Juniper UTM Components

Web Filtering

Web Filtering
Allows you to permit or block access to specific websites by URL or by category using cloud-based lookups, a local database, or external Websense server.

Enhanced Web Filtering
Functions similarly to integrated Web filtering. Also, assigns a reputation score to a site to determine actions based on the reputation score.

Local Web Filtering
Blocks or permits Web access based on the user-defined categories stored on the device.

Redirect Web Filtering
Intercepts HTTP requests and forwards the server URL to an external URL filtering server. The external Websense server determines whether to block or permit access.

Antivirus

Antivirus
Inspects files transmitted over several protocols to determine if the files exchanged are malicious (for example, viruses, Trojans, rootkits, and worms).

Kaspersky Full Antivirus
Uses a comprehensive integrated signature, heuristics, and behavior-based scanning engine to help prevent malicious code from reaching devices on your network.

Juniper Express Antivirus
Uses a stream scanning engine and virus signature databases to help prevent malicious code from reaching devices on your network.

Sophos Antivirus
Uses a cloud-based stream scanning engine with integrated URL reputation features for faster decision-making to help prevent malicious code from reaching devices on your network.

Antispam

Antispam
Offers a lightweight solution that can block spam by scanning inbound and outbound SMTP email traffic.
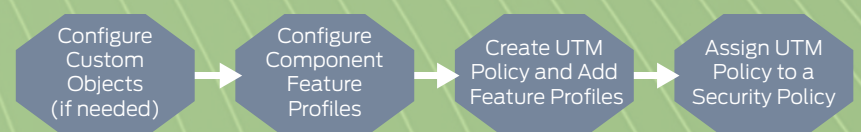
Server-Based Antispam Filtering
Blocks and filters unwanted email traffic by scanning inbound and outbound SMTP email traffic using an external spam block list server.

Local List Antispam Filtering
Uses local lists (blacklists and whitelists) for matching. Filters based on domain names and a combination of email addresses and IP addresses.

Quick Tip:
How to Configure a UTM Feature

Configure Custom Objects (if needed) → Configure Component Feature Profiles → Create UTM Policy and Add Feature Profiles → Assign UTM Policy to a Security Policy

Content Filtering

Content Filtering
Provides basic data loss prevention functionality. Filters traffic based on MIME type, file extension, protocol commands, and embedded object type.

UTM	Description	License Required	Supported Platforms	Management	Benefits	Limitations
Juniper SMB4	Full UTM with Enhanced Web Filtering, Kaspersky Antivirus, Sophos Antispam, Content Filtering, AppSecure Next-Generation Firewall features, and Intrusion Prevention Services.	Yes*	Branch SRX Series	J-Web NSM Security Director	Comprehensive next-generation firewall and content security.	Enabling all services will impact performance. Talk to your reseller to size your deployment appropriately.
Juniper SMB4-S	Full UTM with Enhanced Web Filtering, Sophos Antivirus, Sophos Antispam, Content Filtering, AppSecure Next-Generation Firewall features, and Intrusion Prevention Services.	Yes*	SRX Series, Firefly Perimeter/ vSRX	J-Web NSM Security Director	Comprehensive next-generation firewall and content security. Tremendous scaling potential on high-end SRX Series.	Enabling all services will impact performance. Talk to your reseller to size your deployment appropriately.

*1GB Branch SRX Series models include SRX100H, SRX110H, SRX210H, SRX220, and SRX240H.
2GB Branch SRX Series models include SRX210H2, SRX220H2, SRX240H2, SRX550, and SRX650.
Junos OS releases starting with 12.1X47-D10 require 2GB Branch SRX Series models.

Juniper Networks® Unified Threat Management provides a solution to IT's most challenging security problems. It is available with Juniper Networks SRX Series Services gateways, the only carrier-class security solution consolidating UTM content security services with routing and switching in a single, high-performance, and cost-effective network device. This consolidation enables organizations to securely, reliably, and economically deliver powerful new services and applications to all locations and users with superior service quality.
SRX Series gateways are powered by Juniper Networks Junos® operating system, the same industry-leading OS platform that keeps the world's largest networks available, manageable, and secure.

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Juniper UTM Components

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Unified Threat Management

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Juniper UTM Features and Benefits

UTM Features	Module	License Required	Supported Platforms	Supported Protocols	Management	Benefits	Limitations
Web Filtering	Enhanced Web Filtering	Yes	SRX Series, Firefly Perimeter/vSRX	HTTP HTTPS	J-Web Security Director	The most powerful integrated method in terms of detection and the integrated package. Includes a granular list of URL categories, support for Google Safe Search, and a reputation engine. No additional server components are required. This feature can also redirect users to a custom URL for block pages.	Requires an Internet connection to contact the Threatseeker cloud.
	Local Web Filtering	No	SRX Series, Firefly Perimeter/vSRX	HTTP	J-Web Security Director	Does not require a license. Good for defining your own blacklist or whitelist. Good if you only have a handful of URLs for which you want to enforce a policy.	Not ideal for broad URL filtering support; only geared for specific URLs.
	Redirect Web Filtering	No	Branch SRX Series, Firefly Perimeter/vSRX	HTTP HTTPS	J-Web Security Director	All queries are tracked locally, so an Internet connection is not required. Can use the logging and reporting of a standalone Websense solution. Slightly lower latency because the server is onsite. You own the entire solution.	Requires a separate Websense server.
Antivirus	Kaspersky Full Antivirus	Yes*	Branch SRX Series	SMTP POP3 IMAP HTTP FTP	J-Web NSM Security Director	Deep security scanning. Built in antivirus capabilities. Ability to inspect compressed content. Good detection capabilities for content loaded on device. Does not require URL information to be sent, but requires Internet connection for downloads.	Might impact network performance. No reputation feed for URL, which impacts performance. Database is limited by device memory. Limited detection for complicated attacks if they are not identified by patterns or heuristics.
	Juniper Express Antivirus	Yes	Branch SRX Series	SMTP POP IMAP HTTP FTP	J-Web Security Director	Least performance impact. Does not require URL information to be sent, but requires Internet connection for downloads.	Less comprehensive signature database. No reputation feed; pattern matching only. Limited ability to detect complicated or compressed malware.
	Sophos Antivirus	Yes	SRX Series, Firefly Perimeter/vSRX	SMTP POP3 IMAP HTTP FTP	J-Web Security Director	Very good detection, particularly with the URL checks. Database is unlimited because it leverages the Sophos cloud. Can detect complicated malware.	Requires an Internet connection to query the Sophos cloud for URL checks.
Antispam	Server-based Antispam Filtering	Yes	SRX Series, Firefly Perimeter/vSRX	SMTP	J-Web Security Director	Blacklist-based solution to filter inbound spam over SMTP.	The solution is based on an IP reputation list offered from the cloud via Sophos.
	Local List Antispam Filtering	Yes	SRX Series, Firefly Perimeter/vSRX	SMTP	J-Web Security Director	Local blacklist and whitelist matching does not require a license.	Pattern matching for domain names uses a longest suffix match algorithm. IP address matching, however, does not allow for partial matches.
Content Filtering	Content Filtering	No	SRX Series, Firefly Perimeter/vSRX	SMTP POP3 IMAP HTTP FTP	J-Web Security Director	Either permits or blocks specific commands or extensions on a protocol-by-protocol basis.	Blocks files according to extensions and payload data.

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2GB Branch SRX Series models include SRX210H2, SRX220H2, SRX240H2, SRX550, and SRX650.
Junos OS releases starting with 12.1X47-D10 require 2GB Branch SRX Series models.

Benefits
· Comprehensive, all-in-one, layered security solution
· Simplified security operations through Junos OS, a single operating system platform
· Reduced costs and complexity in a single, integrated device
· Better performance through optimized hardware with separate data and control plane
· More management options and control with user-role based policy
· Flexibility with cloud-based and on-box anti-malware options

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Juniper UTM Features and Benefits

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