IPP Finishing 2.1: Orientation and Feed Orientation Extensions

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Use Case 3.2.17 Finishing with Finisher Fidelity Restrictions:

“Jane is printing an eight-page brochure booklet. Using software on her Client device, she specifies finishing intent to first impose the pages from her Document onto folded sheets, then staple the sheets along the midline, fold the sheets along the midline, and finally shrink-wrap each booklet. The Client assists Jane with making the appropriate choices given the page orientations of Jane's booklet and the Printer's finishing location limitations and currently configured input sources and page orientations. Jane submits the print request, and the output accurately matches her expectations.”
Printer Capabilities

- A3 size printer
- Has a "stitcher" that uses staples
- Stitcher is fixed in one location, on one side of the output rollers
Printer Description Attributes: media-col-ready

{
  media-size={x-dimension=21000 y-dimension=29700}
  media-source=tray-5
  media-source-properties=
  {
    media-source-feed-direction=long-edge-first
    media-source-feed-orientation=4   # landscape
  }
},
{
  media-size={x-dimension=21000 y-dimension=29700}
  media-source=tray-6
  media-source-properties=
  {
    media-source-feed-direction=short-edge-first
    media-source-feed-orientation=3   # portrait
  }
}
Printer Description Attributes: finishings-col-ready

```plaintext
finishings-col-ready=
{
    finishing-template=staple-top-left
    media-size-name=iso_a4_210x297mm
    media-size={x-dimension=21000 y-dimension=29700}
    orientation-requested=portrait
    feed-orientation=long-edge-first
},
{
    finishing-template=staple-top-right
    media-size-name=iso_a4_210x297mm
    media-size={x-dimension=21000 y-dimension=29700}
    orientation-requested=reverse-landscape
    feed-orientation=long-edge-first
},
{
    finishing-template=staple-top-right
    media-size-name=iso_a4_210x297mm
    media-size={x-dimension=21000 y-dimension=29700}
    orientation-requested=portrait
    feed-orientation=short-edge-first
},
...```
Printer Description Attributes: Others

orientation-requested-supported=portrait,landscape,reverse-landscape
stitching-angle-supported=0,45
stitching-locations-supported=0-42000
stitching-method-supported=wire
stitching-offset-supported=0-2000
stitching-reference-edge-supported=left
Client

Media Size: A4         Media Type: stationery

Job Scenarios:

1. Portrait & Long Edge Feed

   / Aa
   123
   One left 45°

2. Portrait & Short Edge Feed

   / Aa
   123
   One left 45°

3. Landscape & Long Edge Feed

   / Aa
   123
   One left 45°

4. Landscape & Short Edge Feed

   / Aa
   123
   One left 45°
Client: Scenario 1

Job Orientation: Portrait
Media Size: A4
Feed: Short Edge
Staple: Top Left
Media Type: stationery

orientation-requested=portrait
media-col=
{
  media-size={x-dimension=21000 y-dimension=29700}
  media-source=tray-6
}
finishings-col=
{
  finishing-template=staple-top-left
  media-size-name=iso_a4_210x297mm
  media-size={x-dimension=21000 y-dimension=29700}
  stitching=
  {
    stitching-angle=45
    stitching-locations=[1000]
    stitching-offset=1000
    stitching-reference-edge=left
  }
}
Client: Scenario 1

Job Orientation: Portrait

Media Size: A4

Feed: Long Edge

Staple: Top Left

Media Type: stationery

```
orientation-requested=portrait
media-col=
{
  media-size={x-dimension=21000  y-dimension=29700}
  media-source=tray-5
}
finishings-col=
{
  finishing-template=staple-top-left
  media-size-name=iso_a4_210x297mm
  media-size={x-dimension=21000  y-dimension=29700}
  stitching=
  {
    stitching-angle=45
    stitching-locations=[1000]
    stitching-offset=1000
    stitching-reference-edge=left
  }
}
```
Job Template Attributes

orientation-requested-supported=portrait, landscape, reverse-landscape
stitching-angle-supported=0, 45
stitching-locations-supported=0-42000
stitching-method-supported=wire
stitching-offset-supported=0-2000
stitching-reference-edge-supported=left