Adding multiple identical media sizes to IANA registry

Nov. 1st, 2024

Multiple identical sizes for envelopes

Below envelope media sizes combination has identical width and length.

- **C4 and Kaku20 Envelope**   iso_c4_229x324mm
- **C5 and Kaku6 Envelope**   iso_c5_162x229mm
- **C6 and You2 Envelope**   iso_c6_114x162mm
- **Chou3 and YouChou3 Envelope**   jpn_chou3_120x235mm

> Already registered for IANA IPP registry media sizes

Red letter: Both IANA & PWG MSN2.x registry needed
Black letter: Already defined as IANA and PWG MSN2.1 sizes

Our opinion is that both sizes needs to be registered even for the same size, since the printing methods differ.
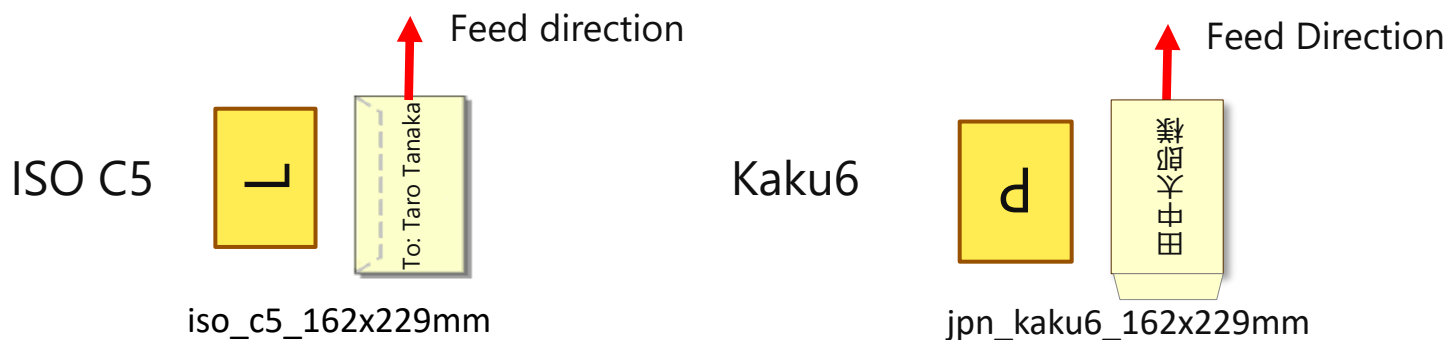
Q1. If there is a reason why the above paper size in red is currently not registered with IANA, please let us know.

Q2. Is there any guideline from IANA regarding the registration of identical media sizes?

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ISO C5 and Kaku 6 Envelope

■**For example, C5 and Kaku6 have the same media size but they have different way of paper position when it comes to printing**

■Different position of envelope flap, feed direction or orientation

Feed direction

Feed Direction

ISO C5

To: Taro Tanaka

iso_c5_162x229mm

Kaku6

様御田中郎太

jpn_kaku6_162x229mm

It is necessary to set different image rotation angles and paper feed orientations depending on which of the above paper is used.
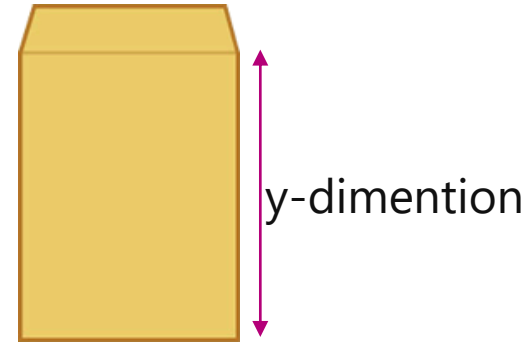
The media-col-database may provide necessary information within media-source-properties attributes for such control of the image output.

Updated on Nov. 1st
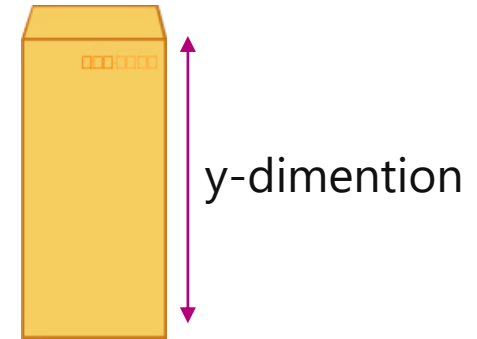
Basic knowledge of Japanese envelope variations

■**Kakugata envelope(Square Type)**

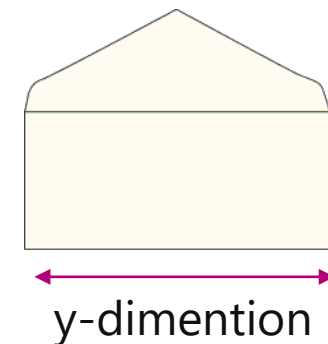■Envelopes where the length is less than twice the width

y-dimention

■**Chou envelope(Long Type)**

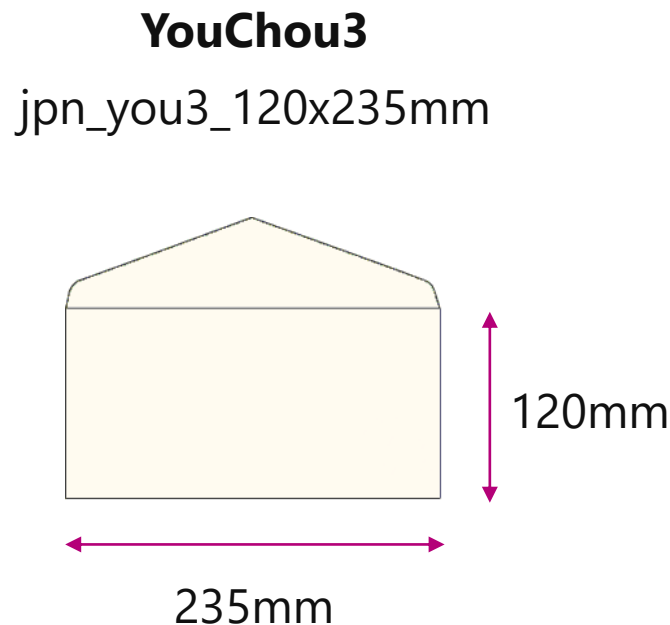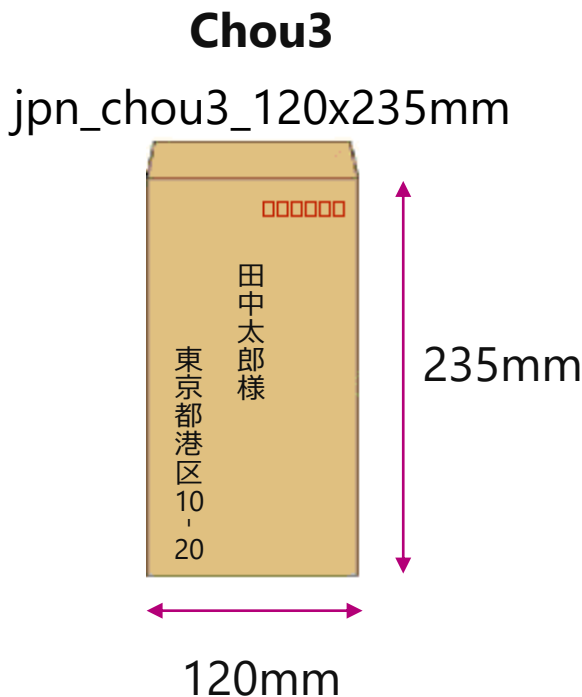■Envelopes where the length is more than twice the width

y-dimention

■**You envelope(Western Type)**

■Envelopes with the opening on the longer side

y-dimention

Chou3 and YouChou3 Envelope

■**Having the identical media size, but correct orientation is critical to user**

Chou3	YouChou3
jpn_chou3_120x235mm	jpn_you3_120x235mm

Chou3

jpn_chou3_120x235mm

□□□□□□

東京都港区10-20　田中太郎様

235mm

120mm

YouChou3

jpn_you3_120x235mm

120mm

235mm

The position of the flap location is different where Chou3 has flap on its short-edge, but YouChou3 has flap on its long-edge.

Japanese language characters can be written both vertically and horizontally. Culturally, Chou envelopes(Long Type) are often written vertically as shown above, so it is very important to print in the correct orientation, e.g. matching the portrait layout with vertically written sentences with Japanese characters from top to bottom. Also, Postal Code has to be printed in red marked box position.

How printer handles envelope sizes

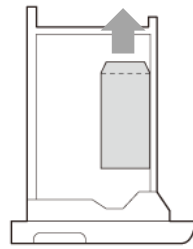■ **How printers handle envelopes for flaps location or feed-direction**

  ■ It depends on printer vendors

  ■ It depends on each printer models, and depends on each input tray

  ■ Because of the cassette size and structure of each tray, the paper direction might be different.

  ■ For example, Canon printer has different feed-direction for Chou3 with different input trays.

    Loading Envelopes - Canon - imageRUNNER ADVANCE C5560i / C5550i / C5540i / C5535i - User's Guide (Product Manual)
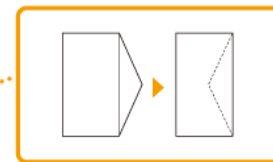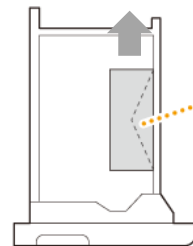
  • **Cassette tray**

    Load the envelopes so that their flaps are on the far side.   Close the flaps, and load the envelopes so that their flaps are on the right side.
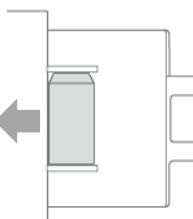

    Pattern A   Pattern D

    Chou3   YouChou3

  • **Multi-purpose tray(or Manual-feed tray)**

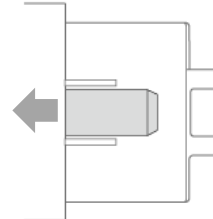   Load the envelopes so that their flaps are on the far side.   Load the envelopes so that their flaps are on the right side.

    Pattern B   Pattern C

    Chou3   Chou3

Methods to distinguish feed-orientation and direction for identical media sizes

■ **IPP Client might be able to distinguish feed-orientation and feed-direction for identical media sizes if values are available in media-col-database**

- ■ If the media-size-name value is not included in the media-col-database response from the printer, it becomes difficult to distinguish identical media sizes.
- ■ JOBEXT2.1 6.9.36 media-col-database defines "media-size-name" as SHOULD which makes it possible for IPP client with more precise control for printing envelope whenever feed-orientation and feed-direction is available.

```
"media-col-database": [
    "{",
    "media-size",
    "{",
    "x-dimension",
    "21000",
    "y-dimension",
    "29700",
    "}",
    "media-size-name",
    "iso_c5_162x229mm",
    "media-bottom-margin",
    "0",
    "media-left-margin",
    "0",
    "media-right-margin",
    "0",
    "media-top-margin",
    "0",
    "media-type",
    "stationery",
    "media-source",
    "by-pass-tray",
    "media-source-properties",
    "{",
    "media-source-feed-direction",
    "short-edge-first",
    "media-source-feed-orientation",
    "3",
    "}",
    "}",
    "{",
```

Not possible to distinguish multiple identical entries just by looking at these dimensions

← If response has the value

For more precise control over printing:

- margins
- feed-direction
- feed-orientation
(Having different values)

6.9.36 media-col-database (1setOf collection)

This REQUIRED attribute lists the set of pre-defined "media-col" collections available in the Printer's media database. This attribute is similar to "media-col-ready" (section 6.9.38) but returns the entire set of pre-defined "media-col" collections known by the Printer instead of just the media loaded in the Printer.

Because the number and size of values of this attribute can be very large, the Printer MUST NOT return this attribute in the response to the Get-Printer-Attributes operation unless the Client explicitly requests it by including the 'media-col-database' value in the "requested-attributes" [STD92] operation attribute.

In order to limit the number and size of values of this attribute, Printers MAY exclude the "media-source" and/or "media-type" member attributes from collection values when all values of the corresponding member attribute are supported when combined with the other member attributes and values. Similarly, the "media-size" member attributes can be expressed as integer or rangeOfInteger values when representing a single media size or a range of media sizes that are supported by the Printer.

A Printer SHOULD include both the "media-size" and "media-size-name" member attributes in collection values representing a fixed media size and MUST NOT include the "media-size-name" member attribute when the "media-size" member attribute contains a range of dimensions.

The "media-size-name" defined in media-col-database