

Code compiled using compiler	<compiler name>	<version>
Compilation flags used		
Does code compile, without any error and warnings. If there are warnings, please mention those warnings. It is preferred that code is compiled with Insure also.(Optional)		
Readiness Index	-100.00%	

Guidelines Checkpoints					
Naming Conventions Checkpoints					
S. No.	Checkpoints	Yes/No/NA (Originator)	Comments (Originator)	Yes/No/NA (Reviewer)	Comments (Reviewer)
1	Are all files named according to Guidelines followed? According to AAPE, All files should have a name in the format <name><sep><ext>, where, <name>: alphanumeric characters up to eight characters in length, <sep>: is a period, <ext>: is an alphanumeric extension of up to three characters in length. All characters shall be in lowercase. The <name> field of the file should be split to represent the stack entity of the protocol suite and the module. If any characters are left and if multiple files are within a directory, the remaining length of the <name> can be used to identify the files. For example, a file of the Control protocol suite (of V5) belonging to the FSM module of ISDN-BA shall be named as: ctfsmib.c, ct: Control Protocol, fsm: FSM Module, i: ISDN, b: BA. Files that are common across protocols in a protocol suite shall bear the protocol suite prefix in their names. For example, v5global.h is a file common to all V5 protocols containing globally declared and accessible symbols and definitions.	Yes			
2	Are all symbol names follow the guidelines? According to AAPE, All symbols should be 32 characters or lesser in length. Underscore should be used to improve readability. Do not use case intermixing. Abbreviations should be consistent across the code.	Yes			
3	Are all functions named according to guidelines followed? According to AAPE, All function names shall have a prefix that gives the stack entity name code and the module name code. It shall be of the following form: <x>_<y>_<z> Where, x: protocol stack entity code (not more than 4 chars) y: module name code (not more than 3 chars) z: rest of the function name	Yes			
4	Are all variables named according to guidelines followed? According to AAPE, All global variables should be prefixed with a unique prefix. This prefix represents the stack entity. All static variables should be prefixed with a unique prefix. This prefix represents the stack entity and module. All pointer variables should be prefixed with p_. A global (static) variable that is a pointer shall be prefixed with p_<x>_, where, <x> is the stack (module) prefix.	Yes	Camel Case is used		
5	Are all constants, literals, enumerations, MACRO names are in Uppercase?	Yes			
Coding Style Checkpoints					
File Organizations					
S. No.	Checkpoints	Yes/No/NA (Originator)	Comments (Originator)	Yes/No/NA (Reviewer)	Comments (Reviewer)
1	Does each header file contain provisions to counter erroneous multiple inclusions? For example, included files may include other files. To avoid multiple inclusions, protections are added to detect an already loaded include file. #ifndef SAMPLE #define SAMPLE.... #endif	Yes			
2	Do all files have proper and complete file headers according to guidelines followed?	Yes			
Code Commenting & Indentation					
3	Is it ensured that any commented out source code is removed and no #if n source code (n is any number) is present?	Yes			
4	Is there any hack /offensive code? If yes, is it commented appropriately with proper justification or not?	No	There is no hack or offensive code		

5	Do the comments correspond completely to the code and comments are present for all complex legs of the code. Comments in block format should precede the statement/ group of statements. Block – end comment is given for every block where there are more than 10 statements.(Refer Coding guideline for change)	Yes			
6	Are all global variables declared in a module bear the comment explaining the intent, functionality and modified by module description?	Yes			
7	Is the code indentation consistent across all files? Also, Comment style used should be same. All horizontal lines of code should be within limit of 80 characters. Each line of source code has only one statement. If an expression is split in the code to the next line, it is always split before a unary operator and after a binary operator. In case of modification of an already existing source file, same convention need to follow. If changes are required, it should be applicable for the source file as a whole.	Yes			
Functions					
8	Do all functions have complete and up to date Function Headers? According to AAPE, every global C function should have a header with function description. Groups of short, nearly identical static functions may be gathered under a single header. For more details refer appendix C.2 of AAPE.	Yes			
9	Is the size of more than 80% (preferably all) functions in the file reviewed less than 200 lines. If no, the code needs to be made more modular.	Yes			
Code Features					
10	Are all global variable explicitly initialized? Preferably global variables should be minimized to make code MT-safe.	Yes			
11	Is enough preference given to static variables in different files? Similarly functions used within the same files should explicitly be defined as static.	Yes			
12	Is the code free from magic numbers (hardcoding)? Only, "0 and 1" are allowed to be used directly in the code. Common usage of return values like SUCCESS and FAILURE should be 0 and 1 respectively.	Yes			
13	Is it ensured that all variables are initialized explicitly before using the value carried by them?	Yes			
14	Is there any fall through statement in switch ? If yes is it commented?	Yes	There is no switch statement used		
15	Do all if-else statement follow fully-bracketed syntax?	Yes			
16	Is it ensured that there are no floating numerical constants? Or if exist then comment is provided with justification.	Yes			
17	Pointers (or references) have been used as function parameters wherever structures or arrays are required to be passed to the function.	Yes			
18	Is code free from local variable definitions of large sized array and structures?	NA			
19	Is NULL used for pointers, 0 for integers and '0' for strings?	Yes			
20	MACROs are defined with parenthesis enclosing the replacement text. MACROs definition doesn't end with a semicolon.If multiple replacement statements, the definition is enclosed by curly-braces.	Yes			
21	Does code have deterministic memory needs? Has developer estimated and mentioned the memory requirements in his code?	NA			
22	Every system and library call (like calls to acquire memory, IPC etc) is checked for return values.	Yes			
23	Basic data types of C shall not be used directly within the code. Instead a layer of types should be introduced based on the sign and length of the basic data type required.	Yes	There is no conlfit with basic datatype		

Other Checkpoints					
Programming Checkpoints					
S. No.	Checkpoints	Yes/No/NA (Originator)	Comments (Originator)	Yes/No/NA (Reviwer)	Comments (Reviewer)
1	Are the conditional loops working correctly for the boundary conditions? (both underflow/overflow shall be checked)	Yes			
2	Is code consistent with API document also? (If applicable)	NA			
3	Are all possible messages / events handled in all states? (specially the error conditions/messages)	Yes			
4	Are all data structures chosen for optimum speed/memory behavior?	Yes			
5	Are the Identified corner cases, validating the boundary conditions?	Yes			
Quality Checkpoints					
S. No.	Checkpoints	Yes/No/NA (Originator)	Comments (Originator)	Yes/No/NA (Reviwer)	Comments (Reviewer)
1	Is the tracability matrix updated for this piece of code? If yes, provide the path also.	Yes			
2	Has the updated RTM been sent along with source code for review? (RTM should also be a part of the deliverable for review)	Yes			
3	Is any tool used to do the static checking? (For example splint) If yes, provide the result also.	Yes			
4	Is insure/purify used?	No	Valgrind is used instead	No	Valgrind is used instead