

UPU EDI compliance project

Explanatory notes: EMSEVT repeated events report

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Introduction

Most EMSEVT events are not supposed to be sent multiple times. Typically, events EMA (posting/collection) and EMI (final delivery) can only occur once for an item. But in practice, there are anomalies and events are sometimes sent multiple times for an item.

It is not considered an anomaly if events EDD (item into sorting centre), EDE (item out of sorting centre) and EMH (unsuccessful delivery) occur more than once for an item.

This report shows when an EMSEVT event was sent multiple times for an item. Events are considered as repeated (=sent multiple times) if the following conditions are met:

- Same item identifier
- Same event code
- Same location code
- Same origin EDI address
- Same destination EDI address

In case of open transit, it is normal that some events are sent to several partners. This is typically the case for event EMK (departure from transit office of exchange) sent by the transit post to the item origin and to the item final destination. These are rightly considered as different events in the report, because they are sent to different EDI addresses.

The report is not based on all EMSEVT messages during the month. Instead, it is based on a sample consisting of a full week (7 consecutive days) of messages.

Report organization

1. Summary

In a summary section, the report lists the 25 EMSEVT events and provides totals per mail class for each event, with the following values:

Heading	Description
% multiple	The percentage of items for which multiple events were sent. It is calculated from the following columns: [Count multiple] / [Count events]
	The value is displayed in orange if it is between 5 and 10%, except for events EDD, EDE and EMH.
	The value is displayed in red if it is higher than 10%, except for events EDD, EDE and EMH.
Count multiple	The number of items for which multiple events were sent. There are multiple events if an event was sent at least twice for an item, from the same origin EDI address and to a same destination EDI address.
max p. item	The maximum number of events counted for an item in the sample.

	If, for example, the value is 10, it means that for at least one item, the event concerned was sent 10 times.
Avg mult.	Average number of events when there are repeated events.
	The minimum value is 2. If the value is 2, it means that there is never more than two instances of the event per item.
	The purpose of this column is to indicate if there are many events sent more than twice.
Count events	The total number of events sent in the sampling period, counting events sent multiple times as one.

Note: this table includes information on events EDD, EDE and EMH, even if multiple events are not considered an anomaly for these events.

For designated operators participating in the IPC INTERCONNECT agreement, an additional table is displayed with totals for INTERCONNECT parcels, for EDI addresses xx301 and xx310. This table provides exactly the same information details as the main table.

The screen capture below shows the aspect of the summary section of the report:

EMSEVT repeated events -					S	ampling	period:	17-2	3 Oct	2022						
Operator:							Compliance summary:			total events 803 551		evt with issues 36 342		percent compliant 95.48		
Summary:								_		5 and 10%				and EM	н	
			Parcels					Letters								
event Description	% multiple	count multiple p	max o. item	avg mult.	count events	% multiple	count multiple p	max p. item	avg mult.	count events	% multiple	count multiple	max p. item	avg mult.	count events	
EMA Posting/collection	0.0%	0			3 604	7.6%	110	2	2	1 455	0.0%	0			3 516	
EMB Arrival at outward office of exchange	0.0%	0			2 350	5.1%	63	2	2	1 227	0.0%	0			1 992	
EXA Item presented to export customs/security	0.0%	0			414						0.0%	0			341	
EXB Item held by export customs/security	0.0%	0			414						0.0%	0			341	
EXC item returned from export customs/security	0.0%	0			518						0.0%	0			222	
EXD Item held at outward office of exchange																
EXX Export cancellation																
EMC Departure from outward office of exchange	0.0%	0			4 146	3.9%	71	2	2	1 834	0.0%	0			3 624	
EMJ Arrival at transit office of exchange	0.0%	0			26	28.6%	4	2	2	14	0.0%	0			36	
EMK Departure from transit office of exchange	37.7%	20	2	2	53	50.0%	14	4	2.43	28	48.6%	35	2	2	72	
EMD Arrival at inward office of exchange	0.0%	0			20 779	0.3%	41	2	2	15 126	0.0%	0			94 953	
EDA Item held at inward office of exchange																
EDB Item presented to import customs	0.0%	0			20 643	0.2%	29	2	2	14 928	0.0%	0			94 881	
EME Item held by import customs	0.0%	0			1 307	0.5%	4	2	2	885	0.0%	0			793	
EDC Item returned from import customs	0.0%	0			18 678	0.5%	67	2	2	13 639	0.0%	0			12 907	
EMF Departure from inward office of exchange	0.0%	0			18 679	0.5%	67	2	2	13 693	0.0%	0			12 910	
EDD Item into sorting centre	50.5%	10 386	74	2.65	20 574	53.0%	9 886	82	3.46	18 653	12.8%	14 683	101	2.65	114 814	
EDE Item out of sorting centre	2.1%	36	2	2	1 753	2.5%	34	3	2.06	1 384	2.1%	576	2	2	27 823	
EMG Arrival at delivery office	0.0%	0			17 151	0.3%	45	2	2	15 946	0.0%	0			99 736	
EDF Item held at delivery depot	10.7%	24	3	2.04	225	4.7%	8	2	2	170	4.0%	23	3	2.04	578	
EDG Item out for physical delivery	0.0%	0			18 226	0.3%	43	2	2	14 829	0.0%	0			94 469	
EDH Arrival at collection point for pick-up	0.0%	0			6 991	0.3%	22	2	2	6 390	0.0%	0			2 469	
EDX Import terminated	0.0%	0			49	0.0%	0			44	0.0%	0			77	
EMH Attempted/unsuccessful (physical) delivery	0.0%	0			8 427	0.3%	23	2	2	7 774	0.0%	0			8 806	
EMI Final delivery	91.6%	18 180	3	2.01	19 851	96.6%	16 021	4	2.01	16 584	1.3%	1 451	3	2.01	108 738	

2. Details

The details section provides examples of multiple events, to assist with possible investigations on anomalies.

Information is grouped by origin EDI address and event.

Details are provided only when the percentage of multiple events is >= 5%.

When details are provided, only the first 10 items are listed, in order to limit the report length.

For each item, two or more lines are provided, depending on the number of times the event was sent.

On each line, the following information is displayed:

- Item ID: the item identifier
- Date-time: the event date-time
- EMSEVT line: the full segment extracted from the EMSEVT message; for data privacy reasons, person names are replaced with strings of '*'.

Here is an extract showing the aspect of the details section:

Details:

