

Test Fax here.

Functional Scope

Feature, quality, and reliability parity with the current Hello Fax solution. GCS will be used as the storage platform for sending and receiving content. Functional, regression and load testing will be performed from both the product and the new APIs.

Supported limits for Dialpad

Max Size = 40MB

Max Pages (Must be less than Max Size) = 100 pages

Supported Limits w/ Hellofax

Max Size = 40 MB (Internal limit might be set to 10MB on the product side)

Max Pages = 250 Pages

Out Of Scope

HIPPA Compliance

GDPR

Data Retention Policy (TBD)

Adding, Removing and Fax lines will be ancillary tests and not a focus of this feature.

APIs

Completely new APIs have been developed by Telephony for the product team to implement and for Tel QA to test. Communication between Telephony and Product will pass around GCS paths to fetch and send data.

Function, performance and limit testing is needed here.

Automation Requirements

Automation needs are still TBD however considerations include:

Unit test for functional test written by development

API test for functional testing (TBD)

End to End tests for automation will be derived from developed functional tests.

Potential limit testing around GCS quotas and API performance.

Regression Requirements.

Influenced from existing functional tests and expanded to include new limits and Telephony behaviors. An inventory and review of the Dialpad tests and expand scope are included in our testrail TCM as well as this spreadsheet

Test rail test suite

Engineering Test cases

Testing

Testing will be focused on quality, reliability, and content support with a focus on validating parity with the current Hello Fax solution. All test cases will be defined and run from TestRail and in service of transparency, a high-level breakdown is included in the strategy.

Freeswitch does support 2 quality levels called standard and fine. There are no plans to improve or change this initially.

Testing and feature goals:

Parity to HelloFax in quality and functionality.

Same or better error rate (send failure)

Performance

Phone numbers must be portable as fax numbers.

Parity

Image Quality

Performance (Encoding and send timing)

Page limits

Max fax size

Quality

Content quality

Overall Image Quality

Different DPI and resolutions

Supported formats

Reliability

Corruption handling.

Faxing to a busy line (Send/Receive)

Faxing to a non fax number (Send/Receive)

Network noise

Disconnects mid-call

Doc not present in GCS

Can't write to GCS (temp unavailability or config issue)

Content:

Standard sizes

Letter, Legal, A4

Range of DPI encoding

Orientation

Portrait, Landscape

Limit testing:

Size of image

Number of total pages / data

How many concurrent fax requests can we handle.

Questions

How will porting be tested?

Are there send or read receipts with the current and or native solution?

NO - Dialpad will indicate progress and success or failure in-app based on call backs from Telephony.

How are we going to test international faxing

What will our retention policy be and will it be configurable?