

# TORONTO TRANSIT COMMISSION REPORT NO.

**MEETING DATE:** December 19, 2013

**SUBJECT:** PRESTO IMPLEMENTATION AT THE TTC – STATUS UPDATE

**INFORMATION ITEM**

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## **RECOMMENDATION**

It is recommended that the Board receive a presentation entitled PRESTO Implementation at the TTC – Status Update, for information.

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December 19, 2013

Presentation



# TTC PRESTO IMPLEMENTATION – STATUS UPDATE

**Allan Foster**

**December 2013**





- **Background and Overview of PRESTO system**
- **TTC Implementation Program**
  - Wave 1 Rollout
  - Wave 2 Rollout



# HOW THE PRESTO SYSTEM WORKS

The PRESTO shared service model supports the needs of all Transit Service Providers and their customers



## Transit Agency

Fare pricing and policy  
 Transit services and operations  
 Leveraging strategic information  
 Define PRESTO service



Use

## PRESTO Central System

- Farecard Management
- Fare Policy Implementation
- Financial Clearing/Settlement
- Asset Management
- Information Management
- Infrastructure Implementation
- Day-to Day Operations

Provide Information



Connect with



Financial Institution

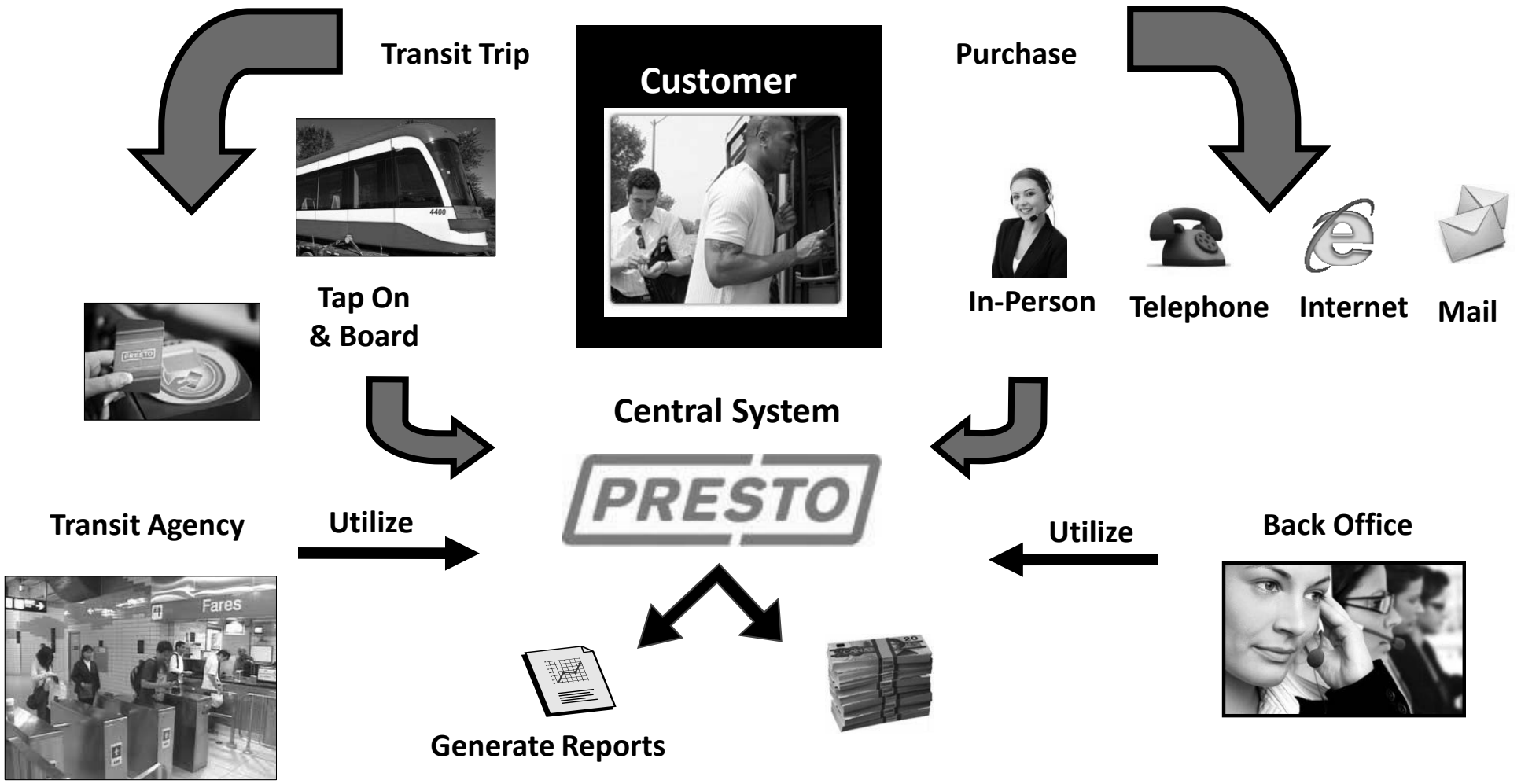
Use

## PRESTO Program Office

Helpdesk / Technical Support  
 Call Centre / Customer Support  
 Card order fulfilment services  
 System monitoring, management & maintenance  
 Operation Support



# BACKGROUND – PRESTO SYSTEM





- **Operating at GO Transit, Ottawa Transit, and GTA transit properties and**
- **≈ 950k cards in circulation**
- **PRESTO readers currently at 14 TTC subway stations**
  - Interface stations with interregional travel and other key locations
- **≈ 35k transactions per day**
  - PRESTO only accepts adult token equivalent





## **Managed Service Business Model**

- **Metrolinx required to design, procure, build, install, operate, service, and maintain PRESTO**
- **Payment to Metrolinx based on fixed % of TTC fare revenues (5.25%)**
- **At full implementation, overall costs of fare collection expected to remain at/below current costs of fare collection (i.e. 7%-8%):**
  - **Based on TTC Business Requirements**





## **Wave 1 Rollout – Surface Devices**

- **Terminals for Customer Service Centre at McBrien Bld: Station Point of Sale (SPOS) devices**
- **PRESTO card readers installed at all streetcar boarding doors: Light Rail Vehicle Fare Transaction Processor (LFTP)**
- **Mobile device for fare enforcement and customer card/transaction query: Hand-held Point of Sale (HHPOS)**
- **Ticket validator:**
  - Validation (date/time stamp) of concessions tickets
  - Two installed on-board each streetcar
  - Installed off-board at 75 of busiest streetcar transit stops
  - TTC to purchase and install
- **Single Ride Vending Machine (SRVM):**
  - vending machine for accepting coin, token, debit and credit fare payment
  - Issue paper transfers and receipts
  - Two installed on-board each streetcar
  - Installed off-board at 75 of busiest streetcar transit stops
  - Minimal PRESTO device requirement for Wave 1







## **Concept of Operations (Full Implementation)**

- **PRESTO media will replace tickets, tokens and passes**
- **Cash is still accepted**
- **PRESTO media on all TTC vehicles (incl. Wheel Trans) and at all subway stations**
- **Possible inclusion of other City services (e.g. Toronto Island Ferry)**
- **Fare policies and products**
  - Support existing with flexibility for new





## **Concept of Operations (Full Implementation)**

- **Move to automated sales/reloads of PRESTO media within subway system**
  - Vending machines, add value machines
  - Debit, credit and cash
- **Opportunity for enhanced customer assistance in subway**
  - Collectors no longer required to handle cash, sell or collect fare media
  - Move staff outside booth and provide customer service throughout station





## **Wave 1 Rollout**

- **Initial PRESTO launch October/November 2014**
- **Fulfillment of marginal amount of overall TTC business requirements**
- **Equipment installation on initial 50 new streetcars**
  - Spadina, Bathurst, Dundas, and Harbourfront
- **Equipment installation at 23 subway stations**





## **Wave 1 Rollout – Subway Devices**

- **PRESTO card readers installed on select turnstiles: Station Fare Transaction Processor (SFTP)**
- **Mobile device for fare enforcement and customer card/transaction query: Hand Held Point of Sale (HHPOS)**
- **Add Value Machine (AVM):**
  - Vending machine for adding value to PRESTO card and query card use/transactions
  - Debit and credit payment only
  - Installed primarily in un-paid area of subway stations





## **Wave 1 Rollout – Subway Installation Schedule**

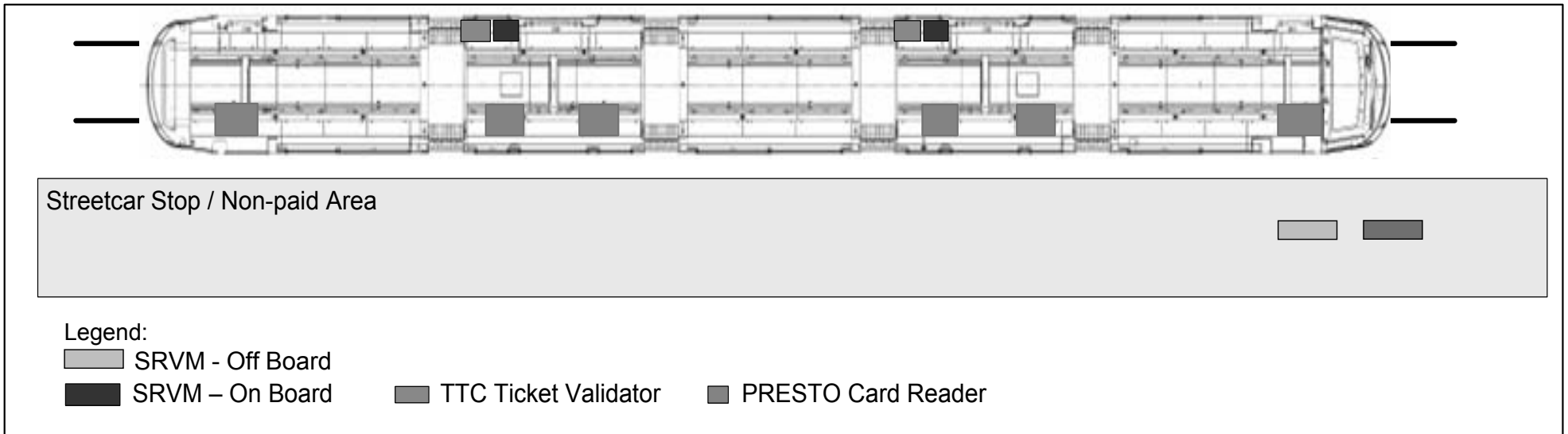
- **Subway station roll-out to support route based deployment of new streetcars**
- **TTC work to upgrade power at subway stations is in advance of PRESTO installation work**
- **SPOS and HHPOS production devices to be delivered/installed Q3 2014**
- **SFTP delivery/install Q3 2014**
- **AVM delivery/install Q4 2014**
  - Not essential for system launch
  - HHPOS devices can be used by TTC staff for card enquiries
  - PRESTO card readers currently installed at 14 TTC subway stations without AVM's



# NEW STREETCARS



**Each new streetcar will have 6 card reader, 2 SRVM's and 2 ticket validators onboard.**



Fare Payment Options	Card Reader	SRVM	Ticket Validator	Proof of Payment
PRESTO e-Purse single ride (adult and concession)	X	X		Single ride record on PRESTO card POP Transfer from SRVM
Cash (coin) single ride		X		POP Transfer from SRVM
Token		X		POP Transfer from SRVM
Concession ticket / single ride			X	Stamped ticket
Metropass				Metropass (visual verification by inspector)





## **Wave 1 Rollout – Surface Installation Schedule**

- **Ticket Validator Procurement is underway – Handled by TTC**
- **SPOS, LFTP, and HHPOS production devices to be delivered/installed Q3 2014**
- **Field testing of ‘pre-production’ SRVM to commence in Q2 2014**
- **Delivery of 40 production SRVM’s Q3 - Q4 2014**
- **SRVM debit/credit roll-out Q1 2015**



# TTC IMPLEMENTATION PROGRAM



## Wave 1 Rollout – Devices (illustrative)

**Fare Payment Device  
(Subway Turnstile)**



**Fare Payment Device  
(Streetcar)**



**For Enforcement**



**Add Value and Full  
Service Vending  
Machines  
(Subway)**



**Single Ride Vending  
Machines**

**(in-vehicle and off-board)**



**Ticket Validator  
(in-vehicle and off-board)**



**Station-Point of Sale**

**(customer service centre)**







## **Wave 1 Rollout – Key Issues**

- **Extended time to complete device design**
- **SRVM manufacture, delivery, and testing**
  - Launch of new streetcars
  - Alternate fare collection options (short term)
- **Managed Services Plan and availability**
  - Commenced discussion and planning





## **Wave 1 Rollout – Key Issues**

- **Solution Functionality and Quality**
  - Comprehensive testing process to validate solution and identify any deficiencies
- **Schedule includes little time for contingency/remedial work to address deficiencies**
- **Business process definition to include alternative manual solutions**





## Wave 2 Rollout

- **Fulfill all TTC business requirements**
- **Equipment installation on buses, Wheel-Trans, remaining streetcars and subway stations**
- **Elimination of TTC legacy fare media**
- **Alternate fare strategies and options for PRESTO system**
  - Report to Board in 2014
- **Review extending PRESTO for Toronto Island Ferry (December 2012 Board directive)**
- **Device procurement to commence in 2014**
- **Roll-out schedule to be determined**

