

# IDP Detector Engine Release Notes

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## **Contents**

Recent Release History .....	2
IDP Detector Engine Overview .....	3
Understanding IDP Detector Engine Version Numbers .....	3
Displaying the IDP Detector Engine Version Number .....	4
Updating the IDP Detector Engine .....	6
Troubleshooting an IDP Detector Engine Update .....	7
New Features and Resolved Issues .....	7
Known Issues .....	8
Contacting Juniper Networks Technical Assistance Center (JTAC) .....	8

## 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
May 12, 2009	■ 10.2.140090426	Resolved an issue with LDAP and TNS decoders.
April 27, 2009	■ 3.1.125133	Quarterly update, including stability improvements and improved accuracy.
April 15, 2009	<ul style="list-style-type: none"> <li>■ 10.2.140090407</li> <li>■ 4.2.110090322</li> <li>■ 4.1.110090407</li> <li>■ 4.0.110090407</li> <li>■ 3.5.126103</li> <li>■ 3.4.125129</li> </ul>	Quarterly update, including new features, stability improvements, and improved accuracy.
January 27, 2009	■ 4.2.110090121	<p>Major update corresponding with the release of IDP 4.2r2. Updates include:</p> <ul style="list-style-type: none"> <li>■ A new decoder for the MODBUS serial communications protocol. Improved accuracy with new contexts and other changes to reduce false positives.</li> <li>■ Increased security coverage with new anomalies.</li> <li>■ Resolution of issues with DNS, H.225 SGN, HTML, LDAP, MS-SQL, SIP, and SMB decoders.</li> </ul>
January 15, 2009	<ul style="list-style-type: none"> <li>■ 4.1.110090107</li> <li>■ 4.0.110090107</li> <li>■ 3.4.121591</li> <li>■ 3.1.121592</li> </ul>	<p>Major update, including:</p> <ul style="list-style-type: none"> <li>■ A new decoder for the MODBUS serial communications protocol.</li> <li>■ Resolution of issues with DNS, H.225 SGN, LDAP, MS-SQL, SIP, SMB, and TNS decoders.</li> <li>■ Increased security coverage with new anomalies.</li> <li>■ Improved accuracy with new contexts and other changes to reduce false positives.</li> </ul>
January 5, 2009	<ul style="list-style-type: none"> <li>■ 3.4.118904</li> <li>■ 3.1.118905</li> </ul>	<p>Provides the following new features and fixes:</p> <ul style="list-style-type: none"> <li>■ 397759, 397759-2. Resolved an issue in the DNS decoder that could result in a security module crash.</li> <li>■ 400464, 400467. Improved the SMB decoder with new features and anomalies.</li> <li>■ 400468, 400469. Resolved an issue in the SMB decoder. It now generates UUID context.</li> </ul>

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

Release Date	Detector Engine Version	Features and Resolved Issues
December 31, 2008	<ul style="list-style-type: none"> <li>■ 4.1.110081106</li> <li>■ 4.0.110081106</li> </ul>	Improves coverage and accuracy for the SIP, SMB, DNS, MS-SQL, and HTTP protocols.
October 23, 2008	<ul style="list-style-type: none"> <li>■ 4.1.110081008</li> <li>■ 4.0.110081008</li> <li>■ 3.4.117413</li> <li>■ 3.1.117412</li> </ul>	Improves coverage and accuracy for LDAP, SSL, and HTTP protocols.
September 18, 2008	<ul style="list-style-type: none"> <li>■ 4.1.110080916</li> </ul>	Improves coverage and accuracy for SSI and SIP protocols.
August 21, 2008	<ul style="list-style-type: none"> <li>■ 3.4.114929</li> <li>■ 3.1.115140</li> </ul>	Improves coverage and accuracy for the VOIP/SIP protocol.
July 22, 2008	<ul style="list-style-type: none"> <li>■ 4.1.110080701</li> <li>■ 4.0.110080701</li> </ul>	Improves coverage and accuracy for SMTP, SIP, and H.225 protocols.
July 17, 2008	<ul style="list-style-type: none"> <li>■ 4.1.110080700</li> <li>■ 4.0.110080700</li> </ul>	Improves coverage and accuracy for HTTP, LDAP, and SMB protocols.
June 19, 2008	<ul style="list-style-type: none"> <li>■ 4.1.110080600</li> <li>■ 4.0.110080600</li> </ul>	Improves coverage and accuracy for SIP, HTTP, and MSSQL protocols.
June 10, 2008	<ul style="list-style-type: none"> <li>■ 3.4.112183</li> </ul>	Improves coverage and accuracy for SIP and HTTP protocols.

## 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 code base is packaged and released separately from the IDP or ScreenOS operating system and software code base. 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/>.

## Understanding IDP Detector Engine Version Numbers

The IDP detector engine versions that are compatible with your system vary by product line 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
J-Services: MX Series	JUNOS 9.4 and later	10.2.150YYMMDD
SRX: SRX5800, SRX5600, SRX3600, SRX3400	JUNOS 9.2 and later	10.2.140YYMMDD
JSRX: SRX650, SRX240, SRX210	JUNOS 9.4 and later	9.2.160YYMMDD
JSR: J-Series	JUNOS 9.5 and later	9.2.130YYMMDD
IDP8200, IDP800, IDP250, IDP75, IDP1100, IDP600, IDP200	IDP 5.0.x	5.0.110YYMMDD
IDP8200	IDP 4.2.x	4.2.110YYMMDD
IDP 75/250/800, IDP 50/200/600/1100, IDP 10/100/500/1000	IDP 4.1.x	4.1.110YYMMDD
IDP 50/200/600/1100, IDP 10/100/500/1000	IDP 4.0.x	4.0.110YYMMDD
ISG 1000/2000	ScreenOS 6.2.x	3.5.xxxxxx
ISG 1000/2000	ScreenOS 6.1x, 6.0.x	3.4.xxxxxx
ISG 1000/2000	ScreenOS 5.4.x, 5.0.x	3.1.xxxxxx

## Displaying the IDP Detector Engine Version Number

**NSM** 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 standalone IDP devices, the Info node displays version information, including the IDP detector engine version.

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

**IDP CLI** To display the IDP detector engine version number on an IDP Series 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 Apr  9 17:31:47 2009 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: 5.0.110090408
Software License: Evaluation
Software Expiration Date: 4/25/2009
[root@idp ~]#

```

**ScreenOS CLI** To display the IDP detector engine version number on an ISG Series 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 3.1.101390

[root@default host admin]#

```

The line for `detector.so` shows the version of the detector—in this example, version 3.1.101390.

**JUNOS CLI** To display the IDP detector engine version number on a JUNOS device:

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

```

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

Attack database version:31(Wed Apr 16 15:53:46 2008)
Detector version :9.1.140080400
Policy template version :N/A

```

In this example, the detector version number is 9.1.140080400.

## Updating the IDP Detector Engine

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**NSM** To update IDP detector engine on 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 or ISG, select **Devices > IDP Detector Engine > Load IDP Detector Engine for ScreenOS** and complete the wizard steps.



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

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For JUNOS devices, select **Devices > IDP Detector Engine > Load IDP Detector Engine for JUNOS** and complete the wizard steps.



**NOTE:** There is a known issue using NSM to update the detector engine on devices running JUNOS 9.4 and 9.5. To work around, use the JUNOS CLI or J-Web to update. Check the NSM 2008.2r2 release notes to see if the issue is resolved in that release.

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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**.

**JUNOS CLI** To update a JUNOS device using the JUNOS 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](#).

**J-Web** To update a JUNOS 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 or *Security Configuration Guide*.
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**.

## New Features and Resolved Issues

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PR 441007. Resolved a memory-related issue with LDAP and TNS decoders reported in detector engine 10.2.140090404. The issue had resulted in a crash.

## Known Issues

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PR 441777. There is an issue using NSM to update the detector engine on devices running JUNOS 9.4 and 9.5. To work around this issue, use JUNOS CLI or J-Web procedures to download and install the detector engine. See “Updating the IDP Detector Engine” on page 6.

## Contacting Juniper Networks Technical Assistance Center (JTAC)

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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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