

Board of Directors February 2022

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Fare Media Changes - Process

- Per FTA guidelines, Fare Media Changes are treated like Fare Tariff Changes, requiring equity analyses, public comment, and board approval
- The Fare Media Changes are fare policy changes which relate primarily to technology and rider behavior; cost impacts are largely selfcontained (for example, card fees cover the cost of cards) or in the capital budget for Fare Transformation



Fare Media



Riders will have a choice of what type of card they tap to pay for their trips on the T.











New Charlie Card

Dispensed from station fare vending machines and available at all sales locations

Temporary Charlie Card

Dispensed from streetscape fare vending machines, but can be upgraded for free at station fare vending machines Sold in bulk for short term use (e.g. conferences or social service agencies)

Mobile Charlie Card

A virtual Charlie Card that allows riders to tap their mobile device when they ride

Contactless credit card

Riders can avoid purchasing and reloading a Charlie Card by tapping a Visa, Mastercard, Amex cards with the contactless logo to ride

Mobile wallet

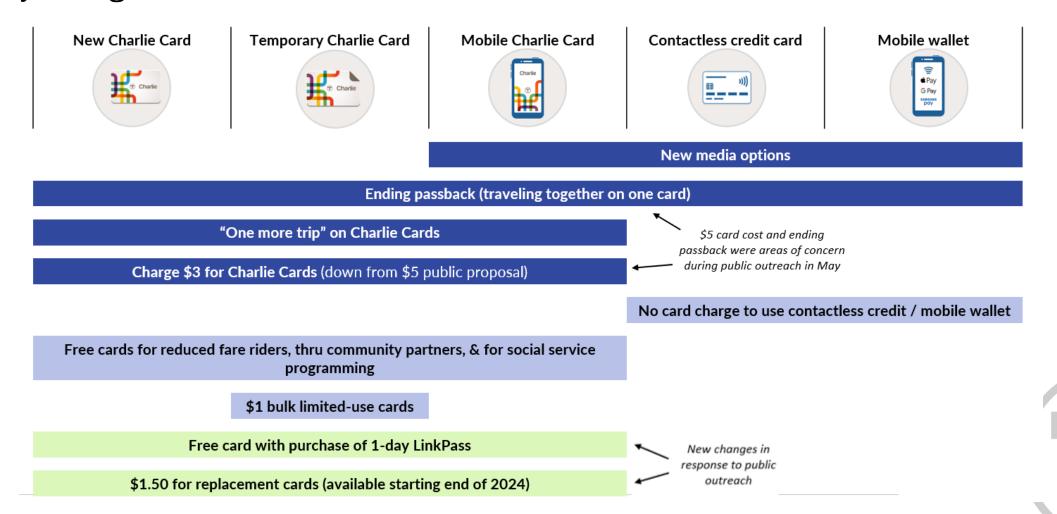
Riders can avoid purchasing and reloading a Charlie Card by taping a mobile device with Apple Pay, Google Pay, Samsung Pay to ride

Key Features

- Secure chip technology
- All fare media types are tappable, accepted at all readers on all modes, and support all fare products
- Card fees configurable by card type and other parameters defined in fare policy
- Card is used only as credential and record of the balance is held in the back office, ensuring there's an accurate record of the balance and making it easy to replace
- Charlie Cards can be printed with custom artwork for special events, promotions, or sponsorships

Fare Media Changes – Policy Changes Overview

Fare Transformation includes exciting new technologies that inherently contain fare policy changes.



Fare Policy Change: Charging \$3 for Charlie Cards

We are introducing a \$3 card fee for new physical and mobile Charlie Cards for 2 primary reasons:

- 1. The new system allows "one more trip" riders can board even if they have a low or zero balance. The \$3 fee is a partial prepayment for this capability. In preliminary analysis, we have assumed an average negative balance of \$0.50 per card.
- 2. Charlie Cards cost ~\$1.50 to procure

Note that in initial proposals, we considered charging \$5 for Charlie Cards, but have revised to \$3 based on public feedback



Fare Policy Change: "One more trip" on Charlie Cards

The new fare media will allow riders to board with a low or zero balance, even if the fare for the trip would take their balance negative. This change is being made for two primary reasons:

- Riders' convenience and improvements to boarding efficiency
- We will not leave riders stranded if they cannot get to a Charlie sales location; they will be covered by the "one more trip" protection. Covering the cost of the card allows the MBTA to substantially expand the sales network where customers can obtain Charlie Cards

Riders with a negative balance will not be allowed to board. These riders can reload their Charlie Card with transit value and can later go negative by up to one trip, at which point they would again need to reload their card.

 Riders will be notified by readers as their transit value balance approaches zero, and if they have a negative balance and are not allowed to board

Fare Policy Change: Ending Passback

"Passback" describes the action of using transit value to tap multiple riders through a fare gate. This is allowed under the current legacy fare system

Passback is relevant to 1.5% of all taps

The new system will not maintain this feature. We would note that:

- Passbacks were helpful in the old system because fare media were difficult to obtain; in the new system, it will be easy to obtain Charlie Cards, and riders can also use contactless credit cards and mobile wallets
- We want to introduce mobile and contactless payment without causing accidental charges and to integrate Commuter Rail without creating pricing errors
- Many users of passbacks were tourists; we have eliminated the card fee on 1-Day LinkPasses, a popular product with tourists
- The majority of peer agencies do not allow passbacks

Summary of Other Fare Policy Changes

Free Cards to Reduced Fare Riders

 Reduced Fare Riders will not be charged the \$3 card fee when they buy fare media

Free Cards with 1-day LinkPass

 Riders purchasing a 1-day LinkPass on a new fare media will not be charged the \$3 card fee

\$1 bulk limited-use cards

 This is intended for group sales such as conferences. These cards cost \$0.67 to procure and cannot be reloaded once initial transit value or pass is used up.

\$1.50 for replacement cards

 Starting at the end of 2024, riders who lose their new fare media can replace them for a 50% card fee

Fare Policy Change: Enhanced Free Card Distribution Plan

- Given the potential inequity of charging for cards (and not charging for the use of contactless credit cards and mobile wallets), we are developing a plan to distribute free cards within minority and low-income communities through partner organizations
- In addition, riders will not be charged for cards if they are eligible for Reduced Fare Programs or if they purchase a 1-Day LinkPass
- Based on our analysis, a total of 325-355k free cards distributed to low income, minority, Reduced Fare, and 1-day LinkPass riders will cost \$650-710k and will ensure an equitable outcome for all riders



Preliminary Equity Analysis

- <u>Background:</u> The same FTA regulations regarding Disparate Impact on minority riders and Disproportionate Burden on low-income riders that apply to fare tariff changes also apply to fare media changes
- <u>Fare Increase:</u> Given that the \$3 card fee is a "fare increase," the DI and DB ratios must be <1.10x to "pass" MBTA policy. We have worked with CTPS to understand the net equity impact of the media changes.
- <u>Preliminary Result:</u> Final analysis will be brought to the board in April, but CTPS' preliminary work demonstrates that *these changes pass an equity analysis by a wide margin*
- <u>Assumptions:</u> Embedded in CTPS' analysis are a number of assumptions about rider behavior, including:
 - % of riders who pay with contactless credit cards
 - Whether contactless credit cards can hold passes (1-day, 7-day, monthly)
 - % of riders who use the mobile app
 - Frequency with which riders lose and replace cards

Timeline & Next Steps

February: Proposed Fare Media Changes will be presented to MBTA

Board

Public Comment Opens

March: Staff will conduct Public Outreach, informally and formally

Promoting Public Meeting on March 15, 2022 at 6pm and Public Hearing on March 22, 2022 at 6pm

April: Public Comment will close on March 31, 2022

> Staff will collate all comments, make any modification based on feedback, and with CTPS will finalize the Equity Analysis

Full Board will be asked to vote on Proposed Fare Media Changes

Changes will go into effect with revenue service **Future** Implementation:

commencement of the new fare collection system on bus and

rapid transit

Appendix



Preliminary Equity Analysis Output

- CTPS has run several scenarios with various assumptions on key variables:
 - Whether contactless credit cards can hold passes¹
 - % of riders that use contactless credit cards. 30% is our working hypothesis, 100% is the most conservative (ie least equitable)
 - % of riders that use mobile app. 30% is our working hypothesis, 0% is the most conservative (ie least equitable)
- Depending on assumptions on credit card passes, credit card usage, mobile app usage, and free card
 distribution, the changes net out to a fare increase or a fare decrease (ie more cards are distributed than are
 purchased). The full results are included below.

Can CCs Store Passes?	% of Eligible Riders Using CCs	% of Eligible Riders Using Mobile	Fare Increase or Decrease; Relevant Ratio	Disparate Impact Ratio	Disproportionate Burden Ratio
Yes	30%	30%	Increase; <1.10x	0.19x	-0.02x
Yes	100%	0%	Decrease; >0.90x	1.41x	1.60x
No	30%	30%	Increase; <1.10x	0.38x	0.21x
No	100%	0%	Increase; <1.10x	-0.17x	-0.78x

¹ The MBTA would prefer for CCs to have the ability to store passes, but this remains an open discussion with the major CC companies

Summary of New Fare Media

New Charlie Card	Functionally similar to the old CharlieCard; charge \$3 card fee		
New Temporary Charlie Card	Same functionality as a Charlie Card but temporary in nature for bulk sales or distributed in limited functionality fare vending machines; charge \$3 card fee but this media can be exchanged for Charlie Card for free		
Mobile Charlie Card	Functionally the same as a Charlie Card but stored on any smartphone; charge \$3 card fee		
Contactless Credit Card	Riders can tap their contactless credit cards directly on fare gates and readers to pay fares and prove fare payment; no card fee		
Mobile Wallet	Riders can tap the credit cards in their mobile wallets directly on fare gates and readers to pay fares and prove fare payment; no card fee		

Note: These changes will be implemented with the role out of Fare Transformation and revenue service commencement on bus and rapid transit