Shipment Number Calculation and Package Codes of CttExpress

Version	Created by	Department
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Shipments to Spain

To calculate the service number:

6 fixed attributed digits + 6 variable attribute digits (origin agency) + 10-digit range counter
Example: 00000200000020839208554

Note: The 6 fixed attributed digits correspond to the first 6 digits for the customer's associated agency code (000002) and the next 6 variable attribute digits for the origin agency code of the shipment (000002).

To obtain the origin agency of a shipment, you should retrieve it from the CANALREC pipeline file using the origin postal code.

https://transfer.cttexpress.com/IT/export/integra/CANALREC.csv

To calculate the service number with parcel:

The service number to be indicated in the barcode of the label will have a maximum of 10 digits provided by CTT Express, and its composition will be as follows:

6 fixed attributed digits + 6 variable attribute digits (origin agency) + 10-digit range counter + 3-digit parcel counter
000002000002083920855400 1

Examples with a shipment of 3 parcels:

Service number of the shipment
00403000403000007243 44

Service number + parcel (3 parcels)
00403000403000007243 44001
00403000403000007243 44002
00403000403000007243 44003

Shipments to Portugal:

In the case of shipments to PT (Portugal), you will need to calculate both the ES (Spain) range and the PT range.

Portugal Range Range (assigned per parcel):

The Portugal range number must obligatorily have 13 characters and the following composition:

CCNNNNNNNNWPP

This breaks down into:

- **CC**: Alphabetic prefix defined by the range supplied by CTT. 2 characters.
  Example: If the range is EA76151, then CC = EA.
- **NNNNNNNN**: Sequence number within the range assigned by CTT, filling up to 8 digits.
  Example: If the range is EA76151, then N = 76151001
  (The next number would be N = 76151002)
  The range would be limited up to 76151999.
- **W**: Control digit calculated from the sequence number.

Calculation method:

1. **Assign a weight to each digit of the sequence from left to right as follows.**

Digit Position	Weight	Example Digit
1	8	7
2	6	6
3	4	1
4	2	5
5	3	1
6	5	0
7	9	0
8	7	1

2. **Multiply each digit of the sequence by its corresponding weight.**

Calculation	Result
7 × 8	56

6 × 6	36
1 × 4	4
5 × 2	10
1 × 3	3
0 × 5	0
0 × 9	0
1 × 7	7

3. **Sum of the results:**

Result
56
36
4
10
3
0
0
7
Total: 116

4. **Divide this total by 11 and subtract the remainder from 11.**
    - Remainder (116 ÷ 11) = 6
5. **Determine the control digit W based on the remainder:**
    - If Remainder = 0, then W = 5
    - If Remainder = 1, then W = 0
    - If Remainder ≠ 0 and Remainder ≠ 1, then W = 11 - Remainder

Calculation: W = 11 - 6 = 5

- **PP**: Constant value "PT".

The shiptment number for this parcel would be:
EA761510015PT