PLC 2415

Release notes

ENFOCUS

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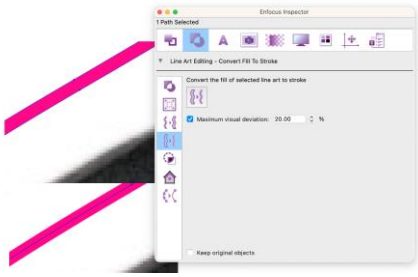
Contents

What's new:

PitStop 24.03

The PLC version 2415 includes the latest PitStop Library Version 24.03. This new version brings exciting features such as "Fill to Stroke" (revert outlined cut lines (shapes) back to the original path), "Simplify line Art" (reduce the number of nodes in a path), "Select pages with bookmarks", "Add bookmarks" or "Remove bookmarks."

Simplify Line Art reduces the number of points along a path.



Fill to Stroke reverts outlined contours back to their initial cut path

Finally, PitStop 24.03 fixes several bugs. For more details, refer to the PitStop Pro 24.03 Release Notes on enfocus.com: https://www.enfocus.com/en/pitstop-pro/new-features

Note that the PitStop Library Container allows to use Action Lists and Preflight Profiles. However, PitStop Pro or PitStop Server are required to create those elements.

Dynamic workers' allocation improvement

The /changeWorkersCount method was introduced in the PLC version 2409 to let you change the number of workers in a PLC instance. There was a limitation that we improved in version 2415. Indeed, previously you could "reduce" the number of workers, but only idle workers would be closed. Therefore, while you may request to reduce the workers count to a certain value, the PLC may close less workers than requested if the number of idle workers isn't equal or more than the defined number of reduced workers to be closed.

We have now improved this behavior to warrant that the exact count of workers is found when you execute the request. However, as some workers may be busy, it may take some time before workers are closed. Rather than waiting for completion, the request returns an immediate 202 response code. You can use the /alive endpoint later on to check that the number of workers has effectively been changed.

Note however that if you only have 1 worker running, setting the count to 0 would simply fail as the main worker is never closed. By contrast, increasing workers will always be done immediately.

Jobs in sequence

While the purpose of the PLC is to maximize productivity dispatching jobs between instances and queues (if you use them), some customers required that both /job and /pdf2image requests are run next to each other. The idea is to be sure no delay is found between those two requests for the same job as new incoming requests could squeeze in.

This is why we introduce /preflightthenimage, a new endpoint where you can combine both requests for PDF preflight/edit and image generation.

To use this method, define your JSON Body request like this example below:


```
{
 "inputFileURL": "url",
 "outputFixedFileURL": "url",
 "reference": "string",
 "profileURL": "url",
 "actionListURLs": "[url]",
 "variableSetURL": "url",
 "jobTicketURL": "url",
 "extraFontsFolderURL": "[url]",
 "jobStatusURL": "http://localhost:8080/result",
 "allowFixes": true,
 "reportProgress": true,
 "progressMinFraction": 0.05,
 "reportURLs": {
  "JSON": "string",
  "XML": "string",
  "PDF": "string"
 },
 "reportTemplate": {
  "configFileURL": "string",
  "templateFileURL": "string"
 },
 "reportLanguage": "enUS",
 "maxItemsPerCategory": 100,
 "maxNumOccurrencesPerItem": 100,
 "colorManagement": {
  "images": {
```

```
    "sourceProfiles": {
      "profileGray": {
        "url": "presigned url of Generic Enfocus gray.icm"
      },
      "profileRGB": {
        "url": "presigned url of Generic Enfocus RGB.icm"
      },
      "profileCMYK": {
        "url": "presigned url of Generic Enfocus CMYK.icm"
      },
      "profileLabPath": {
        "url": "presigned url of Generic Enfocus Lab.icm"
      },
      "intentOverrides": false
    },
    "targetProfiles": {
      "profileGray": {
        "url": "presigned url of Generic Enfocus gray.icm"
      },
      "profileRGB": {
        "url": "presigned url of Generic Enfocus RGB.icm"
      },
      "profileCMYK": {
        "url": "presigned url of Generic Enfocus CMYK.icm"
      },
      "profileLabPath": {
        "url": "presigned url of Generic Enfocus Lab.icm"
      },
      "intentOverrides": false
    },
    "renderingIntent": "objectDefined"
  },
  "blackPointCompensation": false
},
"flattening": {
  "rasterToVectorRatio": 100,
  "lineArtAndTextResolution": 1200,
  "gradientAndMeshResolution": 300,
  "textToOutlines": false,
  "strokesToOutlines": false,
  "clipComplexRegions": false,
  "preserveOverprint": true,
  "blendingColorSpace": {
    "path": "url",
    "name": "string"
  },
  "removeICCProfile": true,
  "recompressImages": {
    "colorImage": {
      "format": "JPEG",
      "quality": "4bit"
    },
    "grayscaleImage": {
      "format": "JPEG",
      "quality": "4bit"
    },
    "oneBitImage": {
      "format": "CCITT Group 3"
    },
    "asciiFilter": ""
  }
},
"restrictingActionListURL": "url",
"imageProperties": {
  "type": "JPEG",
  "qualityJPEG": "Medium",
  "progressiveJPEG": false,
  "interlacedPNG": false,
  "colorSpace": "DeviceRGB",
```

```
    "backgroundColor": [
      0,
      100,
      50
    ]
  },
  "embedICCProfile": false,
  "pageRange": "1-5",
  "includeEmptyPages": false,
  "exportOption": "Composite",
  "renderArea": {
    "rectangle": {
      "minX": 5.00008,
      "minY": 4.00008,
      "maxX": 10.00008,
      "maxY": 8.00008
    },
    "pageBox": "TrimBox"
  },
  "imageResolution": 72,
  "imageSize": {
    "width": 300,
    "height": 300
  },
  "antiAliasing": false,
  "output": {
    "targetLocation": "url"
  }
}
```


To avoid conflicts, we introduce a new property:


```
{
  "output": {
    "preflightedFileURL": "url",
     "renderededFileURL":"url"
  }
```


But you can keep on using the output.targetLocation for /pdf2image and outputFixedFileURL for /job

Vulnerabilities

To maintain our highest standards in terms of quality, we fixed the following vulnerabilities:

VulnerablePackage	Severity	Description
PackageName: libc6 Version: 2.38 PackageManager: OS FilePath: OS	High	A heap-based buffer overflow was found in the __vsyslog_internal function of the glibc library. This function is called by the syslog and vsyslog functions. This issue occurs when the openlog function was not called, or called with the ident argument set to NULL, and the program name (the basename of argv[0]) is bigger than 1024 bytes, resulting in an application crash or local privilege escalation. This issue affects glibc 2.36 and newer.
PackageName: libc6 Version: 2.38 PackageManager: OS FilePath: OS	High	An off-by-one heap-based buffer overflow was found in the __vsyslog_internal function of the glibc library. This function is called by the syslog and vsyslog

		functions. This issue occurs when these functions are called with a message bigger than INT_MAX bytes, leading to an incorrect calculation of the buffer size to store the message, resulting in an application crash. This issue affects glibc 2.37 and newer.
PackageName: libc6 Version: 2.38 PackageManager: OS FilePath: OS	Medium	An integer overflow was found in the __vsyslog_internal function of the glibc library. This function is called by the syslog and vsyslog functions. This issue occurs when these functions are called with a very long message, leading to an incorrect calculation of the buffer size to store the message, resulting in undefined behavior. This issue affects glibc 2.37 and newer.
PackageName: libssl3 Version: 3.0.10 PackageManager: OS FilePath: OS	Informational	As a security improvement, OpenSSL will now return deterministic random bytes instead of an error when detecting wrong padding in PKCS#1 v1.5 RSA to prevent its use in possible Bleichenbacher timing attacks.
PackageName: login Version: 4.13+dfsg1 PackageManager: OS FilePath: OS	Medium	A flaw was found in shadow-utils. When asking for a new password, shadow-utils asks the password twice. If the password fails on the second attempt, shadow-utils fails in cleaning the buffer used to store the first entry. This may allow an attacker with enough access to retrieve the password from the memory.
PackageName: openssl Version: 3.0.10 PackageManager: OS FilePath: OS	Informational	As a security improvement, OpenSSL will now return deterministic random bytes instead of an error when detecting wrong padding in PKCS#1 v1.5 RSA to prevent its use in possible Bleichenbacher timing attacks.

Enriched documentation

To ease integration, we keep enriching our documentation. Here are the additions that you can find with the 2415 documentation:

- A global explanation of the PitStop Preflight and Editing technologies.
- Several examples for running different requests and ensure you are fully functional with the PLC.
- Demo files to run examples.
- Troubleshooting section with all error codes listed.

Known issues

- changeWorkersCount – increase workers fails restarting previously closed workers. Will be fixed in release 2421
- A vulnerability