

## Explanatory notes: PREDES compliance

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### Introduction

In the online compliance platform, the PREDES compliance report indicates, for PREDES messages sent, the level of compliance with the M41 UPU messaging standard (PREDES V2.1).

All compliance checks are performed 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 of the report. (it is normally the last 7 days of the month)

### Screen organization

The screen is organized in different blocks of information, with a vertical logic: from more general on top to more detailed in the bottom. The different information blocks are:

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

Each part is detailed below:

#### 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.

#### Summary of compliance issues per 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 messages with at least one occurrence of this issue, and the percentage of these messages (number in the previous column divided by the total number of messages shown in section 'Overview of messages sent').

Note: the percentage given provides a rough indication of the extent of the problem. Depending on the type of issue, an issue may occur multiple times within a single message and this is not reported in the percentage. For example, if, in PREDES, there are 10 receptacles in a dispatch and the same issue affects each of the 10 receptacles, this issue still affects 1 message and is counted as 1 only. But in such a case, the individual issues may all appear in the detailed section (below).

## 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 following information is also provided:

- the identifier of the dispatch associated to the message;
- The specific EDIFACT line containing the error is also provided (if relevant), as well as the problematic value (if relevant), with possibly additional relevant information.

Note: for item level issues, only the first occurrence of the error per message is reported.

## Annex: list of PREDES compliance issues and explanations

Error code	Severity	Counted in dash-board?	Description	Explanations
0	Critical	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.
1	Critical	Yes	Invalid dispatch ID	<p>Error raised when one of the following anomalies is found for the dispatch identifier:</p> <ul style="list-style-type: none"> <li>- the dispatch category, in position 13 of the dispatch ID is not among the allowed values: A, B, C or D</li> <li>- the length of the dispatch ID is not 20</li> <li>- the last 4 characters of the identifier are not all digits</li> <li>- the digit in position 15 is not the last digit of the current year</li> </ul> <p>Note: this check is complemented by the IMPC compliance report, based on the dispatch ID.</p>
2	Critical	Yes	Message sent to wrong partner EDI address	<p>Error raised:</p> <ul style="list-style-type: none"> <li>- when the owner of the destination IMPC of the dispatch is not the owner of the destination EDI address</li> <li>- or when the destination EDI address is not compatible with the dispatch: incompatible location, or incompatible mail class, or EDI address not defined for receiving PREDES</li> </ul> <p>Note: the error is not raised in case the destination IMPC is a military unit belonging to the own post as there may be a special agreement to still send the message to the national post in the destination country in this case.</p>
3	Major	Yes	Invalid dispatch close date-time	When the dispatch closing date-time (data element <i>despatch-closed-date-time</i> ) is not in the month of the report.
4	Major	Yes	Invalid dispatch accounting date	<p>When the dispatch accounting date (data element <i>despatch-accounting-date</i>) is:</p> <ul style="list-style-type: none"> <li>- after the departure date of the first transport segment</li> <li>or</li> <li>- in a past month.</li> </ul>

Error code	Severity	Counted in dashboard?	Description	Explanations
5	Optimization	No	Wrong dispatch previous number	When the data element <i>despatch-previous-serial-no</i> is provided and contains the current dispatch number minus 1: the rule is that this data element should be provided only for the first dispatch of the year or if there is a gap.
6	Minor	Yes	Invalid carrier-code-source	Data element <i>carrier-code-source</i> can take the following values: 3 (IATA), 11, 13, 14 and 16. When a value different from the list above is provided, this error is generated.
7	Minor	Yes	Invalid flight number	When the <i>mode-of-transport</i> is 4 (air), the <i>carrier-code-source</i> is 3 (IATA) and the <i>conveyance-reference</i> has more than 5 characters or has exactly 5 characters and the last one is a digit, this error is raised.  This is when an IATA flight number is expected and the maximum length of an IATA flight number is 4, plus a possible one-character suffix.
8	Minor	Yes	Invalid IATA airline code	When the <i>carrier-code-source</i> is 3 (IATA) and the <i>carrier-code</i> is not a valid IATA airline code.
9	Minor	Yes	Invalid airport/location code	When the origin or destination location of a transport segment is <ul style="list-style-type: none"> <li>- defined as an IATA airport but is not a valid 3-character IATA airport code</li> <li>or</li> <li>- defined as a UN/LOCODE but is not valid 5-character UN/LOCODE (location code)</li> <li>or</li> <li>- provided with an invalid location code source: value other than 3 (IATA) or 6 (UN/LOCODE)</li> </ul>
10	Minor	Yes	Invalid transport date	Applies to the <i>transport-departure-date-time</i> and <i>transport-arrival-date-time</i> .  The error is raised if any of the following cases occurs: <ul style="list-style-type: none"> <li>- The segment is provided but the field is empty</li> <li>- The format is date-time (code 201) but only a date is provided</li> <li>- The format is date (code 101) but a date-time is provided</li> </ul>
11	Major	Yes	Invalid receptacle type (CL 121)	When data element <i>receptacle-type</i> does not contain a value from UPU code list 121, for at least one receptacle in the dispatch.

Error code	Severity	Counted in dashboard?	Description	Explanations
12	Major	Yes	Receptacle with 0 weight	<p>When data element <i>receptacle-weight</i> contains value 0 for at least one receptacle in the dispatch.</p> <p>As this reports the gross weight, it is no possible to have a zero weight. The minimum weight is 0.1 kg.</p>
13	Major	Yes	Invalid receptacle mail subclass (CL 117)	<p>When data element <i>receptacle-sub-class</i> contains a value that is not in UPU code list 117, for at least one receptacle in the dispatch.</p>
14	Minor	Yes	Invalid combination of dispatch and receptacle subclasses (RL 117a)	<p>When the combination of receptacle level subclass and dispatch subclass is not valid, for at least one receptacle in the dispatch.</p> <p>Valid combinations are listed in UPU code list 117a.</p>
15	Major	Yes	Invalid weight	<p>PREDES may include several weights: accounting weight, receptacle gross weight, receptacle net weight, item weight.</p> <p>The issue is raised when one of these weights is negative or has more than 3 decimal places.</p>
16	Optimization	No	Receptacle subclass provided when = dispatch subclass	<p>When data element <i>receptacle-sub-class</i> is provided and is equal to the dispatch subclass (position 14-15 of despatch-ID).</p> <p>This is based on the rule expressed in the definition of <i>receptacle-sub-class</i> in M41-7:  “‘This is included only if it is different from the mail sub-class of the despatch.’”</p>
17	Major	Yes	Invalid format of contents	<p>When an invalid format of content (not in UPU code list 120) is used in the accounting section or the operational section of the messages:</p> <ul style="list-style-type: none"> <li>- Operational part: if data element <i>receptacle-format-of-contents</i> is not valid for at least one receptacle in the dispatch</li> <li>- Accounting part: if data element <i>TDs-by-format-format-indicator</i> is not valid for at least one accounting total.</li> </ul> <p>Note: in the accounting section, format ‘S’ is not allowed and should be replaced with ‘P’.</p>

Error code	Severity	Counted in dashboard?	Description	Explanations
18	Minor	Yes	Invalid non delivery code	<p>When data element <i>item-non-delivery-reason</i> contains a value that is not in UPU code list 112, for at least one identified item in the dispatch.</p> <p>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.</p>
19	Minor	Yes	Invalid/incompatible item level mail subclass	<p>When data element <i>item-subclass</i> contains a value:</p> <ul style="list-style-type: none"> <li>- that is not in the subset of UPU code list 117 that applies to mail items, for at least one identified item in the dispatch</li> <li>- or that is not compatible with the dispatch because it is a different mail class.</li> </ul> <p>Please check valid values in column 'Item level' of code list 117.</p> <p>Note: values CB, CN and UN are considered valid subclasses in this report, although their usage is not recommended in CL 117.</p> <p>The error is reported only for the first item of the message with the issue.</p>
20	Optimization	No	Zero weight item	<p>When data element <i>item-weight</i> contains value 0, for at least one identified item in the dispatch.</p> <p>This refers to section 5.3 of M41-7, rule 9 "Rule for the presence of numbers and weights in conditional fields".</p> <p>The error is reported only for the first item of the message with the issue.</p>
21	Critical	Yes	No accounting section - parcels	<p>When the dispatch is of mail class C (parcels) and no accounting information is provided: no EQD+PWN segment.</p> <p>This refers to section 5.3 of M41-7, rule 8 "Rule for the presence of accounting information".</p>
22	Critical	Yes	No accounting section - letters	<p>When the dispatch is of mail class U (letters), the mail subclass is not UC, UD, UF, UG, UH, UU, UY or UZ, and no accounting information is provided: no EQD+BLK or EQD+DMF or EQD+TDS segment.</p> <p>This refers to section 5.3 of M41-7, rule 8 "Rule for the presence of accounting information".</p>

Error code	Severity	Counted in dashboard?	Description	Explanations
23	Major	Yes	Parcels: totals for col 6 to 9 but no corresponding info at item level	<p>This error is raised when:</p> <ul style="list-style-type: none"> <li>- <i>parcel-bill-column-6-total</i> is provided for the dispatch but <i>parcel-bill-column-6</i> is not provided for any parcel in the dispatch;</li> <li>- or <i>parcel-bill-column-7-total</i> is provided for the dispatch but <i>parcel-bill-column-7</i> is not provided for any parcel in the dispatch;</li> <li>- or <i>parcel-bill-column-8-total</i> is provided for the dispatch but <i>parcel-bill-column-8</i> is not provided for any parcel in the dispatch;</li> <li>- or <i>parcel-bill-column-9-total</i> is provided for the dispatch but <i>parcel-bill-column-9</i> is not provided for any parcel in the dispatch.</li> </ul>
24	Optimization	No	Parcel cols 6 to 9 provided in MOA with value 0 or not numerical	<p>When any of data elements <i>parcel-bill-column-6</i>, <i>parcel-bill-column-7</i>, <i>parcel-bill-column-8</i>, <i>parcel-bill-column-9</i> at parcel level contains value 0 or a non-numerical string, or when any of data elements <i>parcel-bill-column-6-total</i>, <i>parcel-bill-column-7-total</i>, <i>parcel-bill-column-8-total</i>, <i>parcel-bill-column-9-total</i> at dispatch level contains value 0 or a non-numerical string.</p> <p>This refers to section 5.3 of M41-7, rule 9 “Rule for the presence of numbers and weights in conditional fields”.</p>
25	Minor	Yes	Carrier name provided when carrier code provided	In the transport segment (TDT), a rule indicates that the carrier code or the carrier name is provided, but not both. So in case both are provided, this error is raised.
26	Optimization	Yes	Item ID provided incorrectly	<p>For each item listed (segment GID), it is possible to indicate the item-ID-type, from UPU code list 185. It is stated that usage of this attribute has to be bilaterally agreed.</p> <p>Note: for S10 identifiers, using this attribute does not add value.</p> <p>This error is raised when the attribute is used, unless the IB is informed of a bilateral agreement allowing its usage.</p> <p>The error is also raised when an S10 item identifier is provided together with object-type ‘R’, as this is associated to the provision of an enclosed receptacle, not an item.</p> <p>The error is reported only for the first item of the message with the issue.</p>
27	Major	Yes	Receptacle without any identified item in a UR/UX dispatch	Error raised for each receptacle in a UR/UX dispatch when there is no identified item provided in the receptacle.

Error code	Severity	Counted in dashboard?	Description	Explanations
28	Nice-to-have	No	Invalid item handling class	<p>Error raised when the item handling class is provided and is not 'R' or 'V' (handling classes are listed in UPU code list 107).</p> <p>The error is reported only for the first item of the message with the issue.</p>
29	Major	Yes	Item mail class not consistent with dispatch mail class	<p>Error raised when the item mail class (based on the service indicator of S10 identifiers) is not the same as the parent dispatch mail class.</p> <p>For example, if a parcel is in an EMS dispatch, the error is raised.</p> <p>The error is reported only for the first item of the message with the issue.</p>
30	Optimization	No	Item insured value zero provided	<p>Error raised when an insured value of 0 SDR is provided for an item.</p> <p>The error is reported only for the first item of the message with the issue.</p>
31	Optimization	No	Item final destination provided when equal to dispatch destination	<p>Error raised when the item final destination country is provided and is the same as the dispatch destination, for at least one item in the dispatch.</p> <p>Note: the rule is that the item final destination must be provided if and only if it differs from the dispatch destination country.</p> <p>The error is reported only for the first item of the message with the issue.</p>
32	Minor	Yes	Mismatch between item handling class and service indicator	<p>Error raised for items with a valid S10 identifier, when there is a mismatch between the item handling class and the item service indicator for at least one item in the dispatch.</p> <p>There is a mismatch when the handling class is 'R' and the service indicator does not start with 'R', or when the handling class is 'V' and the service indicator does not start with 'C' or 'V'.</p> <p>The error is reported only for the first item of the message with the issue.</p>
33	Major	Yes	Letter format of contents information present in accounting section but not in operational section	<p>Error raised for dispatches of mail class U (letters), when:</p> <ul style="list-style-type: none"> <li>- the accounting section includes format specific weight (at least one segment MEA+WTF),</li> <li>- But in the operation section, at least one receptacle not marked as exempt and with a subclass other than UI (IBRS) and UM (M bags) is listed without any format indication (no FTX+ABN segment).</li> </ul>



Error code	Severity	Counted in dash-board?	Description	Explanations
34	Minor	Yes	Provision of both location code and name in transport details	<p>Error raised when the EDIFACT segment providing a location (LOC segment) as part of transport details includes both a location code and a location name (the standard indicates that one or the other must be provided, but not both).</p> <p>The check is performed both for the departure and arrival locations.</p>
35	Major	Yes	UD/UV dispatches: non zero terminal dues weight	UD and UV dispatches should not contain any mail subject to terminal dues. When the accounting section of PREDES indicates a non-zero weight subject to terminal dues for these dispatches, the error is raised.
36	Major	Yes	UV dispatch: non-returned item	This error is raised when an item in the dispatch is not returned to the destination of the dispatch. Technically, this is raised when the last two characters of the S10 item identifier differ from the first two letters of the destination EDI address.
37	Major	Yes	Receptacle ID not consistent with dispatch ID	This error is raised when a receptacle ID is not consistent with its parent dispatch ID. In other words, this happens when the first 20 characters of the receptacle ID are different from the dispatch ID. This may occur if, for example, the mail subclass provided in the receptacle ID is not the parent dispatch subclass.
38	Major	Yes	Invalid amount	<p>PREDES may contain various amounts, in the accounting section and also in the operational section (amount in columns 6 to 9 of CP 87 for parcels, insured amount).</p> <p>The error is raised if an amount has more than two decimals, is negative, or is not a number.</p>