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## 6.2.1 IKE Phase-1 profiling

The Internet Key Exchange protocol shall be used for negotiation of IPsec SAs. The following requirements on IKE in addition to those specified in NDS/IP [1] are made mandatory for inter-security domain SA negotiations over the Zainterface.

For IKE Phase 1 (ISAKMP SA):

3GPP TS 33.310 v1.0.0 (2003-12)

- The use of RSA signatures for authentication shall be supported;
- The identity of the CERT payload (including the SEG certificate) shall be used for policy checks;

Motivation: ISAKMP contains two different payloads that allow the specification of the endpoint identity, the ID payload and the CERT payload. Within the NDS/AF framework only the SEG certificate is sent within IKE Phase 1 so there will be no ambiguity is selecting the peer ID from the received certificates. See also section 3.1.2 of draft-ietf-ipsec-pki-profile-02.txt on Endpoint identification.

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- Initiating/responding SEG are required to send certificate requests in the IKE messages;

Motivation: suggested by draft-ietf-ipsec-pki-profile-02.txt to avoid interoperability problems

NOTE: At least an empty CERTREQ should be sent to avoid interoperability problems.

- Cross-certificates shall not be sent by the peer SEG as they are pre-configured in the SEG;

Motivation: avoiding known problems (see clause 5.3.5.2)

 The SEG shall always send its own certificate in the certificate payload of the last (third) IKE Main Mode message;

Motivation: avoids the need to cache Peer SEG certificates.

- The certificates in the certificate payload shall be encoded as type 4 (X.509 Certificate Signature);
- The lifetime of the Phase 1 IKE SA shall be limited to at most the remaining validity time of the peer SEG certificate.

NOTE: Depending on the availability of DNS between peer SEGs, the following rule is applied:

- subjectAltName and ISAKMP policy should both contain IP address (in case DNS is not available);
- subjectAltName and ISAKMP policy should both contain FQDN (in case DNS is available).