



ADC Plugin Version 2_51_1246 Release Note

Release Date: May 29, 2020

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Introduction

This Release Note identifies all changes and issues related to this ADC Plugin Release for the StarOS™ based Application Detection Control (ADC) in-line service, formerly known as Peer-to-Peer Detection.

Feature and Behavior Changes

This section identifies the enhancements and behavior changes in this release:

CSCvt60699: Add Support for TikTok in ADC

Feature Changes

ADC Support for TikTok

With this release, the support for detection and classification of “**tiktok**” application is added.

Detection accuracy: 98.15%.

TikTok (Android): 14.8.4

TikTok (iOS): 14.7.0

Command Changes

p2p-detection protocol

This command enables detection of peer-to-peer (P2P) protocols. With this release, the **tiktok** keyword is added to this command.

configure

```
active-charging service service_name
```

```
[ no ] p2p-detection protocol tiktok
```

```
[ no ] p2p traffic-type = streaming-video
```

```
[ no ] p2p traffic-type = unclassified
```

```
end
```

show active-charging analyzer statistics name p2p

This command displays statistical information for protocol analyzers. With this release, the **tiktok** keyword is added to the P2P list.

```
show active-charging analyzer statistics name p2p application p2p_list
```

show active-charging flows type p2p

This command displays the information for the active charging flows. With this release, the **tiktok** keyword is added to the P2P list.

```
show active-charging flows type p2p application p2p_list
```

show active-charging sessions summary

This command displays statistics for Active Charging Service (ACS) sessions. With this release, the **tiktok** keyword is added to the P2P list:

```
show active-charging sessions summary type p2p application p2p_list
```

Performance Indicator Changes

P2P Schema

New ADC bulk statistics are available in the P2P schema for tiktok as part of the plugin. If detection of the tiktok P2P protocol is enabled, bulk statistics for that protocol will be automatically generated using the Dynamic Software Upgrade plugin installed on the chassis.

The following bulk statistics are added to the P2P schema:

- p2p-tiktok-uplnk-bytes
- p2p-tiktok-dwlnk-bytes
- p2p-tiktok-uplnk-pkts
- p2p-tiktok-dwlnk-pkts
- p2p-tiktok-duration
- p2p-tiktok-unclassified-uplnk-bytes
- p2p-tiktok-unclassified-dwlnk-bytes
- p2p-tiktok-unclassified-uplnk-pkts
- p2p-tiktok-unclassified-dwlnk-pkts
- p2p-tiktok-unclassified-duration
- p2p-tiktok-streaming-video-uplnk-bytes
- p2p-tiktok-streaming-video-dwlnk-bytes
- p2p-tiktok-streaming-video-uplnk-pkts
- p2p-tiktok-streaming-video-dwlnk-pkts
- p2p-tiktok-streaming-video-duration

show active-charging analyzer statistics name p2p application tiktok verbose

This command displays Active Charging protocol analyzer statistics for the P2P protocol analyzer.

With this release, the following fields have been added to the output of this command:

- tiktok streaming-video:
 - Total Uplink Bytes
 - Total Downlink Bytes
 - Total Uplink Pkts

Feature and Behavior Changes

- Total Downlink Pkts
- tiktok unclassified:
 - Total Uplink Bytes
 - Total Downlink Bytes
 - Total Uplink Pkts
 - Total Downlink Pkts

show active-charging analyzer statistics name p2p protocol-group name streaming wide all verbose

With this release, the following fields have been added to the output of this command:

- tiktok:
 - Total Bytes-Up
 - Total Bytes-Down
 - Total Pkts-Up
 - Total Pkts-Down

CSCvt71713: Add Support for 8ballpool in ADC

Feature Changes

ADC Support for 8ballpool Games

With this release, the support for detection and classification of “**8ballpool**” is added.

Detection accuracy: 99%.

8ballpool (Android): 4.8.5

8ballpool (iOS): 4.8.5

Command Changes

p2p-detection protocol

This command enables detection of peer-to-peer (P2P) protocols. With this release, the **8ball** keyword is added to this command.

configure

```
active-charging service service_name  
  
[ no ] p2p-detection protocol 8ball  
  
[ no ] p2p traffic-type = unclassified  
  
end
```

show active-charging analyzer statistics name p2p

This command displays statistical information for protocol analyzers. With this release, the **8ball** keyword is added to the P2P list.

```
show active-charging analyzer statistics name p2p application p2p_list
```

show active-charging flows type p2p

This command displays the information for the active charging flows. With this release, the **8ball** keyword is added to the P2P list.

```
show active-charging flows type p2p application p2p_list
```

show active-charging sessions summary

This command displays statistics for Active Charging Service (ACS) sessions. With this release, the **8ball** keyword is added to the P2P list:

```
show active-charging sessions summary type p2p application p2p_list
```

Performance Indicator Changes

P2P Schema

New ADC bulk statistics are available in the P2P schema for 8ballpool as part of the plugin. If detection of the 8ballpool P2P protocol is enabled, bulk statistics for that protocol will be automatically generated using the Dynamic Software Upgrade plugin installed on the chassis.

The following bulk statistics are added to the P2P schema:

- p2p-8ball-uplnk-bytes
- p2p-8ball-dwlnk-bytes
- p2p-8ball-uplnk-pkts
- p2p-8ball-dwlnk-pkts
- p2p-8ball-duration
- p2p-8ball-unclassified-uplnk-bytes
- p2p-8ball-unclassified-dwlnk-bytes
- p2p-8ball-unclassified-uplnk-pkts
- p2p-8ball-unclassified-dwlnk-pkts
- p2p-8ball-unclassified-duration

show active-charging analyzer statistics name p2p application 8ballpool verbose

This command displays Active Charging protocol analyzer statistics for the P2P protocol analyzer.

With this release, the following fields have been added to the output of this command:

- 8ball unclassified:
 - Total Uplink Bytes
 - Total Downlink Bytes
 - Total Uplink Pkts
 - Total Downlink Pkts

show active-charging analyzer statistics name p2p protocol-group name streaming wide all verbose

With this release, the following fields have been added to the output of this command:

- 8ball:

Feature and Behavior Changes

- Total Bytes-Up
- Total Bytes-Down
- Total Pkts-Up
- Total Pkts-Down

CSCvt74968: Add Support for Epic Games (Fortnite) in ADC

Feature Changes

ADC Support for Epic Games

With this release, the support for detection and classification of “**Epic Games**” is added.

Detection accuracy: 99%.

Epic Games (Android): 12.60.0

Epic Games (iOS): 12.60

Command Changes

p2p-detection protocol

This command enables detection of peer-to-peer (P2P) protocols. With this release, the **epicgames** keyword is added to this command.

configure

```
active-charging service service_name  
  
[ no ] p2p-detection protocol epicgames  
  
[ no ] p2p traffic-type = unclassified  
  
end
```

show active-charging analyzer statistics name p2p

This command displays statistical information for protocol analyzers. With this release, the **epicgames** keyword is added to the P2P list.

```
show active-charging analyzer statistics name p2p application p2p_list
```

show active-charging flows type p2p

This command displays the information for the active charging flows. With this release, the **epicgames** keyword is added to the P2P list.

```
show active-charging flows type p2p application p2p_list
```

show active-charging sessions summary

This command displays statistics for Active Charging Service (ACS) sessions. With this release, the **epicgames** keyword is added to the P2P list:

```
show active-charging sessions summary type p2p application p2p_list
```

Performance Indicator Changes

P2P Schema

New ADC bulk statistics are available in the P2P schema for Epic Games as part of the plugin. If detection of the Epic Games P2P protocol is enabled, bulk statistics for that protocol will be automatically generated using the Dynamic Software Upgrade plugin installed on the chassis.

The following bulk statistics are added to the P2P schema:

- p2p-epicgames-uplnk-bytes
- p2p-epicgames-dwlnk-bytes
- p2p-epicgames-uplnk-pkts
- p2p-epicgames-dwlnk-pkts
- p2p-epicgames-duration
- p2p-epicgames-unclassified-uplnk-bytes
- p2p-epicgames-unclassified-dwlnk-bytes
- p2p-epicgames-unclassified-uplnk-pkts
- p2p-epicgames-unclassified-dwlnk-pkts
- p2p-epicgames-unclassified-duration

show active-charging analyzer statistics name p2p application Epic Games verbose

This command displays Active Charging protocol analyzer statistics for the P2P protocol analyzer.

With this release, the following fields have been added to the output of this command:

- Epic Games unclassified:
 - Total Uplink Bytes
 - Total Downlink Bytes
 - Total Uplink Pkts
 - Total Downlink Pkts

show active-charging analyzer statistics name p2p protocol-group name streaming wide all verbose

With this release, the following fields have been added to the output of this command:

- Epic Games:
 - Total Bytes-Up
 - Total Bytes-Down
 - Total Pkts-Up
 - Total Pkts-Down

CSCvt75059: Add Support for Minecraft in ADC

Feature Changes

ADC Support for Minecraft

With this release, the support for detection and classification of “**Minecraft**” is added.

Feature and Behavior Changes

Detection accuracy: 29.6 % (51.76% xbox)

Minecraft (Android): 1.14.30.2

Minecraft (iOS): 1.14.30

Command Changes

p2p-detection protocol

This command enables detection of peer-to-peer (P2P) protocols. With this release, the **minecraft** keyword is added to this command.

configure

```
active-charging service service_name  
  
    [ no ] p2p-detection protocol minecraft  
  
    [ no ] p2p traffic-type = unclassified  
  
end
```

show active-charging analyzer statistics name p2p

This command displays statistical information for protocol analyzers. With this release, the **minecraft** keyword is added to the P2P list.

```
show active-charging analyzer statistics name p2p application p2p_list
```

show active-charging flows type p2p

This command displays the information for the active charging flows. With this release, the **minecraft** keyword is added to the P2P list.

```
show active-charging flows type p2p application p2p_list
```

show active-charging sessions summary

This command displays statistics for Active Charging Service (ACS) sessions. With this release, the **minecraft** keyword is added to the P2P list:

```
show active-charging sessions summary type p2p application p2p_list
```

Performance Indicator Changes

P2P Schema

New ADC bulk statistics are available in the P2P schema for Epic Games as part of the plugin. If detection of the Epic Games P2P protocol is enabled, bulk statistics for that protocol will be automatically generated using the Dynamic Software Upgrade plugin installed on the chassis.

The following bulk statistics are added to the P2P schema:

- p2p-minecraft-uplnk-bytes
- p2p-minecraft-dwlnk-bytes
- p2p-minecraft-uplnk-pkts
- p2p-minecraft-dwlnk-pkts
- p2p-minecraft-duration
- p2p-minecraft-unclassified-uplnk-bytes
- p2p-minecraft-unclassified-dwlnk-bytes

- p2p-minecraft-unclassified-uplnk-pkts
- p2p-minecraft-unclassified-dwlnk-pkts
- p2p-minecraft-unclassified-duration

show active-charging analyzer statistics name p2p application Minecraft verbose

This command displays Active Charging protocol analyzer statistics for the P2P protocol analyzer.

With this release, the following fields have been added to the output of this command:

- Minecraft unclassified:
 - Total Uplink Bytes
 - Total Downlink Bytes
 - Total Uplink Pkts
 - Total Downlink Pkts

show active-charging analyzer statistics name p2p protocol-group name streaming wide all verbose

With this release, the following fields have been added to the output of this command:

- Minecraft:
 - Total Bytes-Up
 - Total Bytes-Down
 - Total Pkts-Up
 - Total Pkts-Down

CSCvt75613: Add Support for Mobile Legends in ADC

Feature Changes

ADC Support for Mobile Legends

With this release, the support for detection and classification of “**mobilelegends**” is added.

Detection accuracy: 98.37 %

Mobile Legends (Android): 1.4.52.488.4

Mobile Legends (iOS): 1.4.52.4885

Command Changes

p2p-detection protocol

This command enables detection of peer-to-peer (P2P) protocols. With this release, the **mobilelegends** keyword is added to this command.

configure

active-charging service *service_name*

Feature and Behavior Changes

```
[ no ] p2p-detection protocol mobilelegends
[ no ] p2p traffic-type = unclassified
end
```

show active-charging analyzer statistics name p2p

This command displays statistical information for protocol analyzers. With this release, the **mobilelegends** keyword is added to the P2P list.

```
show active-charging analyzer statistics name p2p application p2p_list
```

show active-charging flows type p2p

This command displays the information for the active charging flows. With this release, the **mobilelegends** keyword is added to the P2P list.

```
show active-charging flows type p2p application p2p_list
```

show active-charging sessions summary

This command displays statistics for Active Charging Service (ACS) sessions. With this release, the **mobilelegends** keyword is added to the P2P list:

```
show active-charging sessions summary type p2p application p2p_list
```

Performance Indicator Changes

P2P Schema

New ADC bulk statistics are available in the P2P schema for Mobile Legends as part of the plugin. If detection of the Mobile Legends P2P protocol is enabled, bulk statistics for that protocol will be automatically generated using the Dynamic Software Upgrade plugin installed on the chassis.

The following bulk statistics are added to the P2P schema:

- p2p-mobilelegends-uplnk-bytes
- p2p-mobilelegends-dwlnk-bytes
- p2p-mobilelegends-uplnk-pkts
- p2p-mobilelegends-dwlnk-pkts
- p2p-mobilelegends-duration
- p2p-mobilelegends-unclassified-uplnk-bytes
- p2p-mobilelegends-unclassified-dwlnk-bytes
- p2p-mobilelegends-unclassified-uplnk-pkts
- p2p-mobilelegends-unclassified-dwlnk-pkts
- p2p-mobilelegends-unclassified-duration

show active-charging analyzer statistics name p2p application Mobile Legends verbose

This command displays Active Charging protocol analyzer statistics for the P2P protocol analyzer.

With this release, the following fields have been added to the output of this command:

- Mobile Legends unclassified:
 - Total Uplink Bytes

- Total Downlink Bytes
- Total Uplink Pkts
- Total Downlink Pkts

show active-charging analyzer statistics name p2p protocol-group name streaming wide all verbose

With this release, the following fields have been added to the output of this command:

- Mobile Legends:
 - Total Bytes-Up
 - Total Bytes-Down
 - Total Pkts-Up
 - Total Pkts-Down

Enhanced Protocols and Applications Support

This section lists the enhancements added to support new clients/versions for the existing protocols/applications.

CDETS ID	CDETS Headline/Change Summary
CSCvu24126	<p>New Version Testing for IMO</p> <p>Change Summary: imo.im.atp SNI and logic has been added to detect the UDP traffic.</p> <p>Detection Percentage: 58.69% IMO (Android): 2020.04.2041 IMO (iOS): 2020.5.2</p>
CSCvu26276	<p>New Version Testing for Discord</p> <p>Change Summary: audio/video sub-classification support is enabled.</p> <p>Detection Percentage: 61.58% Discord (Android): 22.0 Discord (iOS): 21.0</p>
CSCvu29420	<p>New Version Testing for android_messages</p> <p>Change Summary: removed SIP traffic being tagged as android_messages.</p> <p>Detection Percentage: N/A android_messages (Android): N/A android_messages (iOS): N/A</p>
CSCvt66321	<p>New Version Testing for apple-store</p> <p>Change Summary: Fixed the detection issue for the traffic for apple store as it was being detected under "p2p-detection protocol itunes" traffic instead of " p2p-detection protocol apple-store".</p> <p>Detection Percentage: 68.81% apple-store (Android): N/A apple-store (iOS): N/A</p>

Related Documentation

For more information pertaining to changes in this release, refer to the *ADC Administration Guide*, *Command Line Interface Reference*, and *Statistics and Counters Reference* at <http://www.cisco.com/c/en/us/support/wireless/asr-5000-series/products-installation-and-configuration-guides-list.html>.

NOTE: The changes identified in this release may not be available in the latest version of the *ADC Administration Guide*, *Command Line Interface Reference*, and *Statistics and Counters Reference* at the time of the ADC Plugin release.

Installation and Upgrade Notes

This Release Note does not contain installation and upgrade instructions. Refer to the existing installation documentation for specific installation and upgrade considerations.

Open and Resolved Bugs

Bugs Open in this Release

None in this release.

Bugs Resolved in this Release

The table below highlights the known bugs that are resolved in this specific release. For a summary of all resolved issues in earlier releases, see the *Previously Resolved Issues* section. Additional information for all bugs resolved in this release is available in the [Cisco Bug Search Tool](#).

CDETS ID	CDETS Headline
CSCvu24126	imo.im.atp SNI and logic has been added to detect the UDP traffic for imo.
CSCvu26276	audio/video sub-classification support is enabled for discord application.
CSCvu29420	Removed SIP traffic being tagged as android_messages.
CSCvt66321	Fixed the detection issue for the traffic for apple store as it was being detected under "p2p-detection protocol itunes" traffic instead of " p2p-detection protocol apple-store".

Operator Notes

ADC Plugin Version Numbering System

This section explains the version-numbering scheme for ADC Plugin releases running on the ASR 5x00 or Cisco Virtualized Packet Core platform. The version numbering is different for the ADC Plugin release as this release is independent of StarOS software releases.

The fields of the version number as reflected in the ADC Plugin are in the form of INTERFACE.MAJOR.BUILD (e.g., 1.140.514).

Obtaining Documentation and Submitting a Service Request

- The INTERFACE number indicates the identifier between ASR5x00 and Plugin. This number indicates backward compatibility and only increments when a change will introduce a compatibility issue. This field may increment by '1' when necessary.
- The MAJOR version number indicates a contiguous sequential number that represents incremental changes between releases. This number increments by '1' for each plugin release.
- The BUILD version number indicates the build number that increments with each new build. This is a unique, sequential number across all ADC builds.

Obtaining Documentation and Submitting a Service Request

For information on obtaining documentation, using the Cisco Bug Search Tool (BST), submitting a service request, and gathering additional information, see *What's New in Cisco Product Documentation*, at:

<http://www.cisco.com/c/en/us/td/docs/general/whatsnew/whatsnew.html>.

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