



# ANSSI Enhancements for IKEv1 and IKEv2 ACL Modes

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From Release 20 onwards, the ANSSI for ACL modes have been enhanced to provide additional functionalities.

The following topics are discussed:

- [Feature Description, on page 1](#)
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## Feature Description

The ANSSI for ACL modes have been enhanced with the following functionalities:

- [Auto-delete Existing IKEv1/IKEv2 ACL Tunnels, on page 1](#)
- [Remove Weak Security Algorithms, on page 2](#)

## Auto-delete Existing IKEv1/IKEv2 ACL Tunnels

IPSec will automatically remove existing IKEv1/IKEv2 ACL Tunnels when the following critical parameters are changed in the crypto map:

- When the IPSec or IKE algorithms change in the IPSec/IKE transform set. For example, Encryption, Integrity, PRF, or DH Group algorithms.
- When authentication methods like PSK/Cert change locally or remotely.
- When the PSK keys change.
- When the certificate, CA-Cert list or CA-CRL list changes.
- When a peer address is changed or removed.
- When the transform set in the crypto-map is changed or removed.
- When an ACL rule that is added or deleted in the existing ACL which is attached to the map.
- When an ACL is removed from the map.
- When an ACL which is attached to the map is deleted.

- [IKEv1 only] When changes occur in the crypto group.
- [IKEv1 only] When changes occur to the IP-Pool which is associated to the crypto map.
- [IKEv1 only] When changes occur to the IKEv1 policy or policy parameters.

**Important**

Critical parameter changes inside the IKEv1 policy will delete all the established tunnels within that context.

## Remove Weak Security Algorithms

The following algorithms are considered weak and removed from the IPSec IKEv2 ACL mode:

|              |            |                              |
|--------------|------------|------------------------------|
| IKE Tunnel   | Encryption | DES-CBC, 3DES-CBC, NULL      |
|              | HMAC       | AES-XCBC-96, MD5-96, SHA1-96 |
|              | DH Group   | 1, 2                         |
|              | PRF        | AES-XCBC-128, MD5, SHA1      |
| IPSec Tunnel | Encryption | DES-CBC, 3DES-CBC, NULL      |
|              | HMAC       | AES-XCBC-96, MD5-96, SHA1-96 |
|              | DH Group   | 1, 2, none                   |

The following algorithms are considered weak and removed from the IPSec IKEv1 ACL mode:

|              |            |                   |
|--------------|------------|-------------------|
| IKE Tunnel   | Encryption | DES-CBC, 3DES-CBC |
|              | HMAC       | MD5               |
|              | DH Group   | 1, 2              |
| IPSec Tunnel | Encryption | DES-CBC, 3DES-CBC |
|              | HMAC       | MD5-96, none      |
|              | DH Group   | 1, 2              |

# Configuring ANSSI Enhancements

## Enabling Auto-deletion of Existing IKEv1/IKEv2 ACL Tunnels

Use the `ikesa delete on-mismatch` command to enable IPsec to automatically remove existing IKEv1 and IKEv2 ACL tunnels when critical parameters are changed in the crypto map.

```
configure
  ikesa delete on-mismatch
end
```

### Notes:

- As per ANSSI standards, this configuration cannot be removed once enabled. The configuration can be removed only by rebooting.
- Use this configuration only on trusted builds.

