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GPD Administration,


I have prepared this memo in reference to the current inquiries and proposal for the purchase of new laptops for the road division. Our current laptops have lasted well beyond the life expectancy of 7 years and are due to be retired and replaced. Some of our current in service laptops are on their 10th year in service. Below are some key points highlighting the concerns regarding our current Panasonic CF-53 laptops;

- Windows 7
 - Most of the road division's laptops are running Windows 7.
 - Windows 7 is no longer supported by Microsoft therefore no longer providing security updates.
 - The city's current antivirus software does not support the use of Windows 7. Therefore, those laptops using Windows 7 are at a high risk of obtaining malware, virus, phishing, ransomware, ect.
 - Most of the programs we currently run are building their software around Windows 10, hindering the performance of these programs running on Windows 7.
- Architecture
 - The current architecture on the Panasonic CF-53 is outdated
 - This includes internal processor, memory, memory speed, ect.
 - As the software for our current programs needed for road duty expands and progresses, the laptops ability to run these programs diminish greatly.
 - These bottlenecks can create headaches and longer than usual wait times for officers using the programs. This issues can also transfer to civilians that are being serviced by the officer.



My current proposal is for the purchase of 35 brand new Panasonic FZ-55 laptops. These new laptops will provide the key upgrades for optimal usage;

- Windows 10 Professional
- 512GB of memory. Solid State Drive with OPAL Encryption
 - Our current laptops were upgraded to Solid State Drives several years ago. These drives are a type of non-mechanical drives that are preferred for use in a rugged environment due to no moving parts inside. Their read/write speeds are also 300 times faster than a standard mechanical drive. Solid State Drives are the industry standard for new computers.
 - OPAL Encryption provides security relating to someone attempting to install the hard drive into another laptop. With this encryption, the hard drive will be specific to its host laptop.
- 16GB DDR4 Ram
 - The recommended specification for our current programs to run efficiently. Our current laptops have 8GB of DDR3 which is an outdated architecture.
- Intel I5-1145G7 4.4GHZ Processor
 - Current CF-53 Processor is a 2.0GHZ Processor with outdated architecture.
- Backlit keyboard
 - This will assist with low light usage. This will allow officers to use their laptops without turning a light on inside their vehicle, illuminating themselves to others that may present a danger. Our current laptops do not possess this feature.
- I am also requesting that we purchase these laptops with a touchscreen.
 - This will allow officers to use their cad without a keyboard.
 - We strongly encourage officers to not be driving their vehicle while using their keyboard but in some circumstances it is necessary. Having a touch screen will allow officers to make quick selections while driving, allowing them to focus more on the road and task at hand.
 - Touchscreens are considerably brighter than non-touch allowing better use during daytime hours.



With the purchase of the new laptops, it will also be necessary to purchase new mounts for the vehicles. The current mounts are specifically made for the Panasonic CF-53 and will not retrofit the FZ-55. By my count, we would need 28 new cradles to outfit the road. I suggest that we also purchase spare cradles in the event that we need to replace a defective or broken cradle. We may also explore the option of universal mounts with the following caveats;

- Universal mounts are not crash tested. Therefore, they are liable to not properly hold the laptop in the event of a crash.
- Universal mounts do not allow the laptop lid to close properly in most cases. This will create accelerated wear and tear on the laptop itself.

I have confirmed that the current pedestals installed in the vehicles will retrofit the new cradles designed for the FZ-55.

We will also be required to purchase new power supply units for each vehicle as the FZ-55 requires more power than our old units.

It is my recommendation that we purchase these items from BAYCOM. I have had several email and phone correspondence with their representative, SAM Colluci. Sam has been very helpful throughout this process and has also been recommended by Panasonic as a trusted dealer and conveyor. BAYCOM is also a government contract dealer. This is indicated in the quotes provided (GSA Contract Number 47QTCA19D00MM).

I have provided two (2) quotes within this proposal.

- One quote is for the purchase of the touch screen laptops. (Preferred)
 - This purchase comes with a 3 year warranty that includes parts, labor, shipping, ect. Any repair needed to be done to a laptop if fully covered at no cost to us regardless of how it was damaged. This option is only available on the touch screen laptops.
 - This also includes a service which BAYCOM charges and verifies the integrity of all laptops prior to delivery. This ensures all laptops are able to be deployed without incident.
- One quote is for the purchase of non-touchscreen laptops.
 - Come with a 3 year parts and labor warranty. Some repairs may or may not be covered by warranty.
 - BAYCOM does not charge batteries and check integrity of laptops.



In conclusion,

Although the price may be a shock at first, we must look at this purchase as an investment. These laptops are a tool that all our officers use on a daily basis. Each and every call they go to utilizes the laptop in some shape or form. We must ensure that they have the most reliable equipment for this purpose. The programs by our officers on a daily basis are ever evolving and require a more robust computer than the currently possess. With the laptops I have selected for this proposal, I can say with complete confidence that we would be purchasing the most reliable and highest standard equipment from a vendor that we can trust. I would estimate that these laptops would last between 8 and 10 years, just as our current Panasonic CF-53 laptops have.

I appreciate you taking the time to review my proposal and encourage any further questions pertaining to this project.

Professionally,



Lt. Daniel Zeabart