æ	<b>33.210</b>	CR CRNum	*rev	-	₩ Curi	rent vers	ion: <b>5.4</b>	1.0	ж
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Reason for change: ¥	<ol> <li>Current IKE profiling imposes undue requirements on interconnect networks.</li> <li>Mandatory DNS support forces operators to introduce undesired vulnerability potential into the NDS/IP environment.</li> </ol>						
0							
Summary of change: #	IP addresses are also allowed as IKE peer identification.						
Consequences if % not approved:	NDS/IP does not work in inter-domain networks without a common DNS hierarchy.						
Clauses affected: #	5.4						
Other specs % affected:	YNXOther core specificationsXTest specificationsXO&M Specifications						
Other comments: %							

## 5.4 Profiling of IKE

The Internet Key Exchange protocol shall be used for negotiation of IPsec SAs. The following additional requirement on IKE is made mandatory for inter-security domain SA negotiations over the Za-interface.

## For IKE phase-1 (ISAKMP SA):

- The use of pre-shared secrets for authentication shall be supported;
- Only Main Mode shall be used;
- Only IP addresses and Fully Qualified Domain Names (FQDN) shall be used supported for identification;
- Support of 3DES in CBC mode shall be mandatory for confidentiality;
- Support of SHA-1 shall be mandatory for integrity/message authentication.

Phase-1 IKE SAs shall be persistent with respect to the IPsec SAs is derived from it. That is, IKE SAs shall have a lifetime for at least the same duration as does the derived IPsec SAs.

The IPsec SAs should be re-keyed proactively, i.e. a new SA should be established before the old SA expires. The elapsed time between the new SA establishment and the cancellation of the old SA shall be sufficient to avoid losing any data being transmitted within the old SA.

## For IKE phase-2 (IPsec SA):

- Perfect Forward Secrecy is optional;
- Only IP addresses or subnet identity types shall be mandatory address types;
- Support of Notifications shall be mandatory.