

# IDP Detector Engine Release Notes

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## 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	Features and resolved issues.
June 15, 2011	IDP OS <ul style="list-style-type: none"> <li>5.1.110110609</li> <li>5.0.110110609</li> <li>4.1.110110609</li> </ul>	Resolved issue with the SMB and VNC protocol decoders. For details, see "Resolved Issues" on page 8.
April 1, 2011	<ul style="list-style-type: none"> <li>IDP OS <ul style="list-style-type: none"> <li>5.1.110110331</li> <li>5.0.110110331</li> <li>4.1.110110331</li> </ul> </li> <li>Junos OS <ul style="list-style-type: none"> <li>11.4.160110331</li> <li>11.4.150110331</li> <li>11.4.140110331</li> <li>11.4.130110331</li> </ul> </li> <li>ScreenOS <ul style="list-style-type: none"> <li>3.5.137717</li> <li>3.4.137717</li> </ul> </li> </ul>	Resolved issues related to the HTTP and SMB protocol decoders.
March 1, 2011	<ul style="list-style-type: none"> <li>IDP OS <ul style="list-style-type: none"> <li>5.1.110110223</li> <li>5.0.110110223</li> <li>4.1.110110223</li> </ul> </li> <li>Junos OS <ul style="list-style-type: none"> <li>11.4.160110223</li> <li>11.4.150110223</li> <li>11.4.140110223</li> <li>11.4.130110223</li> </ul> </li> <li>ScreenOS <ul style="list-style-type: none"> <li>3.5.137562</li> <li>3.4.137562</li> </ul> </li> </ul>	Quarterly 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	Features and resolved issues.
December 7, 2010	<ul style="list-style-type: none"> <li>• IDP OS               <ul style="list-style-type: none"> <li>• 5.0.110101203</li> <li>• 4.2.110101203</li> <li>• 4.1.110101203</li> </ul> </li> <li>• Junos OS               <ul style="list-style-type: none"> <li>• 10.4.160101203</li> <li>• 10.4.150101203</li> <li>• 10.4.140101203</li> <li>• 10.4.130101203</li> </ul> </li> <li>• ScreenOS               <ul style="list-style-type: none"> <li>• 3.5.137241</li> <li>• 3.4.137241</li> </ul> </li> </ul>	Quarterly release for IDP OS, Junos OS, and ScreenOS platforms. Improved coverage and accuracy for the HTTP, SMB, MSRPC, and LDAP protocol decoders.
October 21, 2010	<ul style="list-style-type: none"> <li>• IDP OS – 5.0.110101021</li> <li>• Junos OS – 10.4.140101021</li> </ul>	Resolved issues and improved stability of the detector used with IDP OS 5.0 and Junos OS high-end SRX.
September 27, 2010	5.0.110100923	PR 543814. Resolved a memory-related issue with the TNS protocol decoder that could result in a crash in mixed network environments with highly fragmented traffic. This issue was found in the 5.0.110100823 detector engine (IDP OS).
August 24, 2010	<ul style="list-style-type: none"> <li>• IDP OS               <ul style="list-style-type: none"> <li>• 5.0.110100823</li> <li>• 4.2.110100823</li> <li>• 4.1.110100823</li> </ul> </li> <li>• Junos OS               <ul style="list-style-type: none"> <li>• 10.4.160100823</li> <li>• 10.4.150100823</li> <li>• 10.4.140100823</li> <li>• 10.4.130100823</li> </ul> </li> <li>• ScreenOS               <ul style="list-style-type: none"> <li>• 3.5.136540</li> <li>• 3.4.136540</li> </ul> </li> </ul>	Quarterly release for IDP OS, Junos OS, and ScreenOS platforms. We now support IEC104 and MODBUS protocol decoders for Junos OS. This release also improves stability, coverage, and accuracy for several protocol decoders.

## 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 Center (J-Security Center) releases IDP detector engine updates more frequently in order to ensure 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 J-Security 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 IDP1100, IDP600, IDP200	IDP 5.1.x	5.1.110YYMMDD
IDP Series: IDP8200, IDP800, IDP250, IDP75 IDP1100, IDP600, IDP200	IDP 5.0.x	5.0.110YYMMDD
IDP Series: IDP800, IDP250, IDP75 IDP1100, IDP600, IDP200, IDP50	IDP 4.1.x	4.1.110YYMMDD
SRX Series (branch): SRX650, SRX240, SRX210, SRX100	Junos OS 9.4 and later	11.4.160YYMMDD
M/MX Series	Junos OS 9.4 and later	11.4.150YYMMDD
SRX Series (high end): SRX5800, SRX5600, SRX3600, SRX3400, SRX1400	Junos OS 9.2 and later	11.4.140YYMMDD
J Series	Junos OS 9.5 and later	11.4.130YYMMDD
ISG Series: ISG2000, ISG1000	ScreenOS 6.3.x, 6.2.x	3.5.xxxxxx
ISG Series: ISG2000, ISG1000	ScreenOS 6.1x, 6.0.x	3.4.xxxxxx



**NOTE:** 2010 versions of the detector engine for Junos OS were numbered 10.4.1x0.YYMMDD.



**NOTE:** The last detector engine update for IDP OS 4.2 was 4.2.110101203 on December 7, 2010. We advise you to upgrade to IDP OS 5.0.x or later.



**NOTE:** The last detector engine update for IDP OS 4.1 is 4.110110609 on June 15, 2011. We advise you to upgrade to IDP OS 5.0.x or later.



**NOTE:** The last detector engine update for ScreenOS 5.4.x was detector engine 3.1.135801 on May 26, 2010. We advise you to upgrade to ScreenOS 6.x.

## Displaying the IDP Detector Engine Version Number

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

- Using NSM to Display the Detector Engine Version on page 5
- Using the IDP OS CLI to Display the Detector Engine Version on page 5
- Using the Junos OS CLI to Display the Detector Engine Version on page 6
- Using the ScreenOS CLI to Display the Detector Engine Version on page 6

### 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 device:

- In the NSM device manager, double-click the IDP or ISG 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 into 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.

## Updating the IDP Detector Engine

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

- Using NSM to Update the Detector Engine Software on page 7
- Using the Junos OS CLI to Update the Detector Engine Software on page 7
- Using J-Web to Update the Detector Engine Software on page 8

### Using NSM to Update the Detector Engine Software

To update 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 [Security Configuration Guide for J-series Services Routers and SRX-series Services Gateways](#).

## 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 [Security Configuration Guide for J-series Services Routers and SRX-series Services Gateways](#).

## Troubleshooting an IDP Detector Engine Update

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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

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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

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

Table 3: Resolved Issues

PR	Description
<b>SMB</b>	
659929	Resolved an issue that had generated an inordinate number of logs.
<b>VNC</b>	
661669	Refined implementation to avoid a false positive match on the <code>VNC:INVALID:CLIENT-REQUEST</code> protocol anomaly.

## Contacting Juniper Networks Technical Assistance Center (JTAC)

If you need additional information or assistance, contact JTAC by E-mail ([support@juniper.net](mailto:support@juniper.net)) or telephone (1-888-314-JTAC within the United States or 1-408-745-9500 from outside the United States).

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