



Release Notes for NBAR2 Protocol Pack 21.0.0

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Overview

NBAR2 Protocol Pack 21.0.0 provides a new solution for mapping media clients and servers. This solution allows NBAR2 to classify hardware clients and servers from the first packet.

This Protocol Pack is available for specific earlier versions of Cisco IOS and IOS XE, as described in [Supported Releases, on page 2](#).

Supported Platforms

NBAR2 Protocol Pack 21.0.0 is supported on the following platforms:

- Cisco ASR 1000 Series Aggregation Services Routers (ASR1000)
- Cisco 4000 Series Integrated Services Routers (ISR4000)
- Cisco Integrated Services Routers Generation 2 (ISRG2)

Supported Releases

NBAR Protocol Pack 21.0.0 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 maintenance releases of 15.5(3)M(x)

New Protocols in NBAR2 Protocol Pack 21.0.0

The table below indicates the new protocols added in NBAR2 Protocol Pack 21.0.0 (protocols added since 20.0.0).

Protocol Name	Common Name	Long Description
cisco-collab-video	Cisco Collaboration Video	Cisco Collaboration Video by various Cisco Unified Communication clients.
cisco-collab-control	Cisco Collaboration Control	Cisco Collaboration Control messages by various Cisco Unified Communication clients.
cisco-phone-control	Cisco Phone Control	Control flow of Cisco IP phone.

Updated Protocols in NBAR2 Protocol Pack 21.0.0

The table below indicates the protocol(s) updated in NBAR2 Protocol Pack 21.0.0 (protocols updated since 20.0.0).

Protocol	Updates
cisco-collaboration	Updated signatures
cisco-phone	Updated signatures, changed attributes
cisco-phone-media	Changed attributes
cisco-phone-video	Changed attributes
conference-server	Updated signatures
conferencing	Updated signatures

Protocol	Updates
rtcp	Updated signatures
rtp-audio	Updated signatures
sip	Updated signatures
telepresence-audio	Updated signatures
telepresence-media	Updated signatures
telnet	Updated signatures

Deprecated Protocols in NBAR2 Protocol Pack 21.0.0

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

Caveats in NBAR2 Protocol Pack 21.0.0



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>).

Caveats Resolved in NBAR2 Protocol Pack 21.0.0

No caveats were resolved in NBAR2 Protocol Pack 21.0.0 for Cisco IOS Version 15.5(3)M2 and IOS-XE 3.16.2S Version 15.5(3)S2 (since 20.0.0).

Known Caveats in NBAR2 Protocol Pack 21.0.0

The following table lists the known caveats in NBAR2 Protocol Pack 21.0.0 for Cisco IOS Version 15.5(3)M2 and IOS-XE 3.16.2S Version 15.5(3)S2 (since 20.0.0):

Known Caveat	Description
CSCuh49380	PCoIP session-priority configuration limitation.
CSCuh53623	Segmented packets are not classified when using NBAR sub classification.
CSCun61772	IPv4 bundles might be used in IPv6 traffic.

Downloading NBAR2 Protocol Pack 21.0.0

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	Applicable to NBAR2 Protocol Pack 21.0.0 for Cisco IOS Version 15.5(3)M2 and IOS-XE 3.16.2S Version 15.5(3)S2
apple-app-store	Login and a few encrypted sessions are classified as iTunes.	Yes
bittorrent	HTTP traffic generated by the bitcomet bittorrent client might be classified as HTTP.	Yes
capwap-data	For capwap-data to be classified correctly, capwap-control must also be enabled.	Yes
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.	Yes
hulu	Encrypted video streaming generated by hulu may be classified as its underlying protocol rtmpe.	Yes
logmein	Traffic generated by the LogMeIn android app may be classified incorrectly as ssl.	Yes
ms-lync	Login and chat traffic generated by the ms-lync client may be classified incorrectly as ssl.	Yes
pcanywhere	Traffic generated by pcAnywhere for Mac may be classified as unknown.	Yes
perfect-dark	Some perfect-dark sessions may be classified as unknown.	Yes

Protocol Name	Special Note or Limitation	Applicable to NBAR2 Protocol Pack 21.0.0 for Cisco IOS Version 15.5(3)M2 and IOS-XE 3.16.2S Version 15.5(3)S2
qq-accounts	Login to QQ applications which is not via the internet may not be classified as qq-accounts.	Yes
ssl	<p>The Sub Classification (SC) mechanism was modified to include search for wildcard.</p> <p>Note 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>	Yes

Additional References

Related Documentation

Related Topic	Document Title
Application Visibility and Control	Cisco Application Visibility and Control User Guide
Classifying Network Traffic Using NBAR	Classifying Network Traffic Using NBAR module
NBAR Protocol Pack	NBAR Protocol Pack module
QoS: NBAR Configuration Guide	QoS: NBAR Configuration Guide, Cisco IOS XE 3S QoS: NBAR Configuration Guide, Cisco IOS XE 16
QoS Command Reference	Quality of Service Solutions Command Reference