



# Release Notes for Cisco Protocol Pack 65.0.0

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## Overview

Cisco NBAR2 Protocol Pack 65.0.0 release includes the following updates:

- New protocols: google-maps, google-translate
- Improvements to classification of these protocols: bittorrent, capwap, cisco-meraki, edonkey, gmail, google-photos, google-services, ms-office-365, ms-services, netapp-snapmirror
- Deprecated protocols: google-plus, picasa
- Resolved caveats: CSCwe21319, CSCwe63665, CSCwe73044

See [Cisco NBAR2 Protocols](#) for protocol details.

## Supported Platforms and Releases

### Releases Supported for Upgrade

| Platform   | Releases Supported for Upgrade  |
|--|---|
| <b>Routers</b>   |   |
| Cisco ASR 1000 Series Aggregation Services Routers (ASR1000) | Cisco IOS XE Cupertino 17.9.1a and later maintenance releases of 17.9.x |
| Cisco 4000 Series Integrated Services Routers (ISR4000)      | Cisco IOS XE Cupertino 17.9.1a and later maintenance releases of 17.9.x |
| Cisco 1100 Series Integrated Service Routers (ISR1100)       | Cisco IOS XE Cupertino 17.9.1a and later maintenance releases of 17.9.x |
| Cisco Catalyst 8200 Series Edge Platforms                    | Cisco IOS XE Cupertino 17.9.1a and later maintenance releases of 17.9.x |
| Cisco Catalyst 8300 Series Edge Platforms                    | Cisco IOS XE Cupertino 17.9.1a and later maintenance releases of 17.9.x |
| Cisco Catalyst 8500 Series Edge Platforms                    | Cisco IOS XE Cupertino 17.9.1a and later maintenance releases of 17.9.x |
| Cisco Catalyst 8500L Series Edge Platforms                   | Cisco IOS XE Cupertino 17.9.1a and later maintenance releases of 17.9.x |

| Platform                                     | Releases Supported for Upgrade  |
|--|---|
| <b>Switches</b>                              |   |
| Cisco Catalyst 9200 Series Switches          | Cisco IOS XE Cupertino 17.9.1 and later maintenance releases of 17.9.x  |
| Cisco Catalyst 9300 Series Switches          | Cisco IOS XE Cupertino 17.9.1 and later maintenance releases of 17.9.x  |
| Cisco Catalyst 9400 Series Switches          | Cisco IOS XE Cupertino 17.9.1 and later maintenance releases of 17.9.x  |
| Cisco Catalyst IE9300 Rugged Series Switches | Cisco IOS XE Cupertino 17.9.1 and later maintenance releases of 17.9.x  |
| <b>Wireless Controllers</b>                  |   |
| Cisco 9800 Series Wireless Controllers       | Cisco IOS XE Cupertino 17.9.1 and later maintenance releases of 17.9.x  |
| <b>Cisco DNA Appliance</b>                   |   |
| Cisco DNA Traffic Telemetry Appliance        | Cisco IOS XE Cupertino 17.9.1a and later maintenance releases of 17.9.x |
| <b>Software Platforms</b>                    |   |
| Cisco Catalyst 8000V Edge Software           | Cisco IOS XE Cupertino 17.9.1a and later maintenance releases of 17.9.x |

#### Releases with This Protocol Pack Built In

None

## New Protocols

The following protocol(s) were added in NBAR2 Protocol Pack 65.0.0.

| Protocol Name    | Common Name      | Long Description   |
|------------------|------------------|--|
| google-maps      | Google Maps      | Google Maps is a web mapping platform and consumer application offered by Google.  |
| google-translate | Google Translate | Google Translate is a multilingual neural machine translation service developed by Google to translate text, documents, and websites from one language into another. |

## Updated Protocols

The following protocols have been updated to improve accuracy.

bittorent  
 capwap  
 cisco-meraki  
 edonkey  
 gmail  
 google-photos  
 google-services  
 ms-office-365  
 ms-services  
 netapp-snapmirror

## Deprecated Protocols

The following protocol(s) have been deprecated in this release:

| Protocol Name | Long Name | Description  |
|---------------|-----------|--|
| google-plus   | Google+   | Google plus is a social networking web and mobile application provided by Google Inc. It enables the user to open account, invite other friends and sort them into circles. It also has features such as chat, video chat, games, apps, photos sharing and more. |
| picasa        | Picasa    | Picasa is a photo sharing and editing website by Google.   |

## Caveats



**Note** If you have an account on Cisco.com, you can view information on select caveats, using the Bug Search Tool (<https://bst.cloudapps.cisco.com/bugsearch/search>).

### Resolved Caveats in NBAR2 Protocol Pack 65.0.0

The following table lists the caveat(s) resolved in NBAR2 Protocol Pack 65.0.0 (since 64.0.0):

| Caveat                     | Description  |
|----------------------------|--|
| <a href="#">CSCwe21319</a> | netapp-snapmirror traffic is not getting classified correctly              |
| <a href="#">CSCwe63665</a> | Failure to classify capwap keep-alive packets                              |
| <a href="#">CSCwe73044</a> | CDFW L7 firewall rules (NBAR) mis-identifying traffic from Meraki switches |

## Downloading

NBAR2 Protocol Packs are available for download on the Cisco software download page (<https://software.cisco.com/download/home>). On the download page, specify a platform model to display software available for download. One software option will be **NBAR2 Protocol Packs**.

### Example

To display Protocol Packs available for the Cisco ASR 1001 platform, enter "ASR 1001 Router" in the search field.

You can also enter a platform series, such as "ASR 1000 Series," and then select a model from the results.

## Additional References

### Related Documentation

| Related Topic                                       | Document Title  |
|---|---|
| Details of the protocols included in Protocol Packs | <a href="#">Cisco NBAR2 Protocols</a>   |
| Application Visibility and Control                  | <a href="#">Cisco Application Visibility and Control User Guide</a>   |
| Classifying Network Traffic Using NBAR              | <a href="#">Classifying Network Traffic Using NBAR module</a>   |
| NBAR Protocol Pack                                  | <a href="#">NBAR Protocol Pack module</a>   |
| QoS: NBAR Configuration Guide                       | <a href="#">QoS: NBAR Configuration Guide, Cisco IOS XE 17</a><br><a href="#">QoS: NBAR Configuration Guide, Cisco IOS XE Gibraltar 16.12.x</a> |
| QoS Command Reference                               | <a href="#">Quality of Service Solutions Command Reference</a>  |

