
Niagara Region

REPORT TO: Co-Chairs and Members of the Corporate Services Committee

SUBJECT: Initiation of Niagara Regional Police Service Capital Projects

RECOMMENDATION

That this Committee recommend to Regional Council:

1. That financing in the amount of \$1,000,000 gross and net **BE APPROVED** and initiated from the 2012 Police Services capital budget and allocated to:

ZPO1210 – IT Equipment Replacement	\$800,000
ZPO1211 – Network & Telecom Infrastructure	<u>\$200,000</u>
Total	\$1,000,000
2. That the project be funded with \$1,000,000 from the Police Capital Levy Reserve as approved in the 2012 capital budget;
3. That the Regional Clerk **BE DIRECTED** to ensure that the appropriate bylaw(s) are prepared for presentation to Regional Council.

PURPOSE

Business or Financial reporting.

BUSINESS IMPLICATIONS

The gross amount of \$1,000,000 was included and approved in the 2012 capital budget for IT Equipment Replacement and Network & Telecom Infrastructure projects. This report is to seek approval for the financing arrangement in order to proceed with the projects as approved by the Niagara Regional Police Service Board in report 16/2012 dated January 10, 2012.

This report seeks approval to allocate Police Capital Levy Reserve funding for the Niagara Regional Police Service project included in the 2012 capital budget in the amount of \$1,000,000.

REPORT

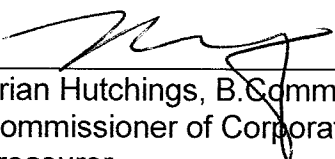
The Police Services Board approved the initiation of It Equipment Replacement and Network & Telecom Infrastructure projects per Board Report 16/2012 (attached). This report requests that the capital project be approved for initiation and financing be allocated to enable the Service to proceed with the procurement process.

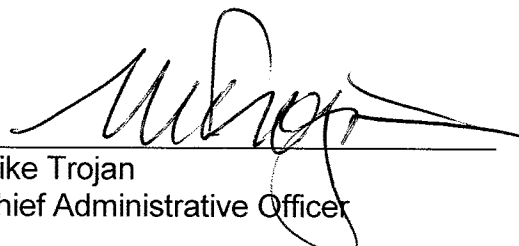
PREVIOUS REPORTS PERTINENT TO THIS MATTER

See attached Police Services Board report dated January 10, 2012.

Submitted by:

Approved by:



Brian Hutchings, B.Comm, CGA
Commissioner of Corporate Services/
Treasurer

Mike Trojan
Chief Administrative Officer

Attachment

This report was prepared by Sandra Stranges, Capital Budget Analyst, and reviewed by Margaret Murphy, Associate Director, Current & Capital Budgets and Bryan Boles, Director, Financial Management & Planning/Deputy Treasurer.



REGIONAL MUNICIPALITY OF NIAGARA
POLICE SERVICES BOARD
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FEB 03 2012

CORPORATE SERVICES

February 1, 2012

Mr. Kevin Bain
Regional Clerk
Regional Municipality of Niagara
P.O. Box 1042
Thorold, ON L2V 4T7

**RE: 2012 Capital Budget Program – Initiation of Projects
Niagara Police Services Board - Minute 15.2012**

Dear Mr. Bain:

At the Public Meeting of the Niagara Police Services Board held on Thursday, January 26, 2012 the Board considered Service report 16/2012 dated January 10, 2012 requesting approval to initiate the Network & Telecomm Infrastructure and the 2012 IT Equipment Replacement capital projects approved through the 2012 Capital Budget Program.

The following motion was passed:

'That the Board approve the following:

- 1. Initiation and Capital Budget allocation of up to \$200,000 for Project ZPO1213 – Network & Telecomm Infrastructure;**
- 2. Financing for Project ZPO1213 funded with Police Capital Levy Reserve;**
- 3. Initiation and Capital Budget allocation of up to \$800,000 for Project ZPO1210 - 2012 IT Equipment Replacement;**
- 4. Financing for Project ZPO1210 funded with Police Capital Levy Reserve;**
- 5. Upgrades to newer Panasonic CF31 Toughbook Laptop Computers and maintaining the current MDT manufacturer platform (Panasonic).**

Carried.'

Further to Board direction, I would ask that you take the appropriate action. I have enclosed a copy of Service report 16/2012 for your reference.

Yours truly,

Deb Morton
Executive Director

:dc

Encl.

c: Chief of Police W.E. Southall, NRPS
Mr. B. Hutchings, Commissioner of Corporate Services, RMON

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Ontario, Canada
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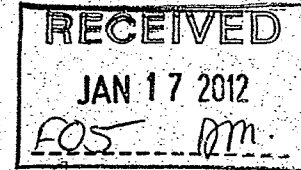
Niagara Regional Police Service

Chief of Police Wendy E. Southall

REPORT OF THE POLICE SERVICE

TO

THE REGIONAL MUNICIPALITY OF NIAGARA POLICE SERVICES BOARD



Board Report Number: 16 /2012

Date of Report: 2012.01.10

Date of Board Meeting: 2012.01.26

Acting Chair Todd Shoalts
and Members of the
Regional Municipality of Niagara Police Services Board

Reference:

Initiation of Projects from the approved 2012 Capital Budget Program:

1. ZPO1204 Network & Telecomm Infrastructure and
2. ZPO1202 Mobile Data Terminal (MDT) Panasonic CF31 Toughbook Laptop Computers and Mounting technologies mount for CF31

Recommendation

That the Police Services Board Approve:

1. The initiation and Capital budget allocation of up to \$200,000 for Project ZPO1213 - Network & Telecomm Infrastructure.
2. Financing for Project ZPO1213 is funded with Police Capital Levy Reserve.
3. The initiation and Capital budget allocation of up to \$800,000 for Project ZPO1210 – 2012 IT Equipment Replacement.
4. Financing for Project ZPO1210 to be funded with Police Capital Levy.



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5. Upgrade to newer Panasonic CF31 Toughbook Laptop Computers and maintaining the current MDT manufacturer platform (Panasonic).

Background:

The Niagara Regional Police Service (NRPS) have used ruggedized mobile workstations – now being referenced as Mobile Data Terminals (MDT) in marked and unmarked vehicles since 1989. In 2005, the NRPS purchased the Versadex technology from Versaterm which enabled enhanced use in vehicles of CAD (Computer Aided Dispatch), RMS (Records Management System), MRE (Mobile Report Entry) and Mapping.

In 2005, as part of Project SPIRIT, the NRPS replaced Motorola MDT devices with Panasonic CF29 Toughbook laptop computers and mounts from Precision Mounting Technologies due to the original installed devices not meeting minimum standards for operating the Versadex applications and other related technology reliability issues.

Report:

The Capital budget initiation of these two projects includes:

1. Project ZPO1204 – Network & Telecomm Infrastructure

Network & Telecommunications Infrastructure Upgrades provide additional capital funding to purchase additional spare Network, Infrastructure and Telecommunications equipment as deemed to be operationally necessary. Such purchase include but not limited to enhancing the operability of our emergency 9-1-1 and administrative telecommunication servers and application software. Additionally, The NRPS is considering the purchase of a Remote Access Appliance to enable secured access to NRPS applications remotely.

2. Project ZPO1202 – 2012 IT Equipment Replacement

This capital budget is being dedicated for MDT Toughbook laptop computers hardware upgrades.

The existing Panasonic CF29 MDT devices are now entering seven years and have been without service warranty coverage for four years. Originally, it was planned that this solution would have a life cycle of five years with an anticipated replacement commencing in the sixth year. Although failure rates have remained moderately low, the existing equipment is in need of replacement due to age and past their reasonable functional life. Replacement parts and technical support are becoming very limited and are subject to a best effort scenario. Replacement parts for the CF29 and in-vehicle CF29 mounter are becoming increasingly difficult to find.

Established objectives for the MDT refresh project are:

- Replace aging equipment and mitigate risks associated with replacement parts for the existing Panasonic CF29 MDT devices and CF29 Car Mounter.
- The ability to integrate newer and future technologies into vehicles (AVL/GPS, eTicketing including printer, WiFi, in-vehicle cameras, etc)
- Accommodate upgrades to a new Private Mobile Radio (PMR) system
- Migrate to a new operating system (Windows 7)
- Accommodate new system or software that requires greater capacity or resources to operate effectively

Mounting Technology and Ergonomics Considerations

In preparation for the 2012 MDT refresh, the NRPS through the Equipment Review and Occupational Health & Safety (OH&S) Committees have initiated a comprehensive review and an evaluation of options that would enhance in-vehicle ergonomics and improves the range of motion of the MDT mounting technology. This review has become necessary as the law enforcement profession constantly changes with advances in technology while keeping in mind that the most significant portion of computer use time is completing required police incident reports. Several hazards and injuries could be associated with computer configuration inside Police vehicles. Examples of potential injuries such as strain, related to working in a prolonged seated position and injuries associated with typing in an awkward position from behind the wheel of a police vehicle.

At this time, there are no reported injuries associated with in-vehicle ergonomics and this approach is a proactive one based on improvements in industry best practices and standards including various studies dealing with this topic.

The Equipment Review and the OH&S Committees along- side IT and Fleet staff have made recommendation to maintain the existing underlying infrastructure and current layout to ensure a low failure rate and to minimize a new user experience as outlined below:

- Replace in-car laptop with newer model laptop (Panasonic CF31 Toughbook), keeping as much of the existing underlying infrastructure from Precision Mounting Technologies as possible.
- Purchase a compatible CF31 Car Mounter Docking Station.

Labour efforts are minimal and integrating the car mounter is very simple to attach to the existing mounting base. Labour effort is estimated at thirty (30) minutes per vehicle.

Pricing including Mounting Technology Equipment Specification

Panasonic TOUHBOOK CF31 Rugged (MIL Spec. 810F)

Equipment	Unit Price	Units Required	Total
<u>Equipment Description</u>			
Panasonic CF31 Toughbook	\$4,095.70	145 (with 5 spares)	\$593,876.65
4 th year Service Warranty	Included		
CF31 Compatible Precision Mount	\$700 (est)	145 (with 5 spares)	\$101,500.00
e-Seek License Card Swipe	\$410	160 (with 5 spares)	\$ 65,600.00
Total – (exclusive of HST)			----- \$754,826.65

A Panasonic CF31 Car Mounter is cheaper than the CF31 Precision Mounting Technologies however is not compatible with the existing mounting infrastructure provided. We are confident that the final cost of the CF31 Compatible Precision Mount will be less than what is being provided above>

The e-Seek Card swipe (model 250) is replacing the currently installed License card swipe and incorporates a magnetic stripe reader with the 2D barcode reading technology. As of April 2011, the MTO has standardized on the use of 2D Barcode license card technology as a method of encoding data on Driver Licenses. The additional quantities are necessary to replace older units currently deployed within all Districts.

Sole-Sourcing Consideration:

Panasonic Toughbook laptops constitute 90 percent of the Canadian public safety market share and are the product of choice of peer policing agencies in Ontario. Panasonic Canada has continued their excellent customer service, technical support and product reliability. Panasonic has always stood behind their product and performed free MDT repairs despite the fact they were not covered under warranty.

In 2005, the Board approved the sole sourcing purchase of CF29 Toughbook laptop computers from Panasonic Canada Inc. As the NRPS has an existing Business-2-Business (B2B) arrangement with Panasonic Canada, we have been successful in negotiating an aggressive cost of \$4,095.70 per unit from the quoted government price of \$4,295.70 yielding savings of \$29,000. As well, Panasonic has agreed to include a 4th Year service warranty at no charge.

The proposed Panasonic CF31 model is available through the current contract awarded on a co-operative basis through the Ministry of Government Services for the supply of desktop laptops, computers and peripherals. This contract was secured through a competitive Request for Proposal (RFP) process. The NRPS requested a quotation from an Ontario Provincial Government – Ministry of Government Services Vendor of Record (Compugen) and the pricing based on the

same CF31 specifications when compared to the above pricing (was quoted at \$5,049.61 when compared to Panasonic's price of \$4,096.70. There is a total net difference of \$138,171.95 of purchase savings by dealing directly with Panasonic Canada.

As well, IT Staff did evaluate an alternate hardware manufacture platform (General Dynamics). Cost per unit was comparable but in USD funds and the cost of an extended service warranty (5-years) was at a cost of \$850 USD per unit. There were no significant advantages to this platform and considering the service warranty cost, staff are recommending the NRPS continues to maintain current MDT manufacture platform.

Future Trends of Mobile Computing Technology

The proliferation in the tablet, hand-held and mobile computing market has been significant and quite noticeable over the past two years. It is envisioned that the next three to four years, such devices might play a greater role in the public safety market and may influence the replacement of MDTs equipment and configuration to alternate mobility hardware. IT staff will be monitoring these advances on a regular basis and report back to the Police Services Board if taking advantage of the next iteration of mobile computing will produce greater efficiencies in cost and operational benefit to NRPS. At this time, IT staff are not recommending any significant changes to the existing MDT technology standard.

Conclusion:

Technology, Infrastructure and Telecommunications equipment are updated and/or replaced for a variety of reasons such as technical, financial or age. Technical replacements or upgrades are influenced by external factors such as a new system or software that requires greater capacity or resources to operate effectively. Financial replacement may occur when new equipment has much lower operating costs as the case for servers upon expiry of warranty when vendors substantially increase maintenance costs. Finally, technology and network systems equipment are replaced due to age when they are near or past reasonable functional life and replacement parts are no longer available.

The NRPS have been successful in negotiating an aggressive cost of \$4,095.70 per unit when compared to what the existing government price of \$4,295.70 yielding a savings of \$29,000. As well, Panasonic has agreed to include a 4th Year warranty at no charge.

Relevant Policy Considerations:

Regional Municipality of Niagara Police Services Board By-Law 289-2009, 'Financial Budgeting, Purchasing & Control.'

<u>Cost of Recommendations:</u>	ZPO1213 - \$200,000
	ZPO1210 - \$800,000

	\$1,000,000

Alternative Options: None Proposed

Reasons for Recommendation:

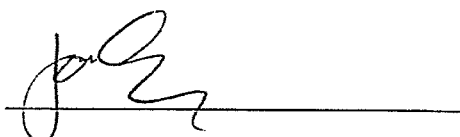
- Replace aging and out of warranty Mobile Data Terminal (MDT) Toughbook laptop computers hardware.
- Mitigate risks associated with replacement parts for the existing Panasonic CF29 MDT devices and CF29 Car Mounter.
- Integrate newer and future technologies into vehicles (AVL/GPS, eTicketing including printer, WiFi, in-vehicle cameras, etc)

Prepared by:



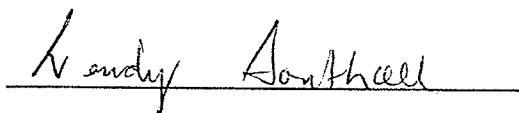
Akram Askoul
Director
Information & Communication
Technology

Approved by:



Joe Matthews
Deputy Chief of Police

Respectfully submitted by:



Wendy E. Southall
Chief of Police

Panasonic Canada Inc.

Tuesday January 17, 2012

To: AKRAM ASKOUL, Director
Information & Communication Technology
Niagara Regional Police Service. NRPS

Cc: Panasonic-CDSD_Sales_Support
Kaji Masilamany, Mac Matsubara, Tom Frazer, John Clack

From: Gord McCulloch Panasonic Canada Inc.
Computer Systems Department: Toughbook

Subject: **QUOTATION:**

CF31JBHJXDM Toughbook MK2, TOUCH, 8GB, BKB, WIN7, ENGLISH

MK2-Intel (r) Core i5-2520M V Pro Processor, 2.5 GHz with turbo boost up to 3.2GHz,
Intel smart cache 3MB, 8GB, 13.1" 1024 x 768, XGA sunlight-viewable touch screen
LCD, 320GB shock mounted hard drive, 802.11b/g/n, bluetooth V2.1 & EDR, dual
connector, wireless antenna, Backlit keyboard, genuine Windows (r) 7 Professional
license, No Multi Drive

Akram, Brian and Gerrard. Thank You for this opportunity.

CF31JBHJXDM Toughbook Niagara Police Special Pricing (145+): **\$ 4,095.00**

EX2: 5th. Year Extended Warranty: **\$ 300.00**

Note: EX1: 4th. Year Warranty @ "No Charge"

Ontario Government Environmental Notebook Computer Fee @ \$.70 ea. **\$.70**

Total: **\$ 4,395.70**

HST X 13% = **\$ 571.44**

Grand Total: **\$ 4,967.14**

NOTE:

Agreement: Upon The Niagara Police Services Board Approval and Motion, The Niagara Police Agree to place a Purchase Order to Panasonic Canada for a Quantity of 145 CF31 Toughbooks for delivery prior to March 31st, 2012. The Niagara Police will store the Toughbooks @ their Records Facility in Fonthill for three months prior to rolling the Toughbooks out for the "Refresh". The Panasonic Toughbook Service Department Agrees to Execute the Warranty on June 30, 2012.

This is a "Direct" Sale with the Purchase Order coming from The NRPS.

Please send the PO to the following: CDSD_Sales_Support@ca.panasonic.com

The product is in stock.

Thank you for your continued Support!

Should you have any further questions, please call me.

Sincerely, Gord

Gord McCulloch

Senior Account Manager, Ontario Public Safety & Government
Toughbook Wireless Solutions, Mobile Digital Video Systems
Computer Systems Department
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TOUGHBOOK

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