

IDP Detector Engine Release Notes

September 23, 2020

Contents	Recent Release History 2
	IDP Detector Engine Overview 9
	Understanding IDP Detector Engine Version Numbers 11
	Displaying the IDP Detector Engine Version Number 11
	Using NSM to Display the Detector Engine Version 12
	Using the IDP OS CLI to Display the Detector Engine Version 12
	Using the Junos OS CLI to Display the Detector Engine Version 13
	Using the ScreenOS CLI to Display the Detector Engine Version 13
	Using Security Director Application to Display the Detector Engine Version 14
	Updating the IDP Detector Engine 14
	Using NSM to Update the Detector Engine Software 15
	Using the Junos OS CLI to Update the Detector Engine Software 15
	Using J-Web to Update the Detector Engine Software 16
	Troubleshooting an IDP Detector Engine Update 16
	Reverting the IDP Detector Engine Version 17
	Resolved Issues 17
	Requesting Technical Support 17
	Self-Help Online Tools and Resources 18
	Creating a Service Request with JTAC 18
	Revision History 19

Recent Release History

The following table summarizes the features and resolved issues in recent releases. You can use this table to help you decide to update the IDP detector engine version in your deployment.

Table 1: IDP Detector Engine Features and Resolved Issues by Release

Release Date	Detector Engine Version	Signature Package Version	Features and Resolved Issues
September 23, 2020	IDP OS <ul style="list-style-type: none"> • 5.1.110170603 Junos OS <ul style="list-style-type: none"> • 12.6.130200828 • 12.6.140200828 • 12.6.160200828 • 12.6.180200828 ScreenOS <ul style="list-style-type: none"> • 3.5.141818 	The relevant signature package version is 3317.	Service release for IDP OS, Junos OS, and ScreenOS platforms.

Table 1: IDP Detector Engine Features and Resolved Issues by Release (*continued*)

Release Date	Detector Engine Version	Signature Package Version	Features and Resolved Issues
July 23, 2019	IDP OS <ul style="list-style-type: none"> • 5.1.110170603 Junos OS <ul style="list-style-type: none"> • 12.6.130190722 • 12.6.140190722 • 12.6.160190722 • 12.6.180190722 ScreenOS <ul style="list-style-type: none"> • 3.5.141818 	The relevant signature package version is 3191.	<p>Service release for IDP OS, Junos OS, and ScreenOS platforms.</p> <p>This release introduces the following new contexts to generate a specific context field:</p> <ul style="list-style-type: none"> • http-header-x-forwarded-for • http-header-x-forwarded-host • http-header-x-forwarded-proto • smtp-header-x-originating-ip <p>You can use these new contexts for the predefined http-header signatures. Earlier, the http-header context is used to generate a generic context field.</p> <p>If the custom signatures use http-header context for X-Forwarded-For, X-Forwarded-Host, and X-Forwarded-Proto, then you must modify the signatures to use the new contexts.</p> <p>There is no impact on the existing signatures for SMTP contexts.</p>
April 23, 2019	IDP OS <ul style="list-style-type: none"> • 5.1.110170603 Junos OS <ul style="list-style-type: none"> • 12.6.130190309 • 12.6.140190309 • 12.6.160190309 • 12.6.180190309 ScreenOS <ul style="list-style-type: none"> • 3.5.141818 	The relevant signature package version is 3164.	Service release for IDP OS, Junos OS, and ScreenOS platforms.

Table 1: IDP Detector Engine Features and Resolved Issues by Release (*continued*)

Release Date	Detector Engine Version	Signature Package Version	Features and Resolved Issues
October 17, 2018	IDP OS <ul style="list-style-type: none"> • 5.1.110170603 Junos OS <ul style="list-style-type: none"> • 12.6.130180509 • 12.6.140180509 • 12.6.160180509 • 12.6.180180521 ScreenOS <ul style="list-style-type: none"> • 3.5.141818 	The relevant signature package version is 3110.	Service release for IDP OS, Junos OS, and ScreenOS platforms.
October 08, 2018	IDP OS <ul style="list-style-type: none"> • 5.1.110170603 Junos OS <ul style="list-style-type: none"> • 12.6.130181002 • 12.6.140181002 • 12.6.160181002 • 12.6.180181002 ScreenOS <ul style="list-style-type: none"> • 3.5.141818 	-	Service release for IDP OS, Junos OS, and ScreenOS platforms. This release introduces new DNS service context dns-flags . Predefined signatures that matches flags of a DNS request or response. In this release, the http-text-html-body and http-text-html-tag services contexts are deprecated.
June 28, 2018	IDP OS <ul style="list-style-type: none"> • 5.1.110170603 Junos OS <ul style="list-style-type: none"> • 12.6.130180509 • 12.6.140180509 • 12.6.160180509 ScreenOS <ul style="list-style-type: none"> • 3.5.141818 	-	Service release for IDP OS, Junos OS, and ScreenOS platforms.

Table 1: IDP Detector Engine Features and Resolved Issues by Release (*continued*)

Release Date	Detector Engine Version	Signature Package Version	Features and Resolved Issues
November 30, 2017	IDP OS <ul style="list-style-type: none"> ● 5.1.110170603 Junos OS <ul style="list-style-type: none"> ● 12.6.130171124 ● 12.6.140171124 ● 12.6.160171124 ScreenOS <ul style="list-style-type: none"> ● 3.5.141818 	-	Service release for IDP OS, Junos OS, and ScreenOS platforms.
November 21, 2017	IDP OS <ul style="list-style-type: none"> ● 5.1.110170929 Junos OS <ul style="list-style-type: none"> ● 12.6.140170929 ● 12.6.130170929 ● 12.6.160170929 ScreenOS <ul style="list-style-type: none"> ● 3.5.141871 	-	Service release for IDP OS, Junos OS, and ScreenOS platforms.
June 29, 2017	IDP OS <ul style="list-style-type: none"> ● 5.1.110170603 Junos OS <ul style="list-style-type: none"> ● 12.6.160170603 ● 12.6.140170603 ● 12.6.130170603 ScreenOS <ul style="list-style-type: none"> ● 3.5.141818 	-	Service release for IDP OS, Junos OS, and ScreenOS platforms.

Table 1: IDP Detector Engine Features and Resolved Issues by Release (*continued*)

Release Date	Detector Engine Version	Signature Package Version	Features and Resolved Issues
November 03, 2016	IDP OS <ul style="list-style-type: none"> • 5.1.110161014 Junos OS <ul style="list-style-type: none"> • 12.6.160161014 • 12.6.140161014 • 12.6.130161014 ScreenOS <ul style="list-style-type: none"> • 3.5.141652 	-	Service release for IDP OS, Junos OS, and ScreenOS platforms. Starting this release, the IDP detector engine supports SRX4100 and SRX4200 platforms.
June 21, 2016	IDP OS <ul style="list-style-type: none"> • 5.1.110160603 Junos OS <ul style="list-style-type: none"> • 12.6.160160603 • 12.6.150160603 • 12.6.140160603 • 12.6.130160603 ScreenOS <ul style="list-style-type: none"> • 3.5.141597 	-	Service release for IDP OS, Junos OS, and ScreenOS platforms.
December 10, 2015	IDP OS <ul style="list-style-type: none"> • 5.1.110151117 Junos OS <ul style="list-style-type: none"> • 12.6.160151117 • 12.6.150151117 • 12.6.140151117 • 12.6.130151117 ScreenOS <ul style="list-style-type: none"> • 3.5.141455 	-	Service release for IDP OS, Junos OS, and ScreenOS platforms.

Table 1: IDP Detector Engine Features and Resolved Issues by Release (*continued*)

Release Date	Detector Engine Version	Signature Package Version	Features and Resolved Issues
October 8, 2015	IDP OS <ul style="list-style-type: none"> • 5.1.110151004 Junos OS <ul style="list-style-type: none"> • 12.6.160151004 • 12.6.150151004 • 12.6.140151004 • 12.6.130151004 Screen OS <ul style="list-style-type: none"> • 3.5.141421 	-	Service release for IDP OS, Junos OS, and ScreenOS platforms.
June 25, 2015	IDP OS <ul style="list-style-type: none"> • 5.1.110150609 Junos OS <ul style="list-style-type: none"> • 12.6.160150609 • 12.6.150150609 • 12.6.140150609 • 12.6.130150609 Screen OS <ul style="list-style-type: none"> • 3.5.141332 	-	Service release for IDP OS, Junos OS, and ScreenOS platforms.
September 10, 2014	IDP OS <ul style="list-style-type: none"> • 5.1.110140822 Junos OS <ul style="list-style-type: none"> • 12.6.160140822 • 12.6.150140822 • 12.6.140140822 • 12.6.130140822 Screen OS <ul style="list-style-type: none"> • 3.5.140842 	-	Service release for IDP OS, Junos OS, and ScreenOS platforms.

Table 1: IDP Detector Engine Features and Resolved Issues by Release (*continued*)

Release Date	Detector Engine Version	Signature Package Version	Features and Resolved Issues
June 17, 2014	IDP OS <ul style="list-style-type: none"> ● 5.1.110140603 Junos OS <ul style="list-style-type: none"> ● 12.6.160140603 ● 12.6.150140603 ● 12.6.140140603 ● 12.6.130140603 ScreenOS <ul style="list-style-type: none"> ● 3.5.140733 	-	Feature release. This release introduces new HTTP service contexts http-flash , http-ole , and http-pdf . Predefined signatures that used to use the http-data context to detect Flash, OLE, and PDF files have been rewritten to use the new context. If you have created custom signatures to detect Flash, OLE, or PDF, we recommend you rewrite your signatures to use the new, simpler contexts.
February 11, 2014	IDP OS <ul style="list-style-type: none"> ● 5.1.110140207 Junos OS <ul style="list-style-type: none"> ● 12.6.160140207 ● 12.6.150140207 ● 12.6.140140207 ● 12.6.130140207 ScreenOS <ul style="list-style-type: none"> ● 3.5.140407 	-	Service release for IDP OS, Junos OS, and ScreenOS platforms.
November 26, 2013	IDP OS <ul style="list-style-type: none"> ● 5.1.110131122 Junos OS <ul style="list-style-type: none"> ● 12.6.160131122 ● 12.6.150131122 ● 12.6.140131122 ● 12.6.130131122 ScreenOS <ul style="list-style-type: none"> ● 3.5.140347 	-	Service release for IDP OS, Junos OS, and ScreenOS platforms.

Table 1: IDP Detector Engine Features and Resolved Issues by Release (continued)

Release Date	Detector Engine Version	Signature Package Version	Features and Resolved Issues
July 25, 2013	IDP OS <ul style="list-style-type: none"> • 5.1.110130715 Junos OS <ul style="list-style-type: none"> • 12.6.160130715 • 12.6.150130715 • 12.6.140130715 • 12.6.130130715 ScreenOS <ul style="list-style-type: none"> • 3.5.140185 	-	Service release for IDP OS, Junos OS, and ScreenOS platforms.
April 16, 2013	IDP OS <ul style="list-style-type: none"> • 5.1.110130325 Junos OS <ul style="list-style-type: none"> • 12.6.160130325 • 12.6.150130325 • 12.6.140130325 • 12.6.130130325 ScreenOS <ul style="list-style-type: none"> • 3.5.140032 	-	Service release for IDP OS, Junos OS, and ScreenOS platforms.

IDP Detector Engine Overview

The IDP detector engine is a dynamic protocol decoder that includes support for decoding more than 60 protocols and more than 500 service contexts. The IDP detector engine is used by the IDP process engine in packet analysis.

The detector engine and application signature code base is packaged and released separately from the IDP OS, ScreenOS, or Junos OS code bases. Juniper Networks Security Intelligence Center releases IDP detector engine updates more frequently in order to ensure that IDP products protect your network against recently discovered vulnerabilities.

NOTE: We recommend you subscribe to the IDP Signature Updates technical bulletin to be notified when the Security Intelligence Center releases IDP detector engine updates. Go to <https://www.juniper.net/alerts/subscribe.jsp?actionBtn=Modify> (login required). We also suggest you subscribe to the RSS feed to follow signature update announcements. Go to <http://rss.juniper.net/p/subscribe> (no login required).

Understanding IDP Detector Engine Version Numbers

The IDP detector engine versions that are compatible with your system vary by product family and operating system version. The following table summarizes IDP detector engine version compatibility.

Table 2: IDP Detector Engine Version Compatibility

Hardware	Operating System	IDP Detector Engine Version
IDP Series: IDP8200, IDP800, IDP250, IDP75	IDP 5.1.x	5.1.110YYMMDD
SRX Series (branch): SRX650, SRX550, SRX380, SRX345, SRX340, SRX320, SRX300, SRX240, SRX210, SRX100	Junos OS 9.4 and later	12.6.160YYMMDD
M/MX Series	Junos OS 9.4 and later	12.6.150YYMMDD
SRX Series (high end): SRX5800, SRX5400, SRX5600, SRX3600, SRX3400, SRX1400	Junos OS 9.2 and later	12.6.140YYMMDD
vSRX, SRX1500, SRX4100, SRX4200, SRX4600	Junos OS 9.5 and later	12.6.130YYMMDD
ISG Series: ISG2000, ISG1000	ScreenOS 6.3.x, 6.2.x	3.5.xxxxxx
vSRX 3.0	Junos OS 18.4 and later	12.6.180YYMMDD

Displaying the IDP Detector Engine Version Number

IN THIS SECTION

- [Using NSM to Display the Detector Engine Version | 12](#)
- [Using the IDP OS CLI to Display the Detector Engine Version | 12](#)
- [Using the Junos OS CLI to Display the Detector Engine Version | 13](#)
- [Using the ScreenOS CLI to Display the Detector Engine Version | 13](#)
- [Using Security Director Application to Display the Detector Engine Version | 14](#)

The following topics give procedures for displaying the IDP detector engine version number:

Using NSM to Display the Detector Engine Version

To view the version of the latest IDP detector engine that has been downloaded to the NSM GUI server:

- In NSM, select **Tools > View/Update NSM Attack Database** and click **Next**.

The wizard displays the IDP detector engine versions that have been downloaded to the NSM GUI server.

To view version information for the IDP detector engine installed on an IDP Series device:

- In the NSM device manager, double-click the IDP or ISG Series device to display the device configuration editor.

For IDP OS and Junos OS devices, the Info node displays version information, including the IDP detector engine version.

For ScreenOS devices, navigate to **Security > SM Settings** to display the IDP detector engine version.

Using the IDP OS CLI to Display the Detector Engine Version

To display the IDP detector engine version number on an IDP OS device:

1. Connect to the CLI as the user **admin** and switch to the user **root**.
2. Run the **scio getsystem** command as shown in the following example:

```
login as: admin
```

```
admin's password:
```

```
Last login: Thu May 9 17:31:47 2010 from 10.150.99.42
```

```
[admin@idp ~]$ su -
```

```
Password:
```

```
[root@idp ~]# scio getsystem
```

```

Product Name: NS-IDP-8200
Serial Number: 0254092008000019
Software Version: 5.0.127636
IDP Mode: transparent
HA Mode: Disabled
Detector Version: 5.0.110100517
Software License: Evaluation
Software Expiration Date: 4/25/2011
[root@idp ~]#

```

In this example, the version is 5.0.110100517.

Using the Junos OS CLI to Display the Detector Engine Version

To display the IDP detector engine version on a Junos OS device:

1. Log in to the Junos OS CLI and enter operational mode. For details, see the Junos OS documentation.
2. Enter the command shown in the following example:

```
user@host> show security idp security-package-version
```

```

Attack database version:1651(Wed May 21 16:42:03 2010)
Detector version :10.4.140100513
Policy template version :N/A

```

In this example, the detector version number is 10.4.140100513.

Using the ScreenOS CLI to Display the Detector Engine Version

To display the IDP detector engine version number on a ScreenOS device:

1. Connect to the CLI as the user **admin** and switch to the user **root**.
2. Run the **get system** command as shown in the following example:

```
[root@default host admin]# get system
```

```
[..]  
IDP files version:  
  
detector.so 3.5.135690  
  
[root@default host admin]#
```

The line for detector.so shows the version of the detector. In this example, the version is 3.5.135690.

Using Security Director Application to Display the Detector Engine Version

To view the version of the latest IDP detector engine that has been downloaded to the Junos Space:

- Log in to the Security Director application.
- In the Security Director application, click **Administration** and click **Signature Database**.

The wizard displays the IDP detector engine versions that have been downloaded.

To view version information for the IDP detector engine installed on an IDP Series device:

- In the Security Director application, click the **Install Signatures** button. This displays the IDP detector version for each managed device.

Updating the IDP Detector Engine

IN THIS SECTION

- [Using NSM to Update the Detector Engine Software | 15](#)
- [Using the Junos OS CLI to Update the Detector Engine Software | 15](#)
- [Using J-Web to Update the Detector Engine Software | 16](#)

The following topics give procedures for updating IDP detector engine software:

Using NSM to Update the Detector Engine Software

To update the IDP detector engine using NSM:

1. Download IDP detector engine and NSM attack database updates to the NSM GUI server:
In NSM, select **Tools > View/Update NSM attack database** and complete the wizard steps.
2. Push the updated IDP detector engine to IDP devices:
For IDP OS or ScreenOS devices, select **Devices > IDP Detector Engine > Load IDP Detector Engine for ScreenOS** and complete the wizard steps.
For Junos OS devices, select **Devices > IDP Detector Engine > Load IDP Detector Engine for JUNOS** and complete the wizard steps.
3. Run a security policy update job to initialize the IDP detector engine update:
 - a. In NSM, select **Devices > Configuration > Update Device Config**.
 - b. Select devices to which to push the updates and set update job options.
 - c. Click **OK**.

NOTE: Updating the IDP detector engine on a device does not require a reboot of the device.

Using the Junos OS CLI to Update the Detector Engine Software

To update a Junos OS device using the Junos OS CLI:

1. Download the security package. The security package includes the detector and the latest attack objects and groups.

```
user@host> request security idp security-package download full-update
```

2. Update the attack database, the active policy, and the detector with the new package.

```
user@host> request security idp security-package install
```

3. Check the attack database update status with the following command. The command output displays information about the downloaded and installed versions of attack database versions.

```
user@host> request security idp security-package install status
```

4. Commit the configuration.

For additional information, see the Junos OS security configuration [documentation](#).

Using J-Web to Update the Detector Engine Software

To update a Junos OS device using J-Web Quick Configuration:

1. Select **Configuration > Quick Configuration > Security Policies > IDP Policies**.
2. From the IDP policies page, click **Security Package Update**.
3. From the IDP page, click **Signature/Policy Update**.
4. Complete the configuration as described in the online help.
5. Click **Apply**.

For additional information, see the Junos OS security configuration [documentation](#).

Troubleshooting an IDP Detector Engine Update

In NSM, the default URL from which to obtain updates is <https://services.netscreen.com/restricted/sigupdates/nsm-updates/NSM-SecurityUpdateInfo.dat>. If you encounter connection errors, ensure this setting has not been inadvertently changed.

To restore the default URL:

1. Select **Tools > Preferences**.
2. Click **Attack Object**.
3. Click **Restore Defaults**.

NSM restores the URL in the **Download URL for ScreenOS Devices** text box.

4. Click **OK**.

Reverting the IDP Detector Engine Version

In most cases, your use of the IDP feature set will not benefit from reverting the IDP detector engine version. In some cases, however, you might be required to revert. If you encounter an issue and need to revert, contact Juniper Networks Technical Assistance Center (JTAC).

Resolved Issues

The following table describes the protocol decoder issues that have been resolved in this release.

Table 3: Resolved Protocol Decoder Issues

PR	Description
HTTP	
1500377	Core dump occurs on active SRX Series device firewall when there are two standalone firewalls with Junos OS 12.3X48-D95.

Requesting Technical Support

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

23 September 2020—Revision 1, IDP Detector Engine Release Notes

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