

# ASAP

(Automatic SIP trunking And Peering)

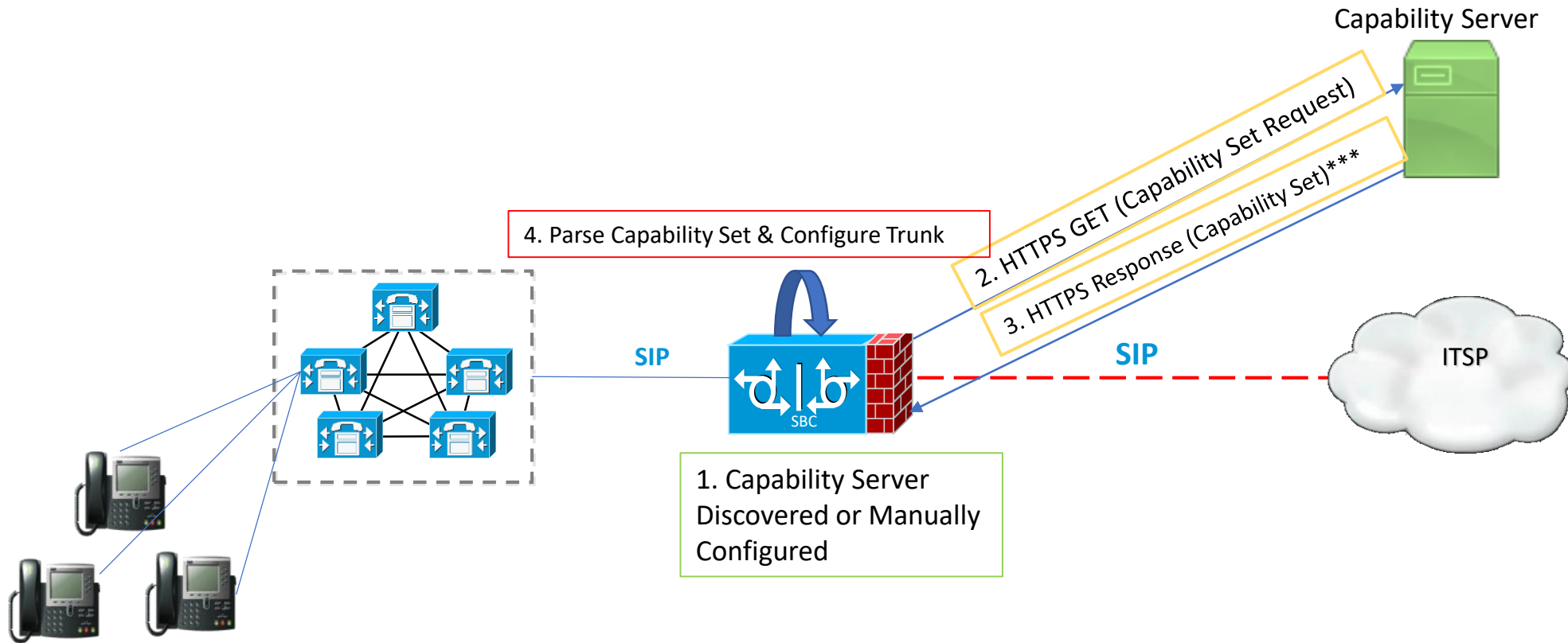
draft-kinamdar-dispatch-sip-auto-peer-01

C. Jennings  
K. Inamdar  
S. Narayanan

# Agenda

- The ASAP Solution
- Charter
- Roadmap

# ASAP High-Level Overview



\*\*\* Body encoded in XML or JSON

# Example Capability Set

```
<peering-info xmlns="urn:ietf:params:xml:ns:yang:ietf-peering"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="urn:ietf:params:xml:ns:yang:ietf-peering ietf-peering.xsd">
  <variant>1.0</variant>
  <transport-info>
    <transport>TCP;TLS;UDP</transport>
    <registrar>registrar1.voip.example.com:5060</registrar>
    <registrar>registrar2.voip.example.com:5060</registrar>
    <registrarRealm>voip.example.com</registrarRealm>
    <callControl>callServer1.voip.example.com:5060</callControl>
    <callControl>192.168.12.25:5065</callControl>
    <dns>8.8.8.8</dns>
    <dns>208.67.222.222</dns>
    <outboundProxy>0.0.0.0</outboundProxy>
  </transport-info>
  <call-specs>
    <earlyMedia>true</earlyMedia>
    <signalingForking>false</signalingForking>
    <supportedMethods>INVITE;OPTIONS;BYE;CANCEL;ACK;PRACK;SUBSCRIBE;NOTIFY;REGISTER</supportedMethods>
  </call-specs>
  <media>
    <mediaTypeAudio>
      <mediaFormat>PCMU;rate=8000;ptime=20</mediaFormat>
      <mediaFormat> G729;rate=8000;annexb=yes</mediaFormat>
      <mediaFormat>G722;rate=8000;bitrate=56k,64k</mediaFormat>
    </mediaTypeAudio>
    <fax>
      <protocol>pass-through</protocol>
      <protocol>t38</protocol>
    </fax>
    <rtsp>
      <RTPTrigger>true</RTPTrigger>
      <symmetricRTP>true</symmetricRTP>
    </rtsp>
    <rtcp>
      <symmetricRTCP>true</symmetricRTCP>
      <RTCPFeedback>true</RTCPFeedback>
    </rtcp>
  </media>
  <dtmf>
    <payloadNumber>101</payloadNumber>
    <iteration>0</iteration>
  </dtmf>
  <security>
    <signaling>
      <type>TLS</type>
      <version>1.0;1.2</version>
    </signaling>
    <mediaSecurity>
      <keyManagement>SDES;DTLS-SRTP,version=1.2</keyManagement>
    </mediaSecurity>
  </security>
  <extensions>timer;rel100;gin;path</extensions>
</peering-response>
```

# Charter

- Idea was presented @ IETF 106. Discussion favorable towards progressing the work. ADs leaned towards creation of a mini-WG.
- Charter was published to the wider forum. Comments were addressed
  - To determine if use cases should be documented in main draft
  - Scope of the deployment
  - Discovery of the capability server on the service provider side
- Modified charter with comments addressed has also been published to the wider forum.

# Road Ahead

- Capability set defined is representative of most problems faced by administrators during deployment of enterprise SBCs. Open to adding more parameters based on further discussions.
- 70% of the work is complete. Items left in the bucket:
  1. Define the discovery process
  2. Formalize the parameters in the capability set.

Thank You

# Magnitude Of Problem

- A total of 6000 support cases opened with Cisco last year for its Enterprise SBC, CUBE.
- 22% of these cases were directly related to ITSP interoperability.
- Multiply this by the number of enterprise SBC vendors to get a rough estimate of the magnitude of the problem.
- Still a significant number of enterprise networks are yet to migrate from TDM/Analog to SIP trunking...the problem isn't going away anytime soon...