



Subject: Bluetooth Readers	
Date: February 16, 2015	Author: Steve Drew
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Audience	Standards Affected
Ministry Managers, Electrical Services; all users of the Electrical and Traffic Engineering Manual; all Ministry Traffic Engineers; all Electrical and Traffic Design	Electrical & Traffic Engineering Manual, Electrical & Signing Materials Standards, Standard Specification for Highway Construction

Background:

Bluetooth Readers are radio receivers installed on Ministry infrastructure in close proximity to roadways. They are used to gather traffic flow information by logging the ID (MAC address), time, and location of Bluetooth devices in passing vehicles. Each time a device is detected the information is logged and compared to previous reads; this information is then used to derive the travel time along specific corridors. Many devices are read and the information averaged to give an indication of general traffic conditions such as speed, volume, and occupancy.

The information obtained from the Bluetooth device is restricted to the MAC address for the device, and does not identify the user or include any personal information of any kind.

Policy:

Bluetooth Readers shall only be installed in locations approved by the Electrical Engineering Centre.

Approved installations shall be documented on electrical drawings with TE numbers assigned by the Ministry Electrical Engineering Centre. All designs shall be in accordance with the *Electrical and Traffic Engineering Manual* and the *Standard Specification for Highway Construction*, and approved by the Electrical Engineering Centre. The drawings shall convey all pertinent electrical information, including the location, configuration, mounting details and power source.

Only products listed on the *Ministry Recognised Products List* may be used.



Procedure:

An application shall be made to the Electrical Engineering Centre for approval to install Bluetooth Readers. Once approved the Electrical Engineering Centre will review the design and stipulate any required documentation updates.

Bluetooth Reader programming and commissioning shall be documented and retained by the Electrical Engineering Centre, the Manager Electrical Services and the Electrical Maintenance Contractor.

The Manager, Electrical Services will be contacted to arrange the installation, and the devices will be added to the electrical infrastructure inventory.

The Manager, Electrical Services shall notify the appropriate power authority of the increased loading if the Bluetooth Readers are connected to a non-metered electrical service.

All costs for the design, documentation, and installation of Bluetooth Readers will be borne by the originator of the request for the installation of the device.

Contact:

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