AES Submission Checklist

4/14/98

(Sections have been reordered for ease of review)

2.A Cover Sheet (Barker, Foti)

Item	Requirement	Included?	Initials
No.			
1	Name of submitted algorithm		
2	Principal submitter's name, phone, FAX, organization, postal address, e-mail address)		
3	Name(s) of auxiliary submitter(s)		
4	Name of algorithm inventor(s)/developer(s)		
5	Name of algorithm owner		
6	Submitter's signature		
7	(Optional) Backup point of contact (name, phone, FAX, organization, postal address, e-mail address)		
Comm	ients:		

3. Minimum Acceptability Requirements (Barker, Foti)

Item	Requirements	Included?	Initials
No.			
8	The algorithm implements symmetric (secret) key cryptography.		
9	The algorithm is a block cipher.		
10	The algorithm supports key-block size combinations of 128-128, 192-128 and 256-128 bits as a		
	minimum.		

Comments:

2.E General Submission Requirements (Barker, Foti)

Item	Requirements	Included?	Initials
No.			
11	Required material in the submission packages are in English – includes the cover sheet, algorithm		
	specification, supporting documentation, source code and intellectual property information.		
12	Optional supporting materials may be provided in another language.		
13	Classified and proprietary materials not provided.		
Comm	ents:		

2.D Intellectual Property Statements/Agreements/Disclosures (See <u>http://csrc.nist.gov/encryption/aes/aes_9709.htm</u> for these statements) - Must be provided in hard copy form with handwritten signature(s) and other required signature information. (*Roback*)

Item	Section	Requirements	Included?	Initials
No.				
14	2.D.1	Statement of the Submitter is present and complete.		
15	2.D.2	Statement by Patent (and Patent Application) Owner(s) is present and complete.		
16	2.D.3	Statement by the owner(s) of the Reference/Mathematically Optimized Implementations is		
		present and complete.		

2.C.5 General Requirements for Magnetic Media (Barker, Foti)

Item	Requirements	Included?	Initials
No.			
17	Separate diskettes used for the reference implementations, mathematically optimized implementations,		
	test values and supporting materials.		
18	Magnetic media is free of viruses and other malicious code. NIST is to scan all diskettes before use.		
19	Magnetic media consists of 3.5" 1.44MB diskettes formatted for use on an IBM-compatible PC.		
20	A file labeled "README" is included on each diskette, listing and describing each file on the diskette.		
Comm	ients:		

2.B Algorithm Specifications and Supporting Documentation (See 2.C.4 for electronic media requirements; hard copy must be provided)

2.B.1 Complete written algorithm specification. (*Barker, Foti*)

Item No.	Requirement	Included?	Initials
21	Hard copy and electronic versions provided (see 2.C.4 for electronic version specifications).		

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Item	Requirement	Included?	Initials		
No.					
22	Includes math. equations, tables, diagrams and parameters, as appropriate).				
23	(Optional, but encouraged) Design rationale.				
24	Bit naming/numbering convention provided.				
25	No parity bits shall be specified in the key definition.				
Comm	ients:				

2.B.2 Statement of the algorithm's computational efficiency in hardware and software. (*Barker, Foti*)

Item		Requirements			Requirements Included?			Initials
No.								
26	Hard copy a	d copy and electronic versions provided (see 2.C.4 for electronic version						
	specification	pecifications).						
27	Efficiency	Platform description (see						
	estimates	http://csrc.nist.gov/encryption/aes/	aes_9709.htm).					
	for the							
	NIST			128/128	192/128	256/128		
	AES							
28	analysis	Speed estimates (in clock cycles)	Encrypt one data block					
29	platform.	for each key/block size	Decrypt one data block					
30		combination.	Key setup					
31			Algorithm setup					
32			Key change					
33		(Optional) Tradeoffs between spee	d and memory.					

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Item		Requiremen	ts		Included?		Initials
No.							
24							1
34	Efficiency	Platform description.					
	estimates			100/100	100/100	256/129	
25	Ior 8-bit	Constanting to a final and and a	En emert en e dete ble de	128/128	192/128	250/128	
35	processors	Speed estimates (in clock cycles)	Encrypt one data block				
36	-	for each key/block size	Decrypt one data block				-
37	-	combination.	Key setup				
38	-		Algorithm setup				
39			Key change				
	-						
40		(Optional) Tradeoffs between spee	ed and memory.				
							1
41	(Optional)	Platform description.					
	Efficiency					1	
	estimates			128/128	192/128	256/128	
42	for other	Speed estimates (in clock cycles)	Encrypt one data block				
43	platforms.	for each key/block size	Decrypt one data block				
44		combination.	Key setup				
45			Algorithm setup				
46			Key change				
47		(Optional) Tradeoffs between spee	ed and memory.				
Comm	nents:						

2.B.3 Known Answer tests (KATs) and Monte Carlo Tests (MCTs). (In separate files on a diskette as described in 2.C.3; may be compressed using PKZIP or GNUZIP; see http://csrc.nist.gov/encryption/aes/ katmct/katmct.htm – Description of KATs and MCTs. A written hard copy of the tests is NOT required.) (Foti, Bassham, Dray, Barker)

Variable Key Known Answer Test (for the encryption state) – ECB mode.. See <u>http://csrc.nist.gov/encryption/aes/katmct/ecb_vk.txt</u> for an example.

Item		Requirements	Included?	Initials
No.		_		
48	File name = $ecb_{}$	vk.txt		
49	Keys, plaintext an	nd ciphertext represented as ASCII hexadecimal characters. Index and key size are		
	expressed as base	10 numbers.		
50	Correct header – t	filename, ECB mode, test name, algorithm name and principal submitter.		
51	Key size $= 128$	Key size, plaintext, index, key and ciphertext correctly labeled as specified in the		
		example file.		
52		All zero plaintext for each encryption.		
53		128 index, key, ciphertext triples.		
54		Keys contain a single one bit and 127 zero bits.		
55		Each ciphertext decrypts to all zero plaintext.		
56	Key size $= 192$	Key size, plaintext, index, key and ciphertext correctly labeled as specified in the		
		example file.		
57		All zero plaintext for each encryption.		
58		192 index, key, ciphertext triples.		
59		Keys contain a single one bit and 191 zero bits.		
60		Each ciphertext decrypts to all zero plaintext.		
61	Key size $= 256$	Key size, plaintext, index, key and ciphertext correctly labeled as specified in the		
		example file.		
62		All zero plaintext for each encryption.		
63		256 index, key, ciphertext triples.		
64		Keys contain a single one bit and 255 zero bits.		
65		Each ciphertext decrypts to all zero plaintext.		
66	If applicable,	Additional file(s) - Key size, plaintext, index, key and ciphertext correctly labeled as		
	other key and/or	specified in the example file.		
	block sizes			

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Item		Requirements Included? In		
No.				
67	(Key size $=$ N)	All zero plaintext for each encryption.		
68	(Optional)	N index, key, ciphertext triples.		
69		Keys contain a single one bit and N-1 zero bits.		
70		Each ciphertext decrypts to all zero plaintext.		
Comm	ents:			

Variable Plaintext Known Answer Test(for the encryption state) – ECB mode. See <u>http://csrc.nist.gov/encryption/aes/katmct/ecb_vt.txt</u> for an example.

Item		Requirements	Included?	Initials	
No.					
71	File name = ecb_{-}	vt.txt.			
72	Keys, plaintext ar	eys, plaintext and ciphertext represented as ASCII hexadecimal characters. Index and key size are			
	expressed as base	10 numbers.			
73	Correct header –	filename, ECB mode, test name, algorithm name and principal submitter.			
74	Key size $= 128$	Key size, key, index, plaintext and ciphertext correctly labeled as specified in the			
		example file.			
75		All zero key for each encryption.			
76		128 index, plaintext, ciphertext triples.			
77		Plaintext contains a single one bit and 127 zero bits.			
78		Each ciphertext decrypts to the original plaintext.			
79	Key size = 192	Key size, key, index, plaintext and ciphertext correctly labeled as specified in the			
		example file.			
80		All zero key for each encryption.			

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Item	Requirements Included?			Initials
No.				
81		128 index, plaintext, ciphertext triples.		
82		Plaintext contains a single one bit and 127 zero bits.		
83		Each ciphertext decrypts to the original plaintext.		
84	Key size $= 256$	Key size, key, index, plaintext and ciphertext correctly labeled as specified in the		
		example file.		
85		All zero key for each encryption.		
86		128 index, plaintext, ciphertext triples.		
87		Plaintext contains a single one bit and 127 zero bits.		
88		Each ciphertext decrypts to the original plaintext.		
89	If applicable,	Additional file(s) - Key size, key, index, plaintext and ciphertext correctly labeled as		
	other key and/or	specified in the example file.		
	block sizes			
90	(Key size $=$ N)	All zero key for each encryption.		
91	(Optional)	128 index, plaintext, ciphertext triples.		
92		Plaintext contains a single one bit and 127 zero bits.		
93		Each ciphertext decrypts to the original plaintext.		
Comm	ents:			

Intermediate Values Known Answer Test (If applicable) – Encryption and Decryption

Item No.	Requirements	Included?	Initials
94	File name = [IDENTIFY]		
95	Description of what is being tested.		

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Item		Requirements	Included?	Initials	
No.					
96	Keys, plaintext, ir	ntermediate values and ciphertext represented as ASCII hexadecimal characters. Index			
	and key size are e	expressed as base 10 numbers.			
97	Precise description of how and where testing is performed in the algorithm.				
98	Correct header – t	filename, ECB mode, test name, algorithm name and principal submitter.			
99	Key size $= 128$	Key size, key, index, plaintext, intermediate values and ciphertext correctly labeled.			
100		Key, plaintext and ciphertext specified.			
101		Index and intermediate value pairs as appropriate for one encryption.			
102		Index and intermediate value pairs as appropriate for one decryption back to the original plaintext.			
103	Key size = 192	Key size, key, index, plaintext, intermediate values and ciphertext correctly labeled.			
104		Key, plaintext and ciphertext specified.			
105		Index and intermediate value pairs as appropriate for one encryption.			
106		Index and intermediate value pairs as appropriate for one decryption back to the original plaintext.			
107	Key size = 256	Key size, key, index, plaintext, intermediate values and ciphertext correctly labeled.			
108		Key, plaintext and ciphertext specified.			
109		Index and intermediate value pairs as appropriate for one encryption.			
110		Index and intermediate value pairs as appropriate for one decryption back to the original plaintext.			
111	If applicable,	Key size, key, index, plaintext, intermediate values and ciphertext correctly labeled.			
112	other key and/or	Key, plaintext and ciphertext specified.			
	block sizes				
113	(Key size $=$ N)	Index and intermediate value pairs as appropriate for one encryption.			
114	(Optional)	Index and intermediate value pairs as appropriate for one decryption back to the			
		original plaintext.			
Comm	ients:				
110 111 112 113 114 Comm	If applicable, other key and/or block sizes (Key size = N) (Optional)	Index and intermediate value pairs as appropriate for one decryption back to the original plaintext. Key size, key, index, plaintext, intermediate values and ciphertext correctly labeled. Key, plaintext and ciphertext specified. Index and intermediate value pairs as appropriate for one encryption. Index and intermediate value pairs as appropriate for one decryption back to the original plaintext.			

Tables Known Answer Test (if applicable)– ECB Mode. See <u>http://csrc.nist.gov/encryption/aes/katmct/ecb_tbl.txt</u> for an example.

Item		Requirements	Included?	Initials
<u>No.</u>	T '1 1	11		
115	File name = ecb_tbl.txt.			
116	Keys, plaintext ar			
	expressed as base	10 numbers.		
117	Correct header – 1	filename, ECB mode, test name, algorithm name and principal submitter. Include a		
	description of wh	at tables are tested (see example file specified above).		
118	Key size $= 128$	Key size, key, index, plaintext and ciphertext correctly labeled as specified in the		
		example file for an encryption.		
119		Index, key, plaintext, ciphertext sets. The number of sets is algorithm dependent.		
120		Each ciphertext decrypts to the original plaintext.		
121	Key size $= 192$	Key size, key, index, plaintext and ciphertext correctly labeled as specified in the		
		example file for an encryption.		
122		Index, key, plaintext, ciphertext sets. The number of sets is algorithm dependent.		
123		Each ciphertext decrypts to the original plaintext.		
124	Key size $= 256$	Key size, key, index, plaintext and ciphertext correctly labeled as specified in the		
		example file for an encryption.		
125		Index, key, plaintext, ciphertext sets. The number of sets is algorithm dependent.		
126		Each ciphertext decrypts to the original plaintext.		
127	If applicable,	Additional file(s) - Key size, key, index, plaintext and ciphertext correctly labeled as		
	other key and/or	specified in the example file for an encryption.		
	block sizes			
128	(Key size $=$ N)	Index, key, plaintext, ciphertext sets. The number of sets is algorithm dependent		
129	(Optional)	Each ciphertext decrypts to the original plaintext.		
Comm	ents:			

ECB Encrypt Monte Carlo Tests. See <u>http://csrc.nist.gov/encryption/aes/katmct/ecb_e_m.txt</u> for an example.

Item		Requirements	Included?	Initials
No.				
130	Filename = ecb_e	_m.txt		
131	Keys, plaintext and ciphertext represented as ASCII hexadecimal characters. Index and key size are expressed as base 10 numbers.			
132	Correct header –	filename, ECB mode, test name, algorithm name and principal submitter.		
133	Key size = 128	Key size, index, key, plaintext and ciphertext correctly labeled as specified in the example file.		
134		400 sets of index, key, plaintext, and ciphertext are present.		
135	Key size = 192	Key size, index, key, plaintext and ciphertext correctly labeled as specified in the example file.		
136		400 sets of index, key, plaintext, and ciphertext are present.		
137	Key size = 256	Key size, index, key, plaintext and ciphertext correctly labeled as specified in the example file.		
138		400 sets of index, key, plaintext, and ciphertext are present.		
139	If applicable, other key and/or block sizes	Additional file(s) - Key size, index, key, plaintext and ciphertext correctly labeled as specified in the example file.		
140	(Optional)	400 sets of index, key, plaintext, and ciphertext are present.		
Comm	nents:			

ECB Decrypt Monte Carlo Tests. See <u>http://csrc.nist.gov/encryption/aes/katmct/ecb_d_m.txt</u> for an example.

Item		Requirements	Included?	Initials
No.				
141	$Filename = ecb_d$	_m.txt		
142	Keys, plaintext and ciphertext represented as ASCII hexadecimal characters. Index and key size are expressed as base 10 numbers.			
143	Correct header -	filename, ECB mode, test name, algorithm name and principal submitter.		
144	Key size = 128	Key size, index, key, ciphertext and plaintext correctly labeled as specified in the example file.		
145		400 sets of index, key, ciphertext, and plaintext are present.		
146	Key size = 192	Key size, index, key, ciphertext and plaintext correctly labeled as specified in the example file.		
147		400 sets of index, key, ciphertext, and plaintext are present.		
148	Key size = 256	Key size, index, key, ciphertext and plaintext correctly labeled as specified in the example file.		
149		400 sets of index, key, ciphertext, and plaintext are present.		
150	If applicable, other key and/or block sizes	Additional file(s) - Key size, index, key, ciphertext and plaintext correctly labeled as specified in the example file.		
151	(Optional)	400 sets of index, key, ciphertext, and plaintext are present.		
Comm	nents:			

CBC Encrypt Monte Carlo Tests. See <u>http://csrc.nist.gov/encryption/aes/katmct/cbc_e_m.txt</u> for an example.

Item		Requirements	Included?	Initials
No.				
152	$Filename = cbc_e$	_m.txt		
153	Keys, IV, plaintext and ciphertext represented as ASCII hexadecimal characters. Index and key size are expressed as base 10 numbers.			
154	Correct header - t	filename, CBC mode, test name, algorithm name and principal submitter.		
155	Key size = 128	Key size, index, key, IV, plaintext and ciphertext correctly labeled as specified in the example file.		
156		400 sets of index, key, IV, plaintext, and ciphertext are present.	ļ	
157	Key size = 192	Key size, index, key, IV, plaintext and ciphertext correctly labeled as specified in the example file.		
158		400 sets of index, key, IV, plaintext, and ciphertext are present.		
159	Key size = 256	Key size, index, key, IV, plaintext and ciphertext correctly labeled as specified in the example file.		
160		400 sets of index, key, IV, plaintext, and ciphertext are present.		
161	If applicable, other key and/or block sizes	Additional file(s) - Key size, index, key, IV, plaintext and ciphertext correctly labeled as specified in the example file.		
162	(Optional)	400 sets of index, key, IV, plaintext, and ciphertext are present.		
Comm	ients:			

CBC Decrypt Monte Carlo Tests. See <u>http://csrc.nist.gov/encryption/aes/katmct/cbc_d_m.txt</u> for an example.

Item		Requirements	Included?	Initials
No.				
163	Filename = cbc_d	_m.txt		
164	Keys, IV, ciphertext and plaintext represented as ASCII hexadecimal characters. Index and key size are expressed as base 10 numbers.			
165	Correct header - t	filename, CBC mode, test name, algorithm name and principal submitter.		
166	Key size = 128	Key size, index, key, IV, ciphertext and plaintext correctly labeled as specified in the example file.		
167		400 sets of index, key, IV, ciphertext, and plaintext are present.		
168	Key size = 192	Key size, index, key, IV, ciphertext and plaintext correctly labeled as specified in the example file.		
169		400 sets of index, key, IV, ciphertext, and plaintext are present.		
170	Key size = 256	Key size, index, key, IV, ciphertext and plaintext correctly labeled as specified in the example file.		
171		400 sets of index, key, IV, ciphertext, and plaintext are present.		
172	If applicable, other key and/or block sizes.	Additional file(s) - Key size, index, key, IV, ciphertext and plaintext correctly labeled as specified in the example file.		
173	(Optional)	400 sets of index, key, IV, ciphertext, and plaintext are present.		
Comm	nents:			

DRAFT**2.B.4** Statement of Expected Strength (i.e., work factor) (*Barker, Foti*)

Item		Requirements	Included?	Initials
No.				
174	Hard copy and electronic	versions required (see 2.C.4 for electronic version specifications).		
175	Key size $= 128$	Expected strength.		
176	Block size $= 128$	Supporting rationale.		
177	Key size $= 192$	Expected strength.		
178	Block size $= 128$	Supporting rationale.		
179	Key size $= 256$	Expected strength.		
180	Block size $= 128$	Supporting rationale.		
181	Other key size & block	Expected strength.		
182	size combinations	Supporting rationale.		
	(Required, if applicable)			
Comm	ients:			

2.B.5 Algorithm Analysis (Barker, Foti)

Item	Requirements	Included?	Initials
No.			
183	Hard copy and electronic versions required (see 2.C.4 for electronic version specifications).		
184	Analysis of the algorithm with respect to known attacks		
185	Statement regarding known weak keys, equivalent keys complementation properties, restrictions on key		
	selection and other similar features. Must be addressed even if these values are unknown.		
186	Statement regarding any mathematical rationale for the non-existence of "trap doors".		
187	List of known references to published materials describing or analyzing the security of the algorithm.		

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Item	Requirements	Included?	Initials	
No.				
188	(Optional, but encouraged) Copies of published materials plus copyright waiver or permission from the			
	copyright holder for AES public evaluation purposes.			
Comm	ents:			

2.B.6 Algorithm Advantages and Limitations (Barker, Foti)

Item	Requirements	Included?	Initials
No.			
189	Hard copy and electronic versions required (see 2.C.4 for electronic version specifications).		
190	General statement that lists and describes the advantages and limitations of the algorithm.		
191	Statement of the ability to implement the algorithm as a stream cipher, MAC generator, pseudo-random		
	number generator, hashing algorithm, etc. Each must be addressed even if the advantages/liabilities are		
	unknown.		
192	Statement of the ability to implement the algorithm in various environments, including 8-bit processors		
	(smart cards), ATM, HDTV, B-ISDN, voice applications, satellite applications, etc. Each must be		
	addressed even if the advantages/liabilities are unknown.		
193	(Optional) Specification of the algorithm in a non-proprietary Hardware Description Language (HDL).		
194	Statement of the ability to use the algorithm with key and block sizes other than the required		
	combinations.		
195	(Optional) Other advantageous features of the algorithm listed and described along with supporting		
	rationale.		

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Item	Requirements	Included? Initials
No.		
Comments:		

2.C Magnetic Media

2.C.1 Reference Implementation (Bassham)

Item	Requirements	Included?	Initials
No.			
196	ANSI C source code (reference implementation) uses NIST-specified API. (either new version or 4/6/98	API used:	
	version)		
197	Code contains appropriate comments.		
198	Comments map to the algorithm description in 2.B.1.		
199	Supports a key size of 128 and block size of 128.		
200	Supports a key size of 192 and block size of 128.		
201	Supports a key size of 256 and block size of 128.		
202	Supports all other key sizes and block sizes which have been claimed in 2.B.6 (Required).		
203	ANSI C source code for implementing the Known Answer tests for the reference implementation.		
204	ANSI C source code for implementing the Monte Carlo tests for the reference implementation.		
205	Source code for exercising the KATs and MCTs outputs data in formats specified in 2.B.3.		
	(Run software and verify that correct output values are generated.)		
206	Code for the ANSI C reference implementation, KATs, and MCTs provided on a single diskette, labeled		
	with the submitter's name, algorithm name and "Reference Implementation". For preliminary		
	submissions, there may be a separate disk marked "Reference Implementation – KATs and MCTs" for		
	the KAT/MCT source code. Both the reference implementation and KAT/MCT source code should		
	eventually be placed on the "Reference Implementation" disk for the final submission.		

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Item	Requirements	Included?	Initials
No.			
207	(Optional) Instructions for interfacing the reference implementation.		
208	Instructions for running the Known Answer Test and Monte Carlo Tests.		
Comm	ents:		

2.C.2 Mathematically Optimized Implementations (See http://csrc.nist.gov/encryption/aes/aes_9709.htm) (Bassham, Dray)

Item		Requirements	Included?	Initials
No.				
210	ANSI C	Optimized implementation provided in ANSI C source code.		
211		Uses NIST-specified API. (either new version or 4/6/98 version)	API used:	
	Bassham			
212		Includes comments and clarifications of changes (see API example).		
213		Supports key size = 128 , block size = 128 .		
214		Supports key size = 192 , block size = 128 .		
215		Supports key size = 256 , block size = 128 .		
216		(Optional) Supports other key and block sizes specified in 2.B.6.		
217		Supports ECB mode for encryption and decryption.		
218		Supports CBC mode for encryption and decryption.		
219		Supports 1-bit CFB mode for encryption and decryption.		
220		Source code for exercising Known Answer Tests (KATs) and Monte Carlo Tests (MCTs)		
		for the ANSI C optimized implementation. (not required for Intermediate Values KATs)		
		*(Run software and verify that correct output values are generated.)		
221		Code for the ANSI C optimized implementation, KATs and MCTs supplied on a diskette		
		labeled with the submitter's name, algorithm name and "Optimized ANSI C".		

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Item		Requirements	Included?	Initials	
No.					
222	Java	Optimized implementation provided in Java source code			
223		Uses cryptographic API defined by NIST/Cryptix new Java API spec as specified in	API used:		
	Dray	http://csrc.nist.gov/encryption/aes/api/api.htm.; may use either the Java Cryptography			
		Architecture (JCA) and the Java Cryptography Extension (JCE) – version 1.2 – or IJCE 1.1			
		for preliminary submissions.			
224		(If using JCE or IJCE API) Cryptography Package Provider (CPP) supplied which			
		implements the algorithm. The provider package name must follow the naming conventions			
		specified in the Cryptographic API Profile. (Evaluator- make sure this is entered on the			
	-	checklist cover sheet.)			
225	-	Supports key size = 128, block size = 128.			
226		Supports key size = 192, block size = 128.			
227	-	Supports key size = 256, block size = 128.			
228		(Optional) Supports other key and block sizes specified in 2.B.6.			
229		Supports ECB mode for encryption and decryption.			
230		Supports CBC mode for encryption and decryption.			
231		Supports 1-bit CFB mode for encryption and decryption.			
232		Source code for exercising Known Answer Tests and Monte Carlo Tests for the Java			
		optimized implementation. (not required for Intermediate Values KATs)			
	-	*(Run software and verify that correct output values are generated.)			
233		Code for the Java optimized implementation, KATs and MCTs supplied on a diskette labeled			
		with the submitter's name, algorithm name and "Optimized Java".			
Comm	ents:				

DRAFT 2.C.3 Test Values – Known Answer Tests and Monte Carlo Tests (Bassham, Dray)

Item	Requirements	Included?	Initials
No.			
234	KAT and MCT test values from 2.B.3 on a single diskette.		
235	(Optional) May be compressed using PKZIP or GNUZIP.		
236	Diskette is labeled with submitter's name, algorithm name and "Test Values: Known Answer Tests and		
	Monte Carlo Tests".		
Comm	ients:		

2.C.4 Supporting Documentation (Barker, Foti)

Item	Requirements	Included?	Initials
No.			
237	All written (hard copy) materials must also be submitted in Postscript or Adobe PDF. PDF is preferable.		
238	PDF files (if used) use thumbnail and bookmark features and a clickable table of contents (optional, but		
	encouraged).		
239	Postscript files (if used) use standard Postscript printer fonts.		
240	Materials provided on diskette(s) labeled with the submitter's name, algorithm name and "Supporting		
	Documentation".		
241	If multiple diskettes are used, include "# m of n " on the label, where n is the number of diskettes, and		
	$1 \mathrm{fm} \mathrm{fn}$.		
Comm	nents:		