**Setting Up T.37 On-Ramp Faxing with SIP Trunking**

T.37 on-ramp faxing describes the ability of a Cisco ISR router to recognize fax tones on specific incoming numbers and to route those calls to a special application that provides fax-to-email capability.

Onramp faxing assumes that ISDN messages are present in the telephone call. The problem presented with SIP trunking is that no ISDN messages are present. To work around this problem, we take the incoming SIP call and route it through a back-to-back T1 connection. This causes the appropriate messages to be generated and the needed tones to be produced.

To configure this, we must first create the back-to-back T1:

1. Configure both sides of a VWIC card as controller interfaces

Controller t1 0/0/0

pri-group timeslots 1-4

clock source internal

controller t1 0/0/1

pri-group timeslots 1-4

clock source line

1. Configure the fax application on the voice gateway (if not already present)

!

fax interface-type fax-mail

mta send server 172.29.15.61 port 25

mta send with-subject both

mta send mail-from hostname customermailserver.customer.com

mta send mail-from username $d$

mta receive aliases 172.29.15.61

mta receive aliases 192.168.0.12

!

application

service onramp flash:app\_faxmail\_onramp.2.0.1.3.tcl—*this refers to the script in the flash: filesystem that is loaded*

1. Configure a voip dial peer to receive inbound voip calls (if not already present)

dial-peer voice 9999 voip

voice-class codec 1

voice-class h323 1

incoming called-number .

dtmf-relay h245-alphanumeric

fax rate disable

no vad

1. Configure an outbound POTS dial peer to take the inbound DID (voip) and send it across the T1 (POTS):

dial-peer voice 4405 pots

translation-profile outgoing SIP-FAX-Inbound

destination-pattern 2589012974405

incoming called-number .

direct-inward-dial

port 0/2/0:23

1. Configure an inbound POTS dial peer to take the inbound POTS call and route it to the onramp application:

dial-peer voice 9994405 pots

service onramp

incoming called-number 9012974405

direct-inward-dial

port 0/2/1:23

1. Configure the mailto: dial peer to route the fax call to the approach email inbound:

dial-peer voice 14405 mmoip

service fax\_on\_vfc\_onramp\_app out-bound

destination-pattern 9012974405

information-type fax

session target [mailto:9012974405@customer.com](mailto:9012974405@colganair.com)

1. Make sure to route calls to the appropriate gateway if using a different gateway for regular PSTN access.