TAP Update

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TAP is now one of the largest smart card systems in North America.



- All Metro light rail and over 3800 LA County buses accept TAP
- Nearly 24M regional transactions/month
- Over 650 different fare types from 25 Agencies
- Over 1.5M passes and nearly \$7M of Stored Value sold per month
- Nearly 500 LA County outlets selling over \$14M+ per month
- Over 1000 Employer, College, and Institutional transit benefit providers
- Over 1M Customers with Registered Cards
- Nationally recognized, award-winning TAP ACCESS implementation for para-transit

TAP Network Now Complete

- 25 Agencies onboard made possible by installation of mobile validators
- Seamless travel enabled across LA County
- With stored value, TAP card knows exactly what fare to deduct for any agency.



Low-cost mobile validators are easily mounted aboard buses

TAP Network Now Complete

- Access
- AVTA
- Baldwin Park
- Burbank
- Carson
- Compton
- Culver City
- Foothill
- Gardena
- Glendale
- LA County
- LADOT

- LAWA
- Long Beach
- Metro
- Metrolink
- Montebello
- Monterey Park
- Norwalk
- Palos Verdes
- Pasadena
- Redondo Beach
- Santa Clarita
- Santa Monica
- Torrance



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Independence from Vendors



- Limit engagement to their strengths
 - Cubic: Devices & Nextfare transaction system
 - TAP system accesses only the parts we need and combines into CRM system to complete our network
 - TAP in-house work includes:
 - Testing of fare tables and devices
 - Fare system changes
 - New product additions/deletions
 - TVM screenflows
 - Gate help phones
 - Sheriffs' fare checking devices

New Customer Relationship Management (CRM) System: TAPforce

- 7 month implementation
- New, improved taptogo.net website
- Integration with



- Card manufacturer (production & delivery of TAP)
- 8 departments at Metro for management of customer info
- Regional TAP Call Center
- Entry/tracking of Reduced Fare information
- Third party vendor sales network



TAP Rebranding





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Get the most out of your Reduced Fare TAP card.

significant and

TAP Tips

LACTOA/ Disabled Riders: Apply for Reduced Fare TAP cards today.



LACTOA/Disable Rider Application

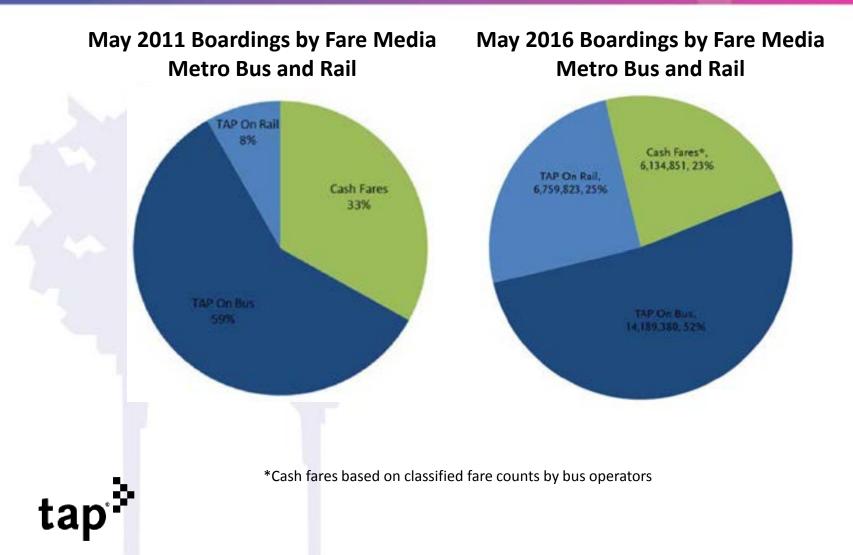
Get the most out of your TAP card.

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Less Cash, More TAP



Fare Collection Information



- Annual Cubic maintenance agreement cost: \$10.7 M
- Annual Cubic gate lease cost (ends 2 years): Approx \$4.7 M
- Other yearly costs
 - \$3 M Credit Card Fees
 - \$500 K Cost of Currency Processing
 - \$26.7 M Revenue Department annual operating budget (includes Fringe & Benefits)
 - \$11.5 M TAP Department annual operating budget (includes Fringe & Benefits)

Future Plans

Get the most out of your Reduced Fare TAP card.

TAP Tips

- Bluetooth Pilot for ADA gates
- TAP Mobile App
- Regional Ticket Vending Machines
- TAP How-To Videos for Web
- Payment Card Industry Compliance
- Partnerships with Bikeshare, Parking, Uber, EV Carshare, Mobility Hubs and more

Farebox Recovery Ratio Trends (FY11 – FY15)

History of Farebox Recovery Ratio

	FY11	FY12	FY13	FY14	FY15
Fare Revenues	\$ 336,100,000	\$ 332,900,000	\$ 330,600,000	\$ 331,100,000	\$ 343,600,000
Operating Costs	\$ 1,181,000,000	\$1,180,600,000	\$1,288,000,000	\$1,325,800,000	\$1,426,300,000
Fare Box Recovery Ratio	28.5%	28.2%	25.7%	25.0%	24.1%
% change to Ops Cost		-0.03%	9.10%	2.93%	7.58%

Farebox Recovery ratio = Fare Revenues / Operating Costs

Declining farebox recovery ratio is a result of declining fare revenues and increasing operating costs:

- FY11 Fare change implemented July 2010
- FY12 Rolling 30-day pass was introduced and the day pass price decreased from \$6 to \$5
- FY13 Continue Day pass at \$5 Operating costs increased with the opening of Expo Phase 1 and Orange Line extension; labor contract costs
- FY14 Boardings began to decline (national decline)
- FY15 Fare restructuring implemented September 2014 Operating costs increased due to labor contracts

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Fare Collection Costs

Activity	Description		Amount
Fare Collection	Vaulting (emptying farebox contents at the Divisions) & cash counting, ticket vending machine servicing, and farebox maintenance		16,811,698
Fare Enforcement	Fare validation carried out through Sheriff contract. Budget includes mobile validator (app on mobile phone).		5,605,386
Fare Equipment Maintenance	Fare equipment (ticket vending machines, ticket validators, fareboxes) and point-of-sale equipment connection		19,691,361
TAP Operations	TAP operations including call center, IT support & application maintenance and upgrades, fare program management		13,778,960
Public Awareness	Campaigns and (potential) customer outreach. Reach out to public at strategic events to increase awareness and ridership of public transit services and associated TAP fares (public education & outreach).		1,418,816
Capital Improvements	Enable mobile access, enhanced ticket vending at the machines, install more ticket vending machines at stations and major transit hubs to reduce queuing. Enhance cyber security, enhance data collection & reporting.		13,740,750
	FY16 Budgeted Expenditures	\$	71,046,970



Citizens' Advisory Council Presentation

Revenue Collection Cash Room Facts



Fare Collection Devices



Ticket Vending Machine (TVM)



Farebox



Compact Point of Sale Terminal (CPOS)



Cash Room Facts

Bills and Coins Processed

In FY15 the Cash Room processed \$195.4 million in bills and coins from our TVMs and fareboxes agency-wide. The unit is responsible for the collection, processing and depositing of fare revenues received by Metro.

	FY14	FY15	FY16 (April)
Bus	\$130,994,766	\$128,696,149	\$97,531,458
Rail	\$62,772,629	\$66,665,939	\$52,000,815
TOTAL	\$193,767,395	\$195,362,088	\$149,532,273



Cash Room Facts

Daily Figures

- Revenue Breakdown (April 2016)
 - Bus \$304,312 (38% coins/62% bills)
 - Rail \$163,595 (4% coins/96% bills)
- Bill units processed 223,288
- Total bill revenue \$347,382
- Total coin revenue \$120,525
- Tokens processed 16,685
 Rail includes Orange Line
- 11 Metro Bus Divisions serviced Mon Sat
- 44 revenue bins retrieved from divisions
- 454 TVMs at 117 stations
- 124 Ticket Vending Machines serviced daily
- 328 miles traversed by revenue staff to collect revenue Metro

Cash Room Facts

Controls

- Daily probe and actual count comparison
- Daily reconciliation between cash receipts and deposits
- Farebox audit conducted (1 Bus Division per week)
- Monthly working funds audit
- Regular review/update of Cash Room processes and procedures
- Cash Collection and Counting Process and Procedures Audit conducted by MASD
- Yearly audit of procedures and controls and cash receipts and deposits by external auditor



Bus Revenue Collection Process



Farebox Revenue

• Buses are probed and vaulted daily at divisions

- When probing, data is sent to central computer and cash box door opens
- When vaulting, revenues are emptied into the receiver vault

Farebox probed

Cash Box vaulted



Bus Revenue – Division Vaults

Bus revenues are emptied into revenue bins inside division vault houses

2 Vault Houses per division
2 Receiver Vaults per house
Only Revenue staff are permitted to remove revenue bins from vault houses

Revenue bin



Bus Revenue – Division Vaults

 Revenues from divisions are collected Monday through Saturday





Bus Revenue – Division Vaults

• Revenue bins are loaded onto trucks and delivered to the CCCO





Rail Revenue Collection Process



Ticket Vending Machine Revenue

 Revenue Collectors service 454 TVMs from the 6 rail lines

 Revenues are collected on usage





Ticket Vending Machine Revenue

Revenue Collectors are responsible for removing bill and coin boxes inserting empty bill and coin boxes

Coin Hoppers



Bill Boxes



Ticket Vending Machine Revenue

• Other tasks performed by Revenue Collectors are:

- Replacing empty change dispensing coin hoppers with full ones
- Assisting in special events, including Rose Bowl, Long Beach Grand Prix, LA Marathon, etc.
- Replacing ticket roll stock
 Clearing bill and coin jams
 "Finger tip" maintenance





Revenue Processing at Central Cash Counting Office (CCCO)



 Revenue collected from fareboxes and TVMs are delivered to the CCCO for processing





• Revenue bins are lined up so that revenues can be removed and counted by bin and division





 Currency from TVMs is neatly stacked inside bill boxes

 TVM cash is processed more quickly and more efficiently





- Cash Clerks separate bills by denomination Average Daily Breakdown:
 \$1: 206,400

 - \$5 : 12,026
 - \$10: 1,639
 \$20: 3,222



Bill processing

- One dollar bills are bagged & weighed
 Processed by a Armored service
 Larger bill denominations are counted and deposited separately



Bagged and Weighed Bills

Large Bill Denominations

• Coins and tokens from revenue bins and TVM coin boxes are emptied into a bin





Revenue Bin

TVM Cash Box

Coins and tokens are sorted by a shaker and separated by denomination





Bags catch sorted coins

Coins are placed in large bins and are ready for deposit





Token processing

- Tokens are separated from coins
- Tokens are run through token packaging machines
 Tokens are packaged 10 tokens per bag





Token Packaging Machine

Token packages are boxed -100 packages/box
 The boxes are delivered and are distributed to vendors, social service agencies and customer centers





• Supervisors ensure that revenues are processed, counted and prepared for deposit





Pick Up of Processed Revenue



- Armored service picks up coins and counted bills for bank deposit
 CCCO Supervisor prepares a deposit summary for
- CCCO Supervisor prepares a deposit summary to the Accounting Department







- Armored service picks up the daily deposit of one dollar bills
 - Each bag contains \$4,000





Metro Revenue Collection Staff



