Automatic Printing Service

Purchase Orders

Requirements

Document Version 2.0

11/20/2017

Revisions

Version	Primary Author(s)	Description of Version	Date
1.0	Erik Gabbard	Initial Draft	11/20/2017
2.0	Erik Gabbard	Updated to include RabbitMQ and additional details	11/27/2017

Contents

Introduction

Department:

Business Owner:

Ticket Number:

Due Date:

Purpose

We have need of a service that will monitor a network share and all subfolders for newly created PDF files because the current automatic printing process cannot be made to work with MFP machines and will be altered to deliver the files to a network share. When a new PDF is dropped into the specified folder, this service will print to a specified printer, currently a Konica BizHub. The service will need to print to a specific user box on the BizHub where the document will be stored until a user manually selects the box to print the purchase orders.

Requirements

- RabbitMQ/Erlang installed on a server that is accessible by the third party software.
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Assumptions

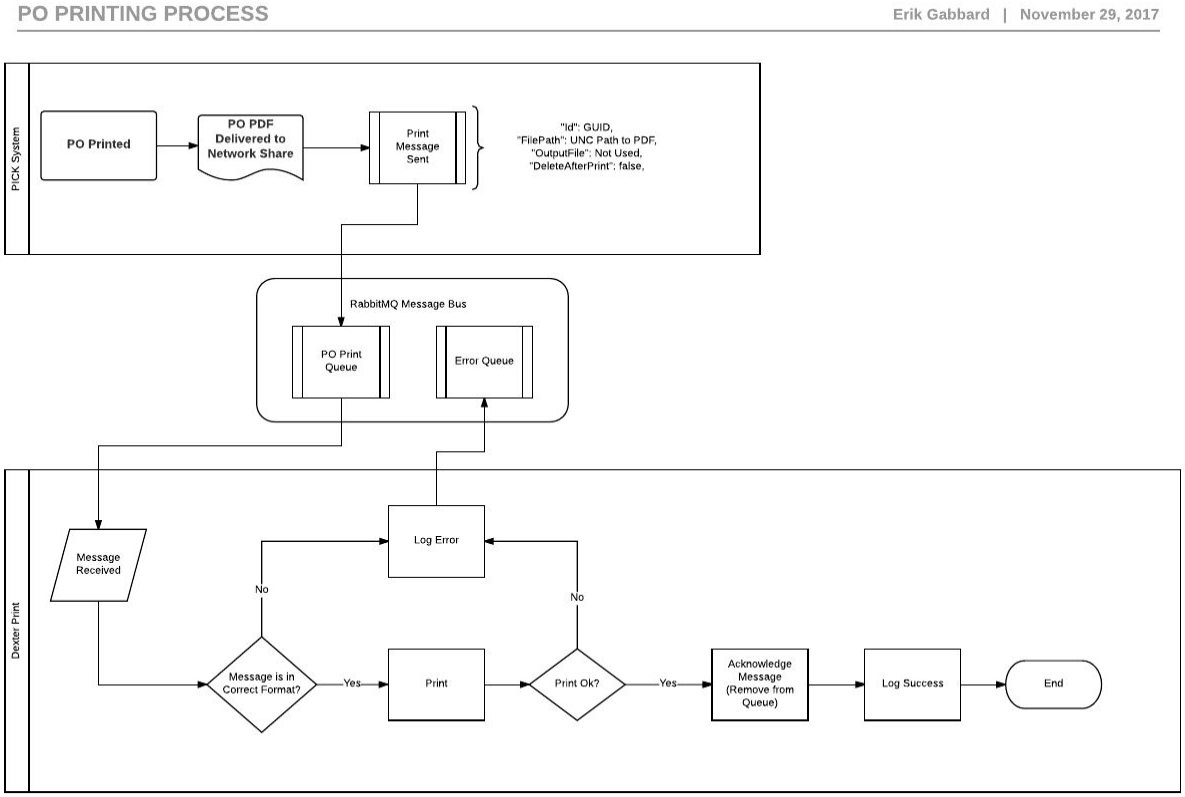
- The service will be installed on a Windows machine with the BizHub print driver installed.
- A specific printer configuration will need to be setup to print to the purchase order user box. There are two possible ways to make the configuration:
    - Configure the printer properties to select the purchase order box by default. (preferred)
    - Attempt to set the user box through code before sending the PDF to the printer. (This may not be possible)
- Third party Java software can be modified to publish a message to the RabbitMQ message bus.
    - https://www.rabbitmq.com/api-guide.html

Current Printing Process

- Purchase order sent to existing 3rd party maintained software
- Existing software sends purchase order to printer

New Printing Process

- Purchase order sent to existing 3rd party maintained software
- Existing software delivers document (PDF) to network share
- Existing software sends message to RabbitMQ print queue to signal there is a PO to process
    - Message contains the UNC path to where the file was delivered.
- Printing Service receives message from RabbitMQ print queue.
- Document is sent to Purchase Order user box on BizHub MFP.
- Service logs last file sent to printer and timestamp.
- User selects box and prints all POs in the box.



Logging

Any errors should be logged and delivered to ?? every ? days/hours.

A weekly summary should be created and delivered to ??

Sample Data

- Print queue message JSON format:

```
{
        "Id": "886c9e0f-c7f0-4e71-b67c-a31c07c7073c",
        "FilePath": "\\Network Share\PO\test.pdf",
        "OutputFile": "\\Sample Output\testfile_0.pdf",
        "DeleteAfterPrint": false
}
```

  - **Id**: GUID that will be used to uniquely identify each message.
  - **FilePath**: UNC path indicating where the PO was delivered.
  - **OutputFile** (optional): UNC path indicating where to place the printed output if printing to file.
  - **DeleteAfterPrint**: Flag indicating whether to delete the PO after it has been sent to the printer.

Test Plan

- Initial testing will be done by manually placing a file in the network share and publishing a message to the RabbitMQ print queue.
    - Does the service send the file to the printer without error?
    - Does the file arrive in the purchase order user box on the BizHub?
- Purchase order sent through 3rd party maintained software
    - Same test as above

Approval

Version	Approved By	Description of Version	Date