

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

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RELEASE

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Recent Release History

[Table 1 on page 1](#) 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	Micro App Infra Version	Custom App Infra Version	CASB App Version	Features and Resolved Issues
April 04, 2025	The relevant signature package version is 3796.	1.550.2-55	5.7.0-62	1.2.0-1	1.0.0-1	3.1.4-2	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

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New Applications

The following table contains information about the new applications in this release of JDPI-Decoder.

Sr. No.	Application Name	Application Type	Reported Over	Description
1	COOX	Infrastructure	TCP	Ordinal Coox is a Manufacturing Execution System. This plugin classifies the Coox specific protocol.
2	IBM-ISERIES	Infrastructure	TCP	Communication protocol used by some IBM iSeries (AS/400) i Access Servers.
3	ZNTRICHTER-PAC	Infrastructure	TCP	Administration protocol used by ZNT-Richter Process Automation Controller (PAC) applications.
4	DAHUA	Web	TCP	This plugin classifies the Dahua DVRIP control protocols and P2P discovery used by the Lorex N882 Series NVR and the NR900X series DVR devices.
5	BMI-GFORCE	Infrastructure	TCP	BMI G-Force Plus RF is a device for managing forklifts.

6	PUREWAVE-UPS	Infrastructure	TCP	Control protocol for the S&C Purewave UPS system.
7	GFMS	Infrastructure	TCP	GFMS is a Security Asset Manager software from Key Systems Inc. This plugin classifies unsecure XML traffic between GFMS and SAMs device.
8	MILLER-CENTERPOINT	Infrastructure	TCP	Miller Insight Centerpoint is a welding station real time data collector. This plugin classify communications with several Miller welding stations.
9	MTCONNECT	Infrastructure	HTTP	MTConnect is a standard protocol (ANSI/MTC1.4-2018) and semantic for manufacturing equipment.
10	OMRON-NBDESIGNER	Infrastructure	UDP	This plugin classifies project upload from NBDesigner software to a compliant Omron Programmable Terminal.
11	SILOTRACK	Infrastructure	TCP	SiloTrack is the management software for Monitor Technologie industrial devices to measure material level in a silo or a vessel tank. This plugin classifies the ciphered on TCP/3451 communications between the client and the server connected to the device.
12	IBM-AS-NETPRT	Infrastructure	TCP	Network printing protocol for IBM iSeries (AS/400) i Access Servers.
13	ZEBRA-RFID	Infrastructure	TCP	Protocol used for communication with Zebra RFID readers.
14	IBM-AS-FILE	Infrastructure	TCP	Communication protocol for the file server on IBM iSeries (AS/400) i Access Servers.
15	IBM-AS-CENTRAL	Infrastructure	TCP	Communication protocol for the "central" server on IBM iSeries (AS/400) i Access Servers.

16	EPSON-EASYMP	Remote-access	TCP	Epson EasyMP is a control and projection software for Epson video projectors.
17	IBM-AS-DTAQ	Infrastructure	TCP	Communication protocol for the Data Queue server on IBM iSeries (AS/400) i Access Servers.
18	IBM-AS-DATABASE	Infrastructure	TCP	SQL, NDB or ROI Database access protocol for IBM iSeries (AS/400) i Access servers.
19	MELSEC	Infrastructure	TCP	Melsec is a range of PLC by Mitsubishi. This plugin classifies communications with GX Works for a Melsec-Q device.
20	PRIMION	Infrastructure	TCP	Primion Time and attendance solutions offer employee and room time monitoring software and hardware. This plugin classify traffic from ADT and DT devices.
21	DBISAM	Infrastructure	TCP	Elevate Software DBISAM is a database server designed to be embedded in other software products.
22	INTERFLEX	Infrastructure	TCP	Interflex is a provider of access control and workforce management hardware. Protocol used for communicating with some Interflex IF-40xx Terminal Controllers.
23	SHDR	Infrastructure	TCP	Simple Hierarchical Data Representation (SHDR) is a protocol used between the Adapter and Agent in an MTConnect industrial setup.
24	LLRP	Infrastructure	TCP	Protocol used for communication with RFID readers.
25	IQ-CAN	Infrastructure	TCP	iQ-CAN is a control software for Automated Vehicles in factories from Savant Automation (AGV).
26	CIMCO-DNCMAX	Infrastructure	TCP	Cimco DNC-Max is a software solution to manage multiple DNC transfer to multiple CNC machines.

27	IBM-AS-RMTCMD	Infrastructure	TCP	Communication protocol for Remote Command and program call server on IBM iSeries (AS/400) i Access Servers.
28	HONEYWELL-SMARTTE	Infrastructure	TCP	SmartTE is used for managing some Honeywell wireless terminals and thin clients.
29	JATEN-AGV	Infrastructure	TCP	Jaten is a Chinese provider of AGV robots. This plugin classifies network remote control protocol of their AGV.
30	ROCKWELL-THINMANAGER	Infrastructure	TCP	Protocol used for by Rockwell ThinManager for passing configuration parameters to compatible thin clients.
31	GESTOR	Infrastructure	TCP	Gestor, edited by GFI now Inetum, is an employee time tracking solution. This plugin classifies some GFI time clock device associated with Gestor.

Updated Applications

The following table contains information about the updated applications in this release of JDPI-Decoder.

Sr. No.	Application Name	Application Type	Reported Over	Description
1	GOOGLE-DOCS	Web	HTTP	This signature detects Google Docs, which is a web-based file sharing application that is used for sharing documents so that coworkers can work on projects together.
2	SHAREPOINT	Web	HTTP	This signature detects access to a SharePoint server, a web-based content/document management and collaboration software from Microsoft.
3	DNS	Infrastructure	TCP	This signature detects Domain Name System (DNS), which is used for Internet mail and host address support.
4	FLEXERA	Infrastructure	HTTP	This plugin classifies FLEXNet license servers and Flexera website.

5	ZEBRA-ZPL	Infrastructure	TCP	Zebra Programming Language (ZPL) is used to control some Zebra label printers.
6	LINKEDIN	Web	HTTP	This signature detects LinkedIn, which is a Web-based social networking application used to keep in contact with business professionals.
7	KEYENCE-BARECODE	Infrastructure	TCP	This plugin classifies the control protocol of Keyence Barcode scanners, that is also used by AutoID Network Navigator, their setup software.
8	IWAREHOUSE	Infrastructure	TCP	iWarehouse is a fleet and warehouse management from Raymond Corporation, a forklift manufacturer, part of Toyota. This plugin classifies the protocol of the on-board device, named Monitor.
9	MERCURY-MSP	Infrastructure	TCP	This plugin classifies Mercury Security controllers communication protocol with TLS disabled. Mercury security controllers manage physical access control (doors and card readers) to buildings.
10	PI-DATA	Infrastructure	TCP	OSI PI DataArchive and Server SCADA protocol (ProcessBook, Datalink, etc.).

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-OFFICE365-EXCEL-GROUP	Group containing applications related to Office365 Excel app, which is useful for OFFICE365-EXCEL CASB detection.	OWA, ONEDRIVE, SHAREPOINT, MICROSOFT, OFFICE-DOCS, SHAREPOINT-ADMIN, SHAREPOINT-BLOG, SHAREPOINT-CALENDAR, SHAREPOINT-DOCUMENT, SHAREPOINT-ONLINE

CASB-OFFICE365-WORD-GROUP	Group containing applications related to Office365 Word app, which is useful for OFFICE365-WORD CASB detection.	OWA, ONEDRIVE, SHAREPOINT, MICROSOFT, OFFICE-DOCS, SHAREPOINT-ADMIN, SHAREPOINT-BLOG, SHAREPOINT-CALENDAR, SHAREPOINT-DOCUMENT, SHAREPOINT-ONLINE
CASB-OFFICE365-POWERPOINT-GROUP	Group containing applications related to Office365 PowerPoint app, which is useful for OFFICE365-POWERPOINT CASB detection.	OWA, ONEDRIVE, SHAREPOINT, MICROSOFT, OFFICE-DOCS, SHAREPOINT-ADMIN, SHAREPOINT-BLOG, SHAREPOINT-CALENDAR, SHAREPOINT-DOCUMENT, SHAREPOINT-ONLINE
CASB-GOOGLESHEETS-GROUP	Group containing applications related to GoogleSheets app, which is useful for GOOGLESHEETS CASB detection.	GOOGLE-DOCS, GOOGLE-GEN, GOOGLE, GMAIL, GOOGLE-NEWS, GOOGLE-TAKEOUT, GOOGLE-CALENDAR, GOOGLE-WEBLIGHT, GOOGLE-EARTH, GOOGLE-SUPL, GOOGLE-CODE, GOOGLE-TRANSLATE, YOUTUBE-KIDS, YOUTUBE, GOOGLE-BLOG, GOOGLE-ACCOUNTS, GOOGLE-SPRAYSCAPE, GOOGLE-ONE, GOOGLE-PLUS, GOOGLE-ADS, GOOGLE-PHOTOS, GOOGLE-BOOKS, GOOGLE-TAGS, GOOGLE-MESSAGES, GOOGLE-TOOLBAR, GOOGLEBOT, GOOGLE-STADIA, YOUTUBE-MUSIC, GOOGLE-VIDEO, GOOGLE-SPACES, GSUITE, GOOGLE-SKYMAP, GOOGLE-API, GOOGLE-APPENGINE, GOOGLE-CLASSROOM, GOOGLE-PAY, GOOGLE-TRUSTED-STORE, GOOGLE-MAPS, GOOGLE-CACHE, GOOGLE-PLAY-MUSIC, GOOGLE-LOCALGUIDES, GMAIL-BASIC, GMAIL-DRIVE, GMAIL-MOBILE, GCP
CASB-GOOGLESLIDES-GROUP	Group containing applications related to GoogleSlides app, which is useful for GOOGLESLIDES CASB detection.	GOOGLE-DOCS, GOOGLE-GEN, GOOGLE, GMAIL, GOOGLE-NEWS, GOOGLE-TAKEOUT, GOOGLE-CALENDAR, GOOGLE-WEBLIGHT, GOOGLE-EARTH, GOOGLE-SUPL, GOOGLE-CODE, GOOGLE-TRANSLATE, YOUTUBE-KIDS, YOUTUBE,

		GOOGLE-BLOG, GOOGLE-ACCOUNTS, GOOGLE-SPRAYSCAPE, GOOGLE-ONE, GOOGLE-PLUS, GOOGLE-ADS, GOOGLE-PHOTOS, GOOGLE-BOOKS, GOOGLE-TAGS, GOOGLE-MESSAGES, GOOGLE-TOOLBAR, GOOGLEBOT, GOOGLE-STADIA, YOUTUBE-MUSIC, GOOGLE-VIDEO, GOOGLE-SPACES, GSUITE, GOOGLE-SKYMAP, GOOGLE-API, GOOGLE-APPENGINE, GOOGLE-CLASSROOM, GOOGLE-PAY, GOOGLE-TRUSTED-STORE, GOOGLE-MAPS, GOOGLE-CACHE, GOOGLE-PLAY-MUSIC, GOOGLE-LOCALGUIDES, GMAIL-BASIC, GMAIL-DRIVE, GMAIL-MOBILE, GCP
CASB-GOOGLE-DRIVE-GROUP	Group containing applications related to GoogleDrive app, which is useful for GOOGLEDRAVE CASB detection.	GOOGLE-DOCS, GOOGLE-GEN, GOOGLE, GMAIL, GOOGLE-NEWS, GOOGLE-TAKEOUT, GOOGLE-CALENDAR, GOOGLE-WEBLIGHT, GOOGLE-EARTH, GOOGLE-SUPL, GOOGLE-CODE, GOOGLE-TRANSLATE, YOUTUBE-KIDS, YOUTUBE, GOOGLE-BLOG, GOOGLE-ACCOUNTS, GOOGLE-SPRAYSCAPE, GOOGLE-ONE, GOOGLE-PLUS, GOOGLE-ADS, GOOGLE-PHOTOS, GOOGLE-BOOKS, GOOGLE-TAGS, GOOGLE-MESSAGES, GOOGLE-TOOLBAR, GOOGLEBOT, GOOGLE-STADIA, YOUTUBE-MUSIC, GOOGLE-VIDEO, GOOGLE-SPACES, GSUITE, GOOGLE-SKYMAP, GOOGLE-API, GOOGLE-APPENGINE, GOOGLE-CLASSROOM, GOOGLE-PAY, GOOGLE-TRUSTED-STORE, GOOGLE-MAPS, GOOGLE-CACHE, GOOGLE-PLAY-MUSIC, GOOGLE-LOCALGUIDES, GMAIL-BASIC, GMAIL-DRIVE, GMAIL-MOBILE, GCP

CASB-INSTAGRAM-GROUP	Group containing applications related to Instagram app, which is useful for INSTAGRAM CASB detection.	INSTAGRAM
CASB-ZOOM-GROUP	Group containing applications related to Zoom app, which is useful for ZOOM CASB detection.	ZOOM
CASB-FACEBOOK-GROUP	Group containing applications related to Facebook app, which is useful for FACEBOOK CASB detection.	FACEBOOK-ACCESS
CASB-TELEGRAM-GROUP	Group containing applications related to Telegram app, which is useful for TELEGRAM CASB detection.	TELEGRAM
CASB-AMAZON-ELASTIC-CACHE-GROUP	Group containing applications related to Amazon Elastic Cache app, which is useful for AMAZON-ELASTIC-CACHE CASB detection.	AMAZON
CASB-AMAZON-S3-GLACIER-GROUP	Group containing applications related to Amazon S3 Glacier app, which is useful for AMAZON-S3-GLACIER CASB detection.	AMAZON
CASB-AMAZON-S3-OUTPOSTS-GROUP	Group containing applications related to Amazon S3 Outposts app, which is useful for AMAZON-S3-OUTPOSTS CASB detection.	AMAZON
CASB-GOOGLE-CLOUD-STORAGE-GROUP	Group containing applications related to Google Cloud Storage app, which is useful for GOOGLE-CLOUD-STORAGE CASB detection.	GCS
CASB-IBM-FILE-STORAGE-GROUP	Group containing applications related to IBM File Storage app, which is useful for IBM-FILE-STORAGE CASB detection.	IBM

CASB-RACKSPACE-CLOUD-FILES-GROUP	Group containing applications related to Rackspace Cloud Files app, which is useful for RACKSPACE-CLOUD-FILES CASB detection.	RACKSPACE
CASB-ZOHO-DOCS-GROUP	Group containing applications related to Zoho Docs app, which is useful for ZOHO-DOCS CASB detection.	ZOHO-NOTEBOOK
CASB-CITRIX-SHAREFILE-GROUP	Group containing applications related to Citrix Sharefile app, which is useful for CITRIX-SHAREFILE CASB detection.	CITRIX
CASB-EGNYTE-GROUP	Group containing applications related to Egnyte app, which is useful for EGNYTE CASB detection.	EGNYTE

Obsolete Applications

The following is the obsolete application in this release.

Application Name	Specific Reason	Description
LINKEDIN-POST	This application is deprecated and no longer supported.	Content shared through the LinkedIn feed.

Obsolete Contexts

The following is the obsolete context in this release.

Context	Specific Reason	Description
ssl-version	Use ssl-protocol-version context instead of ssl-version	<p>ssl-protocol-version context must be used for detecting SSL/TLS protocol version (decimal formatted) chosen by the server.</p> <p>Example: For detecting custom applications based on TLS version 1.2, the pattern should be configured as 771 (TLS1.2 == 0x303 == 771)</p>

Resolved Issues

The following issues have been resolved:

Group Name	Group Description
1747286	iWAREHOUSE (iMONITOR) application being identified as UNKNOWN
1748926	AppID Keyence-barcode 9005_TCP is showing as UNKNOWN
1751506	Seen lcore dump during L7 horizontal testing
1818030	AppID application name is displaying as UNKNOWN instead of FTP
1825182	UTM Content filtering is not blocking files based on filetype over FTP protocol
1851144	AppID FlexLm 2556_TCP is showing as UNKNOWN
1853008	An anomaly appeared in traffic on port 80 was being detected as PPSTREAM.

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 *JTAC User 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

- April 04, 2025—Revision 1, JDPI Release Notes.

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