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PROVIDING A RESEND FEATURE FOR FAILED TRANSMISSION OF A SCANNED IMAGE

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Providing a resend feature for failed transmission of a scanned image


Invention Background


MFP supports to send scanned documents to server or external PC after scanning (Scan to SMB, Scan to FTP). And product supports multiple protocol simultaneously each scanning time. So, user can send to multiple destination using multiple protocol at once. But If sending to one of multiple destination is failed then user have to re-start scanning and re-select failed destination manually. To solve this inconvenience, this idea provides Fast Re-send Email.

Invention Description

If MFP fails sending to one destination at least, then MFP send Fast Re-send Email to user's email address. Fast Re-send Email includes scanned document, sending result and URL or script for fast sending to failed destination as Fig 1. When user clicks URL or script, proper application or behavior for fast re-sending will be run.

Fast Re-send Email

 Seo, Youn (서윤_RnD SW)
To ● Seo, Youn (서윤_RnD SW)

 Untitled_08042019_144318.pdf
194 KB

[Scan Info]

File Name	Page	Size	Scan Date
Untitled_08042019_144318.pdf	4	183,979 Bytes	2019-05-21

[Sending Result]
Total Destination : 4
Success : 2
Fail : 2

[Detail Result]

	Destination	Result	Fail Reason	Detail
Email	AAA (AAA@XX.com)	Success		
	BBB (BBB@XX.com)	Fail	Connection Fail	Re-Send : mailto:BBB@XX.com
FTP	CCC (130.31.1.2)	Success		
	DDD (130.31.1.3)	Fail	Connection Fail	Re-Send : ftp://130.31.1.3/home/scan/2019_05_21

Fig. 1 Fast Re-send Email sample

Invention Detail

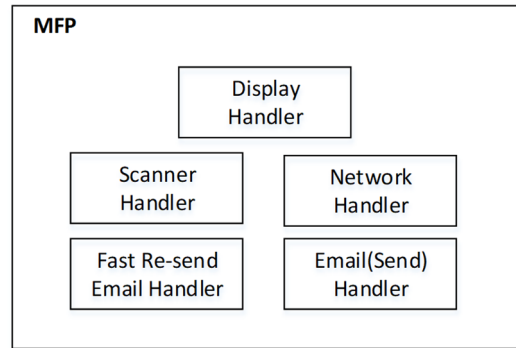


Fig. 2 MFP Structure for Fast Re-send Email

Fig 2 is MFP Structure for Fast Re-send Email

Display Handler requests scan option and destination address. And displays scan results.

Scanner Handler scans documents and sends to Network Handler.

Network Handler sends documents to destinations and checks whether success or not. If sending failed, Network Handler sends documents and sending results to Fast Re-send Email handler.

Fast Re-send Email handler checks sending results and makes proper URL or script for fast re-sending against each failed protocol. After making, Fast Re-send Email handler makes email and attaches URL or script to email. And send email to Email (Send) Handler.

Email (Send) Handler send email to user.

Also, user can set “Fast Re-send Email” option against each protocol as Fig 3. For example, if user disables FTP’s “Fast Re-send Email” option, then Network Handler doesn’t send FTP destination information to Fast Re-send Email handler even if FTP destination is failed.

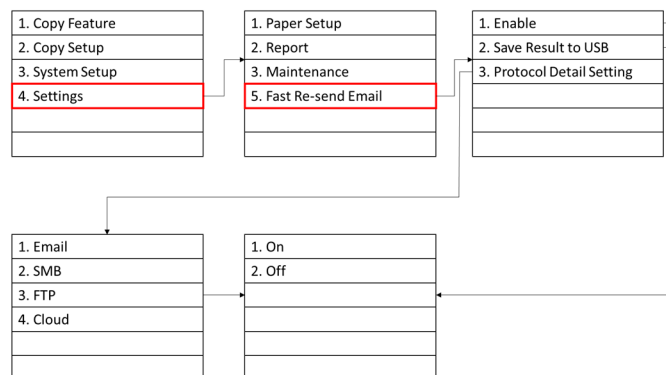


Fig. 3 Sample UI flow to set Fast Re-send Email option

Also, user can set “Save Result to USB” option (Refer Fig 3). If user enables this option, Fast Re-send Email handler saves Email data to USB storage when sending Fast Re-send Email is failed.

Fig 4 is overall flows.

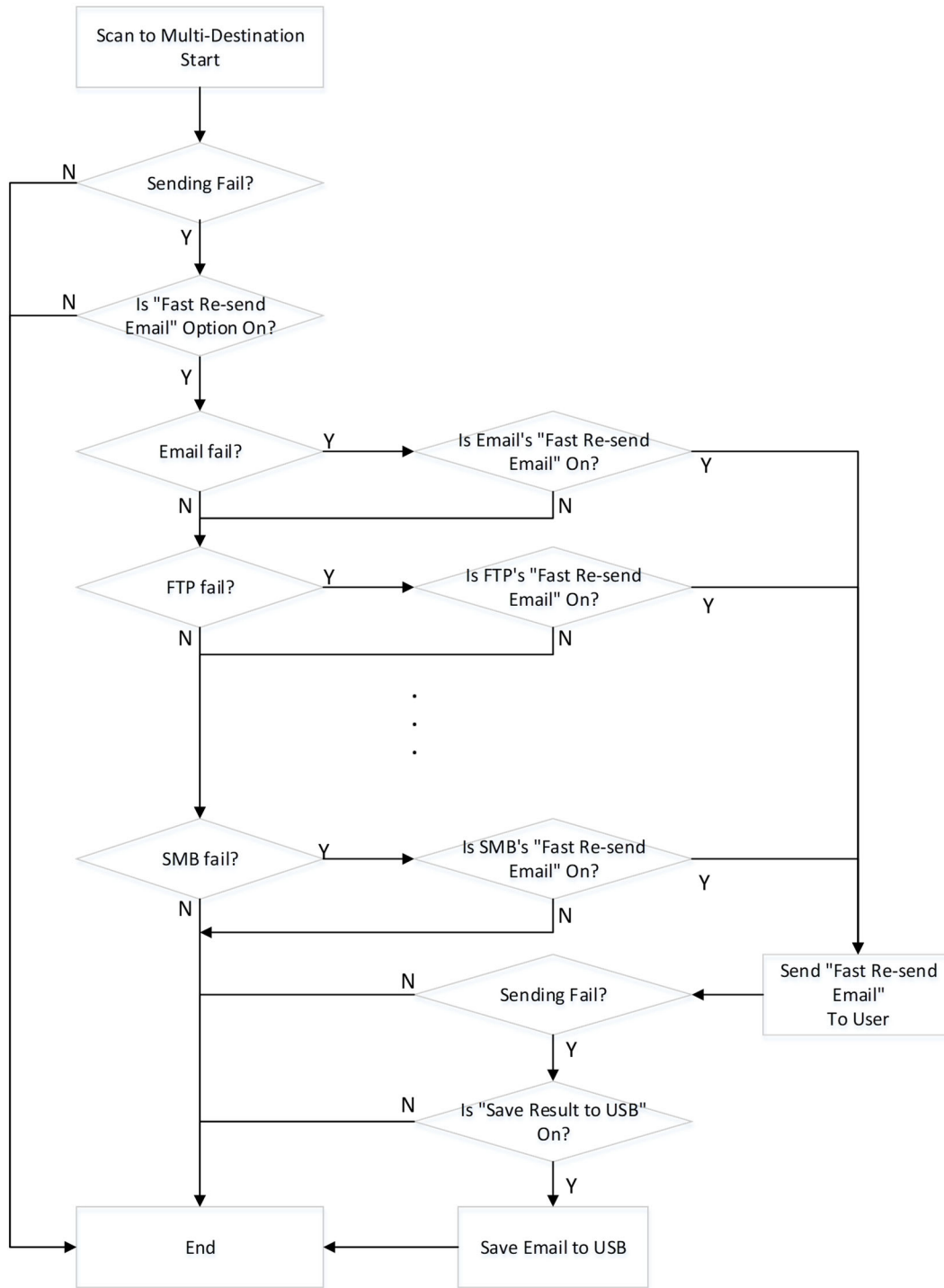


Fig. 4 Overall flow

Disclosed by Youn Seo and Byoungyue Kim, HP Inc.