

IPP Finishing 2.1: Orientation and Feed Orientation Extensions

Smith Kennedy

April 28, 2016



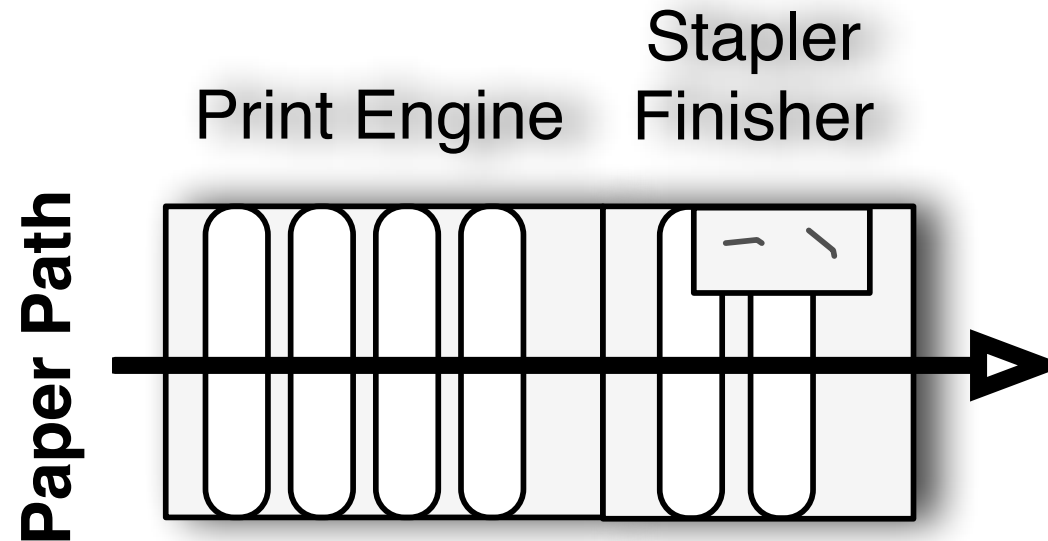
IPP Finishing 2.1: Orientation and Feed Orientation Extensions

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

```
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
},
{
  finishing-template=staple-top-left
  media-size-name=iso_a4_210x297mm
  media-size={x-dimension=21000 y-dimension=29700}
  orientation-requested=landscape
  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

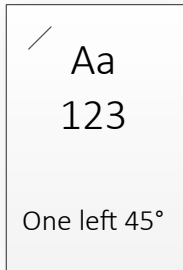
stitching-reference-edge-supported=left

Client

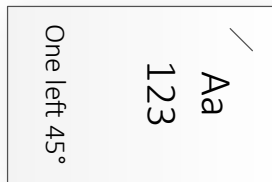
Media Size: A4 Media Type: stationery

Job Scenarios:

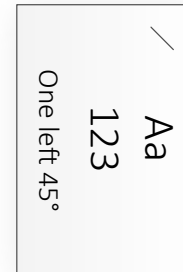
1. Portrait & Long Edge Feed



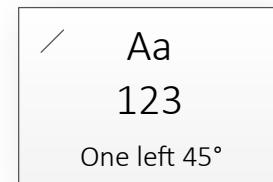
2. Portrait & Short Edge Feed



3. Landscape & Long Edge Feed



4. Landscape & Short Edge Feed



Client: Scenario 1

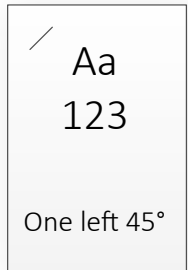
Job Orientation: Portrait

Media Size: A4

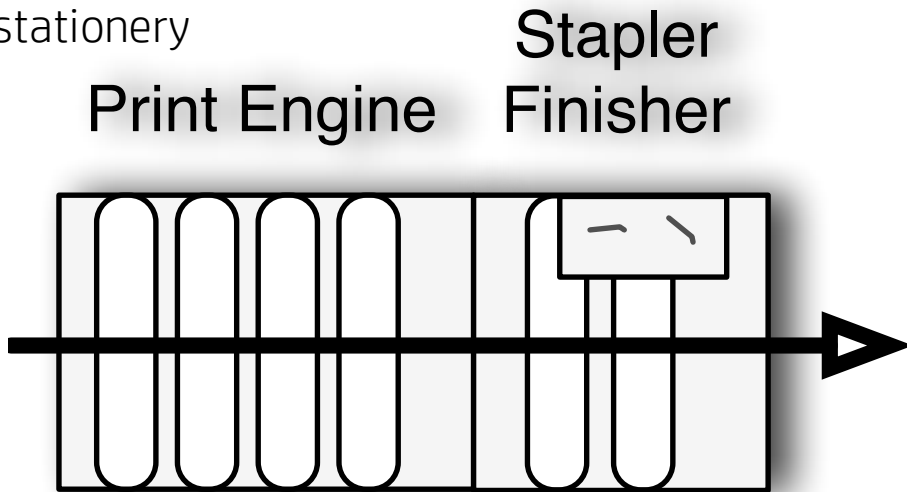
Feed: Short Edge

Staple: Top Left

Media Type: stationery



Paper Path



```
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

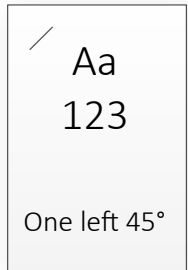
Job Orientation: Portrait

Media Size: A4

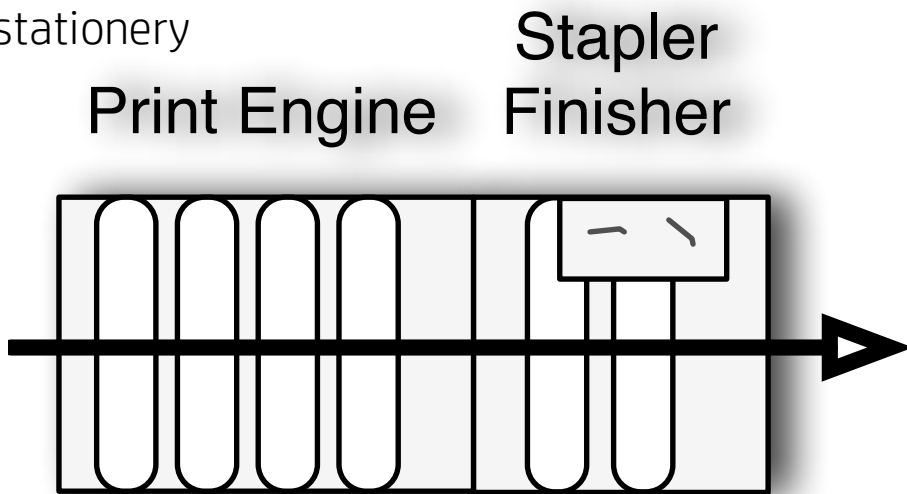
Feed: Long Edge

Staple: Top Left

Media Type: stationery



Paper Path



```
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