Title : A systematic approach leading to the decision to use or to purchase high technology components, devices, equipment or systems.

Claim 1

A systematic approach leading to the purchase and use of high technology components, devices, equipment or systems has been proposed which included Claim 1, the Pre-Conception Map (FIGURE 1: Drawing 1 - Pre-Conception Map) which consisted of the factors affecting the choice of high technology wireless/microwave/radio frequency (RF) components, devices, equipment or systems namely,

a. Local governmental regulations
b. Technology (including environmental friendliness via the use of green technology)
c. Cost
d. Country of manufacturer
e. Warranty

and the listing of the local governmental regulation website, as well as the use of the Federal Communications Commission (FCC), the United States' governing body for the electromagnetic spectrum and their safety regulations on the level of radiation emissions, as the technology regulator.

Description

From a product quality standpoint, advancement in technology should ideally lead to the development of greener, lower cost and better quality products. From the technology, quality and cost stand point, the high technology components, devices, equipment or systems should ideally possess but not limited to the following features or capabilities, namely

a. Energy efficient - The high technology components, devices, equipment or systems should consume as little energy as possible, that is it should have a low overall system energy consumption to usage ratio.
b. Good signal reception - Better signal quality such as in the case of mobile handsets clearer sound quality, lesser drop calls and better coverage.
c. Improve bandwidth utilization
d. Lower cost per unit bandwidth utilization.
e. Better product features.
f. Improvement in radiation emissions, that is lower levels of radiation emissions.
g. A more sensitive wireless/microwave/radio frequency (RF) front end receiver.
h. A more efficient wireless/microwave/radio frequency (RF) power amplifier.
i. Does not break down or malfunction.
j. A better-quality power source such as battery which does not have a history of exploding.
k. Long term cost saving features such as high initial purchase cost of the high technology components, devices, equipment or systems but low overall system energy consumption to usage ratio and advance or multiple product features.

Claim 2

A systematic approach leading to the decision to use or to purchase the high technology components, devices, equipment or systems has been proposed.

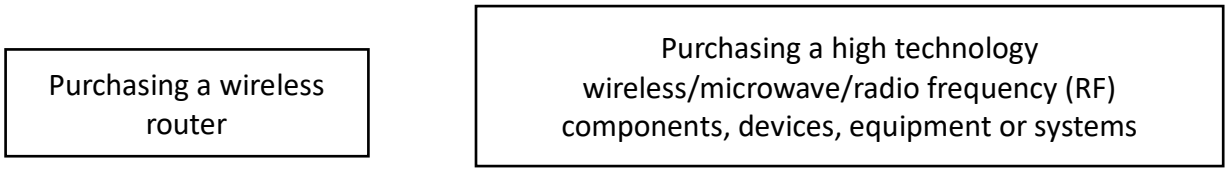
The decision to purchase high technology components, devices, equipment or systems ~~(Drawing 3)~~ (FIGURE 3 - Drawing 3 & FIGURE 3a - Drawing 3a) such as a wireless router ~~(DRAWING 2)~~ (FIGURE 2 – DRAWING 2 & FIGURE 2a – DRAWING 2a) is dependent upon the approval by FCC (Federal Communications Commission) and local governmental regulations such as the regulations that have been stipulated by IDA (Infocomm Development authority Of Singapore). Once the high technology components, devices, equipment or systems have been approved by FCC with usage regulated by the local governmental regulations, other factors such as the country of manufacture, cost competitiveness and duration of product warranty should also be considered.

The decision to purchase high technology components, devices, equipment or systems such as a wireless router is not a one-time decision and constant review of the decision against the latest technological advancement and trends would be necessary.

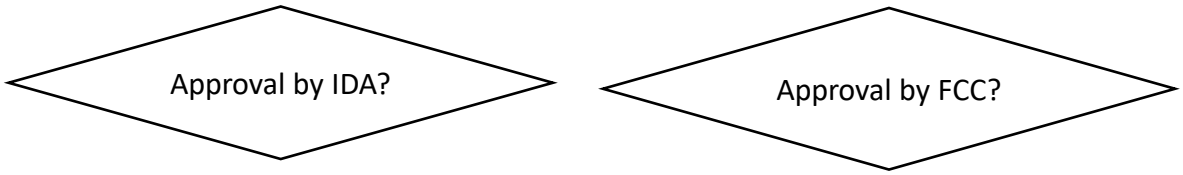
Claim 2

A systematic approach leading to the purchase and use of high technology component, devices, equipment or systems has been proposed which included Claim 2, the Decision Making Flow Chart which consisted of the following:

a. The Processes – The purchase of high technology wireless/microwave/radio frequency (RF) components, devices, equipment or systems such as the wireless router.



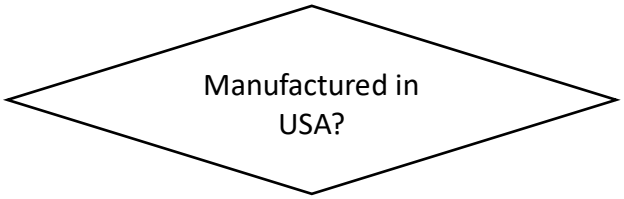
b. ~~The Approvals - Approvals by IDA, Approval by FCC.~~ The Approvals - Approvals by IDA and FCC, with "Y" implying a "Yes or approved" and "N" implying a "No or not approved" in the decision making process in the flow chart.



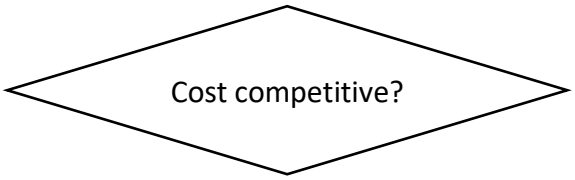
Claim 2

A systematic approach leading to the purchase and use of high technology component, devices, equipment or systems has been proposed which included Claim 2, the Flow Chart which consisted of the following considerations:

c. The location of manufacture – The location where the high technology wireless / microwave / radio frequency (RF) components, devices, equipment or systems such as the wireless router had been manufactured~~.~~ ~~–~~ with “Y” implying a “Yes , manufactured in USA” and “N” implying a “No, not manufactured in USA” in the decision making process in the flow chart.



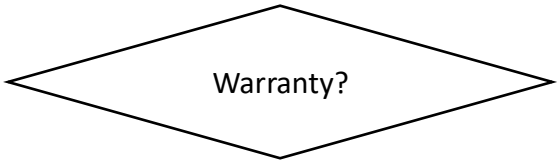
d. The cost competitiveness - The cost competitiveness of the high technology wireless / microwave / radio frequency (RF) components, devices, equipment or systems such as the wireless router~~.~~ with “Y” implying a “Yes, cost competitive” and “N” implying a “No, not cost competitive” in the decision making process in the flow chart.



Claim 2

A systematic approach leading to the purchase and use of high technology component, devices, equipment or systems has been proposed which included Claim 2, the Flow Chart which consisted of the following considerations:

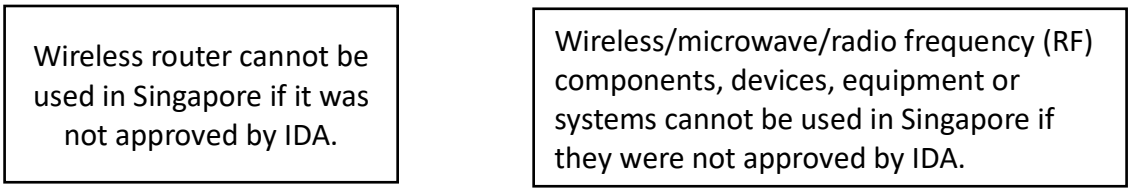
e. The warranty – The manufacturer's warranty for the high technology wireless/microwave/radio frequency (RF) components, devices, equipment or systems, such as the wireless router~~.~~ with "Y" implying a "Yes, it is under warranty" and "N" implying a "No, it is not under warranty" in the decision making process in the flow chart.



Claim 2

A systematic approach leading to the purchase and use of high technology component, devices, equipment or systems has been proposed which included Claim 2, the Flow Chart which consisted of the following concluding processes:

f. The high technology wireless/microwave/radio frequency (RF) components, devices, equipment or systems such as the wireless router could not be used in Singapore because it ~~was not~~ had not been approved by the Infocomm Authority Of Singapore (IDA).



Claim 3

A systematic approach leading to the purchase and use of high technology component, devices, equipment or systems has been proposed which included Claim 3, the Check List ~~(Diagram 4)~~ (FIGURE 4 - TABLE 1).

The systematic approach leading to the decision to use or to purchase high technology components, devices, equipment or systems concludes at the Check List which lists down and affirms all the considerations that are necessary for the use or purchase of an optimum high technology wireless / microwave / radio frequency (RF) components, devices, equipment or systems such as the wireless router. The optimum decision leading to the use or purchase of an optimum high technology wireless / microwave / radio frequency (RF) components, devices, equipment or systems such as the wireless router should be used as a standard for continuous improvement in the event that a suboptimum decision to use or purchase a high technology wireless / microwave / radio frequency (RF) components, devices, equipment or systems such as the wireless router had been made.

The considerations are governmental regulations, technology (including environmental friendliness via the use of green technology), cost, country of manufacturer and warranty.