Code Review Check list   Date: 13.2.14

Reviewer: **Martin Oehler**
Use Case: **#10 TCP Packet**

Description	Comment	check
Structure		
Does the solution only cover the modules task?		X
Is the code well-structured, consistent in style and consistently formatted?		X
Is there unreachable code?		X
Are there any leftover stubs or test routines?		X
Is there any redundant code?		X
Are any modules excessively complex?		X
Documentation		
Are the comments consistent?		X
Are the comments sufficient and understandable?	- "receive" multiple times written as "recieve" - method 'setFlags', no explanation of the flags or the order tcppacket.hpp::119 something is wrong in that sentence - Class comment is not sufficient, give explanation how to use the class e.g. that you have to call 'calculateChecksum' - Comments for private member variables are missing	
Variables and Methods		
Are all variables/methods properly defined with meaningful, consistent names?	tcppacket.cpp::292: 'vec' is not a sufficient name tcppacket.cpp::338: no abbreviation ('ins')	
Are there any redundant or unused variables/methods?		X
Loops and Branches		
Are all cases covered in IF-blocks?		X
Are logical structures nested correctly?		X
Are loop termination conditions achievable?		X
Are indexes properly initialized?		X
Defensive Programming		
Are indexes and pointers tested against array bounds?	tcppacket.cpp::410 size of 'vec' isn't tested. error if vec is shorter than 32.	

Are imported data and input arguments tested for validity and completeness?	tcppacket.cpp::337: no test if *end* is bigger than *start*. negative value leads to error.	
Are all output variables assigned?		X
Is every memory allocation deallocated?		X
Code Conventions		
Are the Code Conventions fulfilled?		X
Do the tests have statement coverage?		X