



# Release Notes for NBAR2 Protocol Pack 18.0.0

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## Overview

NBAR2 Protocol Pack 18.0.0 provides classification improvements and bug fixes.

- Early DNS decision: Uses DNS traffic to learn server IP addresses and efficiently classify future flows from the first packet.
- Dynamic parser for traffic using the QUIC transport protocol. Provides granular classification of applications using QUIC. Examples: YouTube, Gmail.
- New protocols: QUIC, Mongo and OCSP

## Supported Platforms

NBAR2 Protocol Pack 18.0.0 is supported on the following platforms:

- Cisco ASR 1000 Series Routers
- Cisco ISR 4400 Series Routers

- Cisco ISR Generation 2 Routers

## Supported Releases

NBAR2 Protocol Pack 18.0.0 is supported on the following releases:

Built-in	Supported on Maintenance Releases
-	Cisco IOS XE 3.16.2S Version 15.5(3)S2 and later maintenance releases of 3.16.(x)S/15.5(3)S(x)
	Cisco IOS Version 15.5(3)M2 and later and later maintenance releases of 15.5(3)M(x)

## New Protocols in NBAR2 Protocol Pack 18.0.0

The table below lists the new protocols for NBAR2 Protocol Pack 18.0.0.

Protocol Name	Common Name	Long Description
quic	QUIC	QUIC is a UDP-based protocol developed by Google to accelerate web communications, saving round trip time and protocol overhead incurred by traditional TCP connections. QUIC traffic is always encrypted.
mongo	Mongo	Mongo is a leading NoSQL database designed with both scalability and developer agility in mind. Instead of storing your data in tables and rows as you would with a relational database, MongoDB stores JSON-like documents with dynamic schemas.
ocsp	OCSP	OCSP - Online Certificate Status Protocol

## Updated Protocols in NBAR2 Protocol Pack 18.0.0

The table below lists the protocols updated in NBAR2 Protocol Pack 18.0.0.

Protocol	Updates
cisco-jabber-audio	Updated signatures
cisco-jabber-control	Updated signatures
cisco-jabber-video	Updated signatures

Protocol	Updates
cisco-phone-audio	Updated signatures
cisco-phone-video	Updated signatures
exchange	Updated signatures
http-local	Updated signatures
http	Updated signatures
mysql	Updated signatures
secondlife	Updated signatures
ssl-local	Updated signatures
teredo-ipv6-tunneled	Updated signatures
vmware-vsphere	Updated signatures
webthunder	Updated signatures

## Deprecated Protocols in NBAR2 Protocol Pack 18.0.0

In this release, no protocols have changed status to deprecated.

## Caveats in NBAR2 Protocol Pack 18.0.0



### Note

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

### Resolved Caveats in NBAR2 Protocol Pack 18.0.0

The following table lists the caveats resolved in NBAR2 Protocol Pack 18.0.0:

Resolved Caveat	Description
<a href="#">CSCuy06350</a>	Changed teredo to generic protocol
<a href="#">CSCuy09714</a>	mysql traffic is mis-classified as webthunder
<a href="#">CSCuy11306</a>	RTP audio traffic is mis-classified as Second Life

Resolved Caveat	Description
<a href="#">CSCux74649</a>	RTP-based mis-classifications: Cisco collaboration and vanilla rtp
<a href="#">CSCuy68203</a>	Amazon-web-services traffic is classified as SSL

### Known Caveats in NBAR2 Protocol Pack 18.0.0

The following table lists the known caveats in NBAR2 Protocol Pack 18.0.0:

Known Caveat	Description
<a href="#">CSCuh49380</a>	PCoIP session-priority configuration limitation.
<a href="#">CSCuh53623</a>	Segmented packets are not classified when using NBAR sub classification.
<a href="#">CSCun61772</a>	IPv4 bundles might be used in IPv6 traffic.

## Downloading NBAR2 Protocol Pack 18.0.0

NBAR2 Protocol Packs are available for download on the Cisco.com software download page (<http://www.cisco.com/cisco/software/navigator.html>). 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, the navigation path is:

Products > Routers > Service Provider Edge Routers > ASR 1000 Series Aggregation Services Routers > ASR 1001 Router

## Special Notes and Limitations

Protocol Name	Special Note or Limitation
apple-app-store	Login and a few encrypted sessions are classified as iTunes.
bittorrent	HTTP traffic generated by the bitcomet bittorrent client might be classified as HTTP.
capwap-data	For capwap-data to be classified correctly, capwap-control must also be enabled.
ftp	During configuring QoS class-map with ftp-data, the FTP protocol must be selected. As an alternative, the FTP application group can be selected.

Protocol Name	Special Note or Limitation
hulu	Encrypted video streaming generated by hulu may be classified as its underlying protocol rtmpe.
logmein	Traffic generated by the logmein android app may be classified incorrectly as ssl.
ms-lync	Login and chat traffic generated by the ms-lync client may be classified incorrectly as ssl.
pconnect	Traffic generated by pconnect for mac may be classified as unknown.
perfect-dark	Some perfect-dark sessions may be classified as unknown.
qq-accounts	Login to QQ applications which is not via the internet may not be classified as qq-accounts.
secondlife	Voice traffic generated by secondlife may be classified incorrectly as ssl.
ssl	<p>The Sub Classification (SC) mechanism was modified to include search for wildcard.</p> <p><b>Note</b> The SC rule for the part of the Server Name Indication (SNI) or the common name (CN) can now include a wildcard. If a wildcard is not used, the complete SNI or the CN is required.</p> <p>For example, you can either use, "*.pqr.com" or "abc.pqr.com" to classify abc.pqr.com.</p>

# Additional References

## Related Documentation

Related Topic	Document Title
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</a>
QoS Command Reference	<a href="#">Quality of Service Solutions Command Reference</a>