Release Notes for NBAR2 Protocol Pack 22.0.0

Overview

NBAR2 Protocol Pack 22.0.0 adds several improvements to Protocol Pack functionality:

- Improved classification of many client programs through HTTP user-agents.
- New capabilities for classifying clients and servers in the network.
- Separate classification of audio and video for cisco-spark and web-rtc protocols.
- Improved separation of various Google services, using socket-cache mechanism.
- Improvements to host-based signatures.

Supported Platforms

NBAR2 Protocol Pack 22.0.0 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 22.0.0 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 22.0.0

The table below lists the new protocols added in NBAR2 Protocol Pack 22.0.0 (protocols added since 21.0.0).

Protocol Name	Common Name	Long Description
avast-antivirus	Avast Antivirus	Avast Antivirus and security.
cisco-spark-audio	Cisco Spark Audio	Cisco Spark Audio - Audio of unified communications client and SaaS with mobile team communication: group chat, private chat, video calls with screen sharing and file sharing.
cisco-spark-media	Cisco Spark Media	Cisco Spark Media - Media of unified communications client and SaaS with mobile team communication: group chat, private chat, video calls with screen sharing and file sharing.
cisco-spark-video	Cisco Spark Video	Cisco Spark Video - Video of unified communications client and SaaS with mobile team communication: group chat, private chat, video calls with screen sharing and file sharing
ipass	iPass	iPass allow users to connect millions of hotspots around the world.
mcafee-antivirus	McAfee Antivirus	McAfee Antivirus and security.
tus-files	TusFiles	TusFiles is a cloud storage provider for online hosting and sharing of files.
web-rtc	WebRTC	WebRTC provides browsers and mobile applications with Real-Time Communications (RTC) capabilities.

Protocol Name	Common Name	Long Description
web-rtc-audio	WebRTC Audio	WebRTC provides browsers and mobile applications with Real-Time Communications (RTC) capabilities.
web-rtc-video	WebRTC Video	WebRTC provides browsers and mobile applications with Real-Time Communications (RTC) capabilities.
wechat	WeChat	WeChat is a mobile text and voice messaging communication service. The app is available on Android, iPhone, BlackBerry, Windows Phone and Symbian phones.

Deprecated Protocols in NBAR2 Protocol Pack 22.0.0

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

Caveats in NBAR2 Protocol Pack 22.0.0

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 22.0.0

The following table lists the caveats resolved in NBAR2 Protocol Pack 22.0.0 (since 21.0.0):

Known Caveat	Description
CSCva26298	Socket cache entry causes YouTube classification.
CSCva18641	SIP traffic port 5061 is classified as unknown.
CSCva23181	IMAP protocol does not receive final classification.
CSCva30089	NBAR attributes are not supported for static protocols.
CSCuz03729	DNS parser skips on additional records which include valid A and AAA.

Known Caveats in NBAR2 Protocol Pack 22.0.0

The following table lists the known caveats in NBAR2 Protocol Pack 22.0.0:

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 22.0.0

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

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