

## ISO/IEC 9979 ALGORITHM REGISTER ENTRY

a.) ISO entry name	{ iso standard 9979 rc4-ssc (7) }
b.) Name of algorithm	RC4 Symmetric Stream Cipher™
c.) Intended range of applications	Confidentiality
d.) Cryptographic Interface Parameters	Input size: 8 bits Output size: 8 bits Key length: 8 to 2048 bits, multiples of 8
e.) Test Words	Key: fedc ba98 7654 3210 Input data: 0123 4567 89ab cdef Output data: dae1 0fb4 e886 c667
f.) Sponsoring Authority	ANSI
Registration Requested by	RSA Data Security, Inc.
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g.) Date of submission	January 4, 1994
Date of registration	October 31, 1994
h.) Whether the Subject of a National Standard	No.
i.) Patent - License Restrictions	Not patented. Proprietary to RSA Data Security, Inc.
j.) References	None.
k.) Description of Algorithm	The algorithm generates a pseudorandom byte stream from an internal table and adds the stream to the input data with a bitwise exclusive-or operation. The table is set up from a variable size key. Exact details will not be generally published.
l.) Modes of Operation	Additive Stream Cipher
m.) Other Information	RC4 takes 8-16 machine instructions per byte. Software implementations operate in excess of 900 Kbytes per second.
n.) Date of latest update of record	(to be determined)