



ExpressLabel Integration Guide

Arrangements

V.1.0(2017)

Revision History

Author	Date	Version	Description
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Table of Contents

	page
1. Arrangement A (label Dimensions)	4
2. Arrangement B (Extra Data inside label)	4
3. Arrangement C (Postal Code Validation)	5
4. Arrangement D (Services)	6
5. Arrangement E (LMF file)	7
6. Arrangement F (TNT consignment number)	9

1. Arrangement A (label Dimensions)

Mandatory dimensions of standard label of TNT



2. Arrangement B (Extra data inside label)

All extra data, pictures and logos inside the standard label dimensions, are not authorized by our Operations Department.

3. Arrangement C (Postal code validation)

Express Label validates Country+Postcode+Town of sender and receiver addresses. The main validation rules of the web service are:

- A. Postal code + Town + Country, validation OK.
- B. Postal code + Country, eLabel will fill town field if it is empty and only there is a town for the postal code. Example 08001 (Barcelona), this postal code have a single entry.
- C. Postal Code + 4 first char of town + Country, eLabel will fill town, if there is not a town with same postal code and the same 4 firsts chars.
- D. Postal Code + town with 6 first char correct + Country. eLabel changes the wrong town with the correct one. Exception: Town name contains ','. Elabel does not take into account '-' and <space>.
- E. If there are several towns for the same Postal Code, the only way to avoid an error is:

`<exactMatch><![CDATA[Y]]></exactMatch>`

Example: 11100 NARBONNE --> Error with exactmatch 'N' because exist 11100 NARBONNE CEDEX

NOTE: Apart from these validations rules our database contains Alias (different ways of write a town name), to validate outside of these rules and avoid errors.

4. Arrangements D (Services)

lob /Elabel	lob1	lob2	lob3	Service/Elabel	Descripción	doc_non	dom_int	Division Econnect	Servicio/ Econnect
200	2	0	0	EC	Economy Express	NONDOC	Internacional	G	48N
200	2	0	0	EC12	12:00 Economy Express	NONDOC	Internacional	G	412
200	2	0	0	EX	Express	DOC	Internacional	G	15D
200	2	0	0	EX	Express	NONDOC	Internacional	G	15N
200	2	0	0	EX09	9:00 Express	DOC	Internacional	G	09D
200	2	0	0	EX09	9:00 Express	NONDOC	Internacional	G	09N
200	2	0	0	EX10	10:00 Express	DOC	Internacional	G	10D
200	2	0	0	EX10	10:00 Express	NONDOC	Internacional	G	10N
200	2	0	0	EX12	12:00 Express	DOC	Internacional	G	12D
200	2	0	0	EX12	12:00 Express	NONDOC	Internacional	G	12N
100	1	0	0	EX	Express	DOC	Domestic	D	15D
100	1	0	0	EX	Express	NONDOC	Domestic	D	15N
100	1	0	0	EX10	10:00 Express	DOC	Domestic	D	10D
100	1	0	0	EX10	10:00 Express	NONDOC	Domestic	D	10N
100	1	0	0	EX12	12:00 Express	DOC	Domestic	D	12D
100	1	0	0	EX12	12:00 Express	NONDOC	Domestic	D	12N
109	1	0	9	EX	Express Plus	NONDOC	Domestic	D	15

How fill Service inside XML

<product>

<lineOfBusiness><![CDATA[1]]></lineOfBusiness>

<subGroupld><![CDATA[0]]></subGroupld>

<subGroupld><![CDATA[0]]></subGroupld>

<id>EX</id>

<type><![CDATA[N]]></type>

<!--Element option is optional, maxOccurs=5-->

<option><![CDATA[PR]]></option>

</product>

Note: The three first data are from LOB/eLabel Column (1-0-0 in this case), the 'Id' is Service/Elabel column and in 'type', 'N' for Non-documents and 'D' for Documents (doc_non column).

5. Arrangements E (LMF file)

In order to have the minimal validation errors, we can provide you the postcodes and towns database of TNT to validate your data. This file (Image 1) contains the most valuable TNT information about Postal Codes and Towns for available routes around the world.

AD WWPAD100	00011AD100	AD100	L ALDOSA (CANILLO)	AD100	N	AND	MA2	NCNNAN	N
AD WWPAD100	00011AD100	AD100	L' ALDOSA	AD100	N	AND	MA2	NCNNAN	Y
AD WWPAD100	00011AD100	AD100	L ALDOSA (CANILLO)	AD100	N	AND	MA2	NCNNAN	N
AD WWPAD100	00011AD100	AD100	L' ALDOSA	AD100	N	AND	MA2	NCNNAN	Y
AD WWPAD100	00012AD100	AD100	CANILLO	AD100	N	AND	MA2	NCNNAN	N
AD WWPAD100	00012AD100	AD100	CANILLO	AD100	N	AND	MA2	NCNNAN	N
AD WWPAD100	00014AD100	AD100	EL FORN	AD100	N	AND	MA2	NCNNAN	N
AD WWPAD100	00014AD100	AD100	EL FORN	AD100	N	AND	MA2	NCNNAN	N
AD WWPAD100	00015AD100	AD100	INCLES	AD100	N	AND	MA2	NCNNAN	N
AD WWPAD100	00015AD100	AD100	INCLES	AD100	N	AND	MA2	NCNNAN	N
AD WWPAD100	00016AD100	AD100	MERITXELL	AD100	N	AND	MA2	NCNNAN	N
AD WWPAD100	00016AD100	AD100	MERITXELL	AD100	N	AND	MA2	NCNNAN	N
AD WWPAD100	00017AD100	AD100	ELS PLANS	AD100	N	AND	MA2	NCNNAN	N
AD WWPAD100	00017AD100	AD100	ELS PLANS	AD100	N	AND	MA2	NCNNAN	N
AD WWPAD100	00018AD100	AD100	PRATS	AD100	N	AND	MA2	NCNNAN	N
AD WWPAD100	00018AD100	AD100	PRATS	AD100	N	AND	MA2	NCNNAN	N
AD WWPAD100	00019AD100	AD100	RANSOL	AD100	N	AND	MA2	NCNNAN	N
AD WWPAD100	00019AD100	AD100	RANSOL	AD100	N	AND	MA2	NCNNAN	N
AD WWPAD100	00020AD100	AD100	SOLDEU	AD100	N	AND	MA2	NCNNAN	N
AD WWPAD100	00020AD100	AD100	SOLDEU	AD100	N	AND	MA2	NCNNAN	N
AD WWPAD100	00021AD100	AD100	EL TARTER	AD100	N	AND	MA2	NCNNAN	N
AD WWPAD100	00021AD100	AD100	EL TARTER	AD100	N	AND	MA2	NCNNAN	N
AD WWPAD100	00022AD100	AD100	EL VILAR	AD100	N	AND	MA2	NCNNAN	N
AD WWPAD100	00022AD100	AD100	EL VILAR	AD100	N	AND	MA2	NCNNAN	N
AD WWPAD200	00023AD200	AD200	LES BONS	AD200	N	AND	MA2	NCNNAN	N
AD WWPAD200	00023AD200	AD200	LES BONS	AD200	N	AND	MA2	NCNNAN	N
AD WWPAD200	00024AD200	AD200	ELS CORTALS	AD200	N	AND	MA2	NCNNAN	N
AD WWPAD200	00024AD200	AD200	ELS CORTALS	AD200	N	AND	MA2	NCNNAN	N
AD WWPAD200	00025AD200	AD200	ENCAMP	AD200	N	AND	MA2	NCNNAN	N
AD WWPAD200	00025AD200	AD200	ENCAMP	AD200	N	AND	MA2	NCNNAN	N

Image 1. LMFfile.txt Sample

Recomended link to validate all Postal Code around the world.

<http://www.geopostcodes.com/resources>

FILE LMF LAYOUT

POSICIÓN	CAMPO	DESCRIPCIÓN	FORMATO	
001-003	COU-ID	Country Code	PIC X(03)	COUNTRY
004-005	COM-ID	Company Code	PIC X(02)	WW
006-006	ADT-ID	type indicator (P(ostcode)/T(own)/U(nspecified))	PIC X(01)	P
007-015	CONV-END-P-CD	End of postcode range (converted/standardized)	PIC X(09)	CP END
016-020	TOW-ID	Town Id	PIC X(05)	
021-029	PCODE-ST-CD	Begin of postcode range	PIC X(09)	CP START
030-038	PCODE-END-CD	End of postcode range	PIC X(09)	CP END
039-068	TOW-NM	Town Name	PIC X(30)	CITY NAME
069-077	CONV-ST-P-CD	Begin of postcode range (converted/standardized)	PIC X(09)	CP START
078-082	TOW-PCODE-TOWN-ID	Town id of main town	PIC X(05)	ID NOTHING
083-083	TOW-PLACE-IN	Is this a town or a place	PIC X(01)	ZONE
084-086	PRV-ID	province Code	PIC X(03)	DEPOT
087-091	BILL-STAT-CD	Billing Depot	PIC X(05)	NOTHING
092-096	DEST-DEPOT-CD	Destination Depot	PIC X(05)	DEPOT
097-097	OLD-ZONE-CD	Delivery Zone (old)	PIC X(01)	
098-102	DEST-STAT-CD	Destination Depot	PIC X(05)	
103-107	CONTR-STAT-CD	Controlling Depot	PIC X(05)	
108-108	ODA-CD	?	PIC X(01)	
109-109	NEW-ZONE-CD	Delivery Zone	PIC X(01)	
110-110	ELITE-OPT-CD	Elite	PIC X(01)	
111-111	GARANT-IN	Guaranteed (Y/N)	PIC X(01)	
112-112	SKY-AGENT-CD	delivery party	PIC X(01)	
113-113	SATURDAY-IN	saturday delivery (Y/N)	PIC X(01)	
114-115	DEL-OPT-CD	delivery option	PIC X(02)	
116-116	ALIAS-IN	Is this an alias (Y/N)	PIC X(01)	Y / N
117-141	FILLER	BLANK	PIC X(24)	BLANK

6. Arrangement F (TNT consignment number only for range provided by TNT)

One of the fields of eLabel request is TNT shipment number. The TNT shipment number consists of 9 digits, of which, TNT provides with a numeric range including only the first 8 digits. The last digit (named 'control digit'), must be calculated by the customer in the following way:

1 2 3 4 5 6 7 8 X

A=	1	x	8+	B= integer (A/11) x 11
	2	x	6+	VALUE = A – B
	3	x	4+	
	4	x	2+	If VALUE = 0 then Digit = 5
	5	x	3+	If VALUE = 1 then Digit = 0
	6	x	5+	If VALUE # 1 o # 0, then
	7	x	9+	Digit = 11 – VALUE
	8	x	7	

Using a test number range as an example (start range = 13156157 / end range = 13156163), the control digit should be calculated in the following way,

1	x	8+ = 8	A = 157
3	x	6+ = 26	B= integer (157/11) x 11 = 154
1	x	4+ = 30	VALUE = 157 – 154 = 3
5	x	2+ = 40	Digit = 11 – 3 = 8
6	x	3+ = 58	
1	x	5+ = 63	The TNT number would be, 131561578
5	x	9+ = 108	
7	x	7 = 157	

IMPORTANT. The number ranges provided by TNT have to be renewed/changed on a certain frequency (usually every 3-4 months). **Used ranges cannot be reused.**

Next, if of use, is included the programming in Visual Basic to calculate the control digit.

Function CalculateDigiCon(Albaran)

Dim tmpNumber, NewNumber, A1, A2, A3, A4, A5, A6, A7, A8, A9

Dim Asum, Bsum, Csum, Dsum, Esum

tmpNumber = Trim(Albaran)

A1 = Mid(tmpNumber, 1, 1) * 8

A2 = Mid(tmpNumber, 2, 1) * 6

A3 = Mid(tmpNumber, 3, 1) * 4

A4 = Mid(tmpNumber, 4, 1) * 2

A5 = Mid(tmpNumber, 5, 1) * 3

A6 = Mid(tmpNumber, 6, 1) * 5

A7 = Mid(tmpNumber, 7, 1) * 9

A8 = Mid(tmpNumber, 8, 1) * 7

Asum = A1 + A2 + A3 + A4 + A5 + A6 + A7 + A8

Bsum = Asum Mod 11

Select Case Bsum

Case 0

Csum = 5

Case 1

Csum = 0

Case Bsum

Csum = 11 - Bsum

End Select

CalculateDigiCon = Albaran & Csum

End Function

ANNEX

a.- All documents provided by TNT for the purpose of technical integration or deployed applications; is TNT PROPRIETARY INFORMATION shared with the customer to support the commercial relationship, not be shared beyond this purpose.

b.- When information needed to be shared with a third party to support operations (for example 3PL), or any other technical third party such as but not limited to software developer; it is the customer sole responsibility to do so, and manage the relationship with their supplier in terms of confidentiality, extending TNT's requirements. Ensuring that their supplier does not retain any information after cease of relationship, nor use TNT information for purpose different than enabling the transactions stated in the commercial agreement.