

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
April 27, 2009	■ 3.1.125133	Quarterly update, including stability improvements and improved accuracy. For details, see “New Features and Resolved Issues” on page 7.
April 15, 2009	<ul style="list-style-type: none"> ■ 10.2.140090407 ■ 4.2.110090322 ■ 4.1.110090407 ■ 4.0.110090407 ■ 3.5.126103 ■ 3.4.125129 	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"> ■ A new decoder for the MODBUS serial communications protocol. Improved accuracy with new contexts and other changes to reduce false positives. ■ Increased security coverage with new anomalies. ■ Resolution of issues with DNS, H.225 SGN, HTML, LDAP, MS-SQL, SIP, and SMB decoders.
January 15, 2009	<ul style="list-style-type: none"> ■ 4.1.110090107 ■ 4.0.110090107 ■ 3.4.121591 ■ 3.1.121592 	<p>Major update, including:</p> <ul style="list-style-type: none"> ■ A new decoder for the MODBUS serial communications protocol. ■ Resolution of issues with DNS, H.225 SGN, LDAP, MS-SQL, SIP, SMB, and TNS decoders. ■ Increased security coverage with new anomalies. ■ Improved accuracy with new contexts and other changes to reduce false positives.
January 5, 2009	<ul style="list-style-type: none"> ■ 3.4.118904 ■ 3.1.118905 	<p>Provides the following new features and fixes:</p> <ul style="list-style-type: none"> ■ 397759, 397759-2. Resolved an issue in the DNS decoder that could result in a security module crash. ■ 400464, 400467. Improved the SMB decoder with new features and anomalies. ■ 400468, 400469. Resolved an issue in the SMB decoder. It now generates UUID context.
December 31, 2008	<ul style="list-style-type: none"> ■ 4.1.110081106 ■ 4.0.110081106 	Improves coverage and accuracy for the SIP, SMB, DNS, MS-SQL, and HTTP protocols.

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

Release Date	Detector Engine Version	Features and Resolved Issues
October 23, 2008	<ul style="list-style-type: none"> ■ 4.1.110081008 ■ 4.0.110081008 ■ 3.4.117413 ■ 3.1.117412 	Improves coverage and accuracy for LDAP, SSL, and HTTP protocols.
September 18, 2008	<ul style="list-style-type: none"> ■ 4.1.110080916 	Improves coverage and accuracy for SSI and SIP protocols.
August 21, 2008	<ul style="list-style-type: none"> ■ 3.4.114929 ■ 3.1.115140 	Improves coverage and accuracy for the VOIP/SIP protocol.
July 22, 2008	<ul style="list-style-type: none"> ■ 4.1.110080701 ■ 4.0.110080701 	Improves coverage and accuracy for SMTP, SIP, and H.225 protocols.
July 17, 2008	<ul style="list-style-type: none"> ■ 4.1.110080700 ■ 4.0.110080700 	Improves coverage and accuracy for HTTP, LDAP, and SMB protocols.
June 19, 2008	<ul style="list-style-type: none"> ■ 4.1.110080600 ■ 4.0.110080600 	Improves coverage and accuracy for SIP, HTTP, and MSSQL protocols.
June 10, 2008	<ul style="list-style-type: none"> ■ 3.4.112183 	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
SRX	JUNOS 9.x	10.2.xxxxxxxxxx
IDP 8200	IDP 4.2.x	4.2.xxxxxxxxxx
IDP 75/250/800, IDP 50/200/600/1100, IDP 10/100/500/1000	IDP 4.1.x	4.1.xxxxxxxxxx
IDP 50/200/600/1100, IDP 10/100/500/1000	IDP 4.0.x	4.0.xxxxxxxxxx
ISG 1000/2000	ScreenOS 6.2.x	3.5.xxxxxxx
ISG 1000/2000	ScreenOS 6.1.x, 6.0.x	3.4.xxxxxxx
ISG 1000/2000	ScreenOS 5.4.x, 5.0.x	3.1.xxxxxxx

Displaying the IDP Detector Engine Version Number (NSM Procedure)

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.

Displaying the IDP Detector Engine Version Number (CLI Procedure)

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 ~]#

```

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]# [root@default host admin]#

```

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

To display the IDP detector engine version number on an SRX 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

Updating the IDP detector engine is a three part process.

To update IDP detector engine:

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:

In NSM, select **Devices** > **IDP Detector Engine** > **Load IDP Detector Engine** and complete the wizard steps.



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

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**.

Troubleshooting an IDP Detector Engine Update

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 IDP 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).

New Features and Resolved Issues

The following table lists resolved issues.

Table 3: New Features and Resolved Issues

PR	Description
415094	Ported a fix for a buffer overrun condition reported in 3.4.114520 that had resulted in a crash.
420365	Ported a fix for an issue reported in detector 4.0.96141 that had caused a kernel panic in <code>sc_tcp_stream_do_peek()</code> .
424316	Resolved an issue reported in 3.1.121592 that had caused policy compiler failure if the security policy contained MODBUS-related signature attack objects.
420878	Fixed a false positive with anomaly SMTP:AUDIT:DUPLICATE:HEADER. We had incorrectly mapped To:, Delivered-to:, CC:, and Bcc: to the same values.

Known Issues

The following table identifies known issues in this release.

Table 4: Known Issues

Detector Engine Version	Issue
<ul style="list-style-type: none"> ■ 3.1.125133 	<p>PR 440927. With NSM 2007.3r5, after you load the detector engine to an ISG device running ScreenOS 5.4, the Job Manager returns a message indicating success; however, the new detector engine is not loaded. You can use the <code>get system</code> command to verify that it has not been loaded. The command shows the previously installed and current version:</p> <pre>[root@default host admin]# get system [..] IDP files version: detector.so 3.1.121592 [root@default host admin]#</pre> <p>To work around this issue, use any other version of NSM or contact JTAC for a patch.</p>

Contacting Juniper Networks Technical Assistance Center (JTAC)

If you need additional information or assistance, contact JTAC by E-mail (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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