

QR Read and Route



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1 Preface

This guide provides the details on how to use the QR Read and route workflow

About This Guide

This guide is divided into following primary sections:

1. Introduction

This section lays the foundation for understanding the workflow specification

2. Cloud Service Connection

This section describes how to do service Coordination with external cloud Services like Box, Dropbox, Google Drive, OneDrive for Business, SharePoint Online, RICOH Content Manager

3. Configuring Default Values

This section contains step-by-step instructions on how to configure default settings related to QR Read and Route Application in User Site

4. Operation of QR Read and Route Application

This section contains step-by-step instructions on how to operate QR Read and Route application on MFP Operation panel

5. Limitations

Product Limitations

6. Appendix

This section contains additional reference materials

Note: The operation panel screen shot images and User Site images provided in this document are for illustrative purposes only. These images may not reflect the exact image you experience on your multi-functional printer (MFP device).

2 Introduction

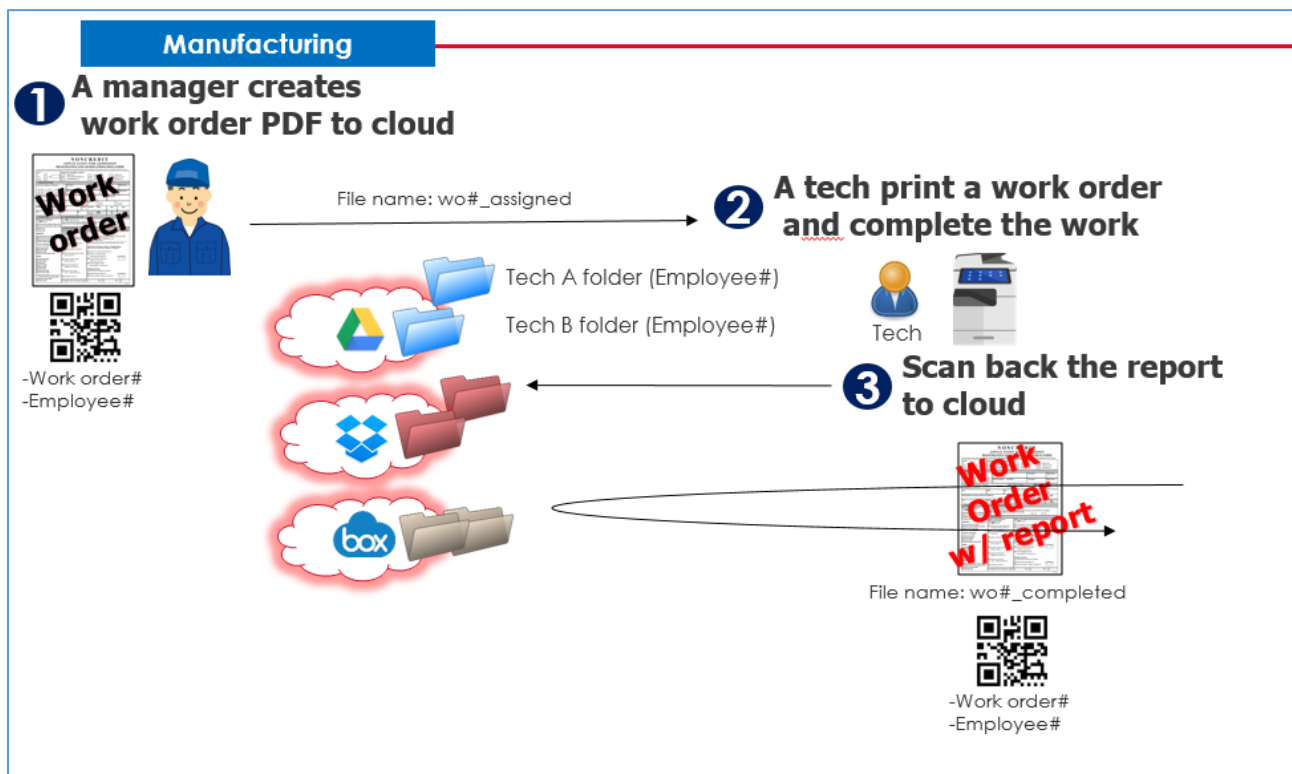
What is QR Read and Route workflow?

QR Read and Route is a workflow application developed on Ricoh Smart Integration Platform.

A typical use case for this workflow is displayed here:

This use case is related to manufacturing. Manager creates a Work Order, which also has a QR Code or Datamatrix Code. QR Code/Datamatrix code has Work Order number and Employee number. Employee then prints this workorder, after completing the workorder, he or she completes filling the work order. Then Employee scans the document using Smart QR Code Scan and Route application

Workflow uploads the document to cloud service of choice (Box, Dropbox, Google Drive, OneDrive for Business or SharePoint online) into the folder named Employee number. Also, filename is set as Workorder#_completed.



Note: Document with QR Code is generated by Customer's line of business application. Also make sure the data in QR Code matches the QR Code data format mentioned in the next page.

Workflow Specification

Folder	Folder Browse and select root folder
Bar Code Type	QR Code Datamatrix
Bar Code Data Format	Employee Number:Work Order Number Example: 12345:72828
OCR	Off, PDF, PDFA, WORD, EXCEL Default: Off
OCR Language	English, French, Spanish, Portuguese Brazilian
File Name	File Name is created using the Formula entered in the user Site. Default File Name Formula: _[workorder_number] & "_completed" Workorder_number is from QR Code.

Default values can be configured for Folder, Bar Code Type, OCR, File Name Formula and Scan Settings

3 Cloud Service Connection

What is Cloud Service Connection?

Before using QR Read and Route, user need to establish connection (authentication) with Cloud service of choice. As of now following Cloud Services are supported.

1. Box
2. Dropbox
3. Google
4. OneDrive for Business
5. SharePoint online
6. RICOH Content Manager

For each Cloud Service there is a separate QR Read and Route application available On MFP Operation Panel.

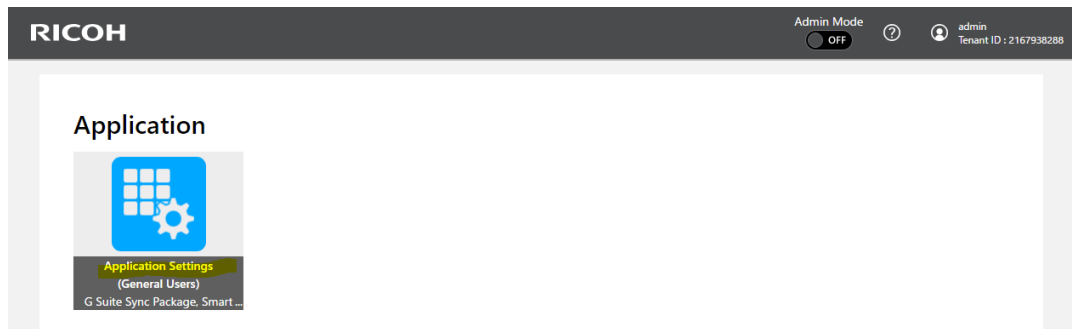
Refer to Smart Integration Cloud Service Coordination User Guide for step-by-step instructions.

4 Configuring default Values

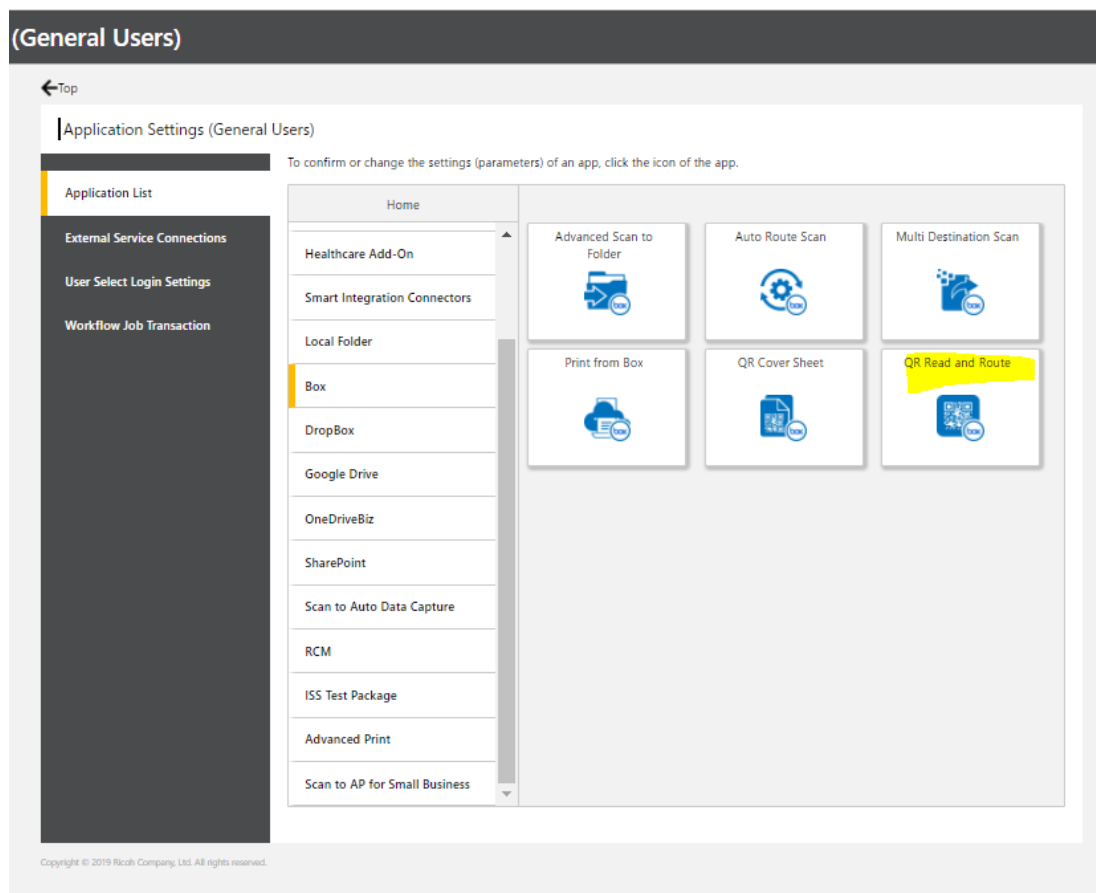
Smart Integration User Configuration Site URL

<https://na.accounts.ricoh.com/portal/login.html>

To configure QR Read and Route, it is necessary to login to workplace, if you are an admin, turn off 'Admin Mode', use the user mode to configure application settings.



Click on 'Set Personal application settings'



Click on 'Smart QR Read and Route'. This will display a page where all necessary parameters can be configured.

(General Users)

← Application List

QR Read and Route Cancel Save

* Mandatory field

Service Settings

Service

Folder * [All Files](#)

[Open External Service Connections](#)

Folder - Missing/Bad QR Code Workflow * [All Files](#)

[Open External Service Connections](#)

Common Settings

Default Screen for Folder Browsing

Default Layout for Folder Browse

Default Parameter Settings

Bar Code Type

OCR

File Name Formula * Check

OCR Language

Default Scan Settings

Scan Color Mode

Original Sides

Document Orientation

Scan Resolution

Document Size

Manual Density

Scan Method

Settings available for Smart QR Read and Route

Bar Code Type

Default Parameter Settings

Bar Code Type

Bar Code Types supported: QR Code and Datamatrix

Selecting Default Root Folders

QR Read and Route

Cancel Save

* Mandatory field

Service Settings

Service Box

Folder * Select Folder All Files

[Open External Service Connections](#)

Folder - Missing/Bad QR Code Workflow * Select Folder All Files

[Open External Service Connections](#)

Click on Select Folder to set default root folder for Scanned documents.

Root Folders

Label	Description
Folder	Root folder for Successfully scanned & processed documents
Folder – Missing/Bad QR Code Workflow	Root folder for a document, which contains invalid data format in QR code/Datamatrix. Failed document will be stored under ' temp ' directory under selected root folder.

File Name Formula

File Name Formula *

_[workorder_number] & "_completed"

Check

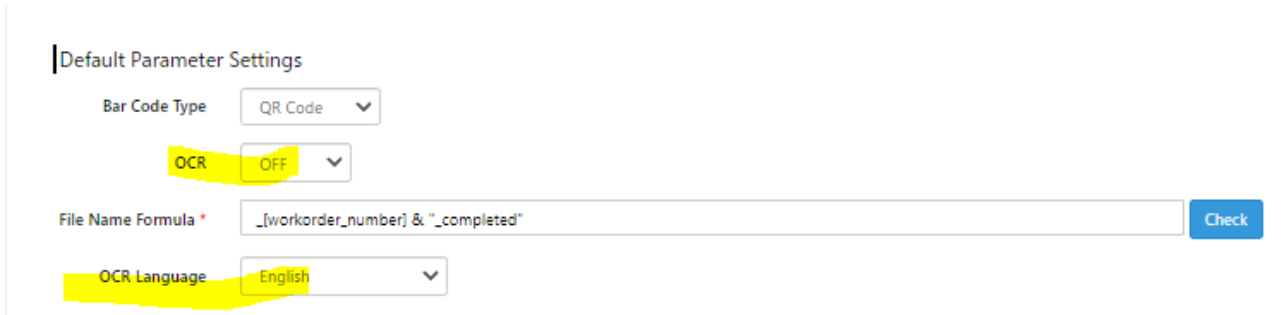
Default Formula:

_[workorder_number] & "completed"

Note: Refer to Appendix for Functions related to formula. Click on 'Check' button to validate the formula.

OCR & OCR Language

Default value for OCR and OCR Language can be configured.

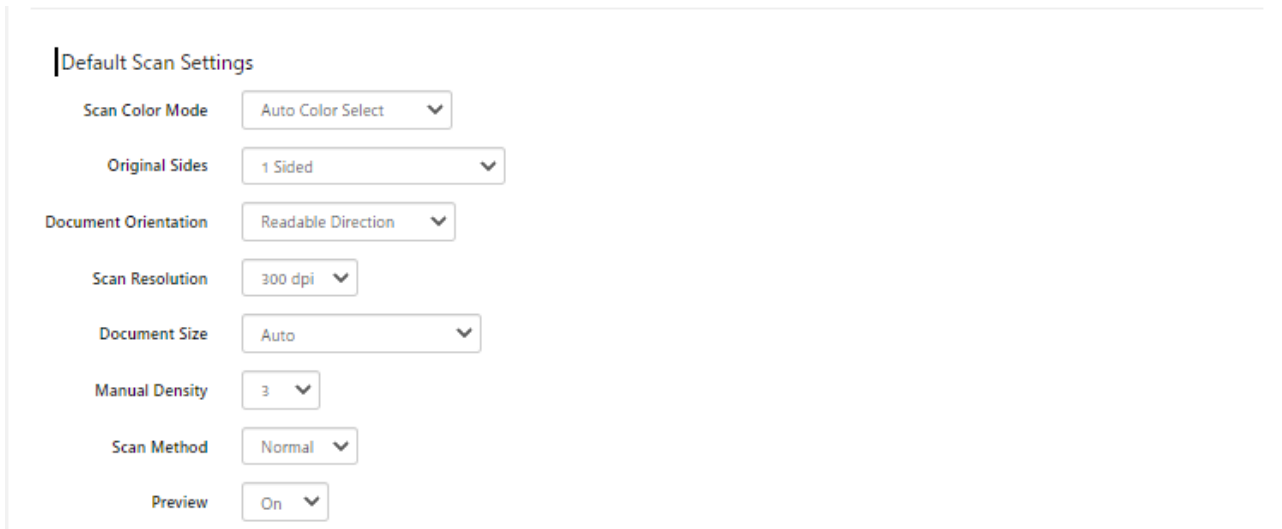


The screenshot shows the 'Default Parameter Settings' form. It includes a 'Bar Code Type' dropdown set to 'QR Code', an 'OCR' dropdown set to 'OFF', a 'File Name Formula' text field containing '[_workorder_number] & "_completed"' with a 'Check' button, and an 'OCR Language' dropdown set to 'English'. The 'OCR' and 'OCR Language' labels and their respective dropdowns are highlighted in yellow.

Default Parameter Settings	
Bar Code Type	QR Code
OCR	OFF
File Name Formula *	[_workorder_number] & "_completed"
OCR Language	English

Scan Settings

Default Scan settings can be configured here



The screenshot shows the 'Default Scan Settings' form. It includes dropdowns for 'Scan Color Mode' (Auto Color Select), 'Original Sides' (1 Sided), 'Document Orientation' (Readable Direction), 'Scan Resolution' (300 dpi), 'Document Size' (Auto), 'Manual Density' (3), 'Scan Method' (Normal), and a 'Preview' dropdown (On).

Default Scan Settings	
Scan Color Mode	Auto Color Select
Original Sides	1 Sided
Document Orientation	Readable Direction
Scan Resolution	300 dpi
Document Size	Auto
Manual Density	3
Scan Method	Normal
Preview	On

Note: For a better QR Code/Datamatrix recognition, set the Manual Density to 3

5 Operation of QR Read and Route Application

Smart Integration MFP BrowserNX URL

<https://www.na.smart-integration.ricoh.com/si-apps/pub/index.html>

Ricoh Smart Integration Initial Login

Above URL is available as Bookmark ICON on MFP. Very first time, administrator need to login to the site either using Tenant ID, User ID and Password or Email address and password.

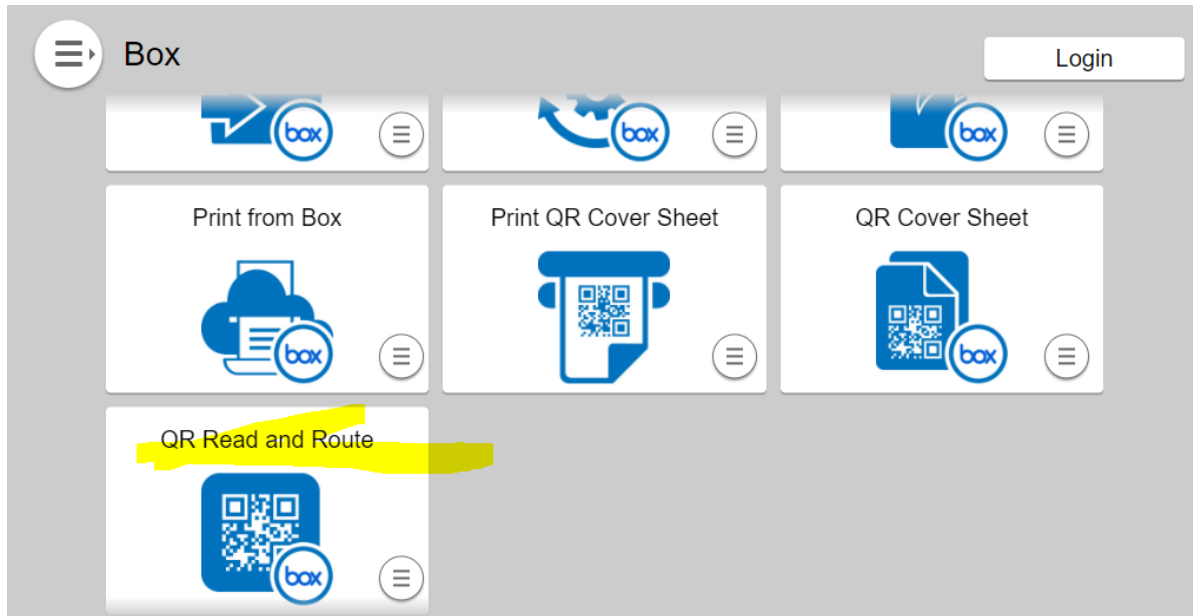
Option 1: Login with Tenant ID

The screenshot shows the login interface for Ricoh Smart Integration. At the top, there is a back arrow icon and the text "Login to RICOH Smart Integration". Below this, a dropdown menu is set to "Login with Tenant ID". The form consists of three input fields: "Tenant ID", "User ID", and "Password". At the bottom of the form is a large blue button labeled "Login".

Option 2: Login with Email Address

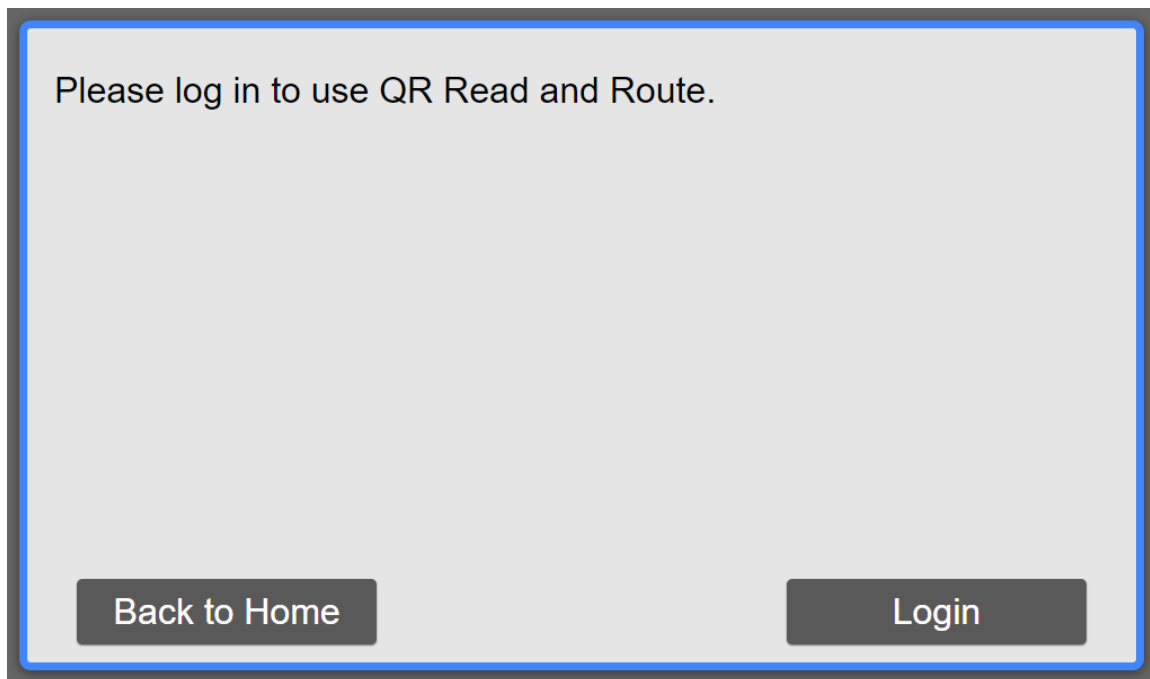
The screenshot shows the login interface for Ricoh Smart Integration. At the top, there is a back arrow icon and the text "Login to RICOH Smart Integration". Below this, a dropdown menu is set to "Login with Email Address". The form consists of two input fields: "Email Address" and "Password". The "Email Address" field contains the text "user@gmail.com". At the bottom of the form is a large blue button labeled "Login".

After administrator login subscribed application will be displayed



Select 'QR Read and Route' application.

End User is requested to Login. Press 'Login' Button to Login.



Users need to login to the site either using Tenant ID, User ID and Password or Email address and password.

Option 1: Login with Tenant ID

The screenshot shows a login interface with a grey background. At the top left is a back arrow icon. To its right is the title 'Login to RICOH Smart Integration'. Below the title is a dropdown menu with the text 'Login with Tenant ID'. Underneath the dropdown are three input fields stacked vertically: 'Tenant ID', 'User ID', and 'Password'. At the bottom of the form is a wide, light blue button labeled 'Login'.

Option 2: Login with Email Address

The screenshot shows a login interface with a grey background. At the top left is a back arrow icon. To its right is the title 'Login to RICOH Smart Integration'. Below the title is a dropdown menu with the text 'Login with Email Address'. Underneath the dropdown are two input fields stacked vertically: 'Email Address' and 'Password'. The 'Email Address' field contains the text 'user' followed by '@gmail.com', which is highlighted with an orange border. At the bottom of the form is a wide, light blue button labeled 'Login'.

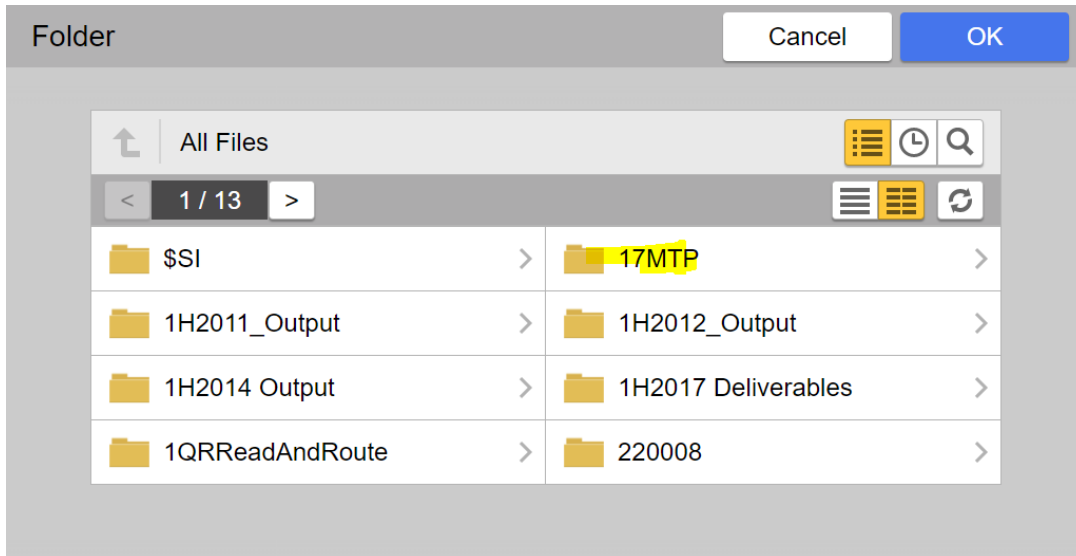
After successful user login 'QR Read and Route' Application Screen is displayed

Following Settings are available:

- A. Folder [Root Folder for Scanned Documents, a sub folder under the root folder is created based on the data in QR Code]
- B. Barcode Type: QR Code, Datamatrix
- C. OCR [Off, PDF, PDF/A, WORD, EXCEL]
- D. OCR Language [English, French, Spanish, Portuguese Brazilian]

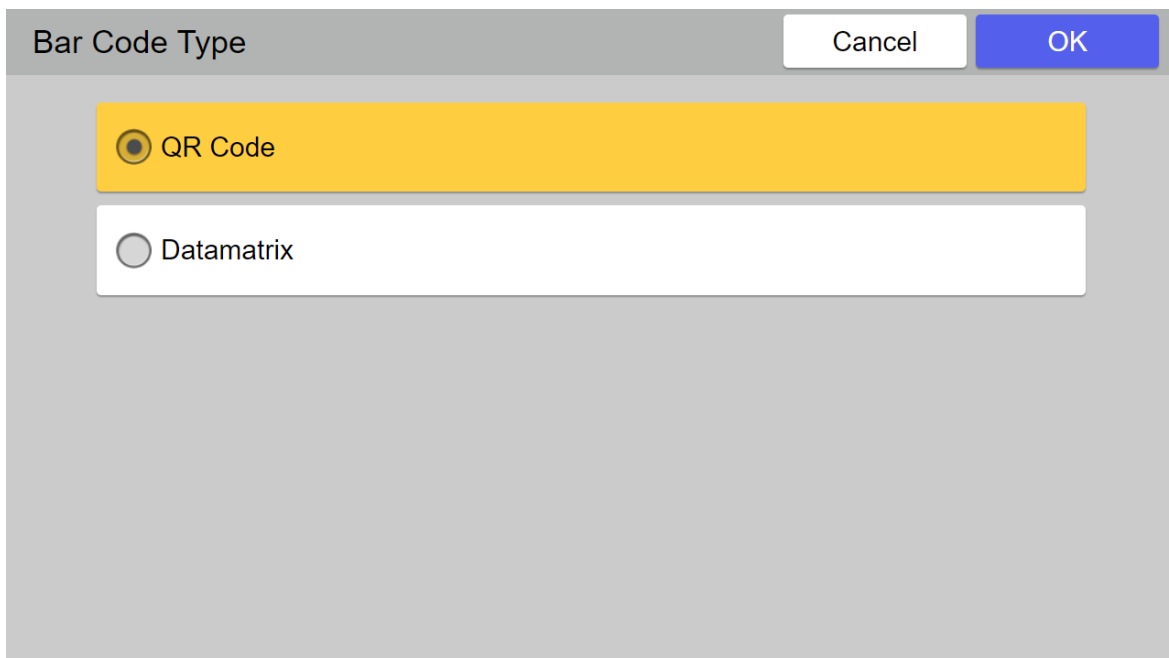
Folder

Touch on 'All files' to open folder browsing dialog and then select desired folder



Bar Code Type

Touching on Bar Code Type, selection field displays available Bar Code Options



Select the desired Barcode type which is available on the document to be scanned.

OCR

← QR Read and Route Jayasimha Nuggehalli Logout Job log

* Mandatory field.

Folder * All Files

Bar Code Type * QR Code

OCR * OFF

OCR Language * English

Auto Colo...
1 Sided
Readable ...
300 dpi

Scan Settings

Start

Touch on OCR to select available options

OCR Cancel OK

☒ OFF

☐ PDF

☐ PDFA

☐ WORD

☐ EXCEL

OCR Language

← QR Read and Route Jayasimha Nuggehalli Logout Job log

* Mandatory field.

Folder * All Files

Bar Code Type * QR Code

OCR * OFF

OCR Language * English

Auto Colo...
1 Sided
Readable ...
300 dpi
Scan Settings

Start

Touch on OCR Language to select available options

OCR Language Cancel OK

☒ English

☐ French

☐ Spanish

☐ Portuguese Brazilian

Scan Settings

← QR Read and Route Jayasimha Nuggehalli Logout Job log

* Mandatory field.

Folder * All Files

Bar Code Type * QR Code

OCR * OFF

OCR Language * English

Auto Colo...
1 Sided
Readable ...
300 dpi

Scan Settings

Start

Touch on 'Scan Settings' to display Scan Settings Screen

← Scan Settings

Scan Color Mode
Auto Color Select

Original Sides
1 Sided

Document Orientation
Readable Direction

Scan Resolution
300 dpi

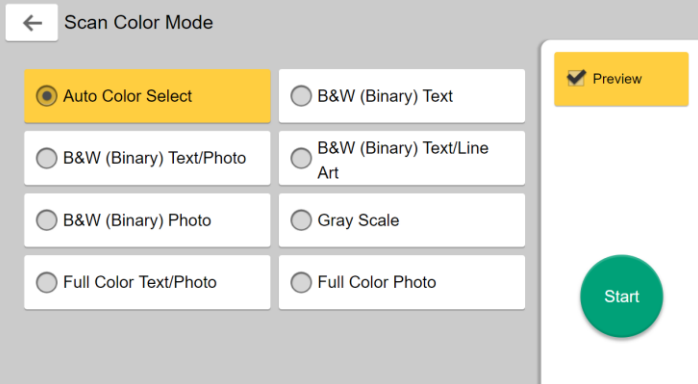
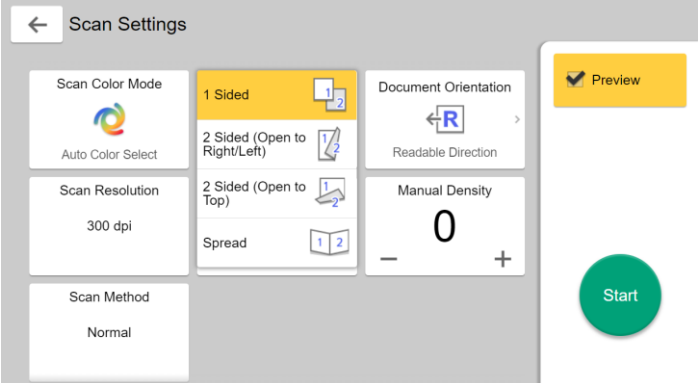
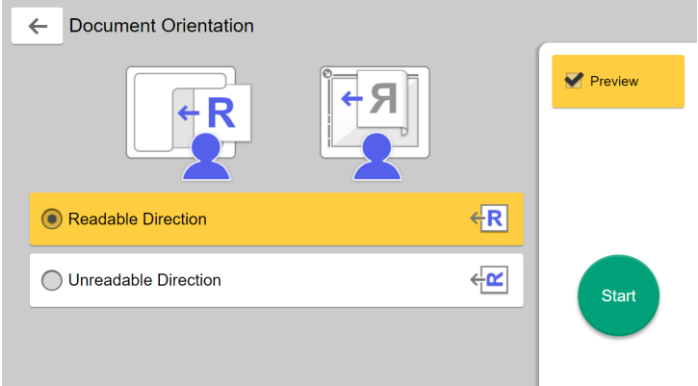
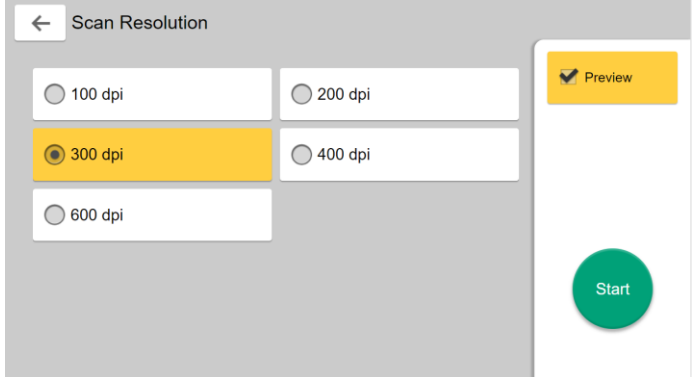
Document Size
Auto

Manual Density
0

Scan Method
Normal

Preview

Start

Scan Settings	Available Options
Scan Color mode	 <p>← Scan Color Mode</p> <p> <input checked="" type="radio"/> Auto Color Select <input type="radio"/> B&W (Binary) Text </p> <p> <input type="radio"/> B&W (Binary) Text/Photo <input type="radio"/> B&W (Binary) Text/Line Art </p> <p> <input type="radio"/> B&W (Binary) Photo <input type="radio"/> Gray Scale </p> <p> <input type="radio"/> Full Color Text/Photo <input type="radio"/> Full Color Photo </p> <p>Preview</p> <p>Start</p>
Original Sides	 <p>← Scan Settings</p> <p> Scan Color Mode: Auto Color Select </p> <p> Scan Resolution: 300 dpi </p> <p> Scan Method: Normal </p> <p> 1 Sided 2 Sided (Open to Right/Left) 2 Sided (Open to Top) Spread </p> <p> Document Orientation: Readable Direction </p> <p> Manual Density: 0 </p> <p>Preview</p> <p>Start</p>
Document Orientation	 <p>← Document Orientation</p> <p> <input checked="" type="radio"/> Readable Direction <input type="radio"/> Unreadable Direction </p> <p>Preview</p> <p>Start</p>
Scan Resolution	 <p>← Scan Resolution</p> <p> <input type="radio"/> 100 dpi <input type="radio"/> 200 dpi <input checked="" type="radio"/> 300 dpi <input type="radio"/> 400 dpi <input type="radio"/> 600 dpi </p> <p>Preview</p> <p>Start</p>

Document size	<div><div><div>← Document Size</div><div><div><input checked="" type="radio"/> Auto</div><div><input type="radio"/> Mixed</div></div><div><div><input type="radio"/> A3 (Horizontal)</div><div><input type="radio"/> JIS B4 (Horizontal)</div></div><div><div><input type="radio"/> A4</div><div><input type="radio"/> A4 (Horizontal)</div></div><div><div><input type="radio"/> JIS B5</div><div><input type="radio"/> JIS B5 (Horizontal)</div></div><div><div><input type="radio"/> A5</div><div><input type="radio"/> A5 (Horizontal)</div></div></div><div><div>✓ Preview</div><div>Start</div></div></div> <div><div>← Document Size</div><div><div><input type="radio"/> A5</div><div><input type="radio"/> A5 (Horizontal)</div></div><div><div><input type="radio"/> 11 x 17 (Horizontal)</div><div><input type="radio"/> Legal (Horizontal)</div></div><div><div><input type="radio"/> 8 1/2 x 13 (Horizontal)</div><div><input type="radio"/> Letter</div></div><div><div><input type="radio"/> Letter (Horizontal)</div><div><input type="radio"/> Invoice (Half Letter Size)</div></div><div><div><input type="radio"/> Invoice (Horizontal)</div><div></div></div></div> <div><div>✓ Preview</div><div>Start</div></div>
---------------	---

6 SharePoint QR Read and Route

Note: Box, Dropbox, Google Drive, OneDrive for Business services, have a root folder. So, if user does not select folder, document gets scanned to root folder or default folder set in User Site. In the case of SharePoint, it is necessary to Select a Site and Library/Folder under the site, by browsing.

Touch on '(unnamed Folder)

The first level listed here are sites. Document cannot be uploaded to Site; users need to select a Library/folder under a site. If users select a site, following message is displayed.

QR Read and Route Jayasimha Nuggehalli Logout Job log

* Mandatory field.
 ! This folder cannot be selected.

Folder * ACT Team Site ...

Bar Code Type * QR Code ...

OCR * OFF ...

OCR Language * English ...

Auto Colo...
 1 Sided
 Readable ...
 300 dpi
 Scan Settings

Start

Please select a Folder listed under a site.

Folder Cancel OK

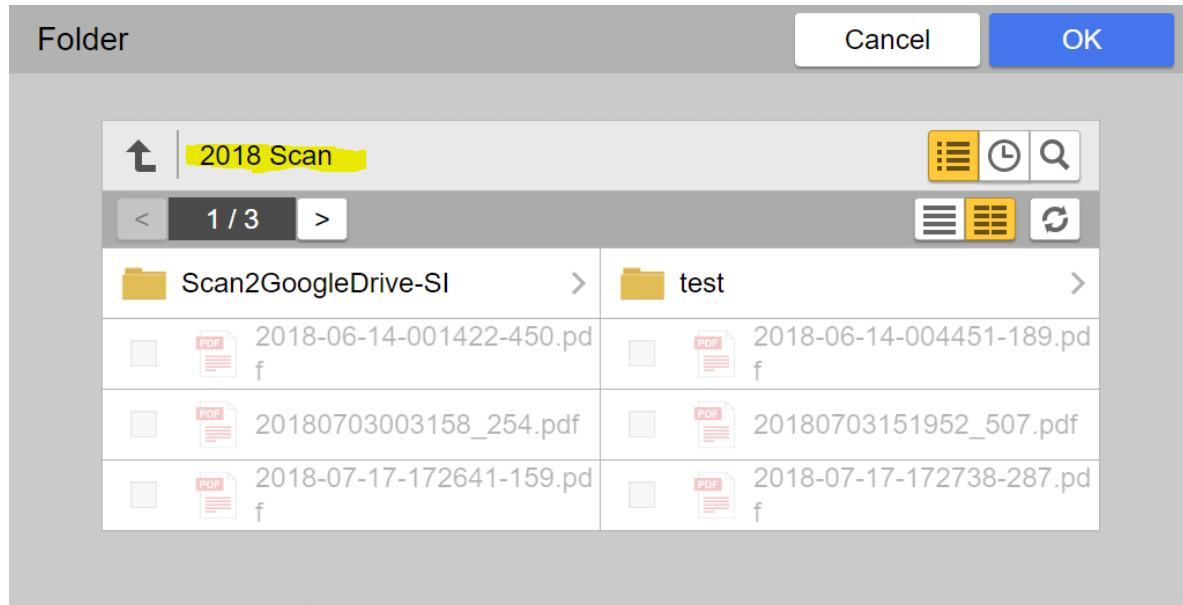
! This folder cannot be selected.

ACT Team Site

< 1 / 3 >

2018 Scan	>	fpdatasources	>
Reporting Templates	>	Shared Documents	>
Utilities	>	Varun	>
ACT Blog	>	ACT Group Work Site	>

Touch on one of the folders, then touch on 'OK'

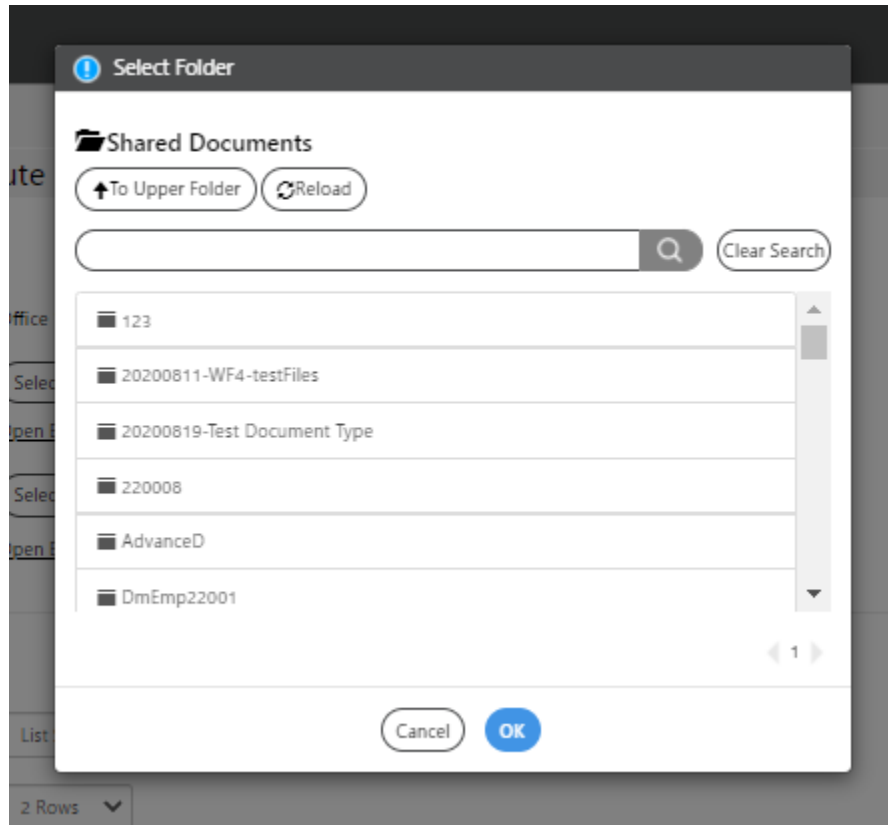


Configuring Default Error Folders in User Site

Since there is no root folder in SharePoint, it is mandatory to configure the Folders for documents, when they fail process due to invalid QR code data format or Missing/Bad QR Code. This is done in User Configuration Site.

<https://www.na.smart-integration.ricoh.com/>

Click on 'Select Folder' to open Folder Browsing Dialog. Click on Site and then a desired folder and Click 'OK' to select folder.



Once Configured, Selected folder is displayed.

QR Read and Route

Cancel Save

* Mandatory field

Service Settings

Service Office 365

Folder * Select Folder (Unnamed folder)

[Open External Service Connections](#)

Folder - Missing/Bad QR Code Workflow * Select Folder 2018 Scan

[Open External Service Connections](#)

7 RICOH Content Manager QR Read and Route

Note:

1. Box, Dropbox, Google Drive, OneDrive for Business services, have a root folder. So, if user does not select folder, document gets scanned to root folder or default folder set in User Site. In the case of Ricoh Content Manager, it is necessary to Select a Cabinet first by browsing.
2. RICOH Content Manager Supports Indexing feature, User can select a Document Type and also set index values, based on what is configured in RICOH Content Manager

QR Read and Route Jayasimha Nuggehalli Logout Job log

* Mandatory field.
! This folder cannot be selected.

Folder * (Unnamed folder) ...

Bar Code Type * QR Code ...

OCR * OFF ...

OCR Language * English ...

Auto Colo...
1 Sided
Readable ...
300 dpi

Scan Settings

Start

Touch on '(unnamed Folder)

Folder Cancel OK

(Unnamed folder)

< 1 / 1 >

Cab2018Test	>	Jay's Cabinet	>
My Cabinet jay	>	Test	>
Test No permission	>	Test Shared Cabinet	>

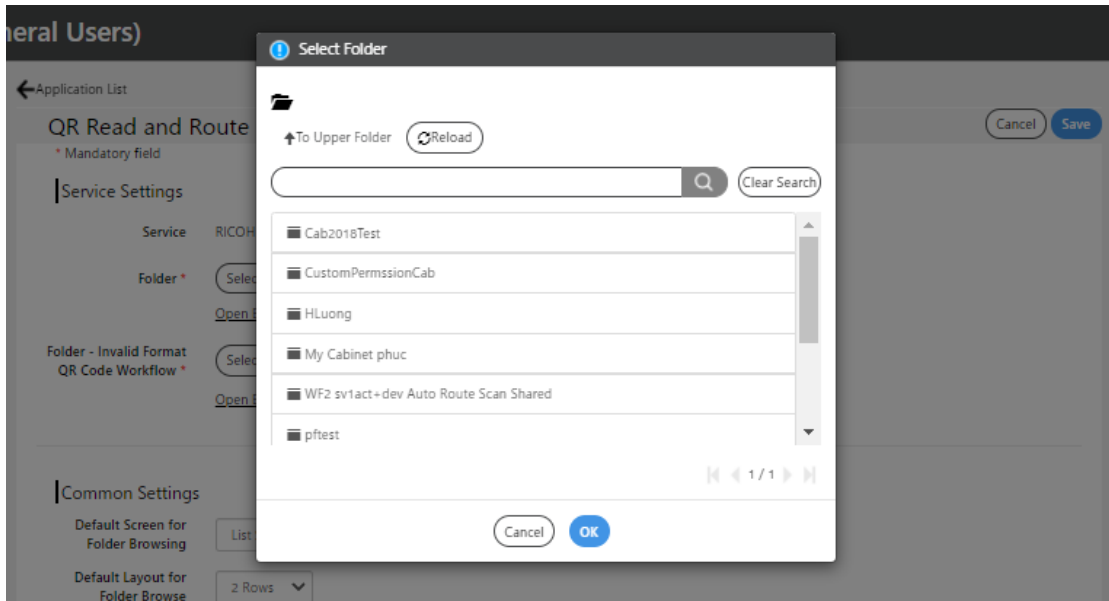
The first level listed here are Cabinets. Users need to select Cabinet or a folder under Cabinet. Please touch on 'Cabinet' then touch on 'OK'.

Configuring Default Error Folders in User Site

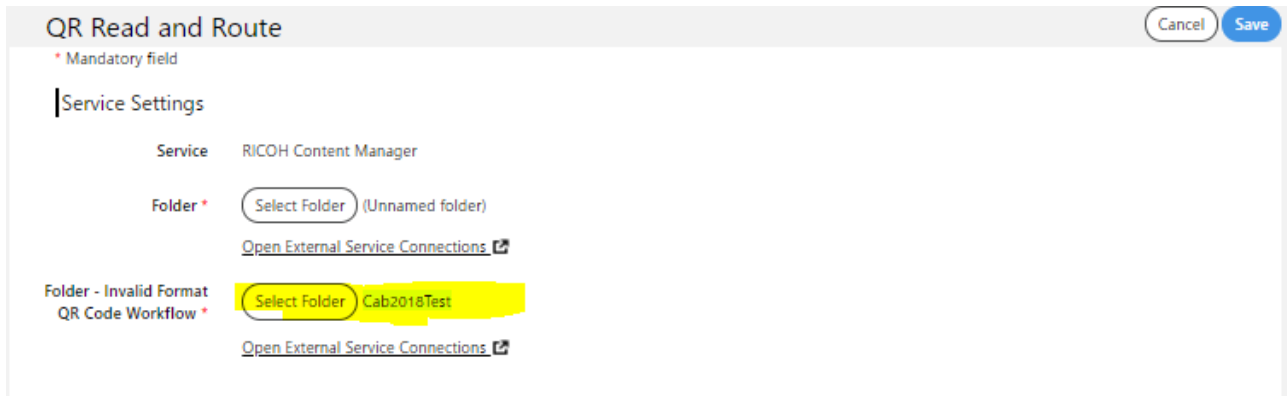
Since there is no root folder in RICOH Content Manager, it is mandatory to configure the Folders for documents, when they fail process due to invalid QR code data format or Missing/Bad QR Code. This is done in User Configuration Site.

<https://www.na.smart-integration.ricoh.com/site/home>

Click on 'Select Folder' to open Folder Browsing Dialog. Click on Site and then a desired folder and Click 'OK' to select folder.



Once Configured, Selected folder is displayed.



RICOH Content Manager Indexing

Document Type and Indexing settings are available in RICOH Content Manager. Administrator of RCM will configure Document Types and associated indexing values.

QR Cover Read and Route displays available Document Type and associated indexing values. Users can select Document Type and indexing values before scanning.

QR Read and Route Jayasimha Nuggehalli Logout Job log

Bar Code Type * QR Code

OCR * OFF

OCR Language * English

Document Type * Document

Indexing

Auto Colo...
1 Sided
Readable ...
300 dpi
Scan Settings

Start

Touch on 'Document Type' this will display available Document Types

Document Type Cancel OK

☒ Document

☐ ACT Documents

☐ ACT test

☐ Businesscard

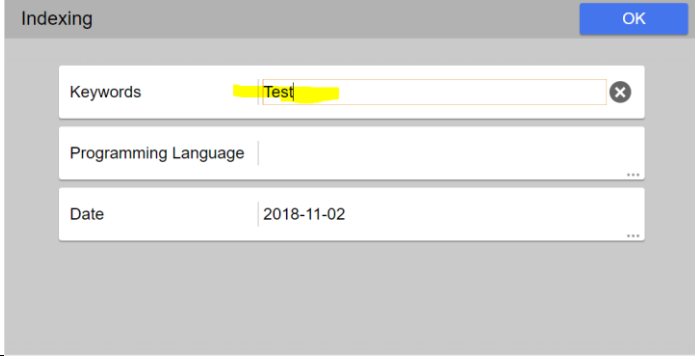
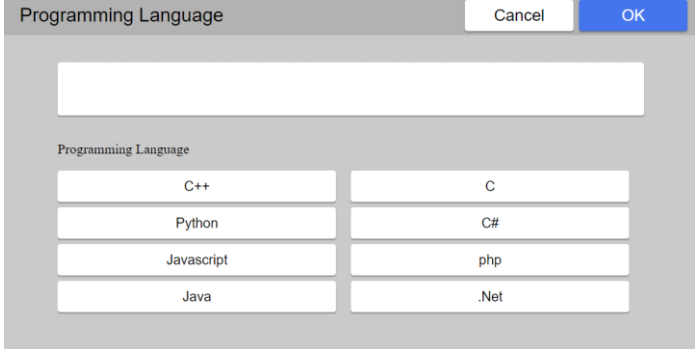
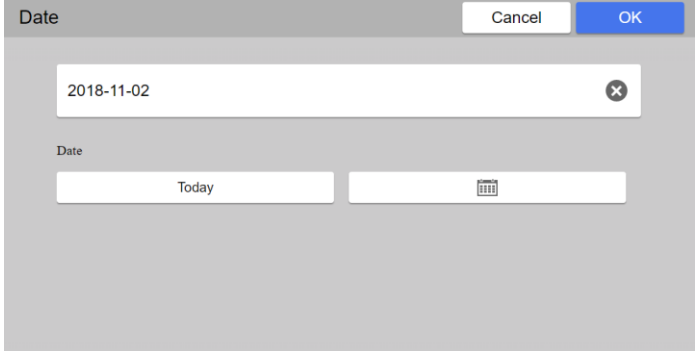
☐ Country

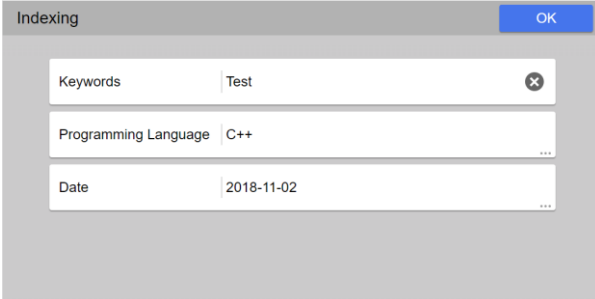
Select desired 'Document Type'

Touch on 'indexing' this will display indexing values related to selected 'Document Type'

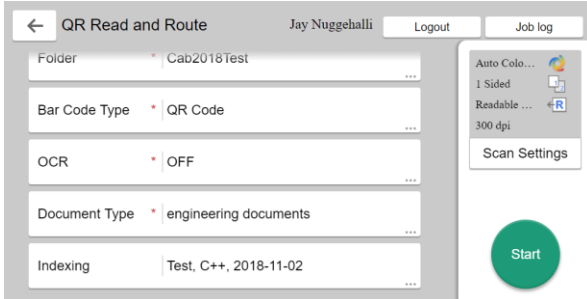
Depending on the type of values, different user input interface will be displayed.

Details of indexing values are shown below.

Keywords Type: Textbox	 <p>The 'Indexing' dialog box has a title bar with an 'OK' button. It contains three input fields: 'Keywords' with the value 'Test', 'Programming Language' which is empty, and 'Date' with the value '2018-11-02'. Each field has a small 'x' icon on the right.</p>	
Programming Language Type: List	 <p>The 'Programming Language' dialog box has a title bar with 'Cancel' and 'OK' buttons. It features a large empty text box at the top. Below it, the text 'Programming Language' is followed by a grid of buttons for C++, C, Python, C#, Javascript, php, Java, and .Net.</p>	
Date Type: Date	 <p>The 'Date' dialog box has a title bar with 'Cancel' and 'OK' buttons. It contains a date input field showing '2018-11-02' with a clear 'x' icon. Below this, the text 'Date' is followed by a 'Today' button and a calendar icon.</p>	



The 'Indexing' dialog box is shown with the following values: 'Keywords' is 'Test', 'Programming Language' is 'C++', and 'Date' is '2018-11-02'. Each field has a small 'x' icon on the right.



The 'QR Read and Route' dialog box is shown with the following values: 'Folder' is 'Cab2018Test', 'Bar Code Type' is 'QR Code', 'OCR' is 'OFF', 'Document Type' is 'engineering documents', and 'Indexing' is 'Test, C++, 2018-11-02'. Each field has a small 'x' icon on the right. On the right side, there is a 'Scan Settings' section with 'Auto Color' (checked), '1 Sided', 'Readable' (checked), and '300 dpi'. A green 'Start' button is at the bottom right.

8 Limitations

QR Read and Route Limitations

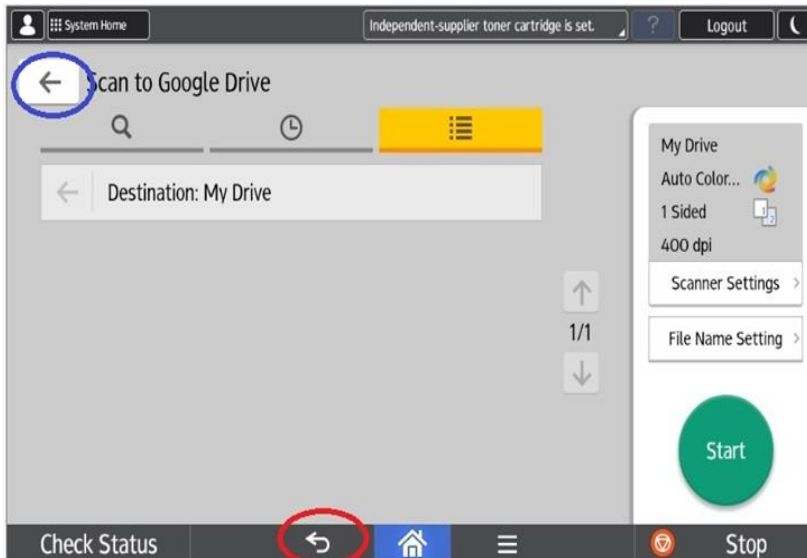
- Following characters are not supported for folder and filename creation. Using these characters in employee number and work order number in QR code data is invalid. Since these values are used to create folder and filename.
~"#%&*:;<>?/\{|}
- If Scanned document is missing QR Code or QR code has invalid data, scanned document is uploaded to 'temp' folder.
- QR Read and Route supports up to 200 MB of Scan file size or 500 Pages whichever is lower. This is due to file size limitation in Bar Code recognition module

User Site Limitations

- Supported Browsers for User Site are:
 - Internet Explorer: 11 or later
 - Edge: Latest Version
 - Chrome: Latest Version
 - Firefox: Latest Version
- Limitations for Home Screen/Applications
 - Home: Maximum 20 for each profile, Max 32 characters for the name.
 - Applications: Maximum 18 for each home screen, Max 32 characters for the name
- User Management
 - Email address is unique in the system; same Email address cannot be used even if user belongs to different Tenants
 - Users belong to same tenant cannot set different time zones
 - User cannot change their login Email address, need admins assistance to change email address

General Limitations

- Once Administrator has logged in to a Tenant on MFP, administrator from another tenant cannot login to same MFP. Refer to guide on 'How to remove registered device'
- Back button inside application display screen must be used, instead for 'Back' button on the operation panel.



- Folder and File Search results varies from Cloud Service to Cloud Service, this depends on the Search API for each service.

OCR Limitations

Category	Phenomenon	Description
Upside-down image rotation	Sometimes misrecognized	We identify the top and bottom from the image as pre-processing of OCR. We use information such as the direction of arrangement of letters, letter / picture / chart layout, ruled line position, etc. to infer which is upper. In the case of the following manuscripts, the OCR may also fail because the top / bottom discrimination fails. <ul style="list-style-type: none"> · Manuscript with only few letters · Manuscript with characters written diagonally · Documents with a dark background / background such as photos
OCR	Unusual fonts cannot be recognized	In OCR, it is based on standardly used fonts such as Arial / Verdana / Times New Roman for foreign languages, MS Ming Dynasty / MS Gothic / MS UI Gothic for Japanese. Therefore, recognition may fail in the following cases. <ul style="list-style-type: none"> · Using a special font · Using extremely large / small font size
	Input image is not clear	Although 200 dpi to 600 dpi is recommended for engine specifications, if the recognition rate is bad at 200 dpi, please raise the resolution and scan again. Also, if the input images are blurred or are not enough contrast, the recognition rate will not improve. Please use clear images.
PDF output	Output size is different	Due to the limitation of the current engine, the size of the output PDF page may increase by about 0.3 to 1.7 mm.

	Sometimes impossible to print with EXP machine	When you print PDF with Japanese OCR by EXP machine, if alternative font is not installed in MFP, it may not be printed correctly.
Word output	Layout collapse	The OCR engine writes the character string of the recognition result as Word text and uses the font size / font type / line spacing / text width etc. to try to make it as close to the original as possible, but it is difficult to match with the original perfectly. Therefore, the following phenomena may occur. <ul style="list-style-type: none"> · Although the manuscript was 2 pages, it became 3 pages / 1 page · Margins increase or decrease
	The number of blank pages increases	If you input multiple pages and try to output them in Word, blank pages sometimes increase.
	Sometimes the footer's page number is incorrect	When outputting a document with a page number in the footer section as an input, Word automatically counts the page count and may be out of alignment with the page number of the document. Example: Manuscript: 2 pages of 3/8, 4/8 Word output result: 2 pages of 1/2, 2/2 (Since there are only 2 pages, Word automatically judges 2 pages, 8 replaces 2 and redoes the page)
	Doc format, that is created by OCR, cannot be displayed in iOS UIWebView	It is said that iOS does not officially support doc / xls etc., it may not be displayed normally on iOS machines. This is because the OCR function creates data in RTF format and then outputs it to doc format. Please use docx / xlsx.

	Sometimes blank page is removed	In decision of the current OCR engine, blank page is sometimes removed. So, for example, 4 pages sometimes become 3 pages.
	Cell color/ Frame border are lost	For Word output, the color of the cell or the frame border of the table are lost during the transfer.
Excel output	Color / figure / photo are lost	For Excel output, the color of characters is not reflected. Also, figures and photographs are not reflected. With regard to the part recognized as table, OCR engine uses the cell ruled line / cell combination to create table.

9 Appendix

File Name Formula

Formula functions are similar to Microsoft Excel Formulas. Not all Excel functions are relevant and supported.

Following variables from the workflow application are available to use in the formula

1. TenantId [Smart Integration Tenant ID]
2. UserId [Smart Integration User ID]
3. employee_number [From QR Code]
4. workorder_number [From QR Code]

Data format in QR Code:

employee_number:workorder_number

Sample Formulas

Formula	Result
YEAR(NOW()) & "-" & MONTH(NOW()) & "-" & DAY(NOW()) & "-" & HOUR(NOW()) & MINUTE(NOW()) & SECOND(NOW())	2018-12-21-102657
YEAR(NOW()) & "-INVOICE"	2018-INVOICE
_[UserId] & "-" & YEAR(NOW()) & "-" & MONTH(NOW()) & "-" & DAY(NOW())	TOM-2018-12-21
_[workorder_number] & "_" & "completed"	220100_completed
_[workorder_number] & "_" & _[employee_number]	220100_33001
_[workorder_number] & "_" & TEXT(TODAY(), "mm-dd-yyyy")	220100_01-08-2019

Formula Functions

Formula Evaluation is based on Open Source, Apache POI

Note: Please see link below. All formulas listed may not be relevant to workflow application. Here is list of formulas.

<http://poi.apache.org/components/spreadsheet/eval-devguide.html>