Appendix I
Algorithm Identifier List

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Contents

1 Preface

The key words "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", "RECOMMENDED", "MAY", and "OPTIONAL" in this document are to be interpreted as described in RFC 2119.

2 Hash algorithm

Identifier	Algorithm name	Remarks
0x0000 - 0x2fff	*Unallocated*	
0x3000	MD2	
0x3001	MD4	
0x3002	MD5	
0x3003 - 0x5000	*Unallocated*	
0x5001	SHA1	
0x5002	SHA224	
0x5003	SHA256	
0x5004	SHA384	
0x5005	SHA512	
0x5005 - 0xc000	*Unallocated*	
0xc001	CRC32	
0xc002	CRC64	
0xc003 - 0xfdff	*Unallocated*	
0xfe00 - 0xfeff	Implementation specific algorithm	[1]
0xff00 - 0xffff	Reserved for future expansion	

1. Implementations MAY use this block of identifiers for algorithm that does not have any identifier allocated to it.

3 Encryption algorithm

Identifier	Cipher Type	Algorithm name	Remarks
0x0000 - 0x4fff		*Unallocated*	
0x5000	BLOCK	Null cipher	[1]
0x5001	STREAM	Null cipher	[1]
0x5002 - 0xae3f		*Unallocated*	
0xae40 - 0xae6f	BLOCK	*Reserved for AES family*	

Identifier	Cipher Type	Algorithm name	Remarks
0xae60 - 0xde4f		*Unallocated*	
0xde50	BLOCK	DES	[3]
0xde51	BLOCK	3DES	[3]
0xde52	BLOCK	DES with gzip	[3]
0xde53	BLOCK	3DES with gzip	[3]
0xde54 - 0xfdff		*Unallocated*	
0xfe00 - 0xfeff		Implementation specific algorithm	[2]
0xff00 - 0xffff		Reserved for future expansion	

1. Null cipher is not recommended to be used as it does not actually encrypt the data. Implementation SHOULD provide warning for using these cipher.

2. Implementations MAY use this block of identifiers for algorithm that does not have any identifier allocated to it.

3. Weak cipher, not recommended to be used.

4   Key derivation algorithm

Identifier	Algorithm name	Remarks
0x0000 - 0xfdff	*Unallocated*	
0xfe00 - 0xfeff	Implementation specific algorithm	[1]
0xff00 - 0xffff	Reserved for future expansion	

1. Implementations MAY use this block of identifiers for algorithm that does not have any identifier allocated to it.