



# Release Notes for ADC Plugin Version, Release 2.74.16.2789

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## ADC P2P Plugin, Release 2.74.16.2789

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.

For more information about the ADC P2P product documentation, see the [Related resources](#) section.

### New software features

This section provides new and enhanced software features introduced in this release.

#### CSCwt26694: Add support for Thmanyah application

##### Feature Changes

The Thmanyah mobile app is a streaming application, which offers a range of features primarily focused on Arabic content and live sports.

##### ADC Support for CSCwt26694

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

Detection accuracy: 97.47%

Thmanyah (Android): 1.14.0

Thmanyah (iOS): 1.15.2

##### Command Changes

###### p2p-detection protocol

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

```
configure
```

```
    active-charging service service_name
        [no] p2p-detection protocol thmanyah
        [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 **thmanyah** 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 **thmanyah** keyword is added to the P2P list.

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

###### show active-charging sessions summary

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This command displays statistics for Active Charging Service (ACS) sessions. With this release, the **thmanyah** 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 Thmanyah as part of the plugin. If detection of the Thmanyah 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-thmanyah-uplnk-bytes
- p2p-thmanyah-dwlnk-bytes
- p2p-thmanyah-uplnk-pkts
- p2p-thmanyah-dwlnk-pkts
- p2p-thmanyah-duration
- p2p-thmanyah-unclassified-uplnk-bytes
- p2p-thmanyah-unclassified-dwlnk-bytes
- p2p-thmanyah-unclassified-uplnk-pkts
- p2p-thmanyah-unclassified-dwlnk-pkts
- p2p-thmanyah-unclassified-duration
- p2p-thmanyah-streaming-video-uplnk-bytes
- p2p-thmanyah-streaming-video-dwlnk-bytes
- p2p-thmanyah-streaming-video-uplnk-pkts
- p2p-thmanyah-streaming-video-dwlnk-pkts
- p2p-thmanyah-streaming-video-duration

### **show active-charging analyzer statistics name p2p application thmanyah 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:

- Thmanyah Unclassified:
  - Total Uplink Bytes
  - Total Downlink Bytes
  - Total Uplink Pkts
  - Total Downlink Pkts
- Thmanyah Streaming-video:

- Total Uplink Bytes
- Total Downlink Bytes
- Total Uplink Pkts
- Total Downlink Pkts
- Thmanyah:
  - 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:

- Thmanyah:
  - Total Bytes-Up
  - Total Bytes-Down
  - Total Pkts-Up
  - Total Pkts-Down

## **CSCws94392: Add support for Vix application**

### **Feature Changes**

Vix is an over-the-top (OTT) streaming service operated by Televisa Univision. It specializes in Spanish-language content, offering a wide array of movies, television series, live news, and sports programming.

### **ADC Support for CSCws94392**

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

Detection accuracy: 90.88 %

Vix (Android): 4.42.1\_mobile

Vix (iOS): 4.44.0

### **Command Changes**

#### **p2p-detection protocol**

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

**configure**

```
active-charging service service_name
    [no] p2p-detection protocol vix
```

```
[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 **vix** 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 **vix** 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 **vix** 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 Vix as part of the plugin. If detection of the vix 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-vix-uplnk-bytes
- p2p-vix-dwlnk-bytes
- p2p-vix-uplnk-pkts
- p2p-vix-dwlnk-pkts
- p2p-vix-duration
- p2p-vix-unclassified-uplnk-bytes
- p2p-vix-unclassified-dwlnk-bytes
- p2p-vix-unclassified-uplnk-pkts
- p2p-vix-unclassified-dwlnk-pkts
- p2p-vix-unclassified-duration
- p2p-vix-streaming-video-uplnk-bytes
- p2p-vix-streaming-video-dwlnk-bytes
- p2p-vix-streaming-video-uplnk-pkts

- 
- p2p-vix-streaming-video-dwlnk-pkts
  - p2p-vix-streaming-video-duration

**show active-charging analyzer statistics name p2p application vix 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:

- Vix Unclassified:
  - Total Uplink Bytes
  - Total Downlink Bytes
  - Total Uplink Pkts
  - Total Downlink Pkts
- Vix Streaming-video:
  - Total Uplink Bytes
  - Total Downlink Bytes
  - Total Uplink Pkts
  - Total Downlink Pkts
- Vix:
  - 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:

- Vix:
  - Total Bytes-Up
  - Total Bytes-Down
  - Total Pkts-Up
  - Total Pkts-Down

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## CSCws94392: Add support for Tesla application

### Feature Changes

The Tesla app is an official mobile application that serves as a central hub for Tesla owners, allowing them to remotely communicate with and control their vehicles and energy products.

### ADC Support for CSCws94392

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

Detection accuracy: 98.73 %

Tesla (Android): 4.54.5

Tesla (iOS): 4.54.5

### Command Changes

#### p2p-detection protocol

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

```
configure
  active-charging service service_name
    [no] p2p-detection protocol tesla
        [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 **tesla** 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 **tesla** 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 **tesla** 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 Tesla as part of the plugin. If detection of the tesla P2P protocol is enabled, bulk statistics for that protocol will be automatically generated using the Dynamic Software Upgrade plugin installed on the chassis.

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The following bulk statistics are added to the P2P schema:

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

#### **show active-charging analyzer statistics name p2p application tesla 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:

- Tesla:
  - Total Uplink Bytes
  - Total Downlink Bytes
  - Total Uplink Pkts
  - Total Downlink Pkts

#### **show active-charging analyzer statistics name p2p protocol-group name business wide all verbose**

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

- Tesla:
  - Total Bytes-Up
  - Total Bytes-Down
  - Total Pkts-Up
  - Total Pkts-Down

### **Enhanced Protocols and Applications Support**

These enhancements are added to support new clients/versions for the existing protocols/applications.

**Table 1.** Enhanced protocols and applications, Release 2.74.16.2789

CDETS ID	CDETS Headline/Change Summary
CSCwt50256	<p>New QUIC SNI fragment support added for Apple Music</p> <p><b>Change Summary:</b> Added support for QUIC fragmentation in Apple Music.</p> <p>Detection Percentage: 99.019%</p> <p>Apple Musi (Android): 5.1.1</p> <p>Apple Music (iOS): -</p>
	<p>New QUIC SNI fragment support added for Clashroyale</p> <p><b>Change Summary:</b> Added support for QUIC fragmentation in Clashroyale.</p> <p>Detection Percentage: 97%</p> <p>Clashroyale (Android): 130300033</p> <p>Clashroyale (iOS): 14.489.1</p>
	<p>New TLS SNI fragment support added for Paramountplus.</p> <p><b>Change Summary:</b> Added support for TLS fragmentation in Paramountplus.</p> <p>Detection Percentage: 95.53%</p> <p>Paramountplus (Android): 16.6.1</p> <p>Paramountplus (iOS): 15.12.0</p>
CSCwt46906	<p>Improve detection for Discord application.</p> <p><b>Change Summary:</b> Added support in discord.</p> <p>Detection Percentage: 97.8%</p> <p>Discord (Android): 315.11</p> <p>Discord (iOS): 317</p>
	<p>Improve detection for Amazon Prime application.</p> <p><b>Change Summary:</b> Added support in amazon prime.</p> <p>Detection Percentage: 99.50%</p> <p>Amazon Prime (Android): 3.0.436.1347</p> <p>Amazon Prime (iOS): 10.117.1</p>
	<p>Improve detection for Facebook application.</p> <p><b>Change Summary:</b> Added support in Facebook.</p> <p>Detection Percentage: 98%</p> <p>Facebook (Android): 547.0.0.41.68</p> <p>Facebook (iOS): 548.0.0</p>
	<p>Improve detection for Google application.</p> <p><b>Change Summary:</b> Added support in google.</p> <p>Detection Percentage: 97.2%</p>

CDETS ID	CDETS Headline/Change Summary
	<p>Google (Android): 17.4.67 Google (iOS): 409</p> <p>Improve detection for Hbomax application. <b>Change Summary:</b> Added support in Hbomax. Detection Percentage: 94.75% Hbomax (Android): 6.17.1.4 Hbomax (iOS): 6.17.2</p> <p>Improve detection for Linkedin application. <b>Change Summary:</b> Added support in linkedin. Detection Percentage: 96.17% Linkedin (Android): 4.1.1165 Linkedin (iOS): 9.1.521</p> <p>Improve detection for Mobile legends application. <b>Change Summary:</b> Added support in mobile legends. Detection Percentage: 97.44% Mobile legends (Android): 2.1.47.11491 Mobile legends (iOS): 2.1.47.1149.1</p> <p>Improve detection for Shahid application. <b>Change Summary:</b> Added support in shahid. Detection Percentage: 91.02% Shahid (Android): 7.116.2 Shahid (iOS): 7.107.0</p> <p>Improve detection for Tiktok application. <b>Change Summary:</b> Added support in tikok. Detection Percentage: 96.68%% Tiktok (Android): 43.9.3 Tiktok (iOS): 43.9.0</p>
CSCwt50075	<p>Improve detection for Speedtest application TCP flows <b>Change Summary:</b> Adding new patterns to support SSL and QUIC flows. Detection Percentage: 98% Speedtest (Android): 6.5.3 Speedtest (iOS): 6.6.1</p>
CSCwt53214	<p>Improve detection for Jaco application <b>Change Summary:</b> Adding support for new UDP flows</p>

CDETS ID	CDETS Headline/Change Summary
	Detection Percentage: 96.40% Jaco (Android): 3.32.1 Jaco (iOS): 3.32.1
CSCwt53175	Improve detection for Telegram application. <b>Change Summary:</b> New encrypted flows supported in telegram. Detection accuracy: 96.93% Telegram (Android): 12.4.1 Telegram (iOS): 12.4.1_2402

## Resolved issues

This table lists resolved issues in this specific software release.

**Note:** This software release may contain bug fixes first introduced in other releases. To see additional information, click the bug ID to access the [Cisco Bug Search Tool](#). To search for a documented Cisco product issue, type in the browser: <bug number> site:cisco.com.

**Table 2.** Resolved issues for ADC P2P Plugin, Release 2.74.16.2789

Bug ID	Description	Product Found
<a href="#">CSCwt63030</a>	Some Google flows are failing to offload as expected	pdn-gw
<a href="#">CSCwt71021</a>	Few App-specific Fragmented QUIC flows are misclassified	pdn-gw
<a href="#">CSCwt55413</a>	Code Optimization: Removal of unused protocol detection in YouTube and MSN	pdn-gw
<a href="#">CSCwt09990</a>	Detect TLS and QUIC CH fragmented packets as separate protocol <b>Note:</b> New P2P <code>tls_quic_ch_frag_detection</code> CLI is introduced. For more information, refer to the <a href="#">Command Line Interface Reference, Modes A - B</a> .	pdn-gw

## Open issues

There are no open issues in this specific software release.

## Known issues

This section describes the known issue that may occur during the upgrade of the ADC plugin image.

### Install and Upgrade Notes

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

## Compatibility

This section provides compatibility information about the P2P package version, and the hardware and software requirements for the Legacy Gateway and CUPS software release.

### Compatible Release package version

**Table 3.** Release package version information

ADC release	StarOS compatible versions
2.74.16.2789	StarOS-2024.02.g0 / StarOS-2024.02.10 / StarOS-2024.03.ga0/ StarOS-2024.02.0 or later releases

**Note:** For any StarOS release prior to those mentioned above, ensure that you use the P2P version 2.73.9.2019 or an earlier version released before April 2024.

### 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).

- 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.

## Related resources

This table provides key resources and links to the support information and essential documentation for StarOS and ADC products.

**Table 4.** Related resources and additional information

Resource	Link
Cisco ADC Administration documentation	<a href="#">ADC Administration Guide</a>
Cisco Command line Interface documentation	<a href="#">Command Line Interface Reference</a>
Service request and additional information	<a href="#">Cisco Support</a>

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