



P2P Detection Analysis and Performance Enhancements

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Overview

Three new ACS level CLI, **p2p_force_bailout_value**, **fb_insta_video_detection**, and **voip_subtype_detection** are added for enhancing performance impacts in p2p detection analysis.



Important

Ensure to enter the CLIs manually to boot the configuration. This is because the plugin CLI is not part of show/ save configuration.

Configuring Force Bailout and Subtype Detection

Force Bailout Value

Use the following configuration to force p2p analysis to bailout based on the number of packets configured.

```
configure
  active-charging service acsservice_name
    [ no ] p2p-detection debug-param protocol-param
  p2p_force_bailout_value value
end
```

Notes:

- **p2p_force_bailout_value value**: Based on the number of packets configured, p2p analysis is forced to bailout. The values are:
 - Default value is 300.
 - Minimum value allowed is 2.
 - Maximum value allowed is 300.



Note Recommended value is 300. Lower values have an impact on detection.

Enable or Disable Subtype Detection

Use the following configuration to enable or disable subtype (unknown, streaming-video) detection for TLS flows in Facebook (FB) or Instagram, which multiplexes multiple media types in a single TCP 5-tuple.

```
configure
  active-charging service acsservice_name
    [ no ] p2p-detection debug-param protocol-param
  fb_insta_video_detection value voip_subtype_detection value
end
```

Notes:

- **fb_insta_video_detection** *value*:
 - If the value is set to 1, video detection for Facebook (FB) and Instagram is enabled. The flows with certain SNI for Instagram or Facebook (FB) permanently remains in slow path to detect the media types exchanged in the flow.
 - If the value is set to 0, the video detection for Facebook and Instagram is disabled. The flow will be marked based on first media type exchanged in the flow and offloaded.
- **voip_subtype_detection** *value* : Enable this **voip_subtype_detection** CLI to differentiate audio and video flows in a VOIP call from Facebook/Viber application



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- Note**
- If the **voip_subtype_detection** CLI is disabled, both audio and video will be detected as audio.
 - To retain the **voip_subtype_detection** CLI across reloads, enter the configuration in boot configuration.
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