## 8. 24-hour Emergency Contact

Supplier shall provide Autoliv a 24-hour emergency contact through the Autoliv Partner Portal.

## 9. Logistics Audit

Autoliv requires as mandatory that the Supplier performs the Logistics Evaluation Report issued by the Odette Organization (Material Management Optimization Guideline / Logistics Evaluation).

Autoliv Logistics may go for the audit based on supplier audit report. If any abnormality is found, it may lead to a management escalation and improvement action.

## Output from Supplier:

Acknowledgement of acceptance of ASM (Autoliv Supplier Manual) which includes:

- Packaging according to the Specifications included in the Autoliv Packaging Standard [AS246 \(/sites/autoliv-portal/files/AS246.pdf\)](/sites/autoliv-portal/files/AS246.pdf)
- Labeling according to Autoliv Labeling Standard [AS244 \(/sites/autoliv-portal/files/AS%20244\\_new.pdf\)](/sites/autoliv-portal/files/AS%20244_new.pdf)
- Receiving and sending electronic messages according to [AS242-1 \(/sites/autoliv-portal/files/AS242.1.pdf\)](/sites/autoliv-portal/files/AS242.1.pdf); [AS242-2 \(/sites/autoliv-portal/files/AS242.2\\_new.pdf\)](/sites/autoliv-portal/files/AS242.2_new.pdf); [AS242-3 \(/sites/autoliv-portal/files/AS242.3.pdf\)](/sites/autoliv-portal/files/AS242.3.pdf); [AS242-4 \(/sites/autoliv-portal/files/AS242.4.pdf\)](/sites/autoliv-portal/files/AS242.4.pdf), via EDI or WebEDI
- 100% Deliveries on time
- Physical Delivery Note with the delivered material

- Logistics documentation (e.g. delivery note, invoice, Customs documents (when applicable), etc.)
- Capacity Survey
- Logistics audits and associated improvement action plans

## Reference Documents:

AS242-1 (/sites/autoliv-portal/files/AS242.1.pdf), AS242-2 (/sites/autoliv-portal/files/AS242.2\_new.pdf), AS242-3 (/sites/autoliv-portal/files/AS242.3.pdf), AS242-4 (/sites/autoliv-portal/files/AS242.4.pdf) Padrão EDI

Norma de rotulagem AS244 (/sites/autoliv-portal/files/AS%20244\_new.pdf) e apêndice

AS244 Apêndice A (/sites/autoliv-portal/files/AS%20244%20Appendix%20A%20Transport%20Label.pdf) - Etiqueta de transporte

AS244 Apêndice B (/sites/autoliv-portal/files/AS 244 Appendix B Europe VDA small.pdf) - Etiqueta de embalagem europeia (pequena)

AS244 Apêndice C (/sites/autoliv-portal/files/AS 244 Appendix C Package Label.pdf) - Etiqueta da embalagem

AS244 Apêndice D (/sites/autoliv-portal/files/AS 244 Appendix D Credit Card Label.pdf) - Etiqueta de cartão de crédito

AS244 Apêndice E (/sites/autoliv-portal/files/AS 244 Appendix E Europe B10.pdf) - Etiqueta de transporte para contêineres com grandes porta-etiquetas

AS244 Apêndice F (/sites/autoliv-portal/files/AS 244 Appendix F.pdf) - AIAG B10

(/sites/autoliv-portal/files/AS246.pdf) Norma de embalagem AS246 (/sites/autoliv-portal/files/AS246.pdf)

AS004 (/sites/autoliv-portal/files/AS%204.pdf) Rastreabilidade de produtos

AS004 Apêndice 1b (/sites/autoliv-portal/files/AS%204%20Appendix%201b%20-%20Traceability%20Flow%20chart%20(Supplier%20Example).pdf) - Fluxograma de rastreabilidade (exemplo de fornecedor)

AS004 Apêndice 2 (/sites/autoliv-portal/files/AS%204%20Appendix%202%20-%20Traceability%20Classification%20Levels.pdf) - Níveis de classificação de

rastreabilidade

AS004 Apêndice 3 (/sites/autoliv-portal/files/AS%204%20Appendix%203%20-%20Traceability%20Data%20Requirements%20Charts.pdf) - Gráficos de requisitos de dados de rastreabilidade

AS051 (/sites/autoliv-portal/files/AS%2051.pdf) (Classificação de Fornecedores Autoliv) / Apêndice A (/sites/autoliv-portal/files/Appendix%20A%20-%20Examples%20March%206th%202013.pdf) (Exemplos de Classificação de Fornecedores)

Relatório de Material Não Conforme (NCM) ( Diretriz Geral do Excel (/sites/autoliv-portal/files/General%20Excel%20Guideline%20v2.doc) )

Rótulo Pré-PPAP (/sites/autoliv-portal/files/Pre-PPAP%20Sample%20Label.xlsx)

Auditoria logística ( MMOG/LE - <http://www.odette.org/html/home.htm> ( <http://www.odette.org/html/home.htm> ) )

Protocolos de Logística Divisional

## Política do site

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