**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

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