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Juniper Networks Deep Packet Inspection-Decoder (Application Signature) Release Notes

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RELEASE

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Recent Release History

summarizes the features and resolved issues in recent releases. You can use this table to help you decide to update the JDPI-Decoder version in your deployment.

Table 1: JDPI-Decoder Features and Resolved Issues by Release

Release Date	Signature Pack Version	JDPI Decoder Version	Engine Version 5	Micro App Infra Version	Custom App Infra Version	CASB App Version	Features and Resolved Issues
July 05, 2024	The relevant signature package version is 3720.	1.550.2-43	5.7.1-47	1.2.0-1	1.0.0-1	3.1.4-1	This JDPI-Decoder version is supported only on the Junos OS 19.2R1 and later releases on all supported SRX Series platforms. Starting in Junos OS release 20.1R1, enhancements to custom applications are included in the JDPI-Decoder release.

Overview

The JDPI-Decoder is a dynamically loadable module that mainly provides application classification functionality and associated protocol attributes. It is hosted on an external server and can be downloaded as a package and installed on the device. The package also includes XML files that contain additional details of the list of applications and groups. The list of applications can be viewed on the device using the CLI command `show services application-identification application summary`. Additional details of any particular application can be viewed on the device using the CLI command `show services application-identification application detail <application>`. For additional details, see Application Signature.

> **NOTE**: This application signature package does not support v4 engines. This upgrade is only supported on Junos OS 19.2R1 and later releases which support the v5 engine. This signature

package is not compatible with Junos OS releases supporting v4 engine. There are no more updates planned for PB1.460.2-46 for Junos OS releases supporting v4 engine.

New Features and Enhancements

IN THIS SECTION

New Applications

There are no new applications supported in this release of JDPI-Decoder.

Updated Applications

There are no application updates in this release of JDPI-Decoder.

Cloud Access Security Broker – CASB

Cloud Access Security Broker (CASB) is a new L7 service that provides inline application activity control. CASB helps organizations to protect and control access to cloud applications. The administrator can add "casb-policies" and respective rules attached to these policies to have complete granular control on the access of the user(s) over various SaaS applications, and the supported activities.

The following are the applications and activities in this release:

Application Name	Activities	Application Description
Box	Login, Upload, Download, Share	Box is a web-based file sharing application used to share files and documents with friends, family, and coworkers.
Dropbox	Login, Upload, Download, Share	Dropbox is a cloud-based file sharing service that allows sharing of files across various platforms.
Salesforce	Login, Upload, Download, Share	Salesforce is a Customer Relationship Management (CRM) application.
Google Docs	Login, Upload, Download, Share	Google Docs is the online file storage and sharing web service by Google.
OneDrive	Login, Upload, Download, Share	OneDrive is a file hosting service by Microsoft for corporate users.
SharePoint	Login, Upload, Download, Share	Sharepoint is a web-based content/document management and collaboration software from Microsoft.
Slack	Login, Chat, Audio/Video, File Transfer (send/receive)	Slack is an online team collaboration tool.
Gmail	Login, Send, Read, Compose, File Attachment	Gmail is Google's web-based email.
Microsoft OneDrive (personal)	Login, Upload, Download, Share	OneDrive Personal is a file-hosting service by Microsoft for personal use.
Microsoft GitHub	Login, Create, Upload, Download, View, CreateRepo	GitHub is a web-based code repository for open source software development.
Amazon S3	Create, Upload, Download, Delete	Amazon S3 is a web-based cloud storage service by Amazon.

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Application Name	Activities	Application Description
Amazon EFS	Create, Upload, Download, Delete, Edit	EFS is a file-level, fully managed storage provided by AWS.
MS Teams	Login, Chat, Audio/Video, File Transfer (send/receive)	Microsoft Teams is the chat-based workspace in Office 365.

NOTE: CASB supports additional activity parameters for granular control inside a policy. Currently, only Share activity supports an additional parameter named "share-domain".

New or Modified Application Groups

The following table contains information about the new or modified application groups. It is applicable only for Junos OS Release 24.2R1 and later.

Group Name	Group Description	Application Details
CASB-MS_TEAMS-GROUP	Group containing applications related to MS Teams app, which is useful for MSTEAMS CASB detection.	MS-TEAMS, MICROSOFT, SHAREPOINT-CALENDAR, MS-TEAMS-CHAT, MS-TEAMS-AUDIO, MS-TEAMS-VIDEO, MS-TEAMS-FILE-TRANSFER
CASB-AMAZONEFS-GROUP	Group containing applications related to Amazon EFS app, which is useful for AMAZONEFS CASB detection.	AMAZON-AWS
CASB-AMAZONS3-GROUP	Group containing applications related to Amazon S3 app, which is useful for AMAZONS3 CASB detection.	AMAZON, AMAZON-COGNITO

(Continued)

Group Name	Group Description	Application Details
CASB-GITHUB-GROUP	Group containing applications related to GitHub app, which is useful for GITHUB CASB detection.	GITHUB
CASB-SLACK-GROUP	Group containing applications related to Slack app, which is useful for SLACK CASB detection.	SLACK, SLACK-CHAT, SLACK-AUDIO, SLACK-VIDEO, SLACK-UPLOAD, SLACK-DOWNLOAD
CASB-ONEDRIVEPERSONAL-GROUP	Group containing applications related to OneDrive app, which is useful for ONEDRIVE_PERSONAL CASB detection.	SHAREPOINT-ADMIN
CASB-SHAREPOINT-GROUP	Group containing applications related to SharePoint app, which is useful for SHAREPOINT CASB detection.	SHAREPOINT
CASB-ONEDRIVE-GROUP	Group containing applications related to OneDrive app, which is useful for ONEDRIVE CASB detection.	SHAREPOINT-BLOG, SHAREPOINT-DOCUMENT,
CASB-GMAIL-GROUP	Group containing applications related to Gmail app, which is useful for GMAIL CASB detection.	GOOGLE-CODE, GOOGLE-TRANSLATE, YOUTUBE-KIDS, GOOGLE-BLOG, GOOGLE-ACCOUNTS
CASB-GOOGLEDOCS-GROUP	Group containing applications related to GoogleDocs app, which is useful for GOOGLE_DOCS CASB detection.	GOOGLE-GEN, GMAIL, GOOGLE-NEWS, GOOGLE-TAKEOUT
CASB-SALESFORCE-GROUP	Group containing applications related to Salesforce app, which is useful for SALESFORCE CASB detection.	SALESFORCE, SALESFORCE-CHATTER, SALESFORCE-LOGIN, SALESFORCE-UPLOAD, SALESFORCE-DOWNLOAD

(Continued)

Group Name	Group Description	Application Details
CASB-DROPBOX-GROUP	Group containing applications related to Dropbox app, which is useful for DROPBOX CASB detection.	DROPBOX-CLEAR, DROPBOX-LOGIN, DROPBOX-SHARE, DROPBOX-UPLOAD, DROPBOX-DOWNLOAD
CASB-BOX-GROUP	Group containing applications related to Boxnet app, which is useful for BOXNET CASB detection.	BOXDOTNET, BOXDOTNET-LOGIN, BOXDOTNET-SHARE, BOXDOTNET-UPLOAD, BOXDOTNET-DOWNLOAD

Obsolete Applications

There are no changes in the Obsolete applications list in this release.

Resolved Issues

There are no resolved issues in this release.

Requesting Technical Support

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Technical product support is available through the Juniper Networks Technical Assistance Center (JTAC). If you are a customer with an active J-Care or Partner Support Service support contract, or are covered under warranty, and need post-sales technical support, you can access our tools and resources online or open a case with JTAC.

- JTAC policies—For a complete understanding of our JTAC procedures and policies, review the *JTACUser Guide* located at https://www.juniper.net/us/en/local/pdf/resource-guides/7100059-en.pdf.

- Product warranties—For product warranty information, visit http://www.juniper.net/support/warranty/.

- JTAC hours of operation—The JTAC centers have resources available 24 hours a day, 7 days a week, 365 days a year.

Self-Help Online Tools and Resources

For quick and easy problem resolution, Juniper Networks has designed an online self-service portal called the Customer Support Center (CSC) that provides you with the following features:

- Find CSC offerings: https://www.juniper.net/customers/support/

- Search for known bugs: https://prsearch.juniper.net/

- • Find product documentation: https://www.juniper.net/documentation/

- • Find solutions and answer questions using our Knowledge Base: https://kb.juniper.net/

- Download the latest versions of software and review release notes: https://www.juniper.net/customers/csc/software/

- Search technical bulletins for relevant hardware and software notifications: https://kb.juniper.net/InfoCenter/

- Join and participate in the Juniper Networks Community Forum: https://www.juniper.net/company/communities/

- Create a service request online: https://myjuniper.juniper.net

To verify service entitlement by product serial number, use our Serial Number Entitlement (SNE) Tool: https://entitlementsearch.juniper.net/entitlementsearch/

Creating a Service Request with JTAC

You can create a service request with JTAC on the Web or by telephone.

- Visit https://myjuniper.juniper.net.

- Call 1-888-314-JTAC (1-888-314-5822 toll-free in the USA, Canada, and Mexico).

For international or direct-dial options in countries without toll-free numbers, see https://support.juniper.net/support/requesting-support/.

Revision History

- July 05, 2024—Revision 1, JDPI-Decoder Release Notes.