Explanatory notes: EMSEVT compliance report

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Introduction

The EMSEVT compliance report indicates, for EMSEVT messages sent, the level of compliance with the M40 messaging standard (EMSEVT V3.0).

The report is not based on all EDI exchanges during the month. Instead, they are based on a sample consisting of 7 consecutive days in the month. The sampling period is displayed in the top right corner of the first page.

Report organization

All message compliance reports are organized the same way: the report is divided vertically in the following parts, from more general to more detailed:

1. Overview of messages sent
2. Repartition of events for letters
3. Summary of compliance issues per sending EDI address
4. Error details (first 10 occurrences of each type of error)

An anonymized sample EMSEVT compliance report is shown below (first page only):

EMSEVT compliance - October 2022

Operator

Compliance summary:

total events	evt with issues	percent compliant
436 457	56	99.99

Overview of messages sent

Message	EDI address	Total message	Total events
EMSEVT	001	5 113	38 478
EMSEVT	330	3 195	21 630
EMSEVT	350	11 412	376 349

Repartition of events for letters:

	registered	insured	tracked	small packets	other
Percentage:	**90%**	**0%**	**10%**	**0%**	**0%**
No. events:	340 163	0	36 184	0	2

1. Summary of issues per message type and sending EDI address

Totals for all EDI addresses

Description		counted in dashboard?	No. events	% events
52	Inbound event: message sent to wrong partner	☑	4	0.0%
55	Item mail class incompatible with origin EDI address	☑	3	0.0%
58	Event office: invalid code (CL 108)	☑	25	0.0%
65	Zero item weight	☑	24	0.0%
71	[orig-country] provided unnecessarily	☐	422 815	96.9%
77	Gross-weight with useless zero decimal	☐	36 500	8.4%
81	Domestic ID provided for EMD or EMF	☐	56	0.0%
82	EMH/EMI: invalid signatory name	☐	6 187	1.4%

EMSEVT ▮▮▮ - EMS (class E)

Description		counted in dashboard?	No. events	% events
55	Item mail class incompatible with origin EDI address	☑	3	0.0%
58	Event office: invalid code (CL 108)	☑	6	0.0%
71	[orig-country] provided unnecessarily	☐	32 428	84.3%
77	Gross-weight with useless zero decimal	☐	15 355	39.9%
81	Domestic ID provided for EMD or EMF	☐	17	0.0%
82	EMH/EMI: invalid signatory name	☐	18	0.0%

Each part is detailed hereafter:

Overview of messages sent

This section provides the total of messages sent by the operator during the sampling period and used for the report, per sending EDI address.

Important note: The total number of messages displayed corresponds to the total for the days of sampling, not the month total.

the total number of events is also displayed. For example, if an EMSEVT message contains 3 EMA events, 2 EMB events and 1 EMC event, then this is counted as 1 message and 6 events.

Repartition of events for letters

The table indicates the repartition of events sent from the xx350 EDI address (letter mail) per letter product, as follows:

- If the service indicator of an item starts with 'R', then the product is 'registered'
- If the service indicator starts with 'V', then the product is 'insured'
- If the service indicator starts with 'L', then the product is 'tracked'
- If the service indicator starts with 'U', then the product is 'untracked packet'
- If the service indicator starts with another letter, then the product is 'other'

The service indicator is a 2 character code as defined in S10 and in UPU code list 124. In an S10 item identifier, the service indicator is in the first two positions.

The table provides two rows: percentages in the first row, number of events in the second row. The total number of events for all products matches the count provided in table 'Overview of messages sent' for address xx350.

Summary of compliance issues per message type and sending EDI address

This section provides a summary of compliance issues found, per sending EDI address of the operator.

The list of compliance checks performed, with the resulting error description is provided in annex.

For each issue, this sub-section provides an issue number (created in order to have a reference), the corresponding description, indication (yes/no) if this error is counted in the dashboard, the number of events with this issue, and the overall percentage of events with the issue (=number in the previous column divided by the total number of events shown in section 'Overview of messages sent).

Error details (first 10 occurrences of each type)

For each line in the previous section, a sample of detailed errors is provided. A maximum of 10 occurrences per type is reported, in order to keep the report relatively short.

For each error type, the following information is displayed: the error number, description, error category and indication (yes/no) if this error is counted in the dashboard.

For each error, the exact reference message is provided: sending EDI address, destination EDI address, intref (interchange reference number), mesref (message reference number).

The second line provides additional information. The specific EDIFACT line containing the error is provided (if relevant), as well as the problematic value (if relevant), with possibly additional relevant information.

With this information, the objective is to assist in resolving the issue.

Annex: list of errors and explanations

Error code	Counted in dash-board?	Description	Explanations
50	Yes	Message structure error	This error is raised when the structure of the message is not compliant with the standard. This usually happens when segments are in the wrong order or a segment/group of segments is missing.
51	Yes	Outbound event: message sent to wrong partner	For outbound events other than EMC (events EMA, EMB, EXA, EXB, EXC and EXD), based on the destination country indicated in the event (data element *destination-country*), this error is raised when the EDI destination address does not start with *destination-country* and when the EDI origin address does not start with *destination-country*.
52	Yes	Inbound event: message sent to wrong partner	For inbound events other than EMD (events EDA, EDB, EME, EDC, EMF, EDD, EDE, EMG, EDF, EDG, EDH, EDX, EMH and EMI), this error is raised when the EDI destination address does not start with the last two characters of the item ID and when the EDI origin address does not start with the last two characters of the item ID, if the item ID has 13 characters.
53	Yes	Wrong event date	For any event, when the event date is not a valid date, is older than the previous month or after the current month, based on the report month.
54	Yes	Invalid S10	For outbound events (EMA, EMB, EMC, EXA, EXB, EXC, EXD and EXX), when the item ID follows the S10 pattern (13 characters, with 2 characters, 9 digits and 2 characters) but: - the service indicator is not valid (UPU code list 124) - or the value of the check digit is incorrect.
55	Yes	Item mail class incompatible with origin EDI address	When the item identifier is an S10 13 character identifier with a valid service indicator and the corresponding mail class is not compatible with the origin EDI address The check is performed based on the S10 service indicator EDI addresses accept the following mail classes: xx001: mail class E (EMS) xx350: mail class U (letters) xx301, xx310 and xx330: mail class C (parcels)

Error code	Counted in dash-board?	Description	Explanations
56	Yes	EMA/EMC: invalid item mail subclass (CL 117)	For events EMA and EMC, when data element *item-subclass* contains a value that is not in the subset of UPU code list 117 that applies to mail items. Please check valid values in column 'Item level' of code list 117. Note: values CB, CN and UN are marked as allowed but not recommended in CL 117. They are considered valid in the compliance report. In other words, their usage does not raise an error.
57	Yes	EMA, EMC, EMD: invalid item handling class	For events EMA, EMC and EMD, when data element *item-handling-class* is provided and is not 'R' or 'V' (subset of UPU code list 107).
58	Yes	Event office: invalid code (CL 108)	When the event location is an IMPC (this is the case for events EMB, EXD, EMC, EMJ, EMK, EMD, EDA, EDB, EME, EDC and EMG) and the code provided is not a valid IMPC code (not in UPU code list 108).
59	Yes	EMB: missing event OE for parcels or EMS	For event EMB, when the item is a parcel (origin EDI address of type xx330) or EMS (origin EDI address of type xx001) and data element *outward-OE* is not provided. Note: this data element is not mandatory in M40-7, but UPU Regulations make it mandatory for parcels. Similarly, EMS rules make it mandatory for EMS.
60	Yes	Invalid reason code (UPU CL 112)	For an event providing a reason code referring to UPU code list 112, when the code in the message is not present in the code list. Note: CL 112 includes several codes valid in EMSEVT V1 but not in EMSEVT V3. These codes are: 11, 15, 19, 20, 23, 25, 26, 27 and 99. If any of these codes is used, the error is generated.
61	Yes	Reason code valid but not allowed for this event (UPU ref list 112b)	When a valid reason code is provided but is not compatible for the event used. This is based on UPU reference list 112b providing a matrix of allowed combinations event code – reason code.
62	Yes	Invalid action code (UPU CL 113)	For an event providing an action code referring to UPU code list 113, when the code in the message is not present in UPU code list 113. Note: CL 113 includes several codes valid in EMSEVT V1 but not in EMSEVT V3. These codes are: D and J. If any of these codes is used, the error is generated.
63	Yes	Wrong deliv location code (CL 199)	For events EMA and EMC, when data element *item-delivery-location-type* is provided and contains a value that is not in UPU code list 199. For event EMD, when data element *item-delivery-type* is provided and contains a value that is not in UPU code list 199

Error code	Counted in dash-board?	Description	Explanations
64	Yes	Other code lists: invalid code used	For data elements referring to a UPU code list other than those reported separately (CL 107, CL 108, CL 112, CL 113, CL 117 and CL 199), this error is raised when a code used is not in the code list. The error information indicates the code list concerned.
65	Yes	Invalid item weight	When the item-weight data element contains 0 or an invalid weight (negative or not with format <9999.999>, i.e. max four digits plus three decimals)
66	Yes	Data element exceeds maximum length	When any provided data element exceeds the maximum length defined in the standard. The error details indicate the event and data element concerned.
67	Yes	EMC: invalid despatch number	When data element despatch-number has a length of more than 4 and less than 20 characters.
68	Yes	Lower case characters in item ID	When the item identifier includes at least one character provided in lower case
69	No	[ID-type] provided for S10	When the item ID is a 13-character S10 identifier and field [ID-type] is provided: the [ID-type] is not needed for S10 identifiers. Note: this is not a compliance issue but a case of non-optimization.
70	No	[orig-operator] provided	When field [orig-operator] is provided: this field is not very precisely defined in the standard and is interpretation and usage varies among designated operators. As a result, when this field is provided, it is not useful for the partner post. It is therefore suggested to never provide information in this field. Note: this is not a compliance issue but a case of non-optimization.
71	No	[orig-country] provided unnecessarily	When field [orig-country] is provided and contains the same country code as the last 2 characters of the S10 identifier. Note: this is not a compliance issue but a case of non-optimization.
72	No	Invalid postcode	When the sender or delivery postcode does not contain any digit, or contains only a series of zeroes ('0').
74	No	Item mail subclass, non-recommended value	When the item mail subclass is provided and the value is among non-recommended values CB, CN and UN. (note in UPU code list 117)
75	No	Item net weight provided	When an item net weight is provided: it is recommended to provide weight in the gross-weight field only

Error code	Counted in dash-board?	Description	Explanations
76	No	Zero volume provided	When a volume of 0 is provided
77	No	Gross-weight with useless zero decimal	When the gross weight provided includes unnecessary decimals ('.0')
78	No	Invalid email address	When the sender or addressee email address is provided and does not include a '@'.
79	No	Invalid phone number	When the sender or address phone number is provided and is a series of zeroes.
80	No	Repetition among origin fields	When any two of the three data elements [sender-postcode], [office-of-origin-ID] and [place-of-origin] are provided and are equal. Note: this is not a compliance issue but a case of non-optimization.
81	No	Domestic ID provided for EMD or EMF	When a domestic ID is provided in addition to the S10 ID, for events EMD and EMF. Is the inclusion of the domestic ID in EMSEVT intended? Note: this is not a compliance issue but a possible data quality issue.
82	No	EMH/EMI: invalid signatory name	For events EMH and EMI, when data element signatory-name is provided but contains: - a fully numerical string - or non Latin characters - or static text among pre-defined strings recognized as default values, such as 'SIGNATORY', 'CUSTOMER', etc.