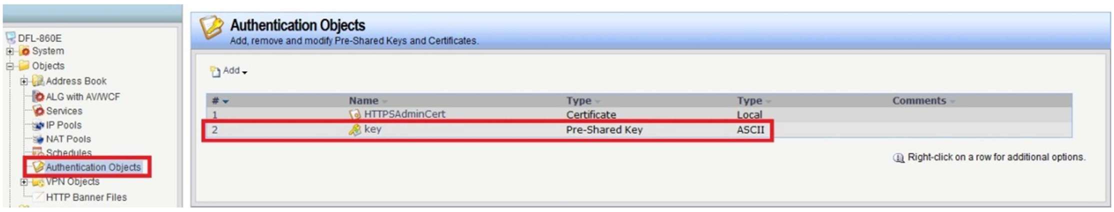
How to setup IPSec remote access on DFL-series

This example describes how to configure an IPSec tunnel at the office NetDefend firewall for roaming clients that connect to the office to gain remote access.

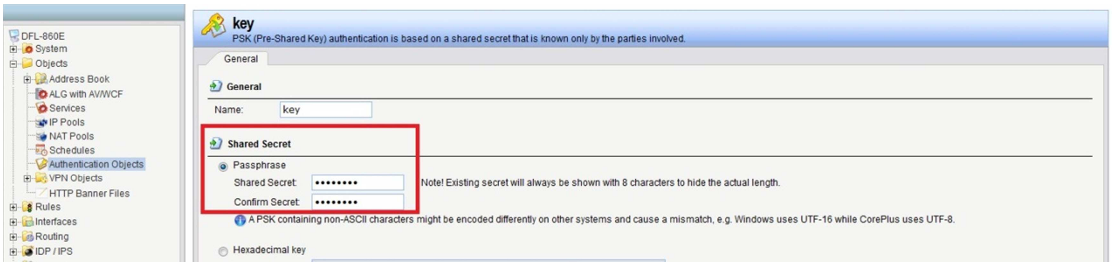
(1) Create a new pre-share key.



Authentication Objects
Add, remove and modify Pre-Shared Keys and Certificates.

#	Name	Type	Type	Comments
1	HTTPSAdminCert	Certificate	Local	
2	key	Pre-Shared Key	ASCII	

Right-click on a row for additional options.



key
PSK (Pre-Shared Key) authentication is based on a shared secret that is known only by the parties involved.

General

Name: key

Shared Secret

● Passphrase

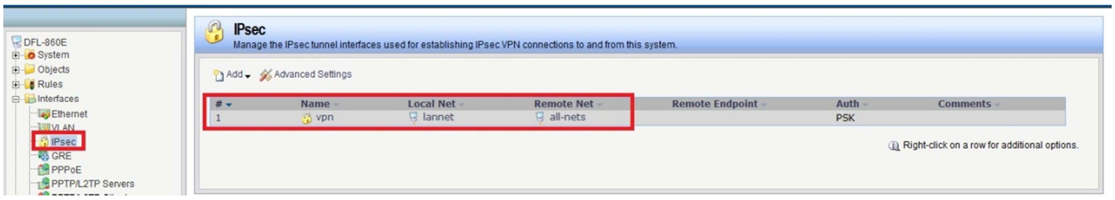
Shared Secret: •••••••• Note! Existing secret will always be shown with 8 characters to hide the actual length.

Confirm Secret: ••••••••

A PSK containing non-ASCII characters might be encoded differently on other systems and cause a mismatch, e.g. Windows uses UTF-16 while CorePlus uses UTF-8.

○ Hexadecimal key

(2) Create a new IPSec interface.

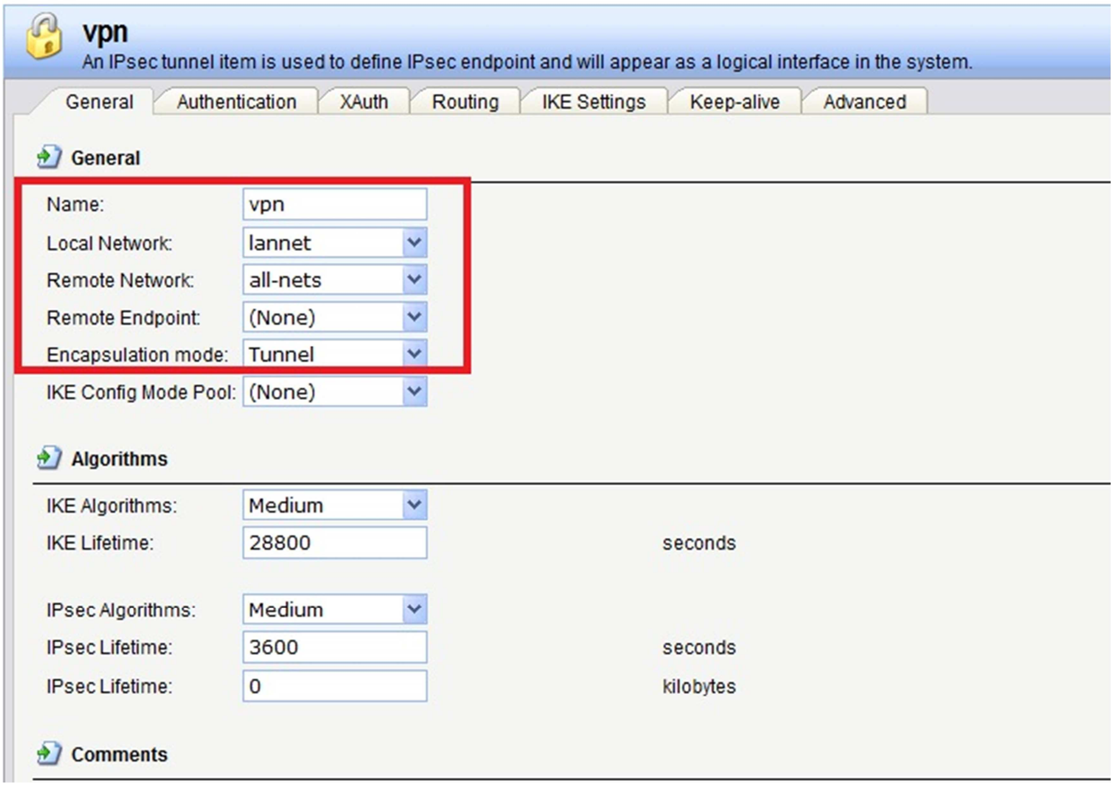


IPsec
Manage the IPsec tunnel interfaces used for establishing IPsec VPN connections to and from this system.

#	Name	Local Net	Remote Net	Remote Endpoint	Auth	Comments
1	vpn	lannet	all-nets		PSK	

Right-click on a row for additional options.

(3) Remote endpoint item choose “none”.



vpn

An IPsec tunnel item is used to define IPsec endpoint and will appear as a logical interface in the system.

General

Name: vpn

Local Network: lannet

Remote Network: all-nets

Remote Endpoint: (None)

Encapsulation mode: Tunnel

IKE Config Mode Pool: (None)

Algorithms

IKE Algorithms: Medium

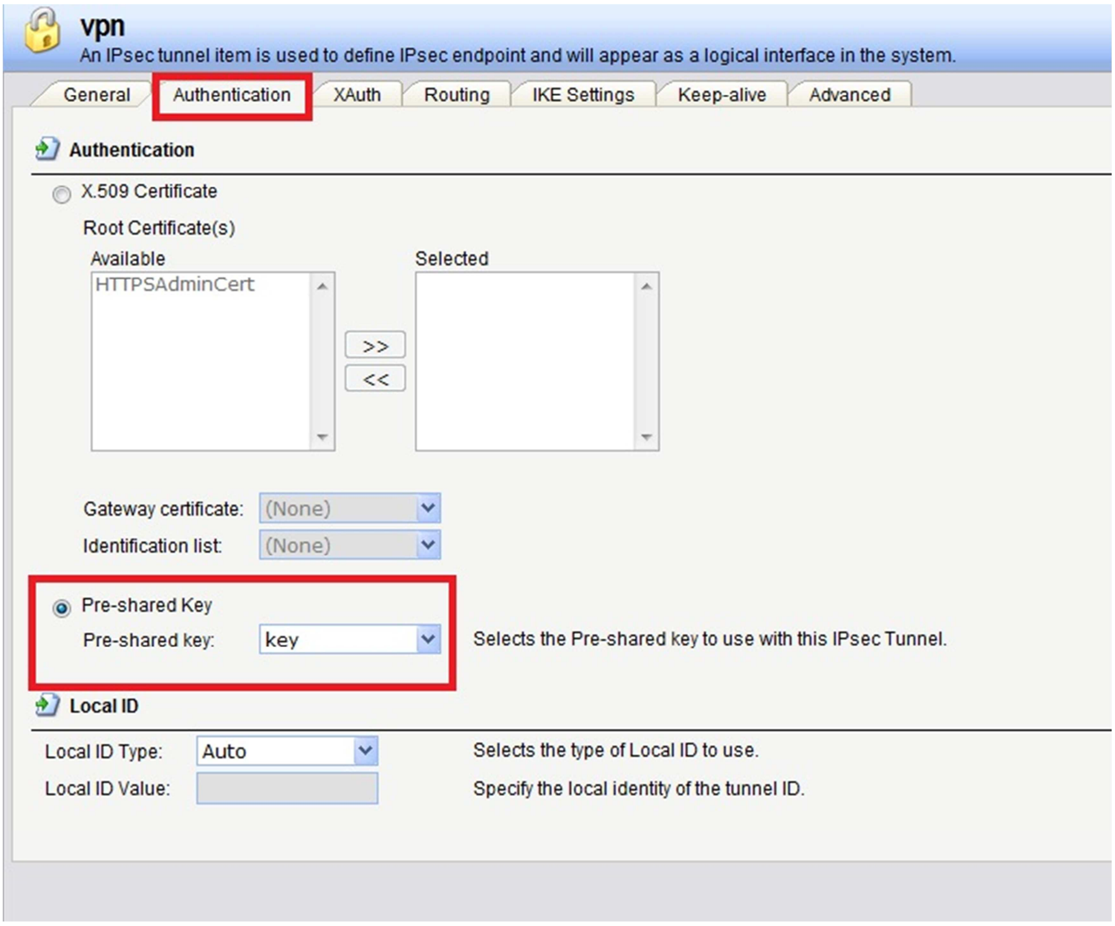
IKE Lifetime: 28800 seconds

IPsec Algorithms: Medium

IPsec Lifetime: 3600 seconds

IPsec Lifetime: 0 kilobytes

Comments



vpn

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Authentication

○ X.509 Certificate

Root Certificate(s)

Available: HTTPSAdminCert

Selected:

Gateway certificate: (None)

Identification list: (None)

● Pre-shared Key

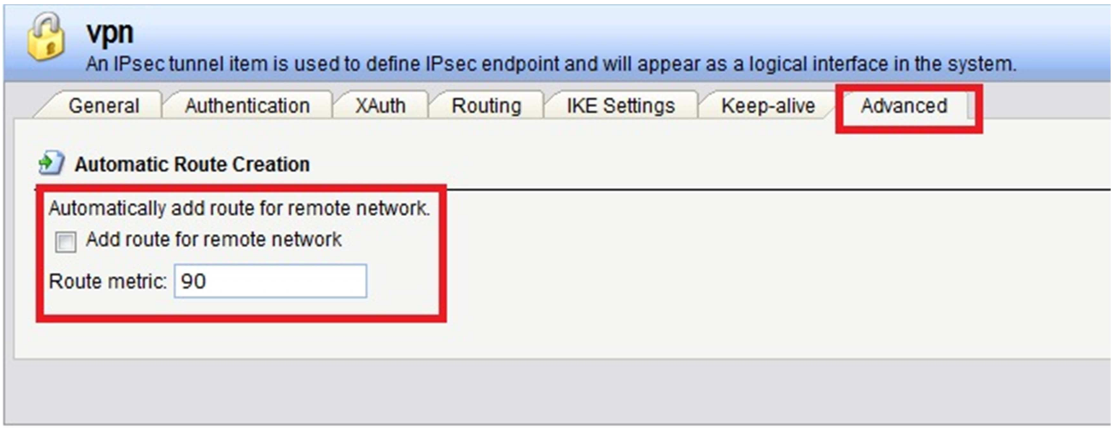
Pre-shared key: key — Selects the Pre-shared key to use with this IPsec Tunnel.

Local ID

Local ID Type: Auto — Selects the type of Local ID to use.

Local ID Value: — Specify the local identity of the tunnel ID.

(4) Don’t choose “add route for remote network” item.



vpn

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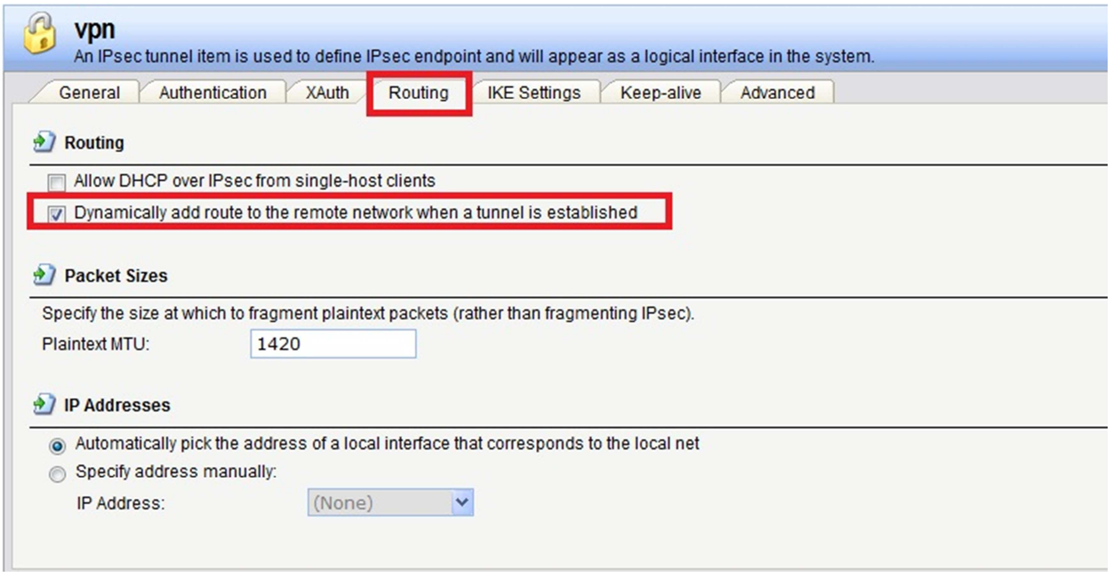
Automatic Route Creation

Automatically add route for remote network.

□ Add route for remote network

Route metric: 90



vpn

An IPsec tunnel item is used to define IPsec endpoint and will appear as a logical interface in the system.

Routing

□ Allow DHCP over IPsec from single-host clients

☑ Dynamically add route to the remote network when a tunnel is established

Packet Sizes

Specify the size at which to fragment plaintext packets (rather than fragmenting IPsec).

Plaintext MTU: 1420

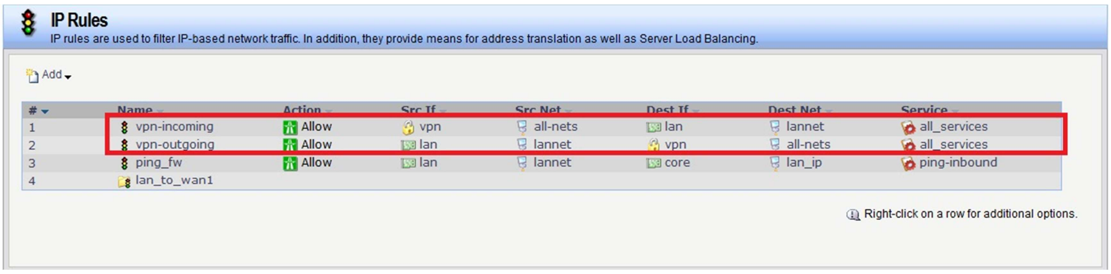
IP Addresses

● Automatically pick the address of a local interface that corresponds to the local net

○ Specify address manually:

IP Address: (None)

(5) Create two IP rules. VPN-incoming and VPN-outgoing.

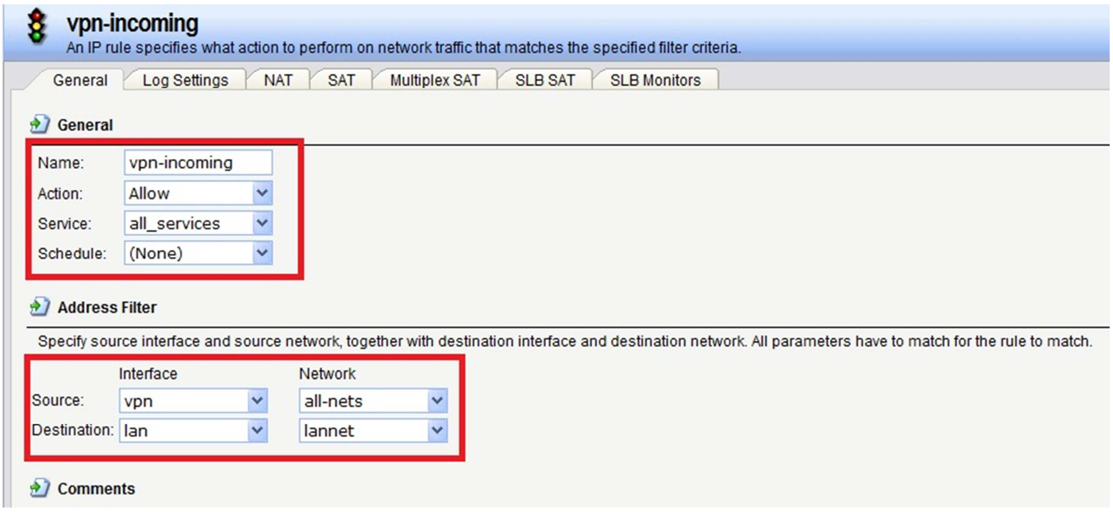


IP Rules

IP rules are used to filter IP-based network traffic. In addition, they provide means for address translation as well as Server Load Balancing.

#	Name	Action	Src If	Src Net	Dest If	Dest Net	Service
1	vpn-incoming	Allow	vpn	all-nets	lan	lannet	all_services
2	vpn-outgoing	Allow	lan	lannet	vpn	all-nets	all_services
3	ping_fw	Allow	lan	lannet	core	lan_ip	ping-inbound
4	lan_to_wan1						

Right-click on a row for additional options.



vpn-incoming

An IP rule specifies what action to perform on network traffic that matches the specified filter criteria.

General

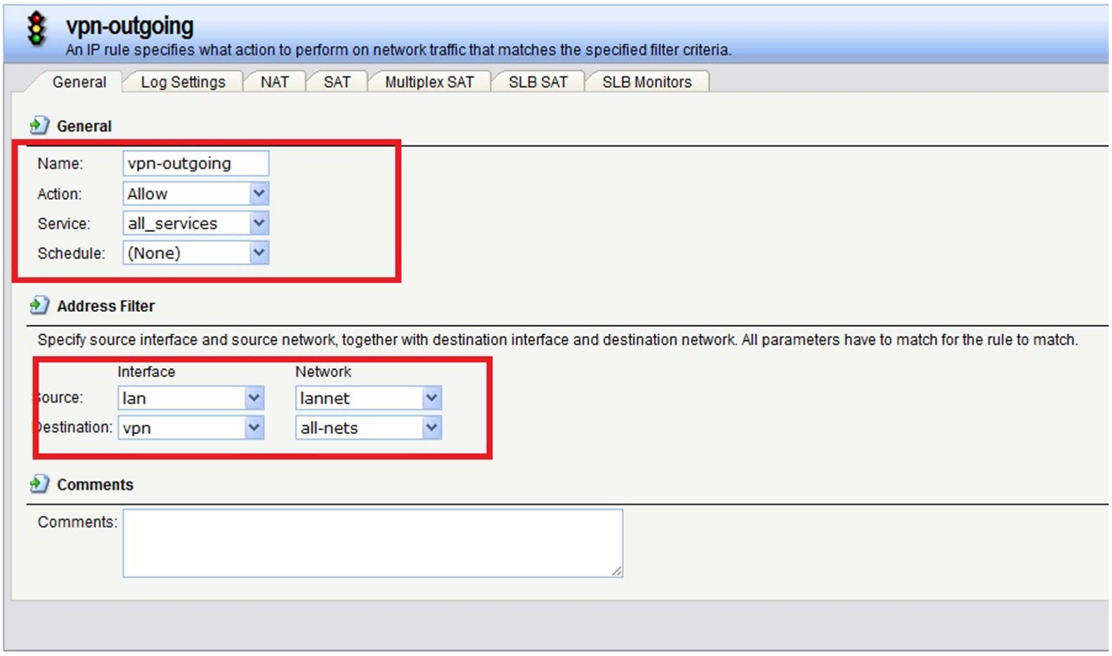
Name: vpn-incoming
Action: Allow
Service: all_services
Schedule: (None)

Address Filter

Specify source interface and source network, together with destination interface and destination network. All parameters have to match for the rule to match.

	Interface	Network
Source:	vpn	all-nets
Destination:	lan	lannet

Comments



vpn-outgoing

An IP rule specifies what action to perform on network traffic that matches the specified filter criteria.

General

Name: vpn-outgoing
Action: Allow
Service: all_services
Schedule: (None)

Address Filter

Specify source interface and source network, together with destination interface and destination network. All parameters have to match for the rule to match.

	Interface	Network
Source:	lan	lannet
Destination:	vpn	all-nets

Comments

Comments:

END