## **Network Device Interpretation # 202414**

## Definition of a Known-good Implementation for FCS\_CKM.2 Tests

Status:			Inactive		
Date: 10-Mar-2025					
End of proposed Transit	tion Period (to be updated afte	r TR2TD	process): 10-Ma	ar-2025	
Type of Change:	Immediate application	Min	or change	Major change	
Type of Document:	☐ Technical Decision		Technical R	ecommendation	
Approved by:	Network iTC Interpretation ■ Network iTC Interpretation Network iTC Interp	ns Team	Network iT	С	
Affected Document(s):	NDcPP v3.0e, NDSD v3.0				
Affected Section(s): FCS_CKM.2					
Superseded Interpretation(s): None					
Issue:					
lssue:					
implementation" in the	cactly is intended/expected for context of the FCS_CKM.2 testine. (i.e. no ACVP testing required)	ts for wh	_	_	
RSA-based key estab	lishment				
	82. The evaluator shall verify the correctness of the TSF's implementation of RSAES-PKCS1-v1_5 by using a known good implementation for each protocol				
selected in FTF	selected in FTP_TRP.1/Admin, FTP_TRP.1/Join, FTP_ITC.1 and FPT_ITT.1 that				
uses RSAES-PK	CS1-v1_5.				

## FFC Schemes using "safe-prime" groups

83. The evaluator shall verify the correctness of the TSF's implementation of safeprime groups by using a known good implementation for each protocol selected

in FTP\_TRP.1/Admin, FTP\_TRP.1/Join, FTP\_ITC.1 and FPT\_ITT.1 that uses safe- prime groups. This test must be performed for each safe-prime group that each protocol uses.

My previous understanding was that using a well-accepted library (e.g. openssl) to demonstrate compatibility with the TOE through testing for the claimed protocols would demonstrate the implementation was acceptable, but it's possible that this is incorrect and some alternative testing is needed, so rather than make a guess at arguing what is allowed for this, I figured it made more sense to go straight to the source.

you that there is actually ACVP testing for safe prime key generation (verification) nd ct"

KAS-FFC-SSC 800-56Ar3 my thought is that this could be argued as satisfying the "known good implementation" requirement, but I didn't know if that was overkill. But since there is no RSAES-PKCS1-v1_5 RSA key establishment testing to my knowledge, I'm not actually sure what the "correct" way to test FCS_CKM.2 RSA claims would be in that case.
Proposed resolution:
None
Resolution:
The NIT rejects this RFI due to the difficulties in reaching consensus regarding the definition of a "knowngood" implementation that would be acceptable to all Schemes.
Rationale:
What constitutes an approved implementation is a Scheme decision, therefore the NIT is unable to provide a definitive answer to this question.
Further Action:
None
Action by Network iTC:
None