Advance Shipping NOTE (ASN)
RND004 V19

Document Change Log

Version	Date	Description
1.0	2024.08.01	Document issued.

1. INTRODUCTION

This document provides a specific description of the RND004 V19 message.

2. MESSAGE DEFINITION

This document provides the definition of a Delivery Note and Transport Information Message (ASN), based on the RND004 V19, to be used in Electronic Data Interchange (EDI) between an Antolin Operating Company and its trading partners.

This documentation is fully comprehensive and allows the implementation of the RND004 without the necessity for any additional standard-related documentation.

2.1. FUNCTIONAL DEFINITION

The Delivery note message is a message from Antolin to an Antolin Supplier giving details for deliveries and transport information.

This message may be used as shipping and transport information.

2.2. PRINCIPLES

The Delivery Note message is intended to:

- Specify details based on the delivery.
- Transmitting and loading packing slip and transportation data.
- Provide information allowing Antolin to know the materials flow.

2.3. REFERENCES

The content of this message is based on:

☐ The message structure is defined by RND for the Delivery Schedule Message 004.

☐ The agreement between the Trading Partners on the data elements to be used, their unique definition, their representation and their values (coded or clear form) as identified in this document.

☐ RND-Data National Register (**R**egistro **N**acional de **D**ados) by ANFAVEA (Association of Brazilian Automobile Manufacturers)

2.4. FIELD OF APPLICATION

The following definition for Delivery Notice Message in RND format is applicable for the interchange of delivery notes issued by Antolin for material deliveries to one or more Antolin Operations.

3. MESSAGE DESCRIPTION

The RND004 is a message, which is sent from a party who is planning to supply products to a GA Plant. The message gives the information regarding details for materials delivery. The information is used to determine material and transport details.

3.1. INTRODUCTION

3.1.1. Basic information ASN (Advance Ship Notice)

3.1.1.1. Vendor code

The vendor code has been assigned centrally in Antolin SAP system. The different vendor codes have now been communized.

3.1.1.2. The receiving plant / Customer plant code

- All Antolin plants are identified by a 3-letter plant-code and Tax ID (see Plants Table).

- All Antolin Brazil plants have a Tax ID "CNPJ" as identification that must be used as Receiver_Code in the ITP.07 segment.

- All data on the release authorization refer to plant and part number.

- The plant is transmitted in the Internal receiver code ITP.09 field as
  3-letter code.

- It is absolutely essential that in every kind of documentation or data transmission, the plant code and the part number are indicated.

- The Tax ID "CNPJ" is an acronym of **C**adastro **N**acional de **P**essoa **J**uridica for Brazilian companies like DUNS number or VAT.

3.1.1.3. The receiving RND Code / RND Plant Code

- Use the same identifiers that are sent in the RND001 message. Fields ITP.07 and ITP.08

3.1.1.4. Packaging Information

- Packaging information with empty packages is not allowed.

3.2. MESSAGE STRUCTURE
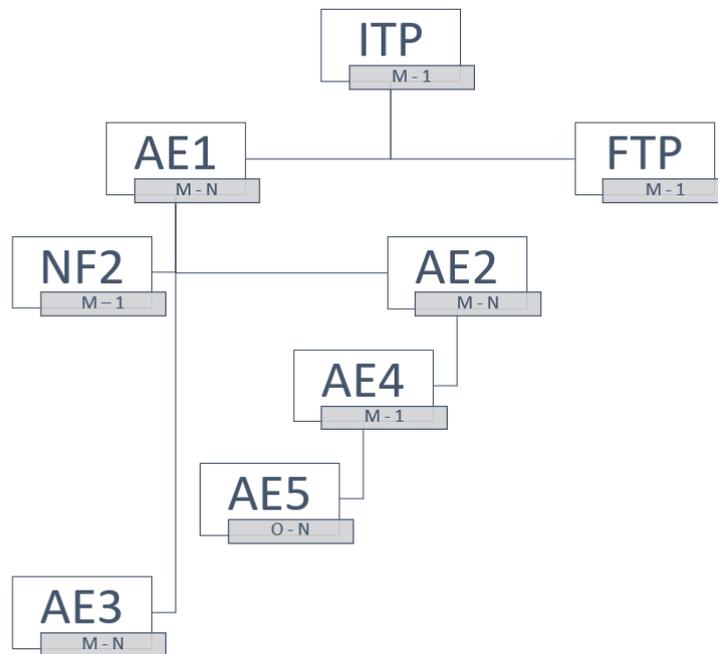
Segments usage:

1   Once
R   Repeatable
M   Mandatory
O   Optional
C   Conditional

Segment	Usage	Occurrence	Description
ITP	M	1	START OF TRANSMISSION PROCESS
AE1	M	R	e-INVOICE DATA
NF2	M	1	ADDITIONAL e-INVOICE DATA
AE2	M	R	ITEM DATA
AE4	M	1	ITEM ADDITIONAL DATA
AE5	O	R	LABEL DATA
AE3	M	N	COMMERCIAL ADDITIONAL DATA
FTP	M	1	END OF TRANSMISSION PROCESS

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Record Layout Delivery Note Message and Description of the Data Elements with Antolin Requirements

Record Type	ITP	Ver. 19			MANDATORY	
Description:		START OF TRANSMISSION PROCESS				
Field	Format	Definition	Length	Occu	Value	Notes
01	1-3	Type of Record	3	M	'ITP'	Constant
02	4-6	Process number	3	M		
03	7-8	Version-Number	2	M	'19'	Constant
04	09-13	Transmission Number	5	M	'00000'	Number of this transmission; is incremented by 1 at each transmission.
05	14-25	Transmission Date	12	M		Date and time transmission. Format YYMMDDHHMMSS
06	26-39	Sender code	14	M		Supplier code Tax ID 'CNPJ'
07	40-53	Receiver code	14	M		Antolin code Tax ID 'CNPJ'
08	54-61	Internal sender code	8	M		Assigned by Antolin
09	62-69	Internal receiver code	8	M	'TRT'	Assigned by Antolin.
10	70-94	Sender name	25	O		Assigned by Antolin
11	95-119	Receiver name	25	O		Antolin plant name
12	120-128	Blank	9	M		Filler

M = Mandatory, C = Conditional , O = Optional

Record Type	AE1	Ver. 19			MANDATORY	
Description:		e-INVOICE DATA				
Field	Format	Definition	Length	Occu	Value	Notes
01	1-3	Type of Record	3	M	'AE1'	Constant
02	4-9	e-Invoice number	6	M		e-invoice number 'Nota Fiscal'
03	10-13	e-Invoice serial number	4	M	"-001"	e-invoice serial number 'Nota Fiscal' you must have included hifen before. e.g. "-001"
04	14-19	e-Invoice date	6	M		e-Invoice date Format YYMMDD
05	20-22	e-Invoice item quantity	3	O		e-Invoice item quantities
06	23-39	e-Invoice amount	17(15,2)	O		e-Invoice amount
07	40-40	Decimals	1	M		Decimals; 2 decimals
08	41-45	Operation fiscal code	5	O		Operation fiscal code 'CFOP'
09	46-62	ICMS total amount	17(15,2)	O		ICMS total amount
10	63-68	Payment date	6	O		Payment date. Format YYMMDD
11	69-70	e-Invoice type	2	O		e-Invoice type "Simples" or "Fatura"
12	71-87	IPI total amount	17(15,2)	O		IPI total amount
13	88-90	Factory code	3	O		Not used
14	91-96	e-invoice estimated date	6	O		Not used
15	97-100	Time to delivery	4	O		Not used
16	101-115	Operation description	15	O		Not used
17	116-121	Delivery date	6	M		Delivery date - Format YYMMDD
18	122-125	Delivery time	4	M		Delivery time - Format HHMM
19	126-128	Blank	3	M		Filler

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Record Type	**NF2**	Ver. 19			**MANDATORY**	
Description:		ADDITIONAL e-INVOICE DATA				
Field	Format	Definition	Length	Occu	Value	Notes
01	1-3	Type of Record	3	M	'NF2'	Constant
02	4-15	Accessories expenses	12	O		Not used
03	16-27	Freight amount	12	O		Not used
04	28-39	Ensure amount	12	O		Not used
05	40-51	Discount amount	12	O		Not used
06	52-63	Tax base amount	12	O		Not used
07	64-75	Tax discount amount	12	O		Not used
08	76-80	e-invoice number	6	O		Not used
09	82-87	e-invoice date	6	O		Not used
10	88-91	e-invoice serial	4	O		Not used
11	92-94	Sender factory code	3	O		Not used
12	95-99	Tax operation code	5	O		Not used
13	100-111	Service amount	12	O		Not used
14	112-128	Blank	17	M		Filler

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Record Type	**AE2**	Ver. 19			**MANDATORY**	
Description:		ITEM DATA				
Field	Format	Definition	Length	Occu	Value	Notes
01	1-3	Type of Record	3	M	'AE2'	Constant
02	4-6	Line item number	3	M		
03	7-18	Purchase number	12	M		Assigned by Antolin
04	19-48	Material code	30	M		Assigned by Antolin
05	49-57	Material quantity	9	M		Decimals see the field AE1.7
06	58-59	Unit of measure	2	M		Encoded Format G Grams KG Kilogram KM Kilometer L Litre M Metre M2 Square Meter M3 Cubic Meter MM Millimetres PA Pair SA Set SD Hour ST Piece PC Piece T Ton TG Tag
07	60-69	NBM/NCM Code	10	M		Tax classification according to NBM table.
08	70-73	IPI rate	4(2,2)	O		Tax "IPI" rate
09	74-85	Material unit value	12(7,5)	O		
10	86-94	Stock quantity	9	O		Not used
11	95-96	Unit of measure(stock)	2	O		Not used - Stock
12	97-105	Purchase unit quantity	9	O		Not used
13	106-107	Unit of measure(PO)	2	O		Not used – Purchase Order
14	108-108	Delivery type	1	O		Not used
15	109-112	Discount rate	4	O		Not used
16	113-123	Discount amount	11	O		Not used
17	124-127	Technical changes	4	O		Not used
18	128-128	Blank	1	M		Filler

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Record Type	**AE3**	Ver. 19			**MANDATORY**	
Description:		COMMERCIAL ADDITIONAL DATA				
Field	Format	Definition	Length	Occu	Value	Notes
01	1-3	Type of Record	3	M	'AE3'	Constant
02	4-7	Buyer identification	14	O		Antolin buyer code Tax ID 'CNPJ'
03	18-31	Payer identification	14	O		Antolin payer code Tax ID 'CNPJ'
04	32-45	Unloading point	14	M	'ALM'	Unloading point as sent by RND001 - PE1.10
05	46-49	Mean of transport	4	O		Not used
06	50-128	Blank	79	M		Filler

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Record Type	**AE4**	Ver. 19			**MANDATORY**	
Description:		ITEM ADDITIONAL DATA				
Field	Format	Definition	Length	Occu	Value	Notes
01	1-3	Type of Record	3	M	'AE4'	Constant
02	4-7	ICMS rate	4(2,2)	O		Tax ICMS rate
03	8-24	ICMS base amount	17(15,2)	O		
04	25-41	ICMS value	17(15,2)	O		
05	42-58	IPI value	17(15,2)	O		
06	59-60	CST number	2	O		Tax code
07	61-90	Item design code	30	O		Not used
08	91-96	Design date	6	O		Not used
09	97-109	Sales order	13	O		Not used
10	110-114	Net weight of item	5	O		Not used
11	115-115	Unit value factor	1	O		Not used
12	116-127	Total amount	12(10,2)	O		Not used
13	128-128	Federal tax code	1	O		Not used

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Record AE5 - Optional
**Name:** Packaging Data (Empty packages are not allowed)
Description: Segment AE5 is used to inform the packaging information (0 and 1 level) having the next examples:
1- No Packaging (0): If is not required packaging information, the segment AE5 should not be transmitted
2- Packaging 1 level: One packaging level type with the same material
3- Packaging 2 levels: Two packaging levels type with the same material. (e.g: pallet and box)

Record Type	**AE5**	Ver. 19			**OPTIONAL**	
Description:		LABEL DATA				
Field	Format	Definition	Length	Occu	Value	Notes
01	1-3	Type of record	3	M	'AE5'	Constant
02	4-33	Packaging ID	30	M		Packaging identification code.(Antolin code)
03	34-42	Quantity per packaging	9	M		Pieces per packaging
04	43-72	HU code	30	M		Handle unit code. (serial number)
05	73-92	Package type	20	O		E.g. pallet, container,etc
06	93-100	Unit value	8(6,2)	O		Not used
07	101-106	Packaging e-invoice number	6	O		Not used
08	107-110	e-invoice serial	4	O		Not used
09	111-116	e-invoice date	6	O		Not used
10	117-125	Quantity of packaging	9	M		Number of packages
11	126-128	Blank	3	M		Filler

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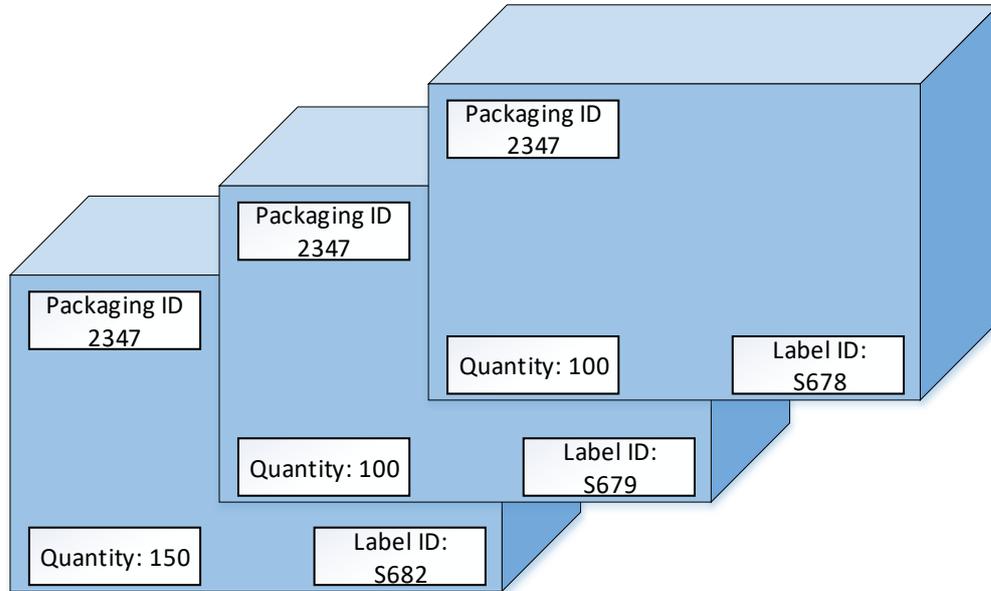
Record: AE1	e-invoice number(AE1.2): 123456		
Record: AE2	Material code(AE2.4): 135025090	Quantity (AE2.5): 350.00	
Record: AE5			
Description:	Packaging data		
Packaging ID (AE5.02)	Packaging quantity (AE5.10)	Quantity per packaging (AE5.03)	HU code (AE5.04)
2347	000000001	000010000	678
2347	000000001	000010000	679
2347	000000001	000015000	682

Record Type	**FTP**	**Ver. 19**			**MANDATORY**	
Description:		END OF TRANSMISSION PROCESS				
Field	Format	Definition	Length	Occu	Value	Notes
01	1-3	Type of Record	3	M	'FTP'	Constant
02	4-8	Control transmission number	5	O		Not used
03	9-17	Register quantity	9	M		Register total included ITP and FTP
04	18-34	Total amount	17	O		Not used
05	35-35	Operation type	1	O		Not used
06	36-128	Blank	93	M		Filler

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SAMPLE MESSAGE:

One level packing

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ITP00419000212408010921210843799600010900783986000011340376          XXX MONTAGEM               TRIMTEC LTDA
AE1061592-3  24073100300000000006749362000000000000000080992224082802000000000000000   2407310000VENDA DE PRODUT2407310921
NF20000000000000000000000000000000000000000000000000006749362000000000000615922407313     06101000000000000
AE200120203822   156442130                000001600PC00870829940000000001599000000001600PC000001600PCP00000000000000000000
AE41200000000000000255891200000000000030706900000000000000000000            000000        00000 0000025589120
AE200220203822   156442150                000001125PC00870829940000000002549000000001125PC000001125PCP00000000000000089120
AE41200000000000000286821000000000000034418500000000000000000000            000000        00000 0000028682100
AE200320203822   156442170                000001560PC00870829940000000008470000000001560PC000001560PCP00000000000000082100
AE41200000000000000132224000000000000015866900000000000000000000            000000        00000 0000013222400
AE300783986000113007839860000113ALM
FTP00021000000011000000000013498724
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