

Clause 8 in Report No. 10 of Committee of the Whole was adopted, without amendment, by the Council of The Regional Municipality of York at its meeting held on June 23, 2016.

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Award of Contract for the Supply of Digital Two-Way Radios for the Regional Fleet

Committee of the Whole recommends adoption of the following recommendations contained in the report dated May 26, 2016 from the Commissioner of Transportation Services:

1. Council approve the award of contract for the supply of digital two-way radios for the Regional fleet to Motorola Solutions Canada Inc., pursuant to the direct purchase provisions of the Purchasing Bylaw on the following terms:
  - a. York Region pay Motorola Solutions Canada Inc. up to \$1,407,476, excluding HST, for the digital two-way radios.
  - b. The term of contract be seven years, from July 1, 2016 through June 30, 2023.
2. Council authorize the Commissioner of Transportation Services to execute the contract.

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Report dated May 26, 2016 from the Commissioner of Transportation Services now follows:

1. Recommendations

It is recommended that:

1. Council approve the award of contract for the supply of digital two-way radios for the Regional fleet to Motorola Solutions Canada Inc., pursuant to the direct purchase provisions of the Purchasing Bylaw on the following terms:

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Two-way Radios for Regional Fleet

- a) York Region pay Motorola Solutions Canada Inc. up to \$1,407,476, excluding HST, for the digital two-way radios.
  - b) The term of contract be seven years, from July 1, 2016 through June 30, 2023.
2. Council authorize the Commissioner of Transportation Services to execute the contract.

2. Purpose

This report seeks Council authority for the Region to enter into an agreement with Motorola Solutions Canada Inc. (Motorola) for the supply of digital two-way radios for the Regional fleet under the direct purchase provisions in Section 9 of the Purchasing By-law.

Rationale for this direct purchase is that Motorola is the only entity reasonably capable of providing the digital two-way radios. Motorola is the only brand of digital two-way radios fully supported on the York Regional Police (YRP) digital two-way radio system, as other brands of radios are not permitted on the network. In addition, the compatibility of the radios with the existing YRP trunked radio system is a paramount consideration. Council approval is required because the contract price exceeds \$100,000 and the term of the Agreement exceeds five years.

3. Background

Transition of radio frequencies from analog to digital has been ongoing since the 1990s

Transportation Services Department is responsible for the maintenance of all Regional fleet vehicles and installs radios in the vehicles after delivery. Existing Regional fleet two-way radio system uses an outdated analog signal transmitted from a single tower located in Aurora, resulting in poor coverage for Regional vehicles in rural areas, such as Georgina. Industry Canada has stopped licensing analog frequencies and the radio industry is transitioning to systems based on digital signals.

York Regional Police has recently upgraded their radio infrastructure to a digital system. The new infrastructure provides significant improvement in audio quality, better coverage and security of communications.

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York Regional Police procured the digital two-way radio system through a competitive process

In April 2013, York Region Police Services Board approved the award of contract to Motorola, procured through a competitive process, for the supply and installation of Project 25 Digital Voice Radio Communication Systems.

York Regional Police proposed the Region leverage YRP's digital network for use by Region-owned fleet vehicles. This provides an opportunity for YRP and the Region to collaborate and share maintenance costs of the network. To do so, the Region will need to upgrade its fleet to Motorola digital two-way radios compatible with the YRP system. YRP and the Region will enter into an agreement for Regional access to YRP's digital system using compatible radios.

Using the same hardware will allow for better communication between the Region and YRP for emergencies, road conditions, accidents and spill response.

Two-way radio communication is an important part of the Region's emergency program

The Region's fleet of approximately 280 vehicles is used by the operational divisions in Transportation Services. All fleet vehicles rely on existing two-way radio communication system. Eleven office base stations facilitate communication between offices and fleet vehicles. This functionality is supported through the Region's Emergency Plan and its importance was highlighted by the Northeast Power Blackout in August 2003. During this event, cellular-based systems were disabled and two-way radio was the only available means of communication.

#### 4. Analysis and Options

Implementing a digital two-way radio system compatible with the York Regional Police digital system provides numerous benefits

Benefits of implementing a digital two-way radio system compatible with the YRP system are both functional and financial in nature, including:

- Better signal coverage and elimination of dead zones found within the current system.
- Improved communication through less signal interference and voice clarity through digital noise cancellation.

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- Bringing the Regional fleet up to current Industry Canada Radio Standards, keeping the Region's current analog license in good standing
- Preparing the Region for compliance with Ontario Ministry of Transportation Distracted Driving regulations through hands-free use. Current exemption for two-way radios expires in January 2018.
- Allowing for private talk groups to logically segregate communications by yard, and other functional groupings, such as echelon plow teams, resulting in less chatter, clearer communications and ease of use.
- Enhanced security through encrypted signals. The Region's transit enforcement group is already using digital two-way radios on the YRP network.
- The Region benefiting from the 25 per cent hardware discount YRP has with Motorola through their existing contract.
- Ability to remotely disable lost or stolen radios from the central system, ensuring integrity of the system.
- Availability of enhanced dispatch consoles available to provide better coordination of resources and clearer communication in priority situations.

### Link to key Council-approved plans

This report links to the following Council-approved plans and policies:

#### Vision 2051

- Implementation supports focus on fiscal responsibility and practicing efficiency in service delivery and operations
- Implementation supports promoting safe and secure communities and developing sustainable community safety and crime prevention strategies through community mobilization, engagement and education

#### 2015 to 2019 Strategic Plan

- Implementation will provide responsive and efficient public service through better stewardship of the Region's assets. Effective communication on the digital two-way radio network will allow the Region to better respond to the needs of its residents

## 5. Financial Implications

Attachment 1 provides a summary of the estimated hardware costs from 2016 through 2023. Total hardware cost for the seven years is estimated to be \$1,407,476.

Sufficient funding is available in the 2016 Budget to cover current year costs. Capital and operating funding will be included in future budgets for hardware, operations and maintenance costs.

Maintenance costs for the network will be shared between the Region, YRP and other participating stakeholders. Cost-sharing provides good value by ensuring different stakeholders at the Region are not implementing and maintaining redundant infrastructure.

## 6. Local Municipal Impact

There is no direct municipal impact as a result of the procurement process proposed in this report. In future, local municipalities may also be able to enter into agreements with York Regional Police that will enable them to improve their communication strategy and ability to coordinate with the Region.

## 7. Conclusion

Motorola Solutions Canada Inc. has been providing satisfactory service to York Regional Police since 2013. System expansion and upgrades will continue during their ten-year support and maintenance contract. Motorola will honour the same hardware pricing discount to York Region that is offered to YRP.

It is in the best interest of the Region to move forward with the purchase of digital two-way radios from Motorola to leverage York Regional Police's due diligence in the selection of the vendor, and ensure the Region is able to meet industry standards.

Staff recommend that Council approve the award of contract for the supply of digital two-way radios for Regional fleet to Motorola Solutions Canada Inc., for up to \$1,407,476, excluding HST, and that the term of contract be seven years, from July 1, 2016 to June 30, 2023.

Award of Contract for the Supply of Digital  
Two-way Radios for Regional Fleet

For more information on this report, please contact Rajeev Roy, Director,  
Business Planning and Transportation Technology at ext. 75682.

The Senior Management Group has reviewed this report.

May 26, 2016

Attachment (1)

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Accessible formats or communication supports are available upon request

### Hardware Procurement Costs and Outlook

Description	2016	2017	2018	2019	2020	2021	2022	2022
In-Vehicle "Mobile" Units	\$351,246	\$408,058	\$21,665	\$22,315	\$22,984	\$23,674	\$24,384	\$25,116
Handheld "Portable" Units	0	57,069	0	0	0	0	0	0
Office "Mobile" Units	28,590	0	0	0	0	0	0	0
Dispatch Full Operations Console Units	0	422,375	0	0	0	0	0	0
<b>Total Cost</b>	<b>\$379,836</b>	<b>\$887,502</b>	<b>\$21,665</b>	<b>\$22,315</b>	<b>\$22,984</b>	<b>\$23,674</b>	<b>\$24,384</b>	<b>\$25,116</b>

Total hardware cost for the seven years is \$1,407,476