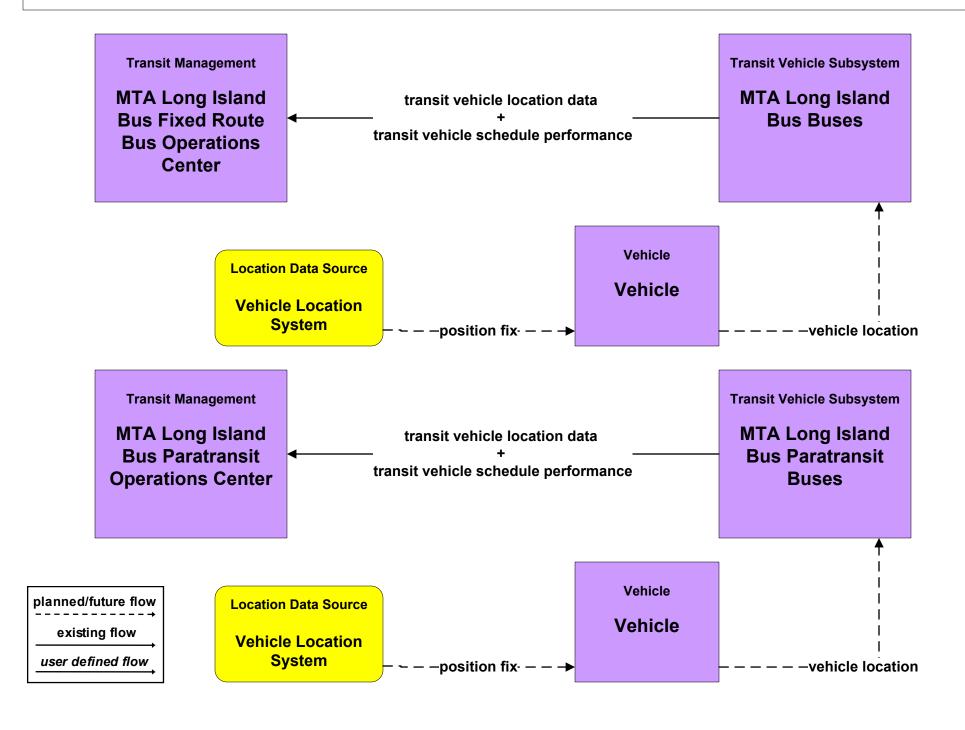
NYMTC ITS Integration Strategy and New York City Sub Regional ITS Architecture

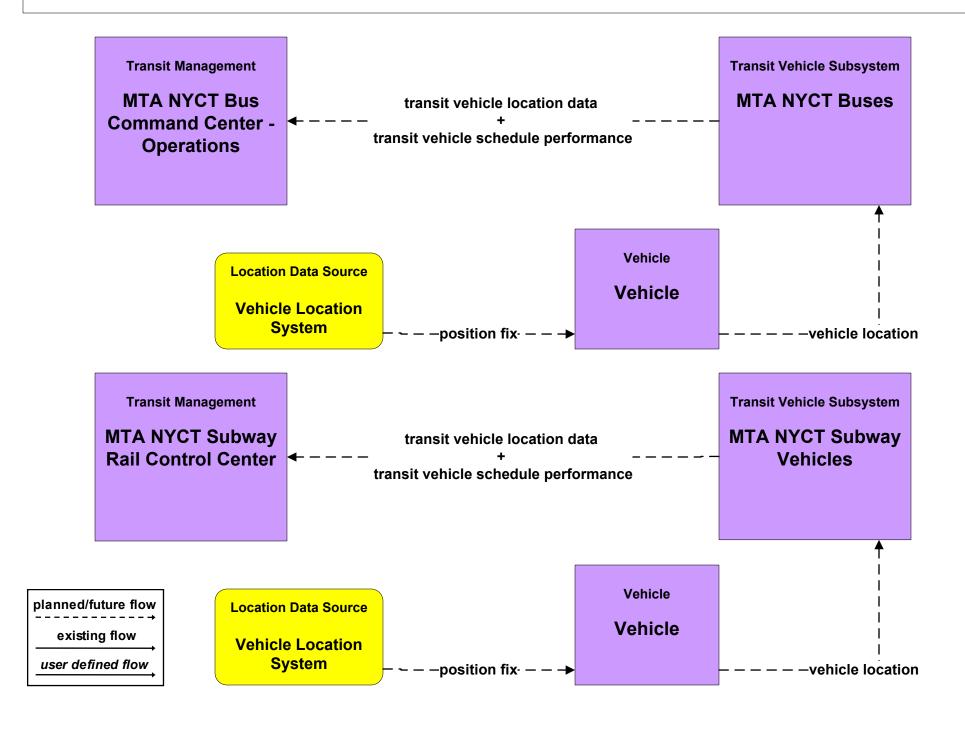
Customized Market Package Diagrams

Advanced Public Transportation Systems (APTS)

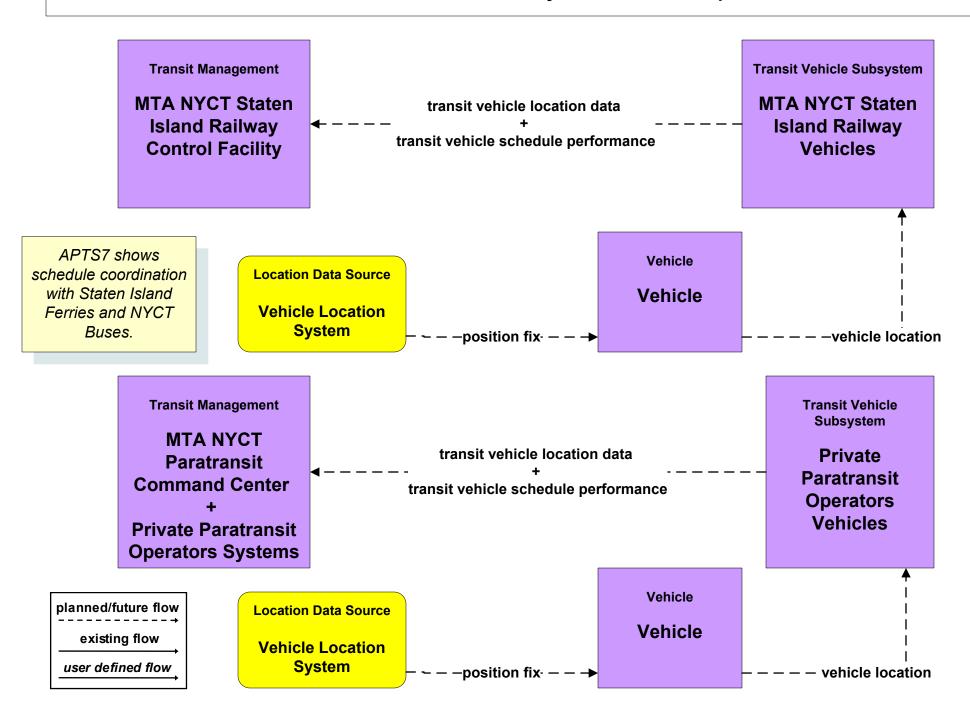
APTS1 - Transit Vehicle Tracking MTA Long Island Bus



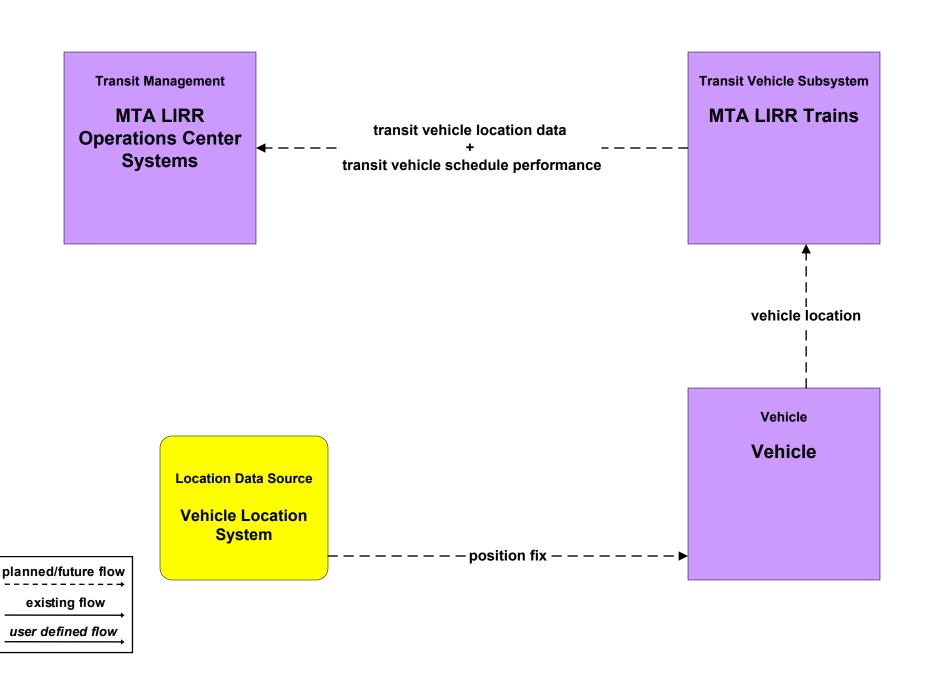
APTS1 - Transit Vehicle Tracking MTA NYC Transit Bus and Subway



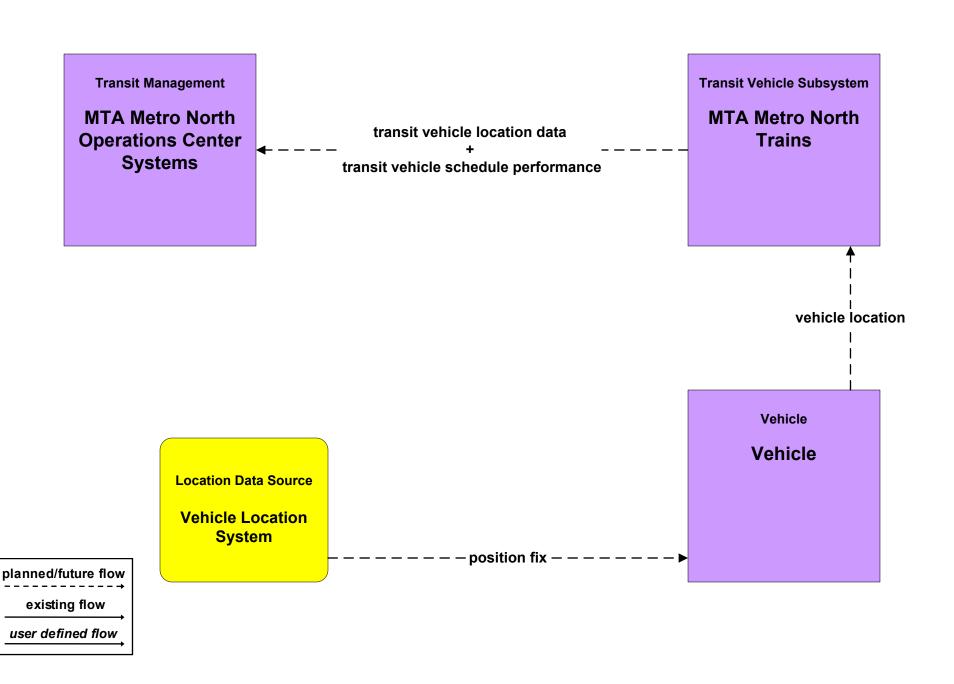
APTS1 - Transit Vehicle Tracking MTA NYCT Staten Island Railway and Paratransit Operators



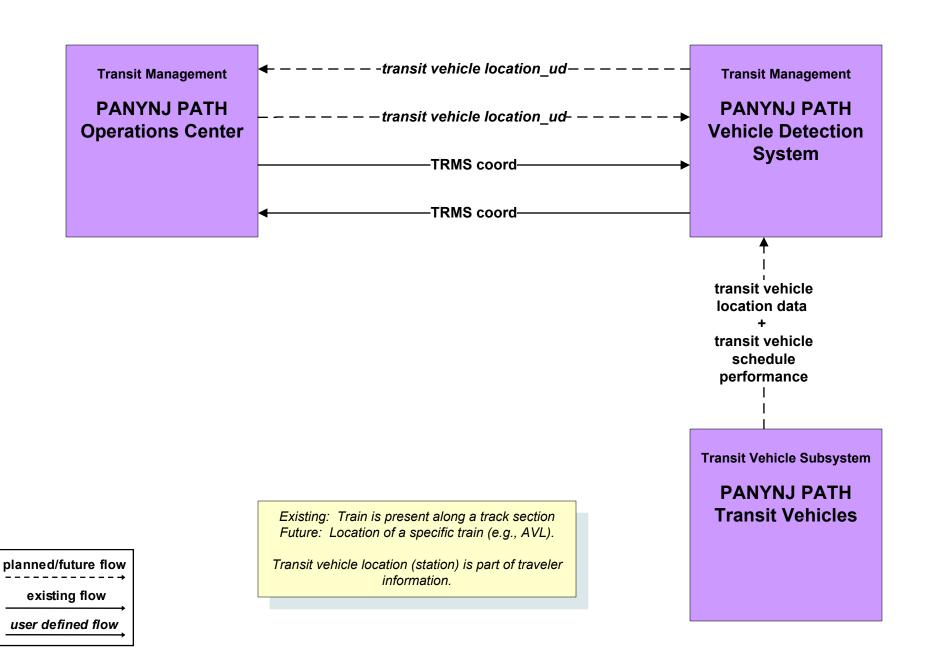
APTS1 - Transit Vehicle Tracking MTA Long Island Rail Road



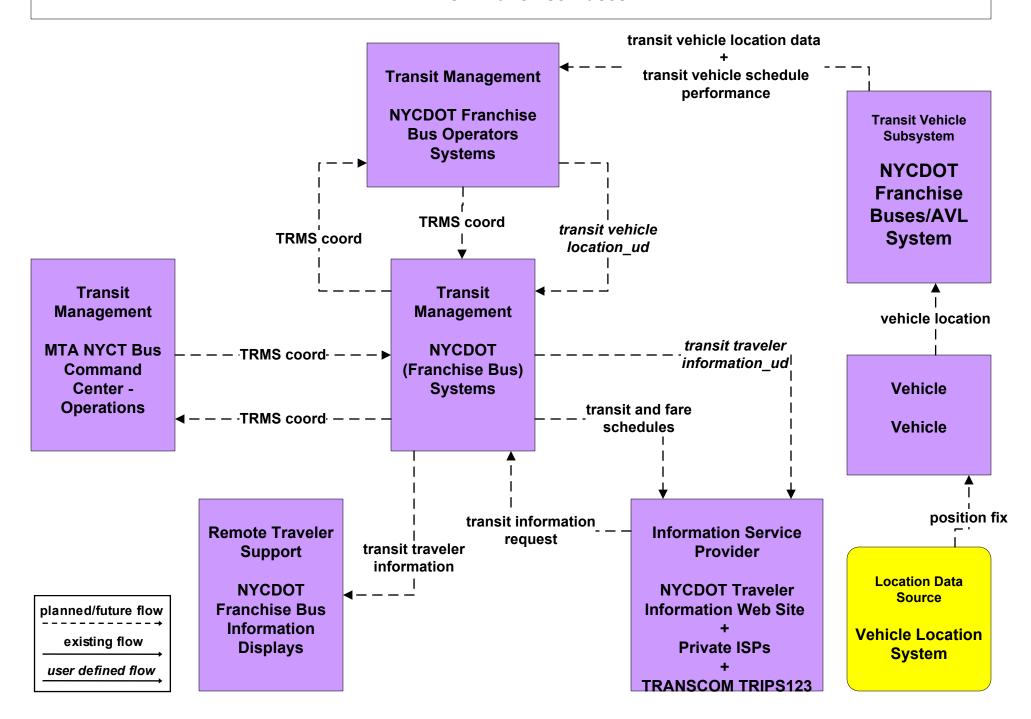
APTS1 - Transit Vehicle Tracking MTA Metro North Railroad



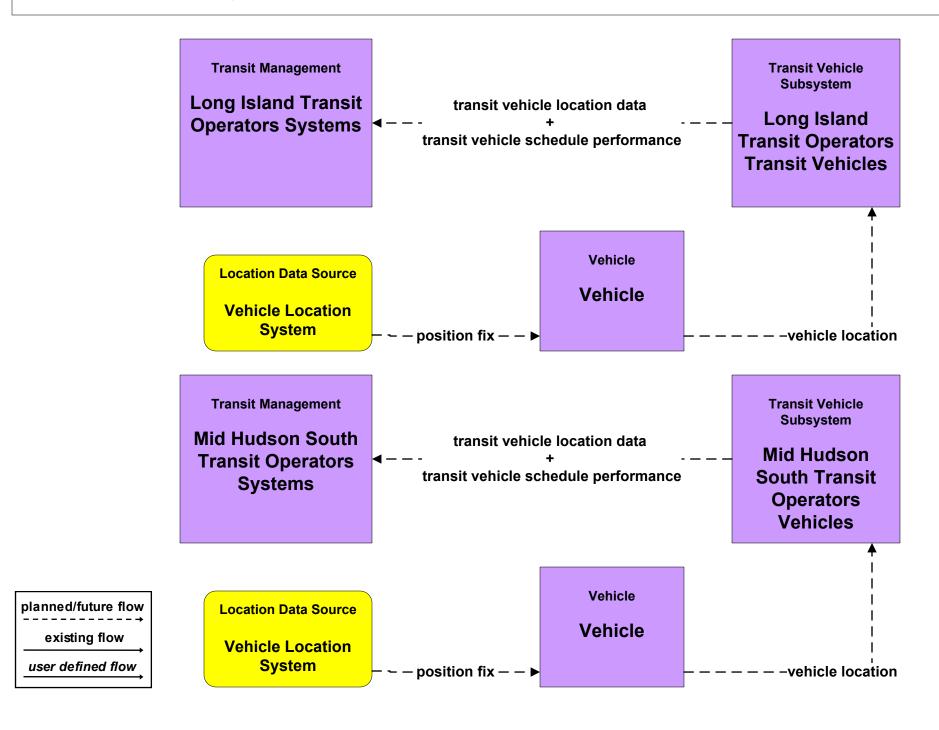
APTS1 - Transit Vehicle Tracking PANYNJ PATH



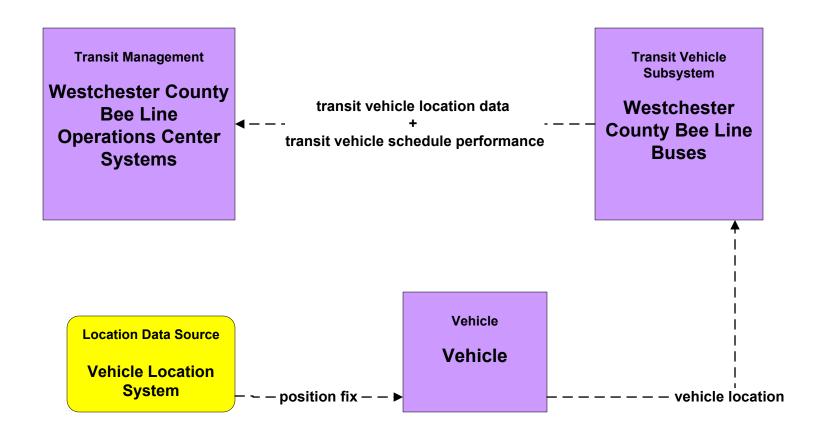
APTS1 - Transit Vehicle Tracking NYCDOT Franchise Buses



APTS1 - Transit Vehicle Tracking Long Island Transit Operators, Mid Hudson South Transit Operators



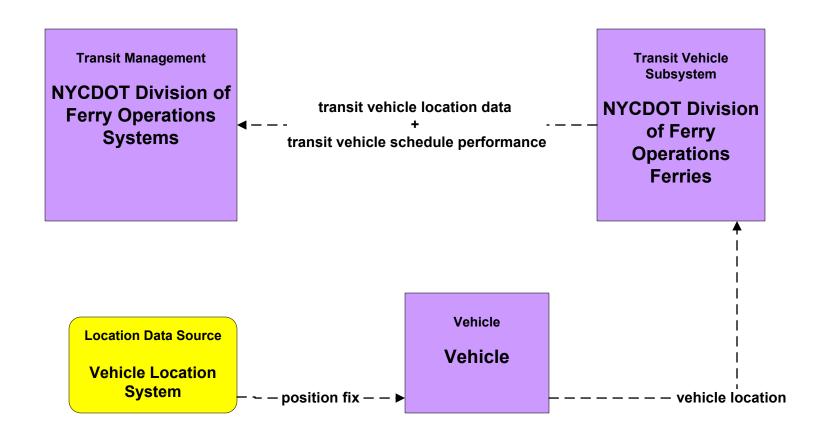
APTS1 - Transit Vehicle Tracking Westchester County Bee Line



existing flow

user defined flow

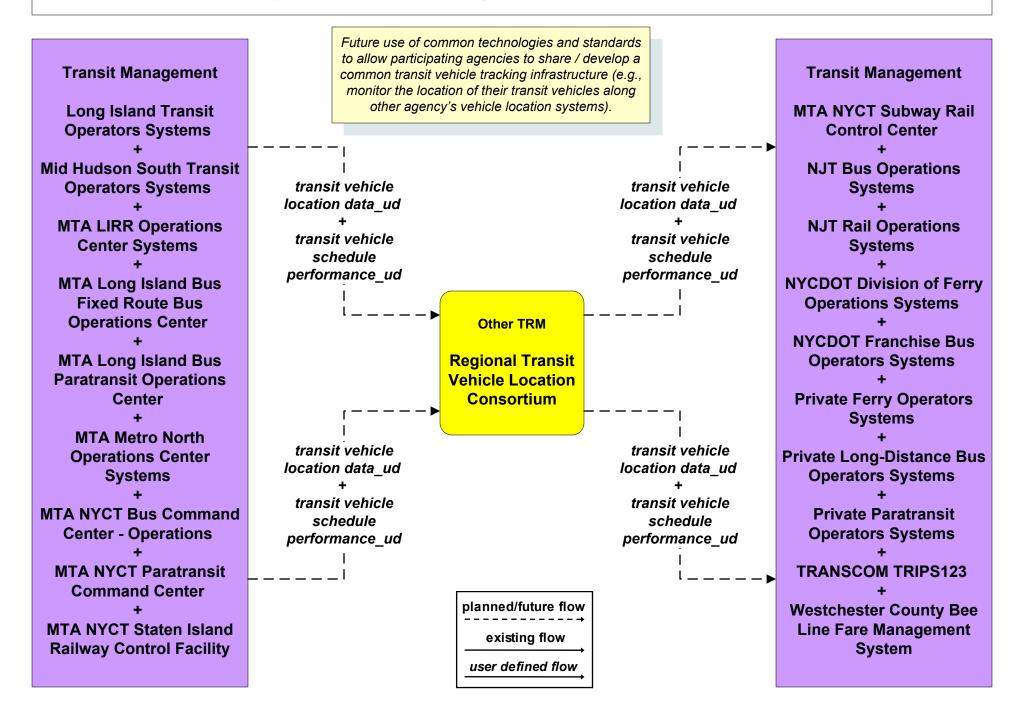
APTS1 - Transit Vehicle Tracking NYCDOT Division of Ferries



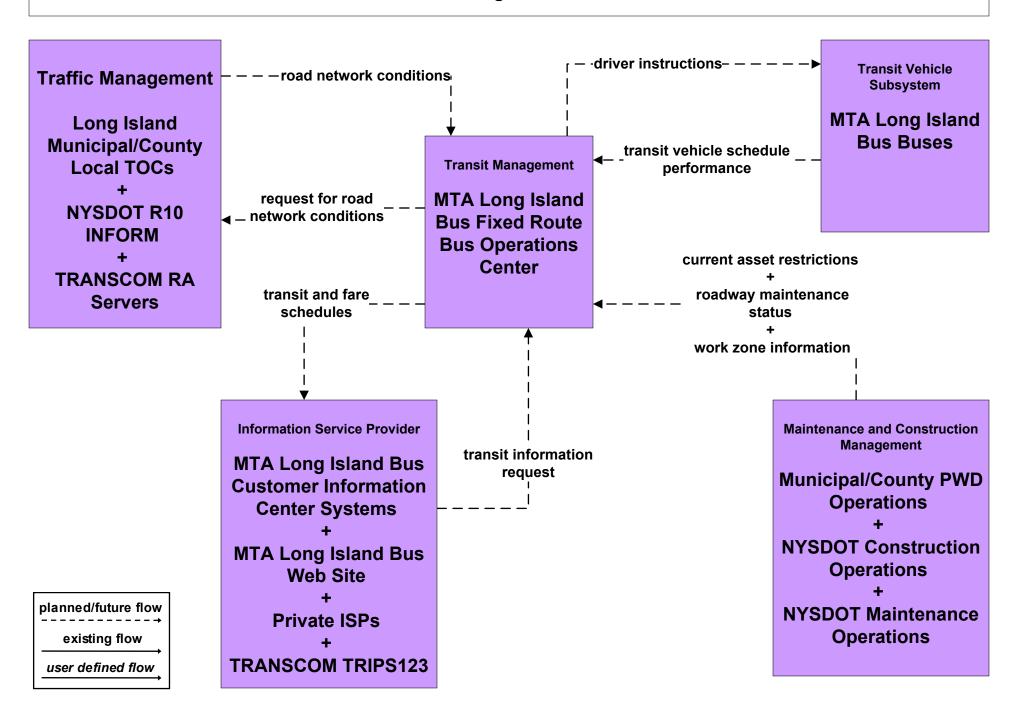
existing flow

user defined flow

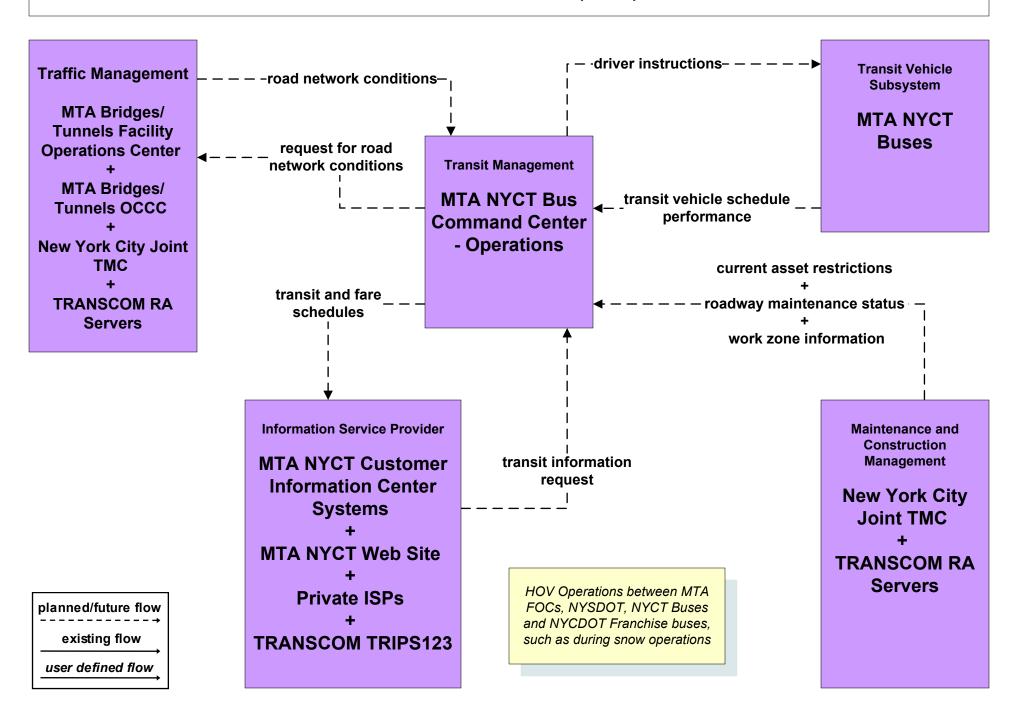
APTS1 - Transit Vehicle Tracking New York City Metropolitan Area Regional Transit Vehicle Location Consortium



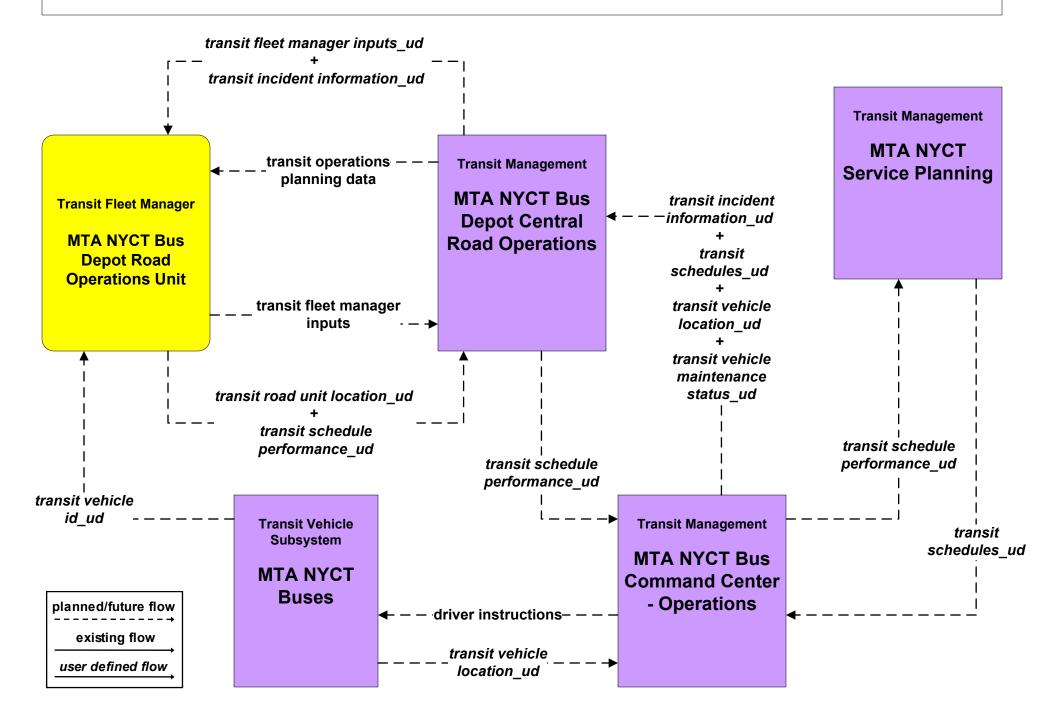
APTS2 - Transit Fixed-Route Operations MTA Long Island Bus



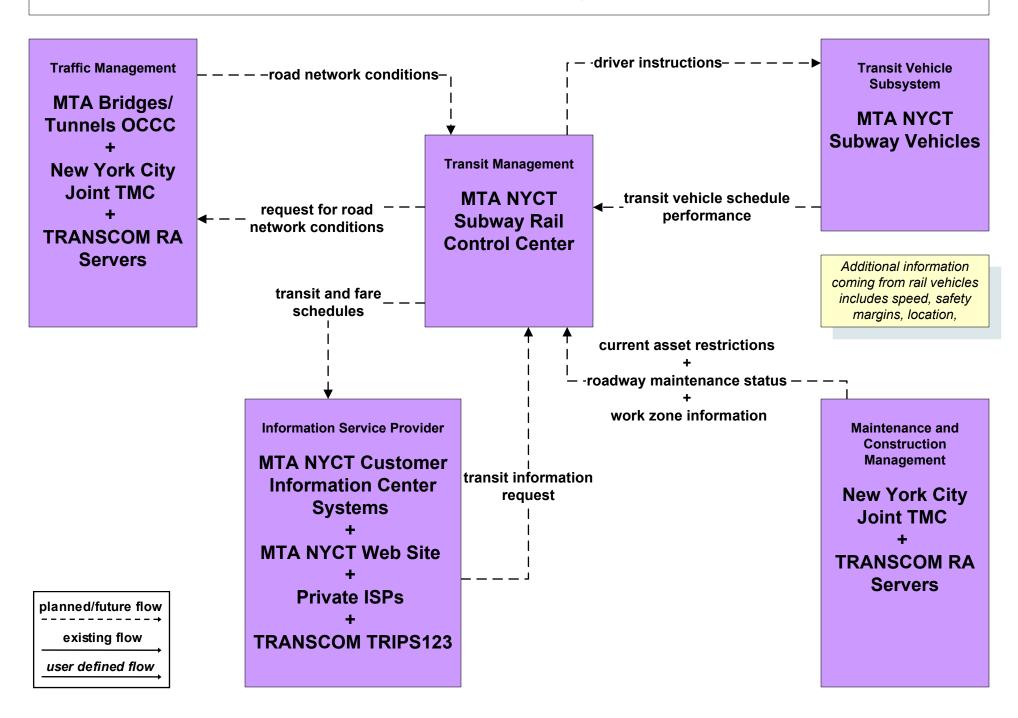
APTS2 - Transit Fixed-Route Operations MTA NYC Transit Bus (1 of 2)



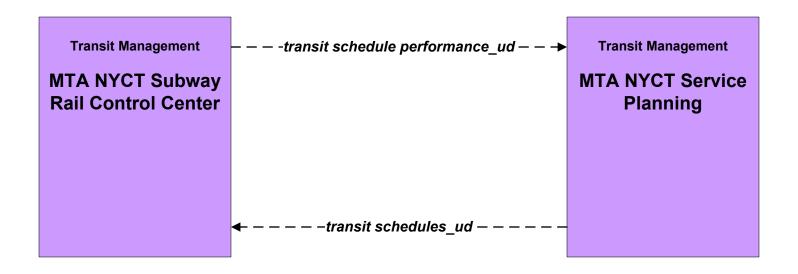
APTS2 - Transit Fixed-Route Operations MTA NYC Transit Bus (2 of 2)



APTS2 - Transit Fixed-Route Operations MTA NYC Transit Subway (1 of 2)



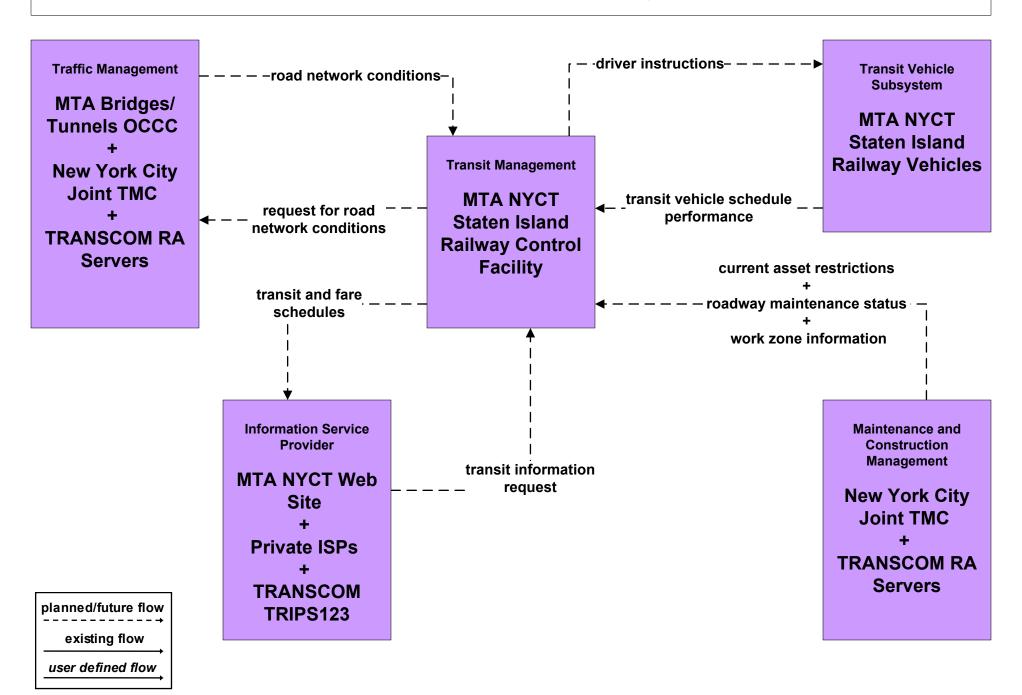
APTS2 - Transit Fixed-Route Operations MTA NYC Transit Subway (2 of 2)



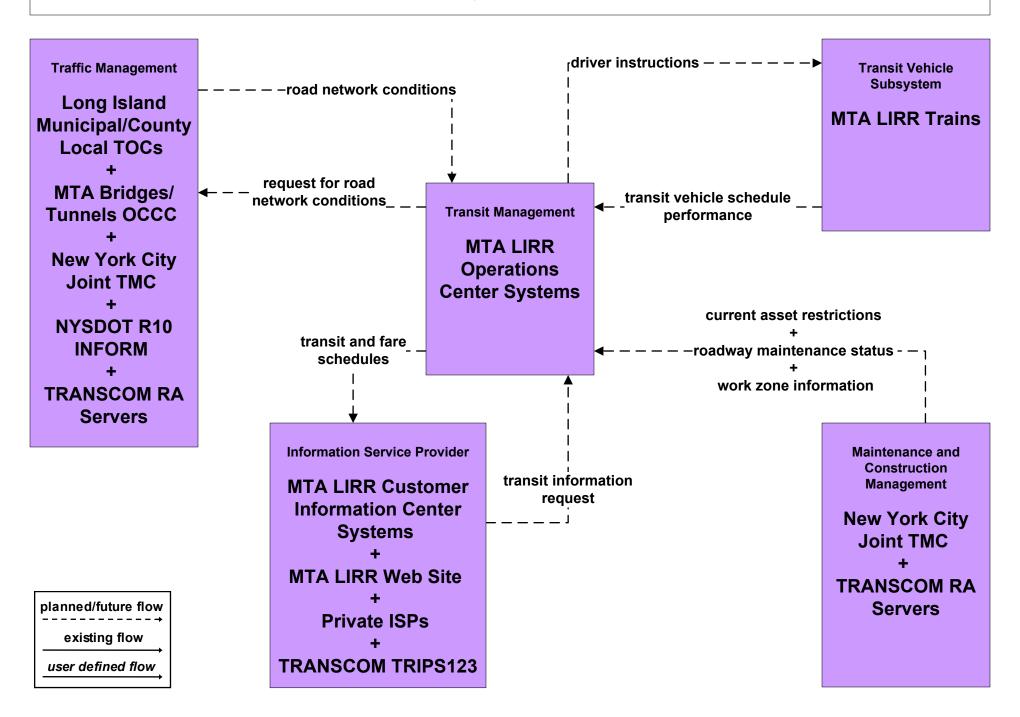
existing flow

user defined flow

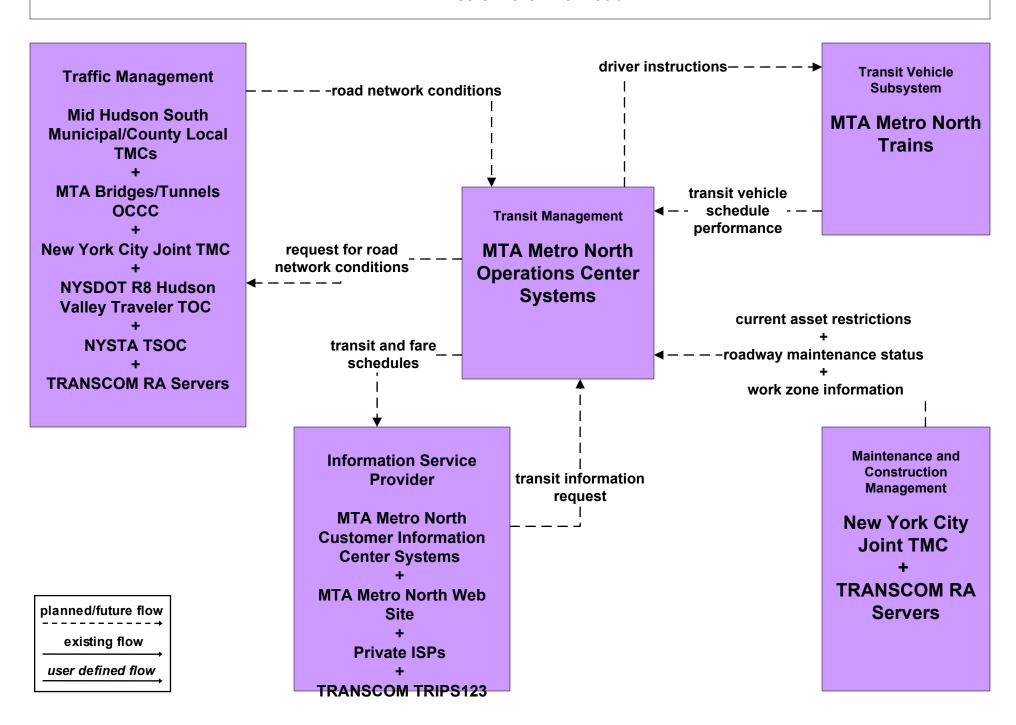
APTS2 - Transit Fixed-Route Operations MTA NYCT Staten Island Railway



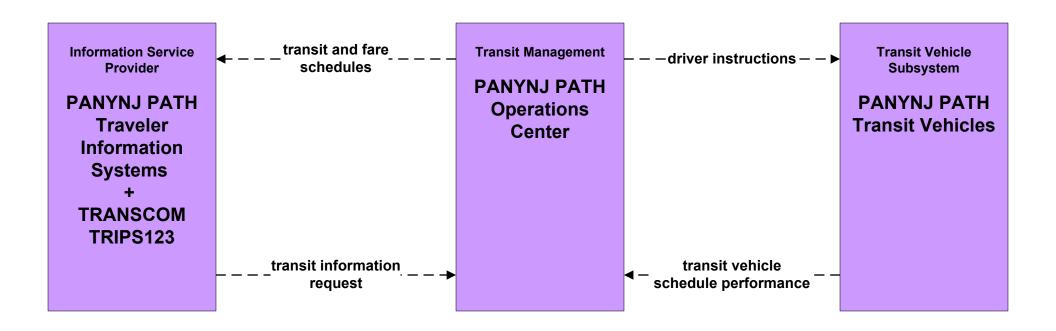
APTS2 - Transit Fixed-Route Operations MTA Long Island Rail Road



APTS2 - Transit Fixed-Route Operations MTA Metro North Railroad



APTS2 - Transit Fixed-Route Operations PANYNJ PATH

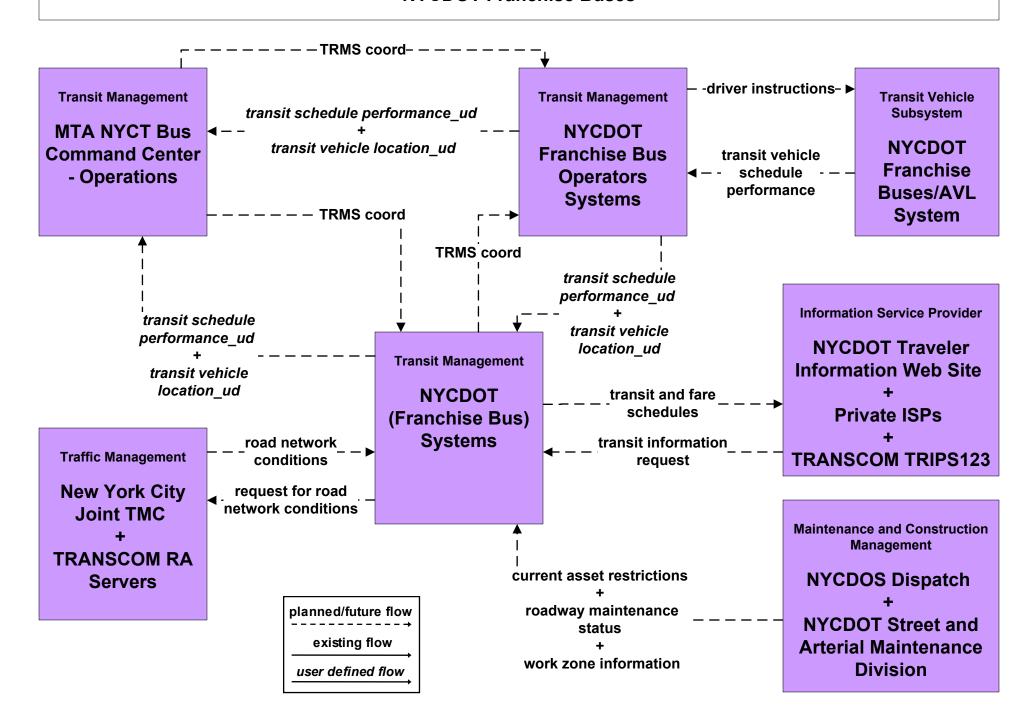


planned/future flow

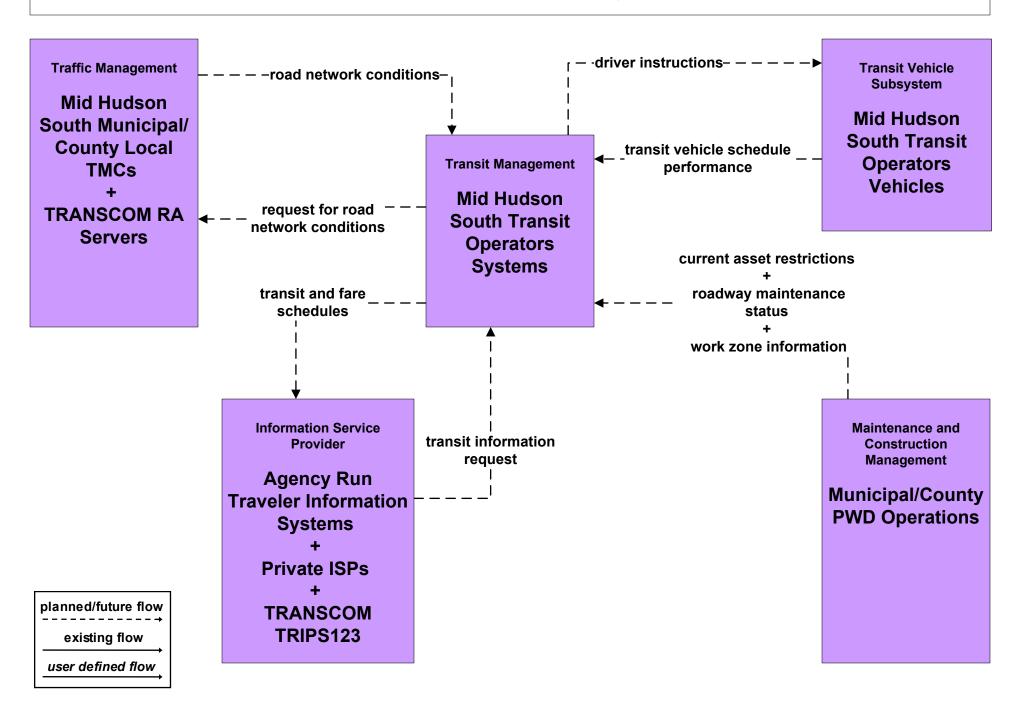
existing flow

user defined flow

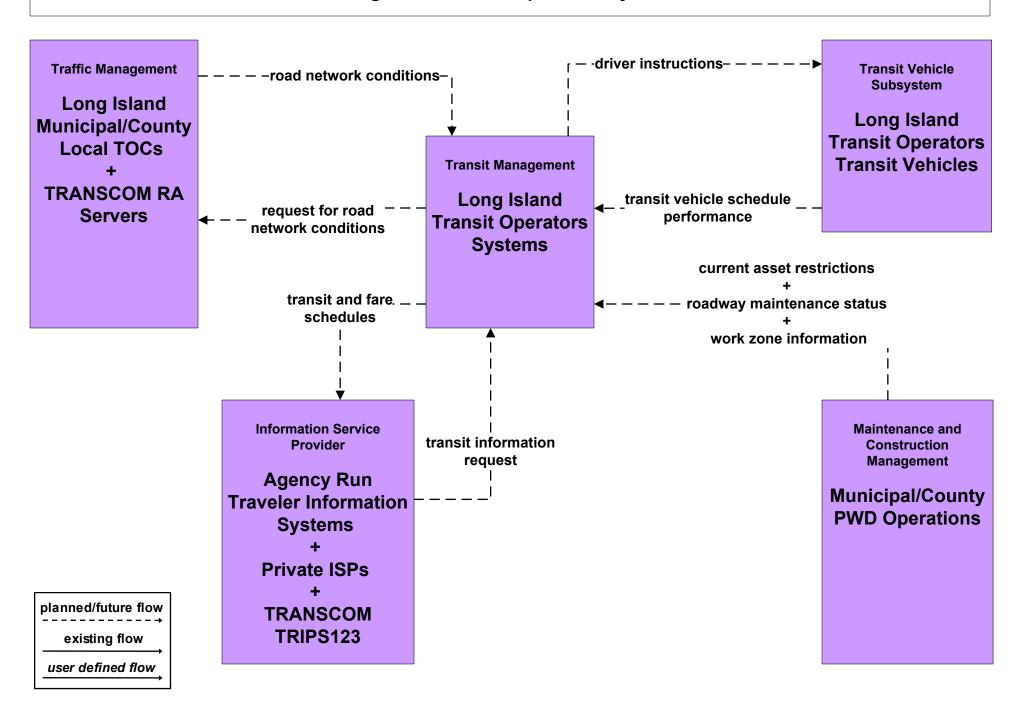
APTS2 - Transit Fixed-Route Operations NYCDOT Franchise Buses



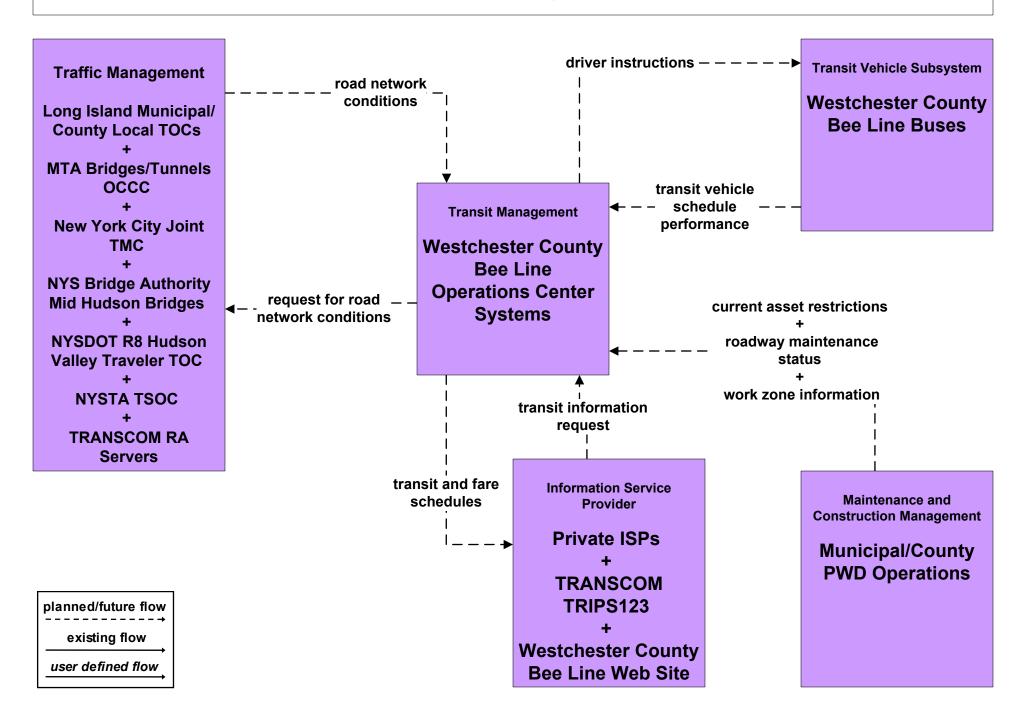
APTS2 - Transit Fixed-Route Operations Mid Hudson South Operators Systems



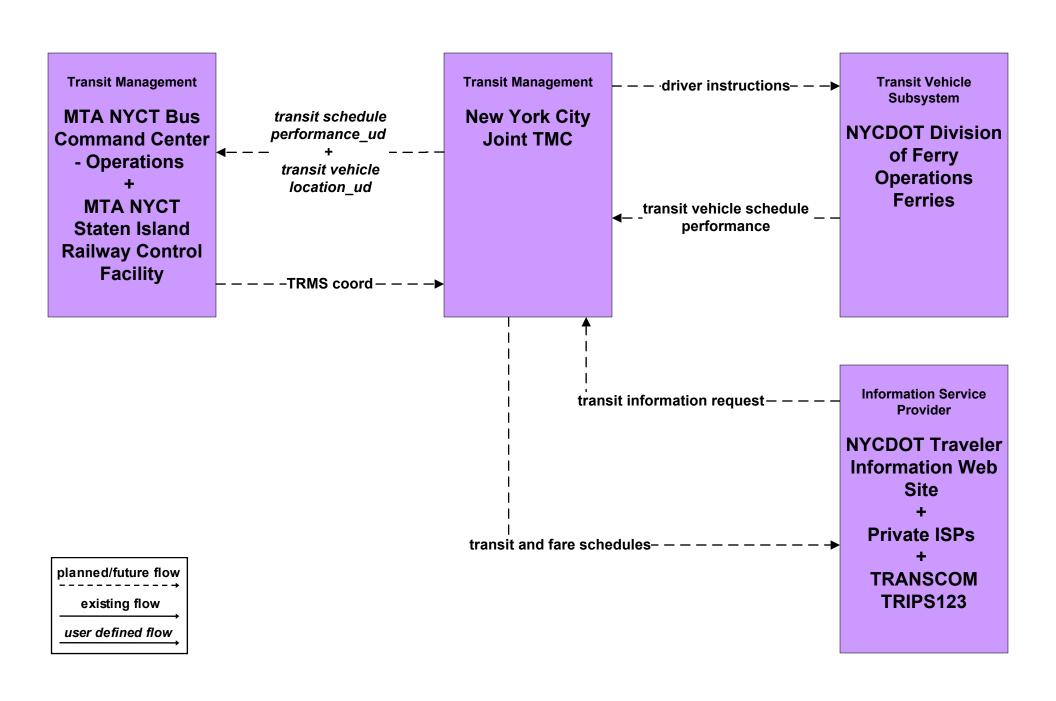
APTS2 - Transit Fixed-Route Operations Long Island Transit Operators Systems



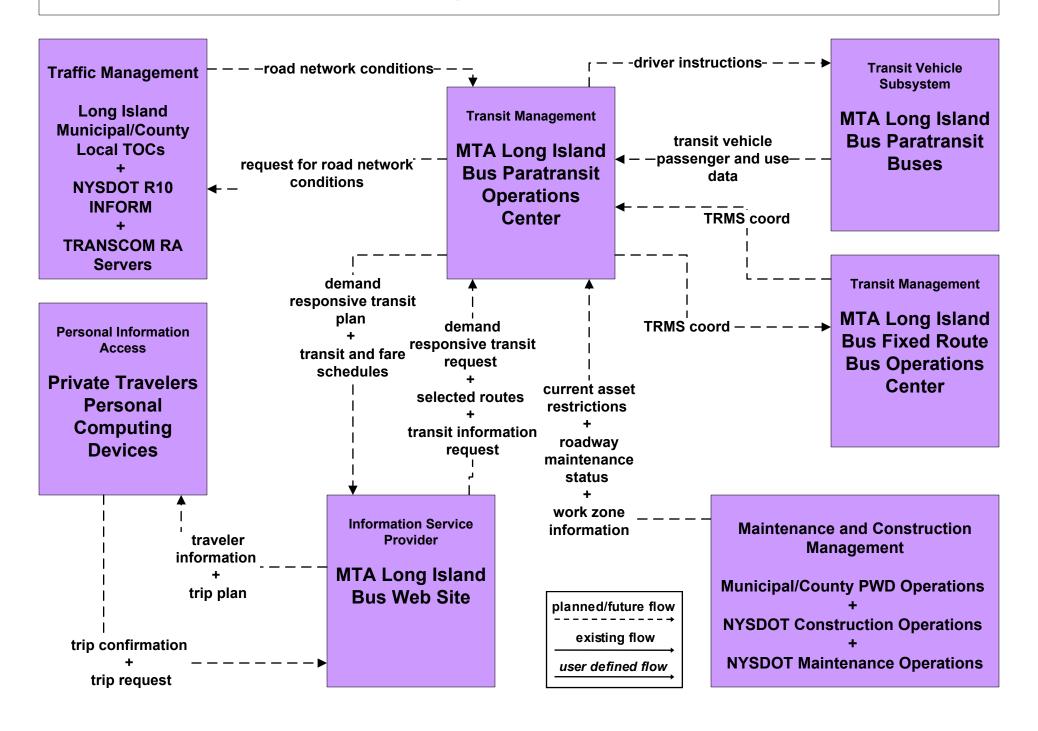
APTS2 - Transit Fixed-Route Operations Westchester County Bee Line



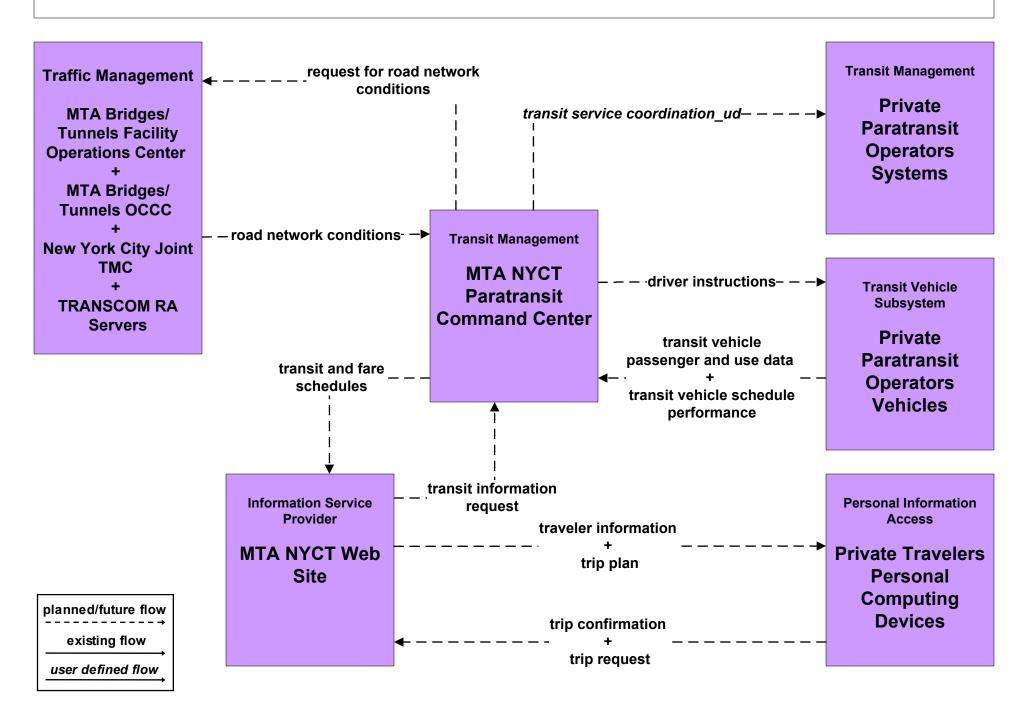
APTS2 - Transit Fixed-Route Operations NYCDOT Division of Ferry Operations



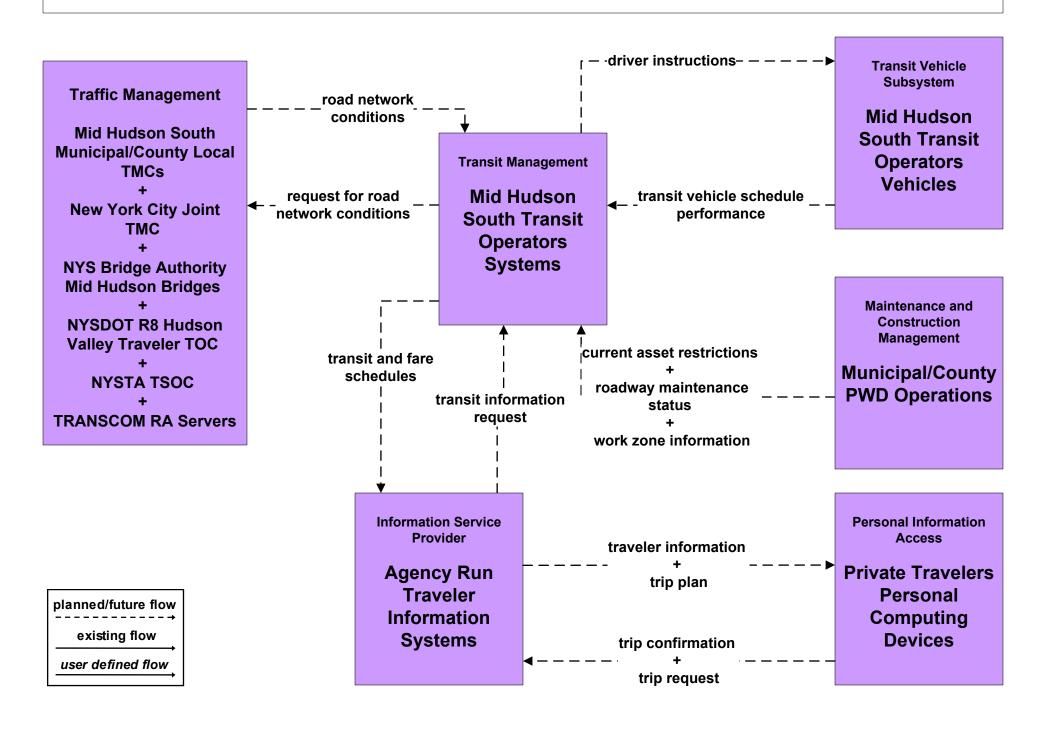
APTS3 - Demand Response Transit Operations MTA Long Island Bus Paratransit



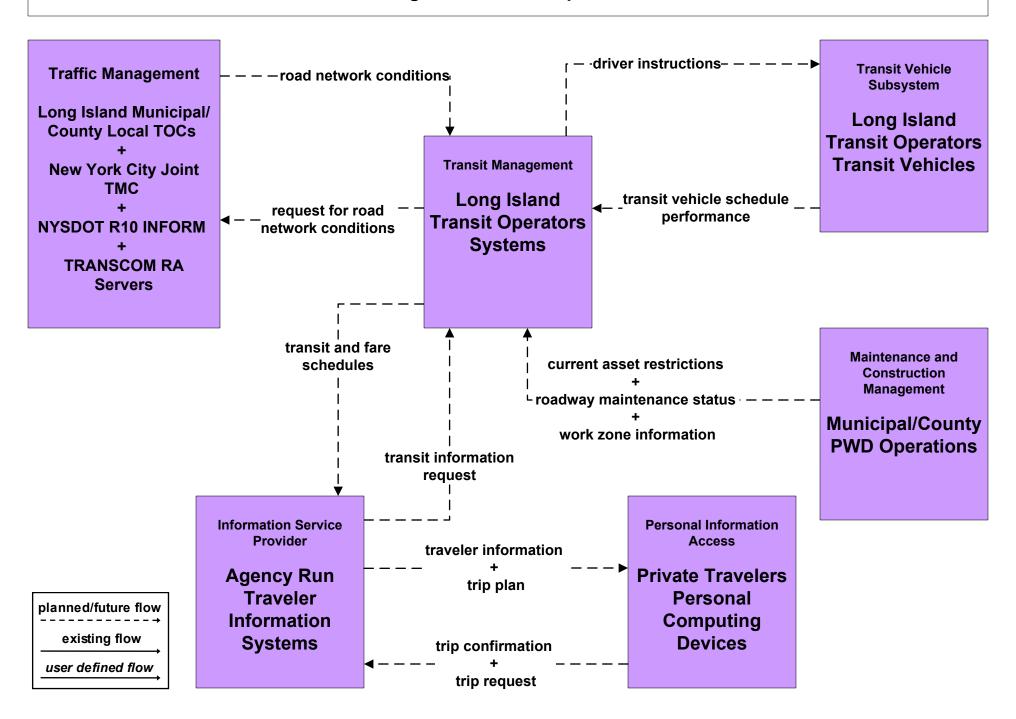
APTS3 - Demand Response Transit Operations MTA NYC Transit Paratransit



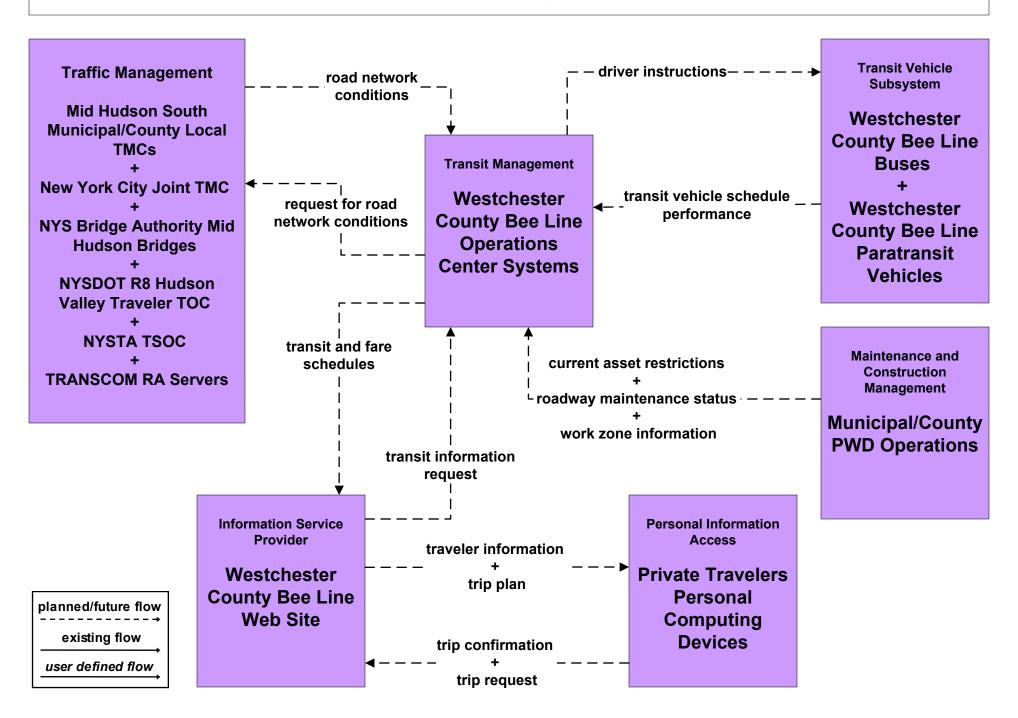
APTS3 - Demand Response Transit Operations Mid Hudson South Transit Operators



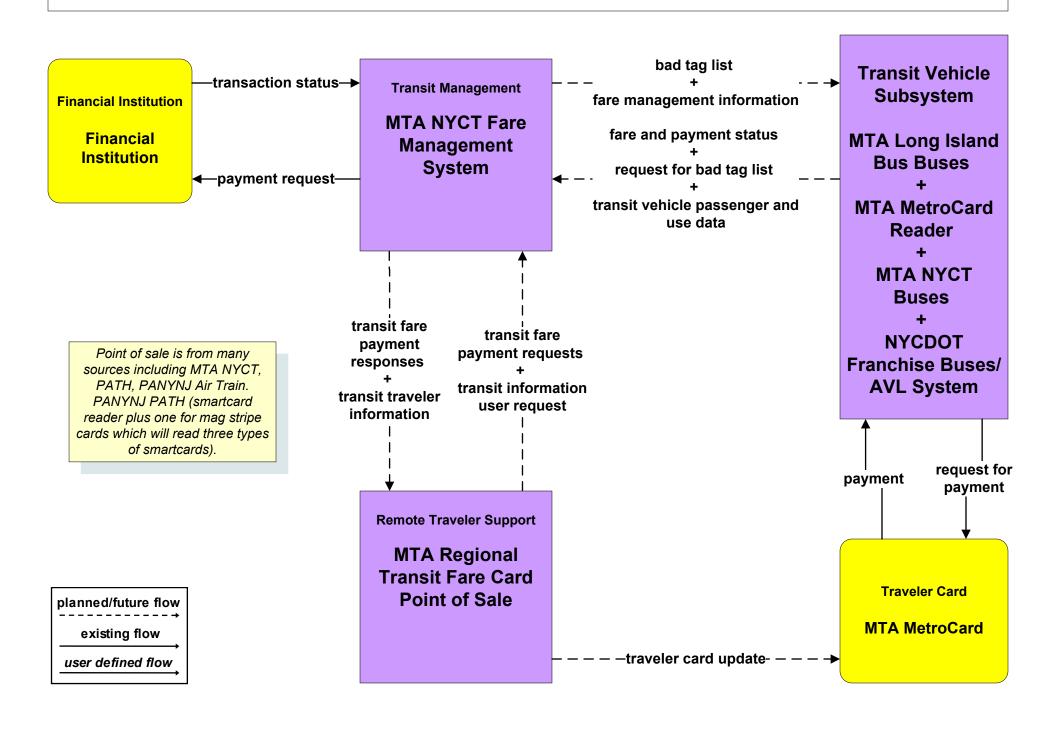
APTS3 - Demand Response Transit Operations Long Island Transit Operators



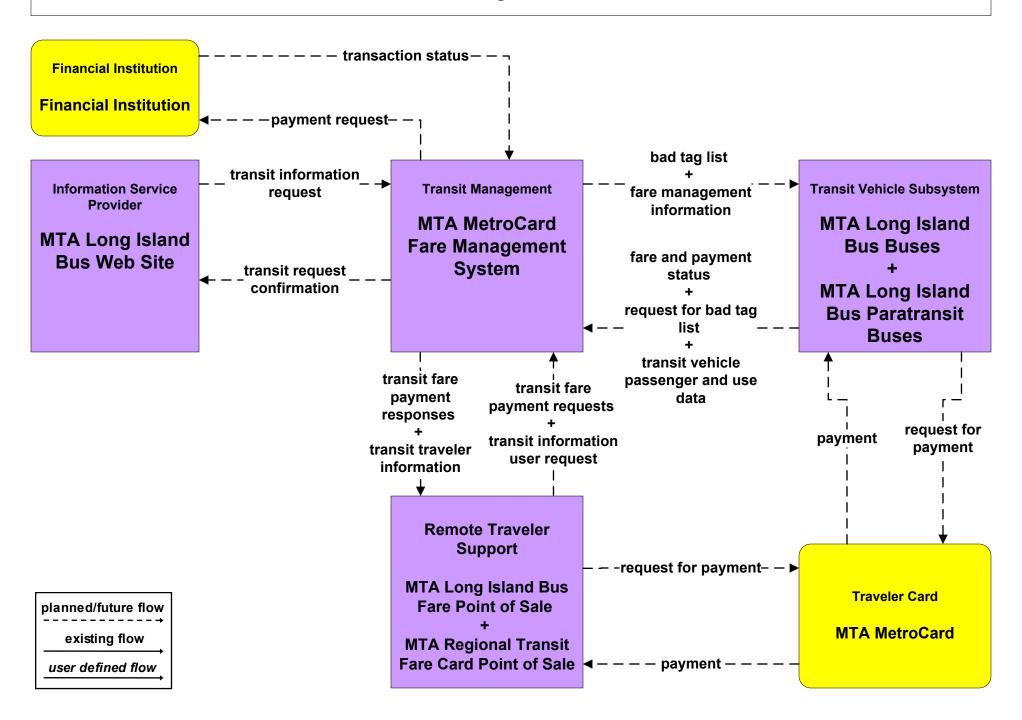
APTS3 - Demand Response Transit Operations Westchester County Bee Line



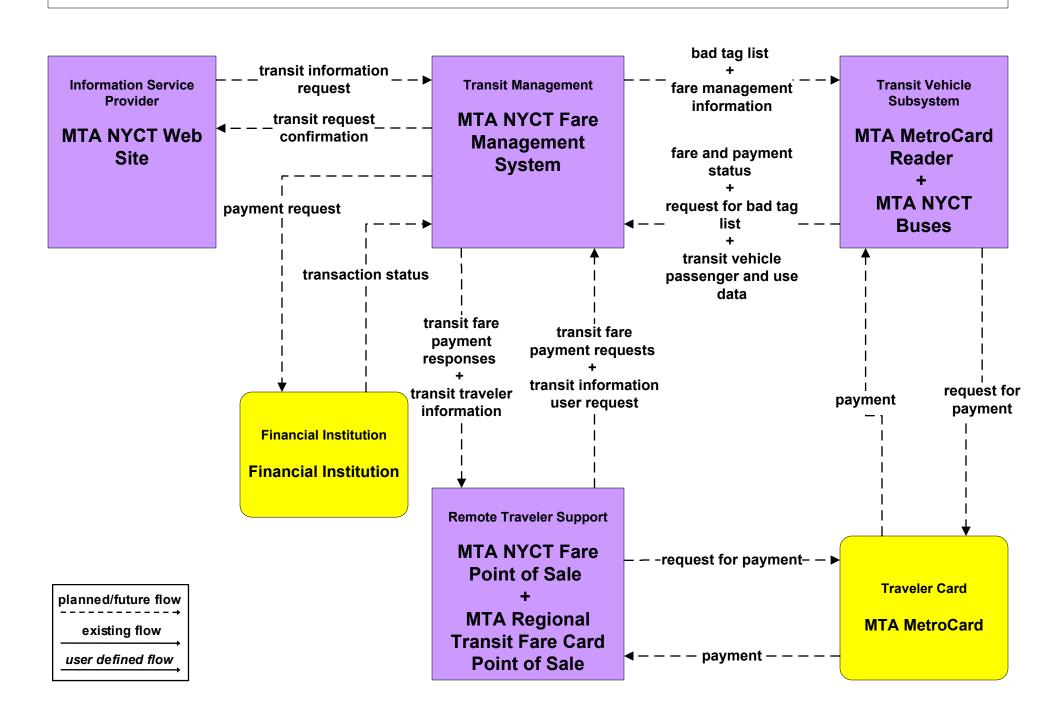
APTS4 - Transit Passenger and Fare Payment MTA MetroCard Management



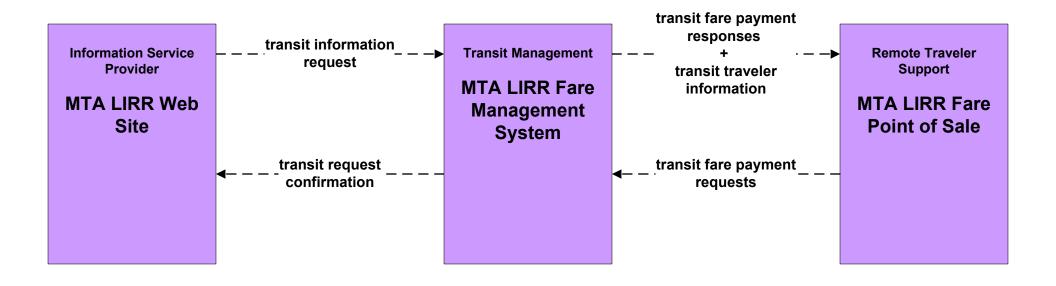
APTS4 - Transit Passenger and Fare Payment MTA Long Island Bus



APTS4 - Transit Passenger and Fare Payment MTA NYC Transit



APTS4 - Transit Passenger and Fare Payment MTA Long Island Rail Road



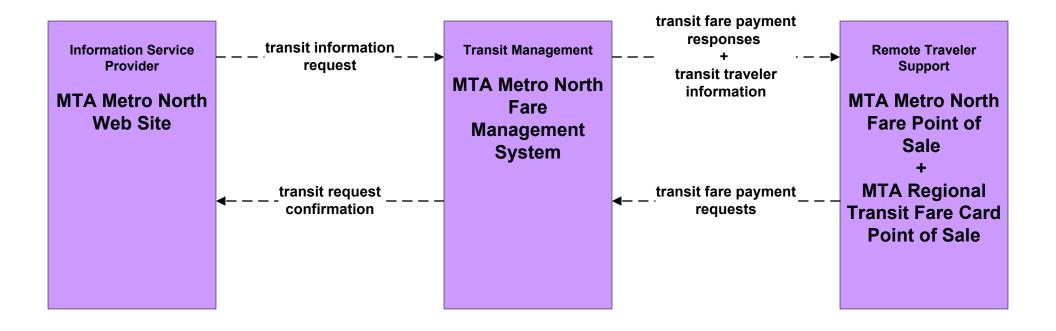
Tickets may also be purchased via the web. Tickets are sent via the mail.

planned/future flow

existing flow

user defined flow

APTS4 - Transit Passenger and Fare Payment MTA Metro North Railroad

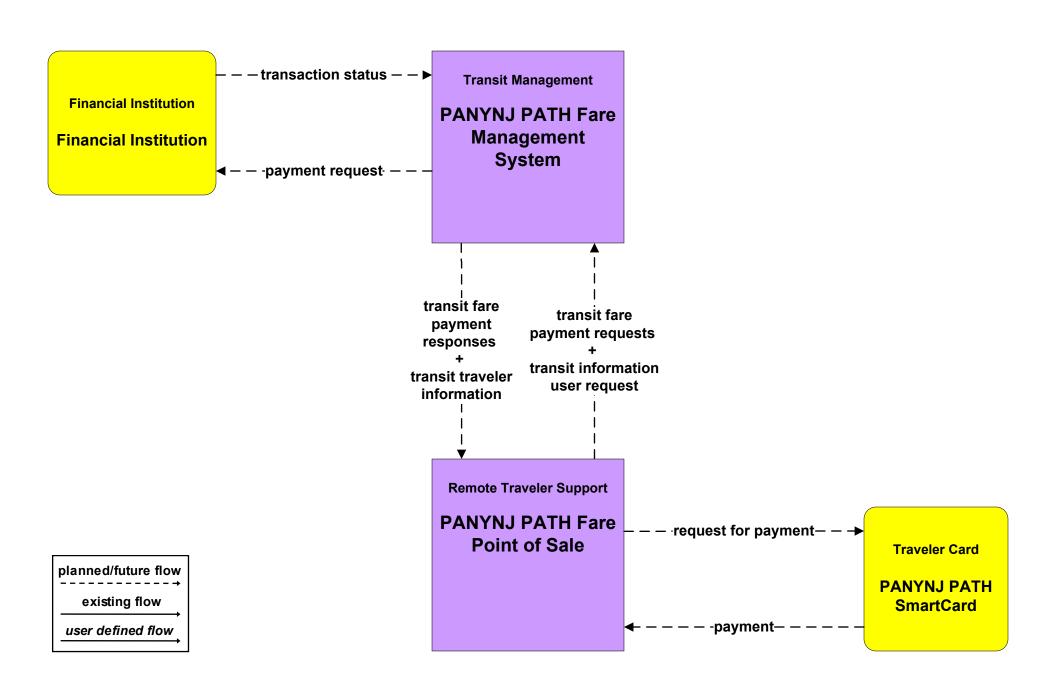


planned/future flow

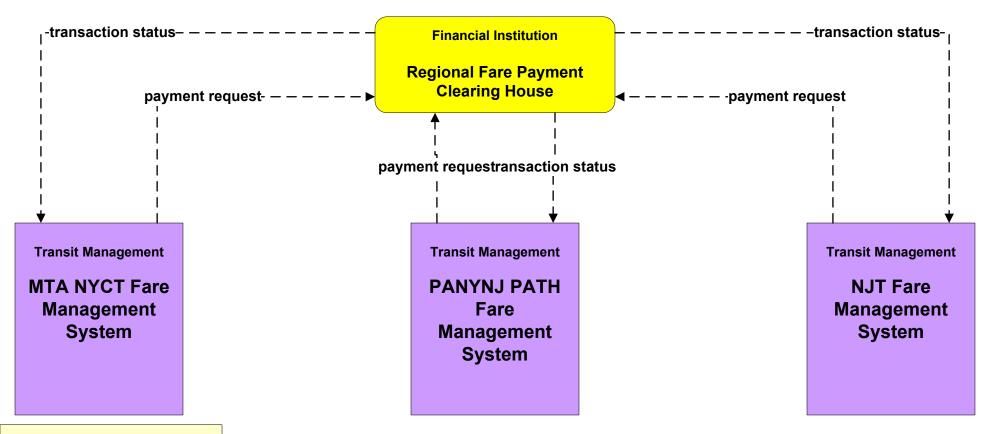
existing flow

user defined flow

APTS4 - Transit Passenger and Fare Payment PANYNJ PATH Fare Administration

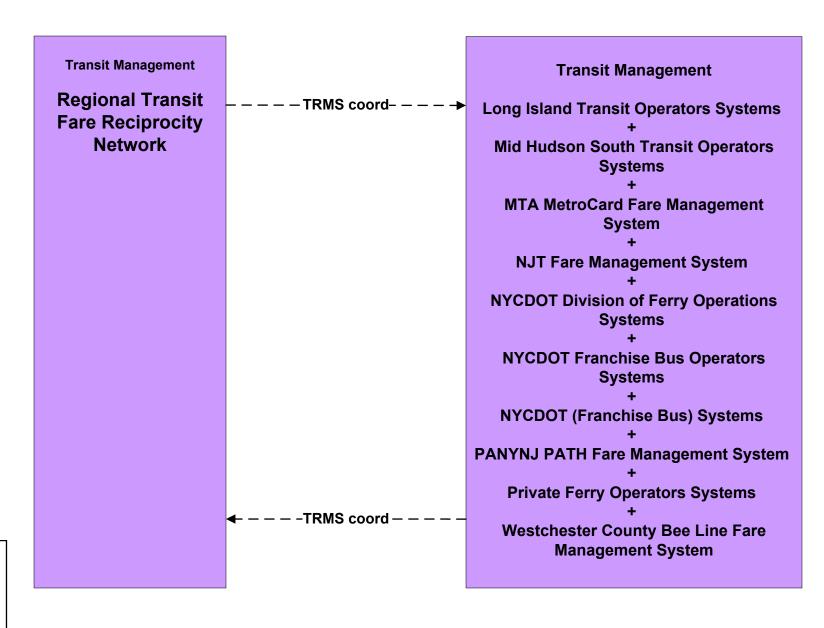


APTS4 - Transit Passenger and Fare Payment PANYNJ PATH Fare Administration



In the future, non transit use of transit fare payment media for parking, travel services, ecommerce.

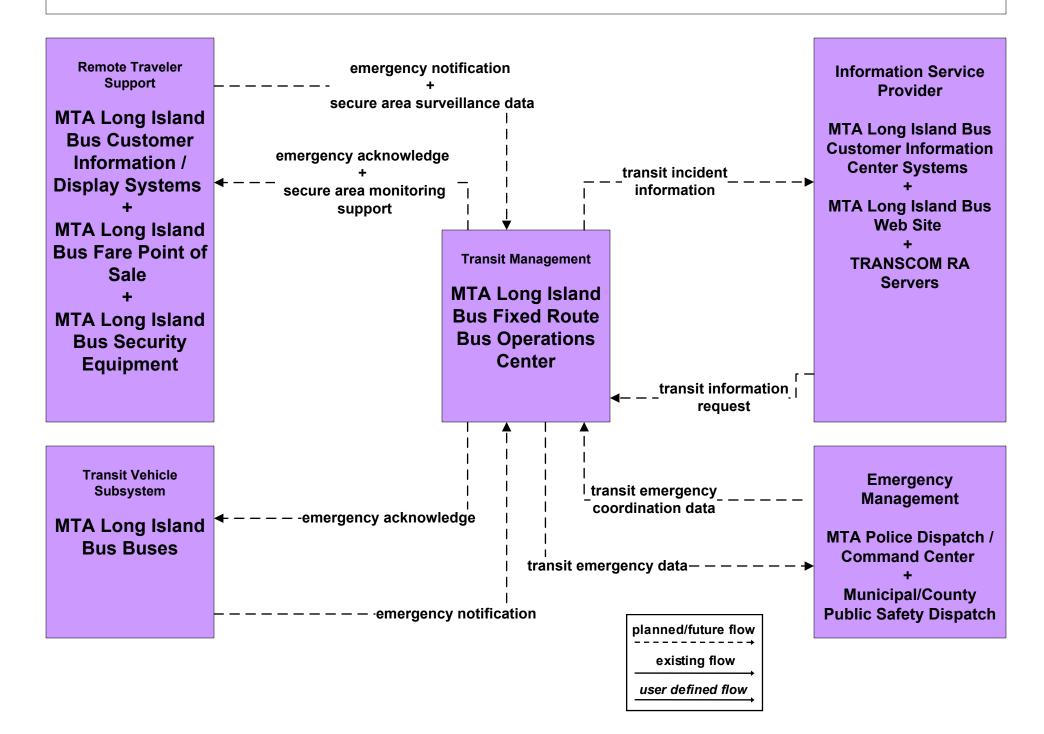
APTS4 - Transit Passenger and Fare Payment Regional Transit Fare Reciprocity Network (FUTURE)



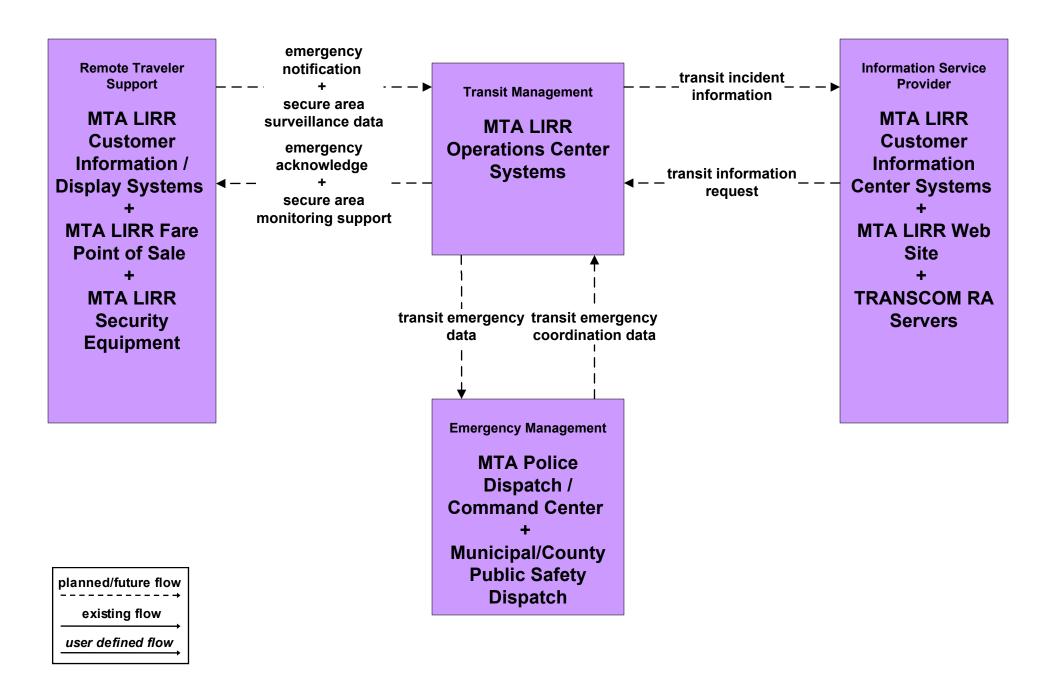
planned/future flow -----→ existing flow

user defined flow

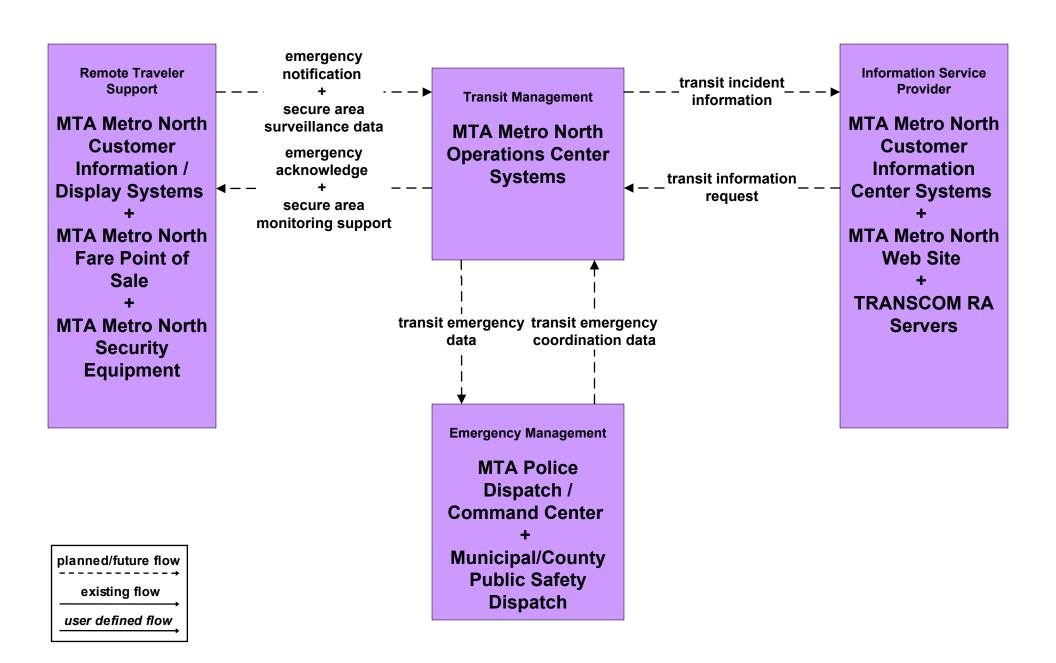
APTS5 - Transit Security MTA Long Island Bus



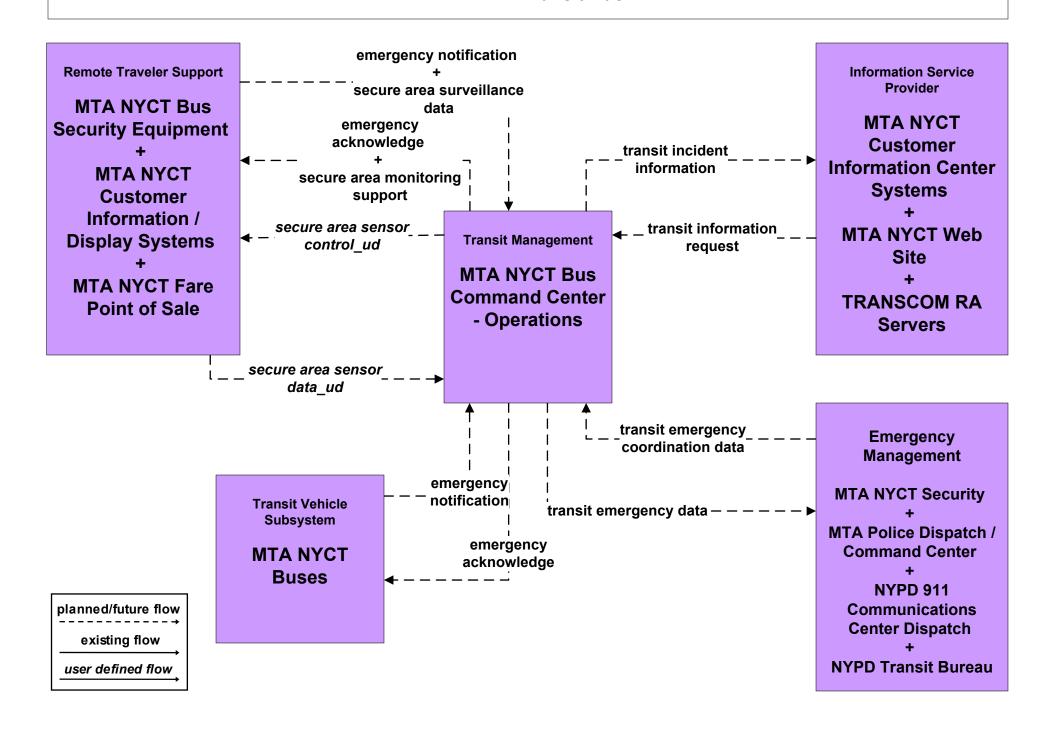
APTS5 - Transit Security MTA Long Island Rail Road



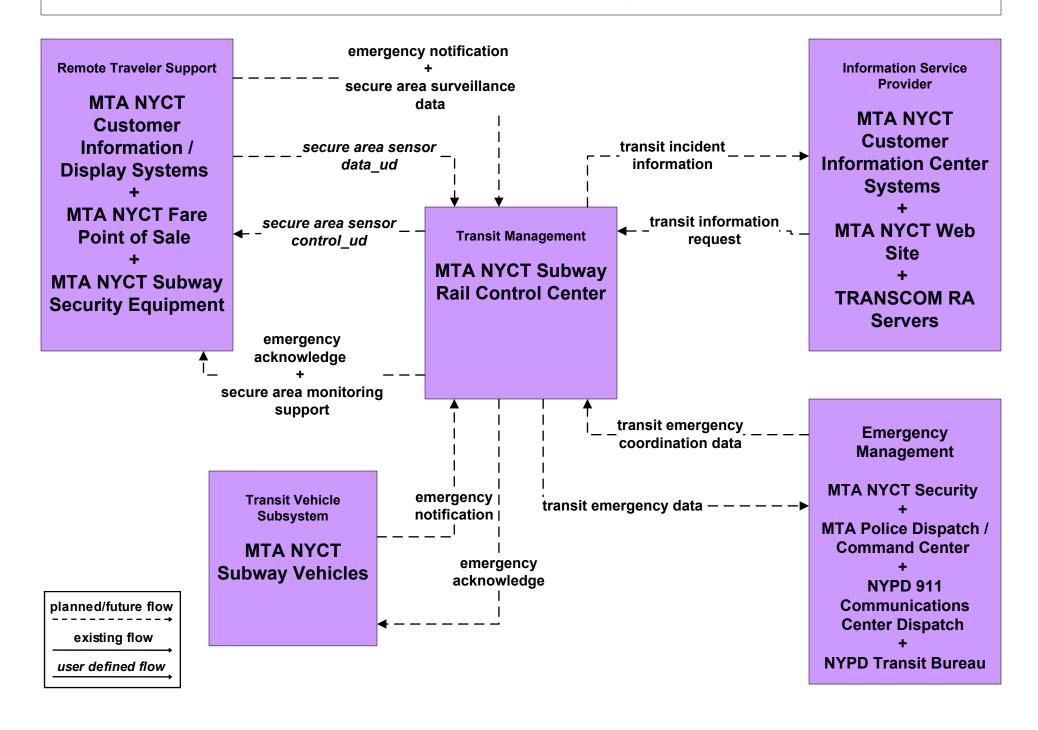
APTS5 - Transit Security MTA Metro North Railroad



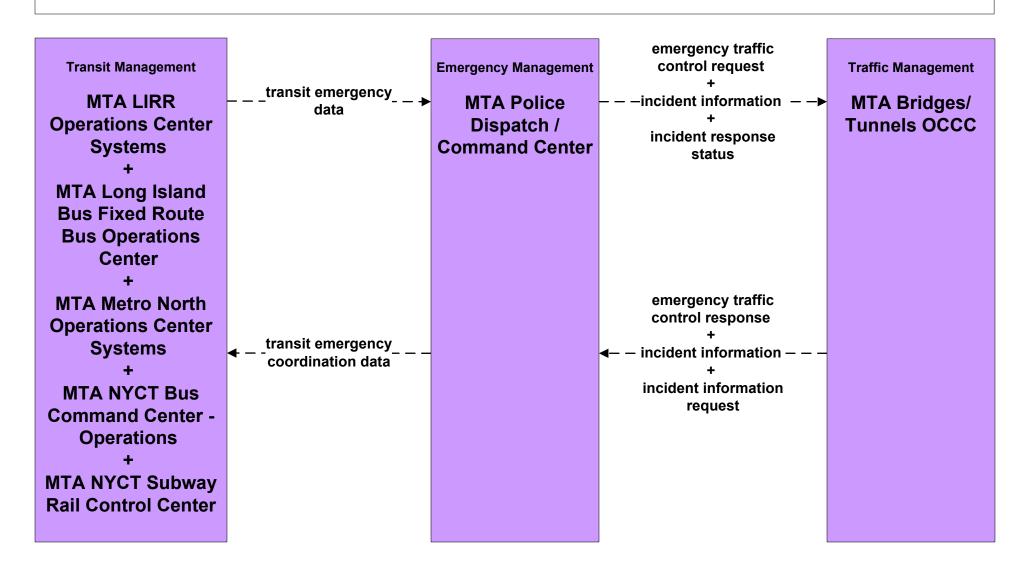
APTS5 - Transit Security MTA NYC Transit Bus

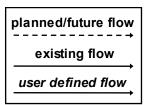


APTS5 - Transit Security MTA NYC Transit Subway

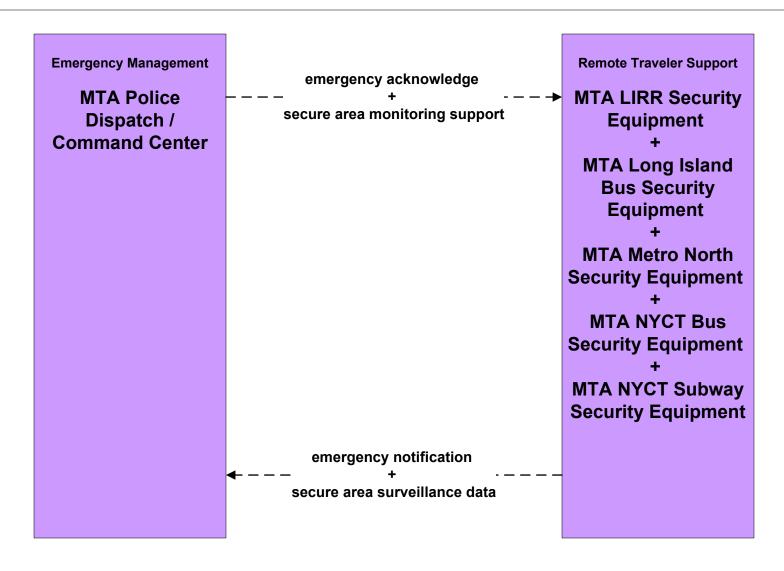


APTS5 - Transit Security MTA Police Dispatch / Command Center to Other MTA Command/Control Centers (1 of 3)

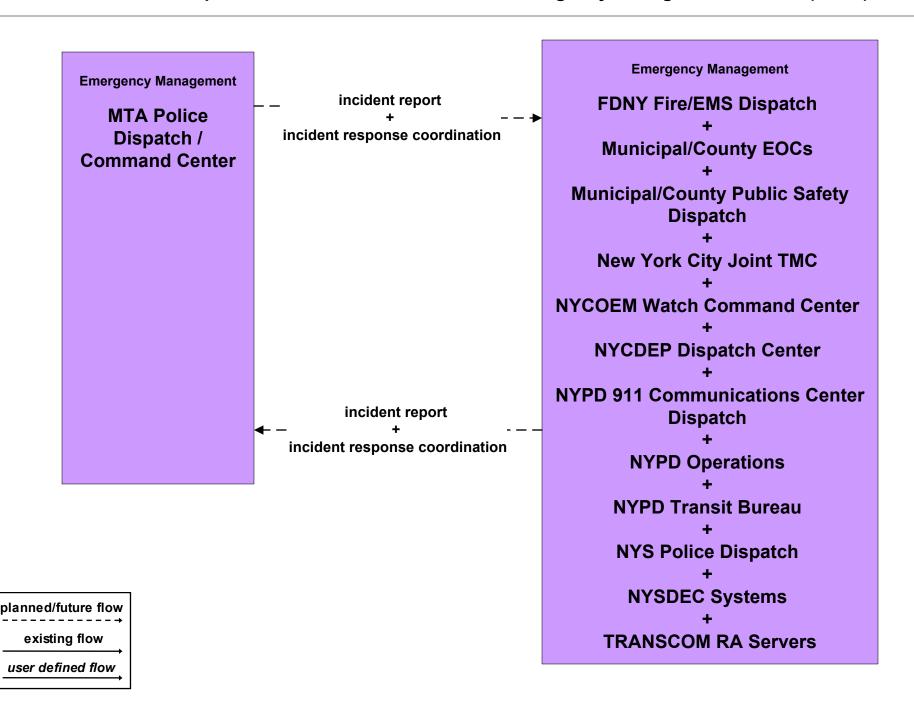




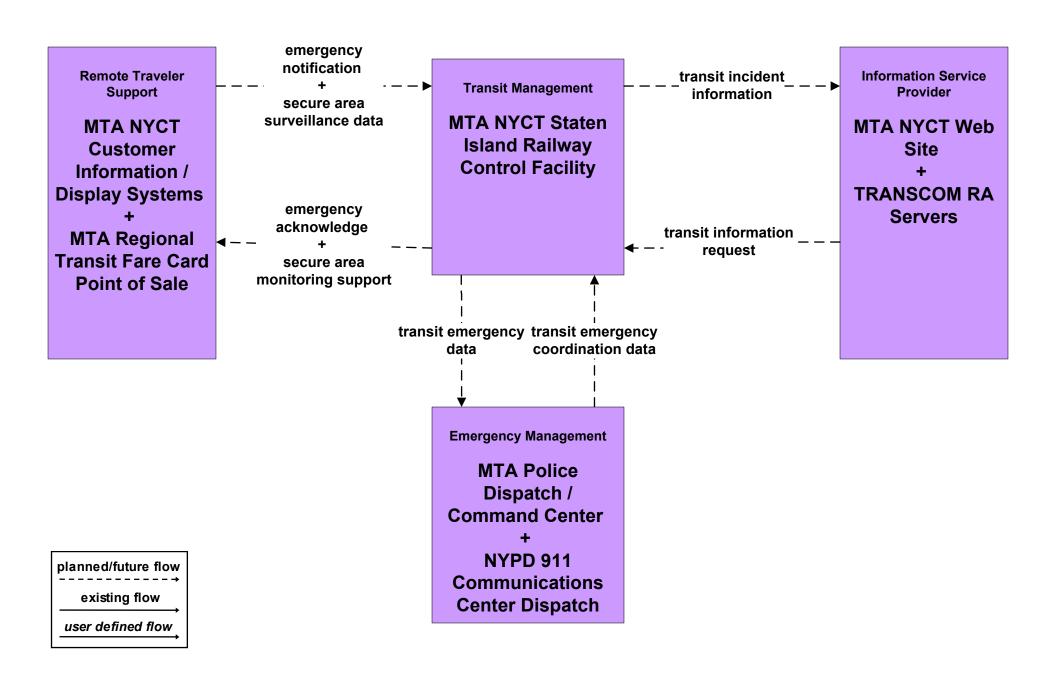
APTS5 - Transit Security MTA Police Dispatch / Command Center - Security Equipment (2 of 3)



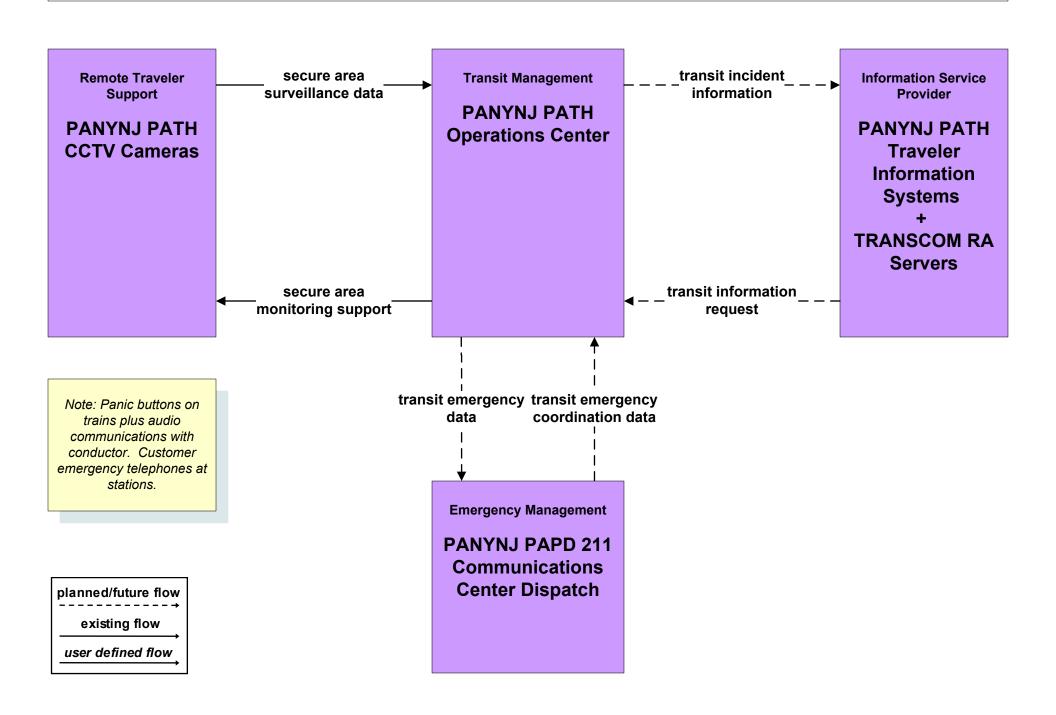
APTS5 - Transit Security MTA Police Dispatch / Command Center to Other Emergency Management Centers (3 of 3)



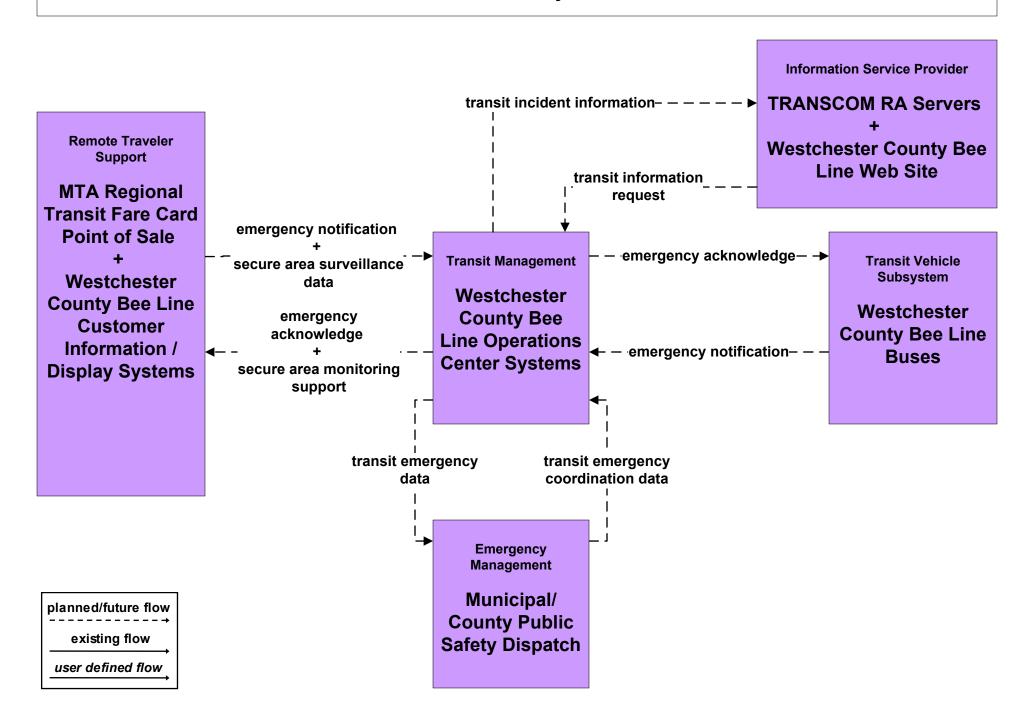
APTS5 - Transit Security MTA NYCT Staten Island Railway



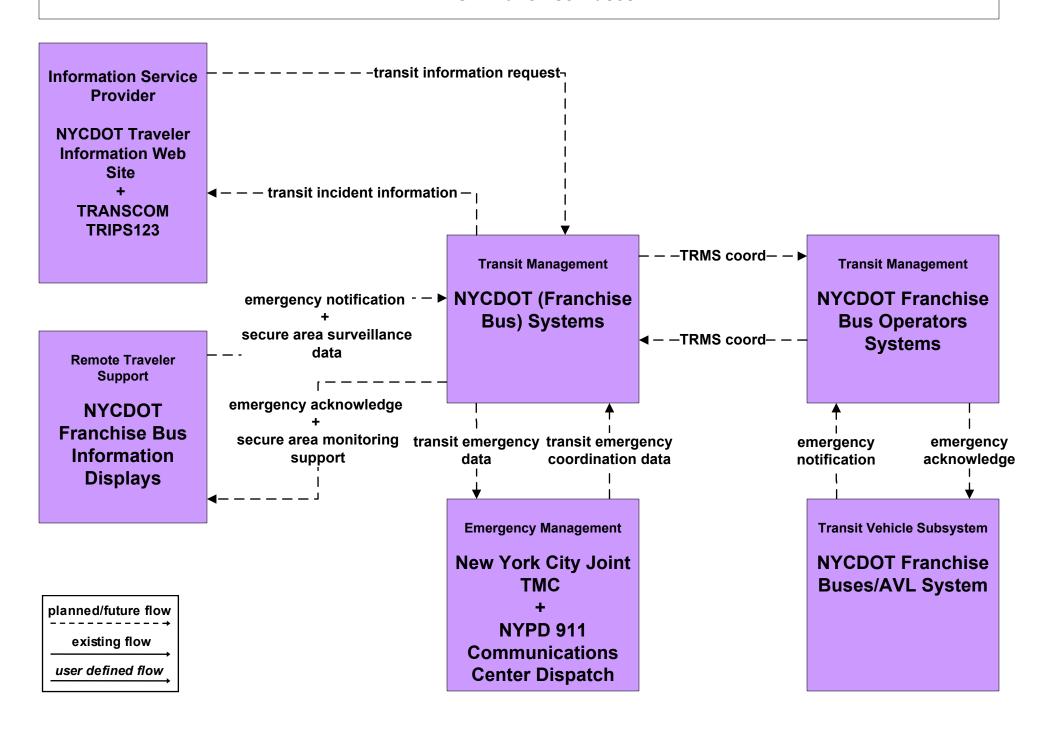
APTS5 - Transit Security PANYNJ PATH



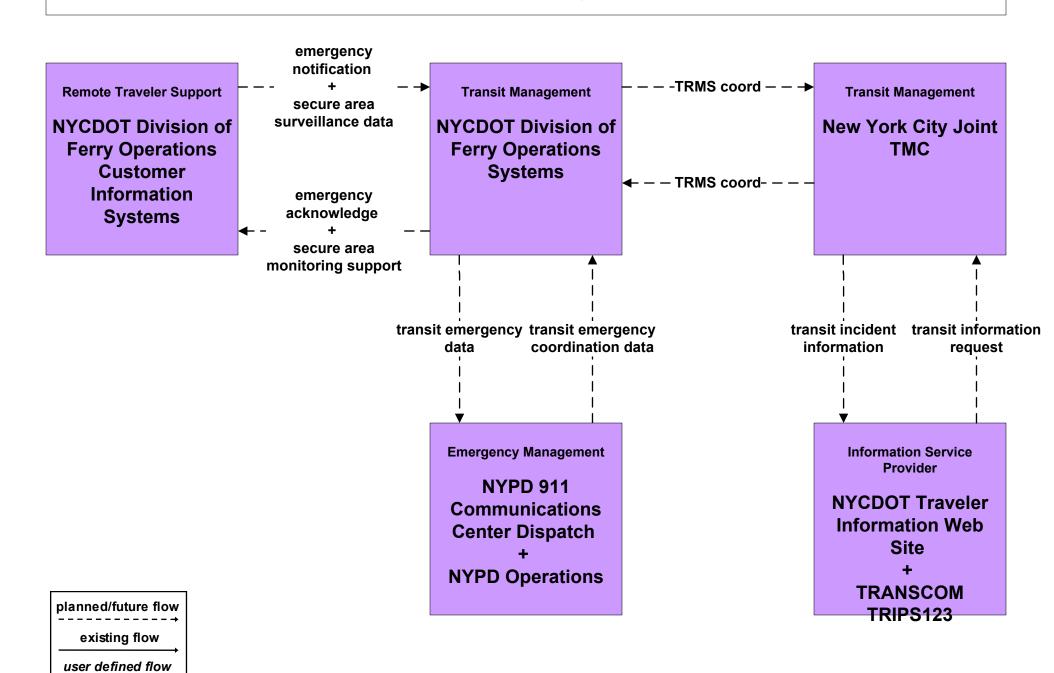
APTS5 - Transit Security Westchester County Bee Line



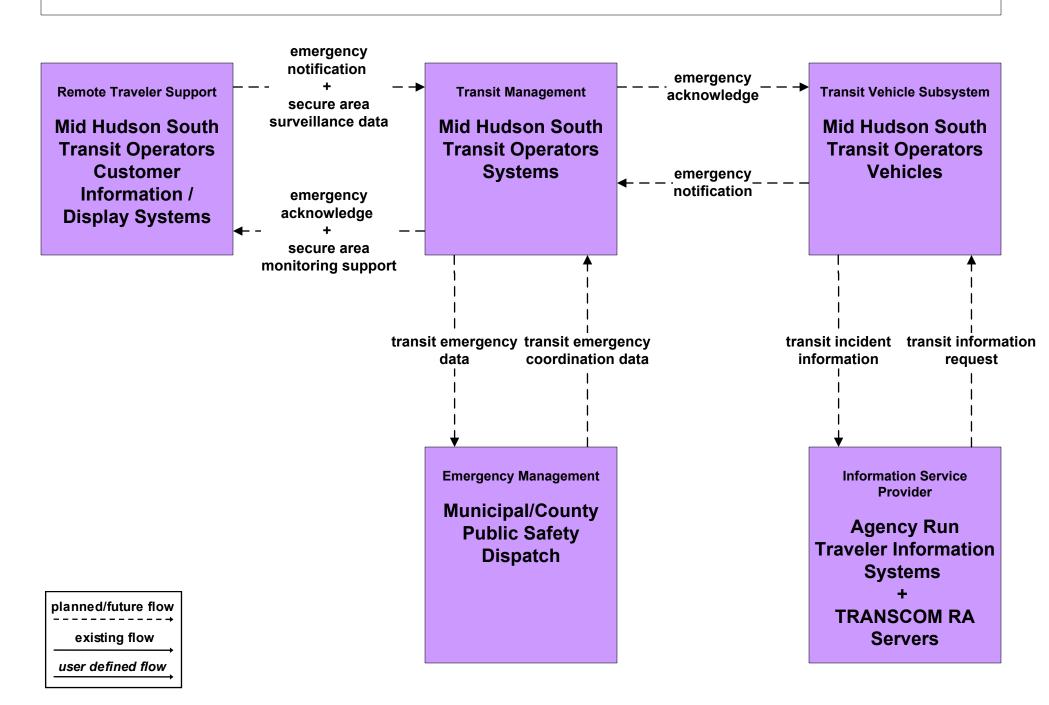
APTS5 - Transit Security NYCDOT Franchise Buses



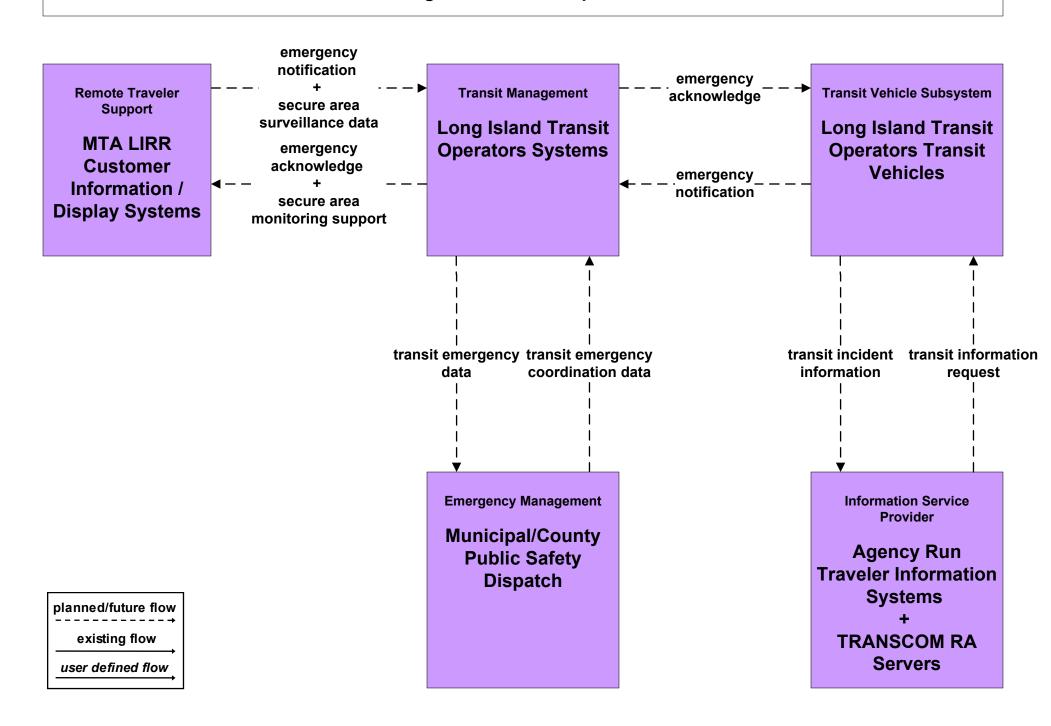
APTS5 - Transit Security NYCDOT Division of Ferry Operations



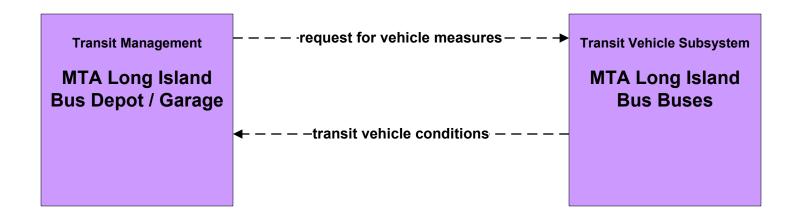
APTS5 - Transit Security Mid Hudson South Transit Operators



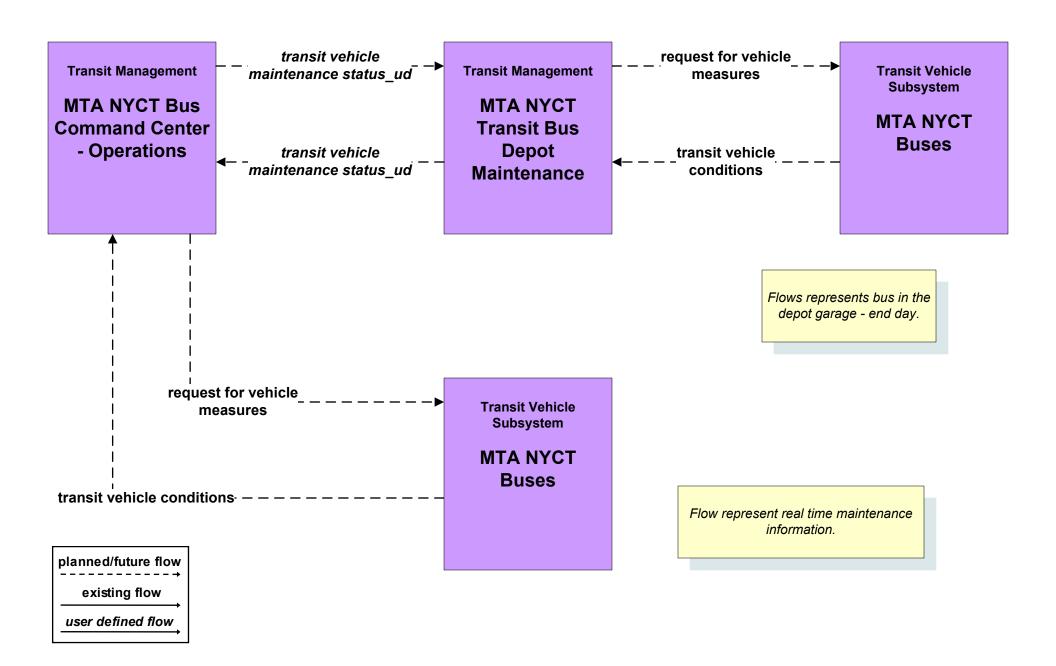
APTS5 - Transit Security Long Island Transit Operators



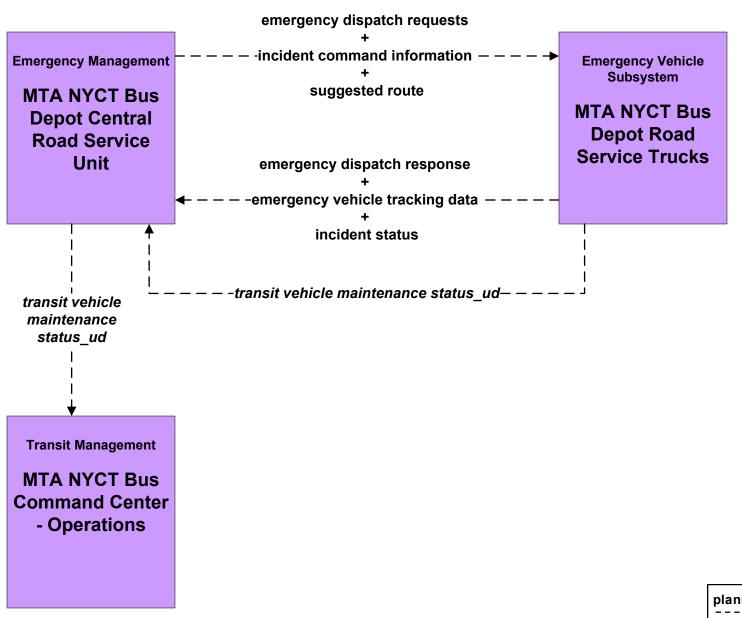
APTS6 - Transit Vehicle Maintenance MTA Long Island Bus



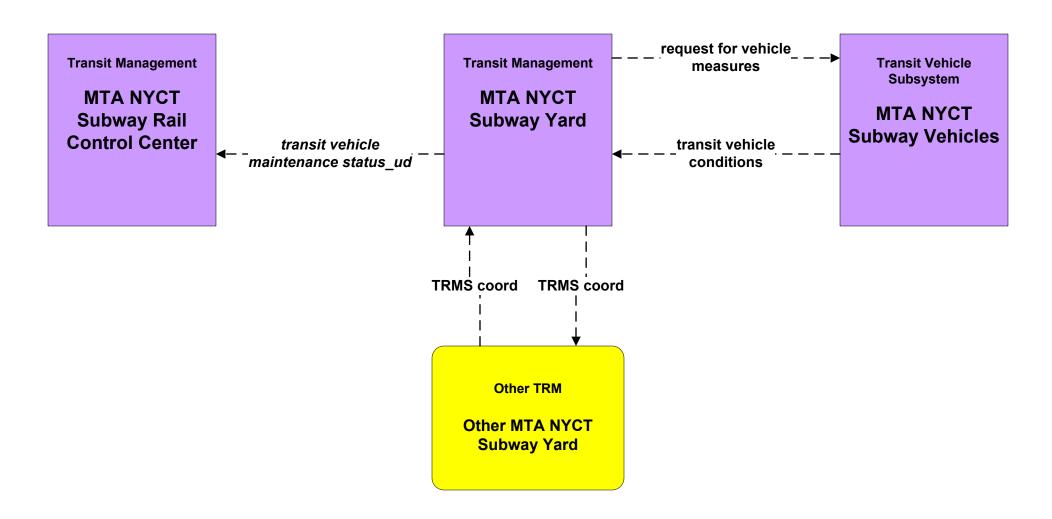
APTS6 - Transit Vehicle Maintenance MTA NYC Transit Bus



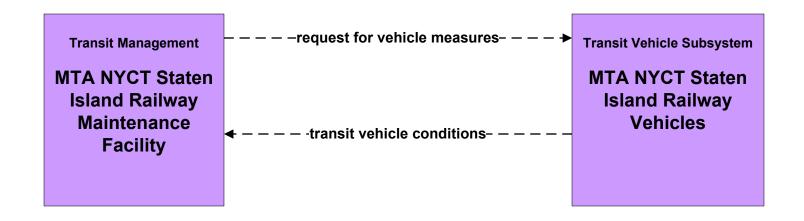
APTS6 - Transit Vehicle Maintenance MTA NYC Bus Depot Central Road Service



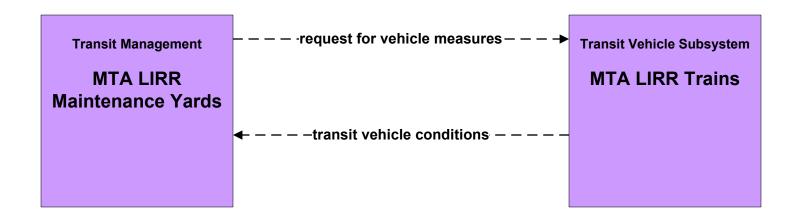
APTS6 - Transit Vehicle Maintenance MTA NYC Transit Subway



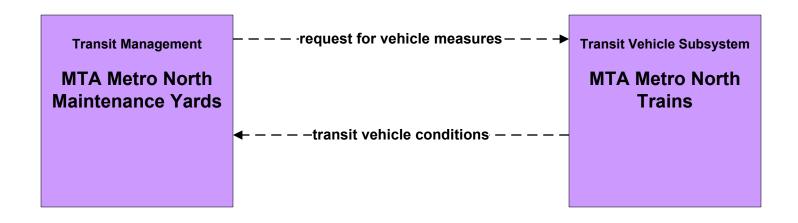
APTS6 - Transit Vehicle Maintenance MTA NYCT Staten Island Railway



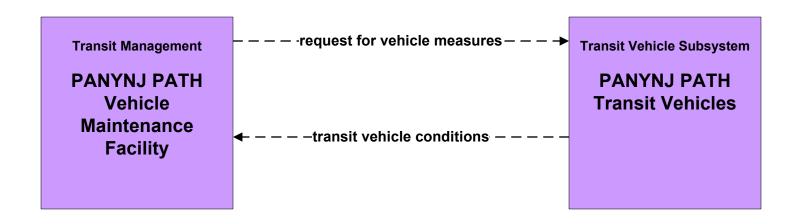
APTS6 - Transit Vehicle Maintenance MTA Long Island Rail Road



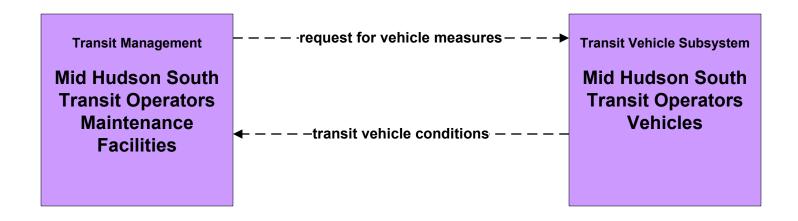
APTS6 - Transit Vehicle Maintenance MTA Metro North Railroad



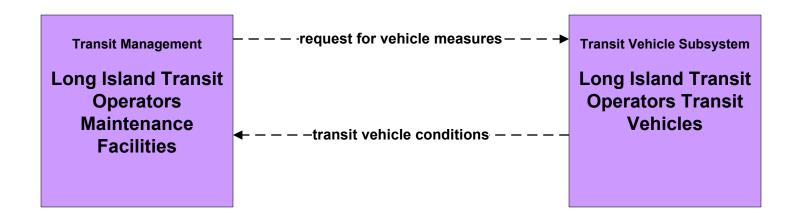
APTS6 - Transit Vehicle Maintenance PANYNJ PATH



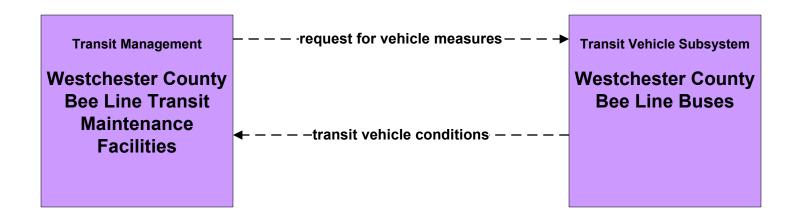
APTS6 - Transit Vehicle Maintenance Mid Hudson South Transit Operators



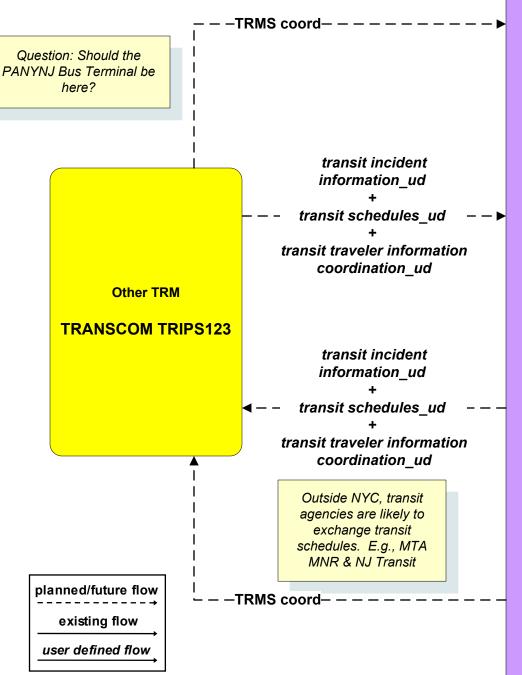
APTS6 - Transit Vehicle Maintenance Long Island Transit Operators



APTS6 - Transit Vehicle Maintenance Westchester County Bee Line



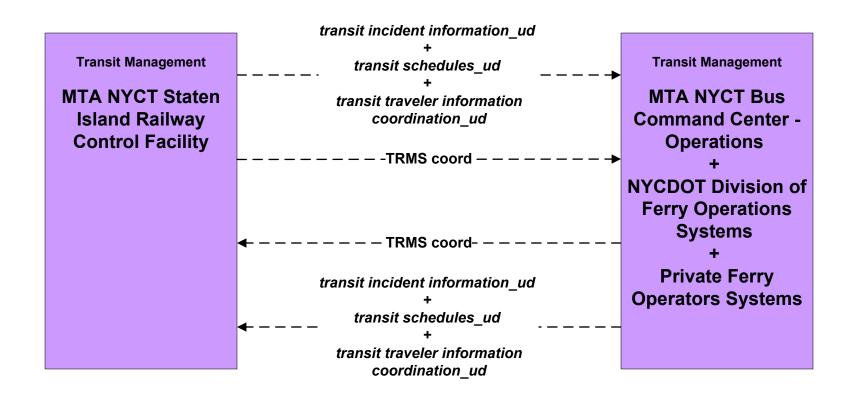
APTS7 - Multimodal Coordination Regional Transit Information Exchange



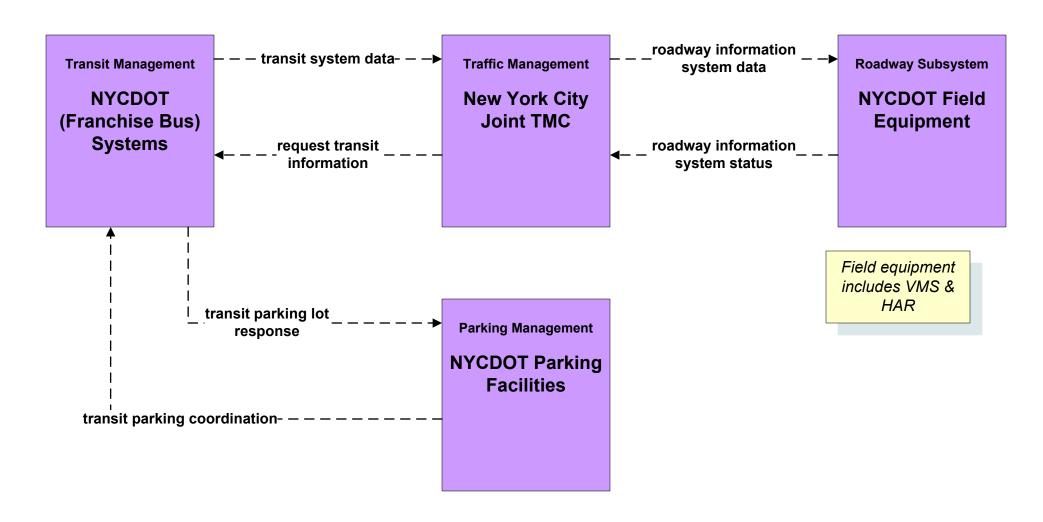
Transit Management

AMTRAK Operations Center Long Island Transit Operators Systems Mid Hudson South Transit Operators Systems MTA LIRR Operations Center Systems MTA Long Island Bus Fixed Route Bus Operations Center **MTA Metro North Operations Center Systems MTA NYCT Bus Command Center - Operations** MTA NYCT Staten Island Railway Control Facility **MTA NYCT Subway Rail Control Center NJT Bus Operations Systems NJT Rail Operations Systems NYCDOT (Franchise Bus) Systems** PANYNJ TB/T Bus Terminals/Stations Communications Desk/ **Operations Center PANYNJ PATH Operations Center Private Ferry Operators Systems Private Long-Distance Bus Operators Systems TRANSCOM Other Member / Non-Member Agencies Systems Westchester County Bee Line Operations Center Systems**

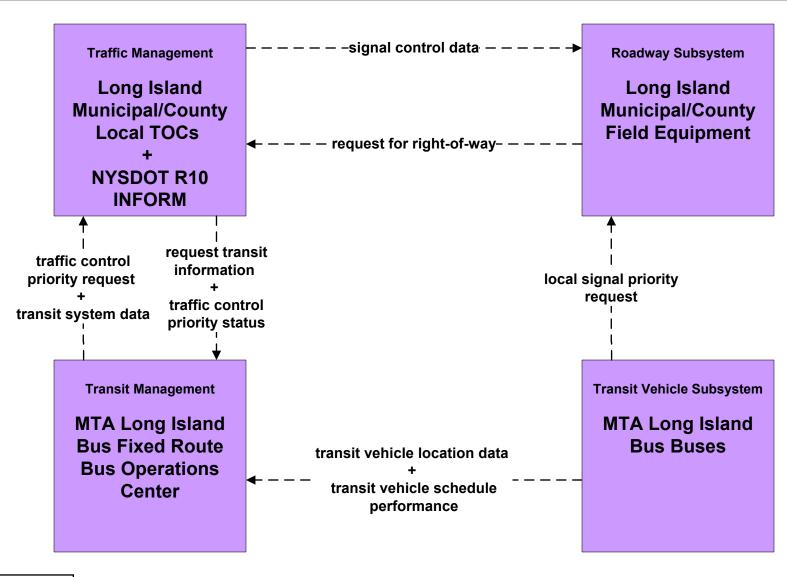
APTS7 - Multimodal Coordination Regional Transit Information Exchange MTA NYCT Staten Island Railway



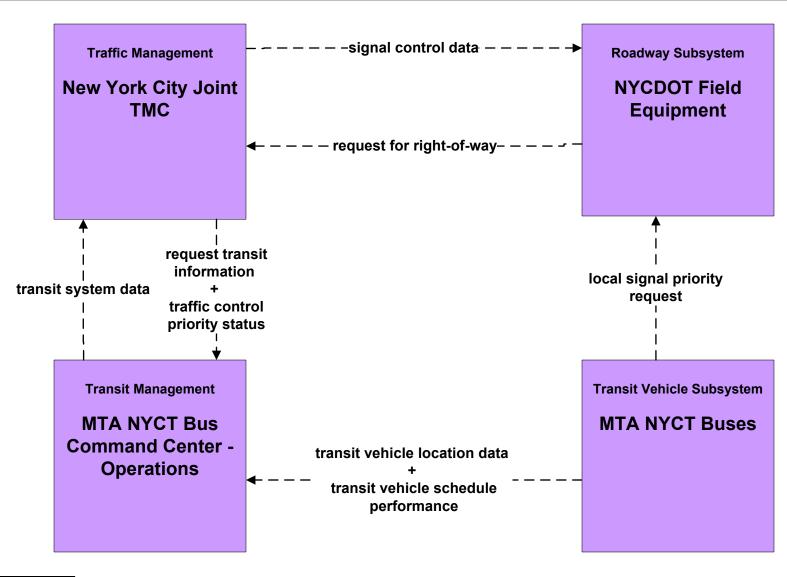
APTS7 - Multimodal Coordination Regional Transit Information Exchange NYCDOT Franchise Buses



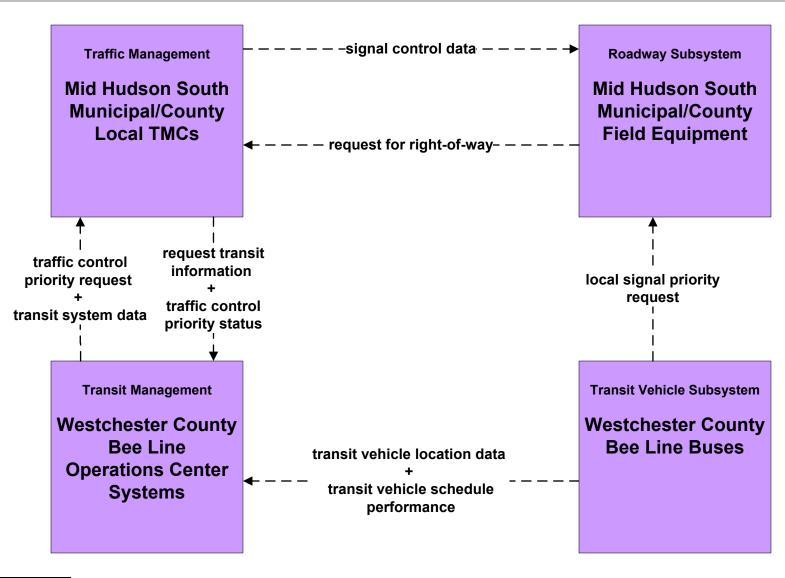
APTS7 - Multimodal Coordination MTA Long Island Bus



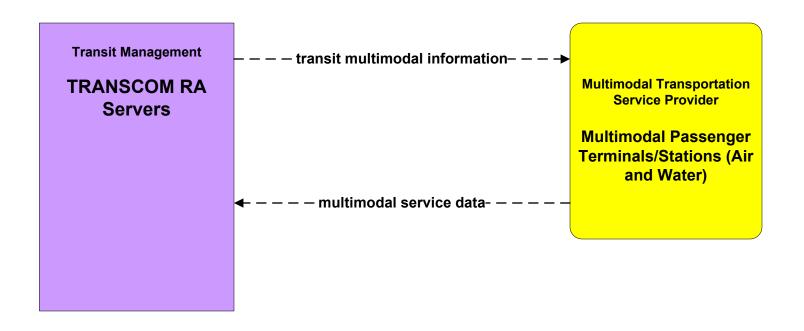
APTS7 - Multimodal Coordination MTA NYC Transit Buses



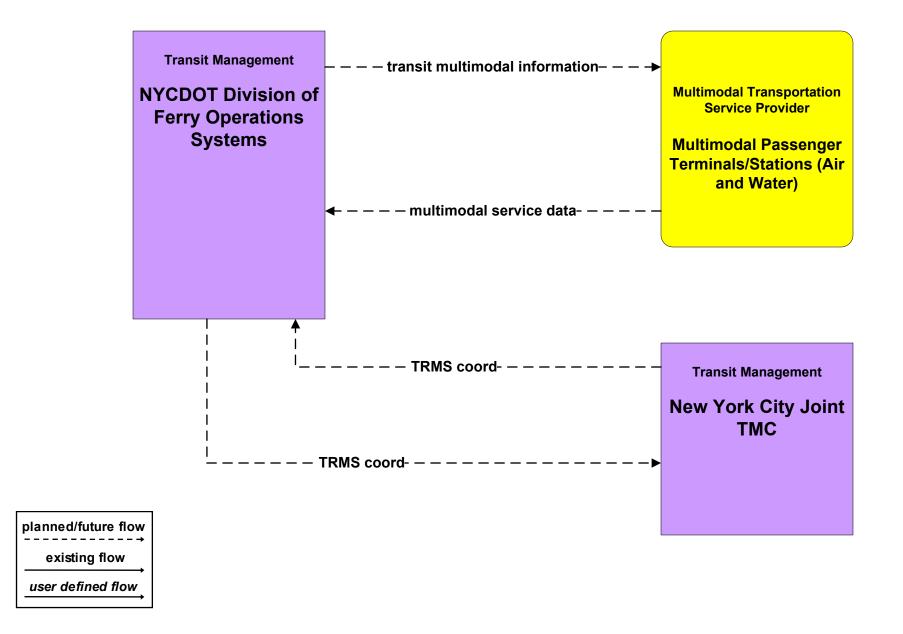
APTS7 - Multimodal Coordination Westchester County Bee Line Buses



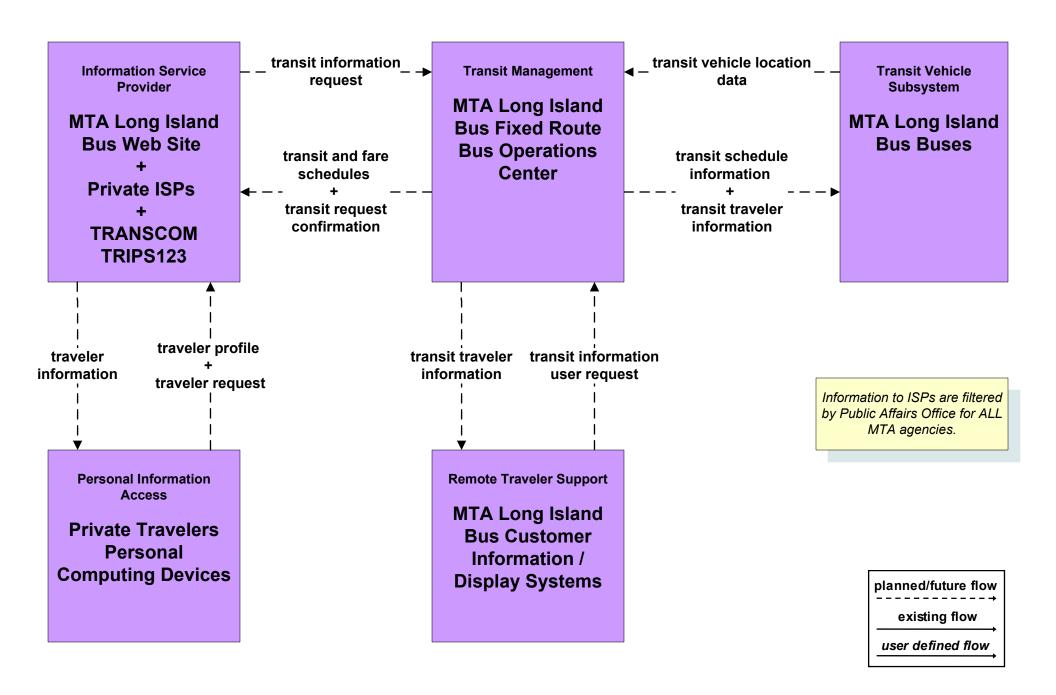
APTS7 - Multimodal Coordination TRANSCOM



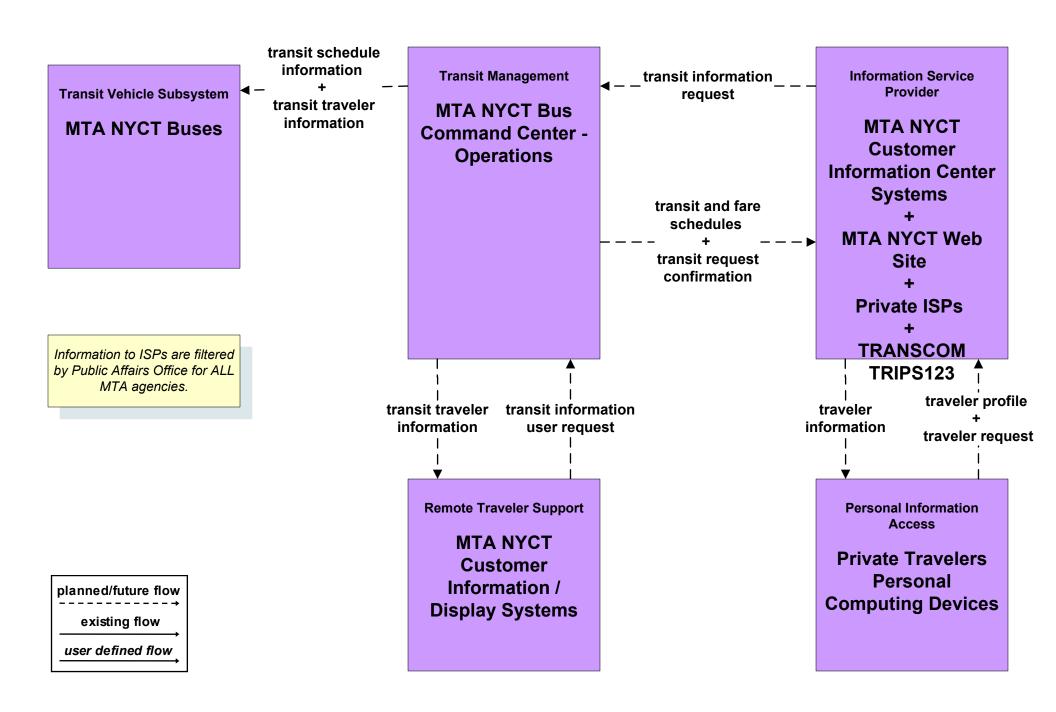
APTS7 - Multimodal Coordination NYCDOT Division of Ferry Operations



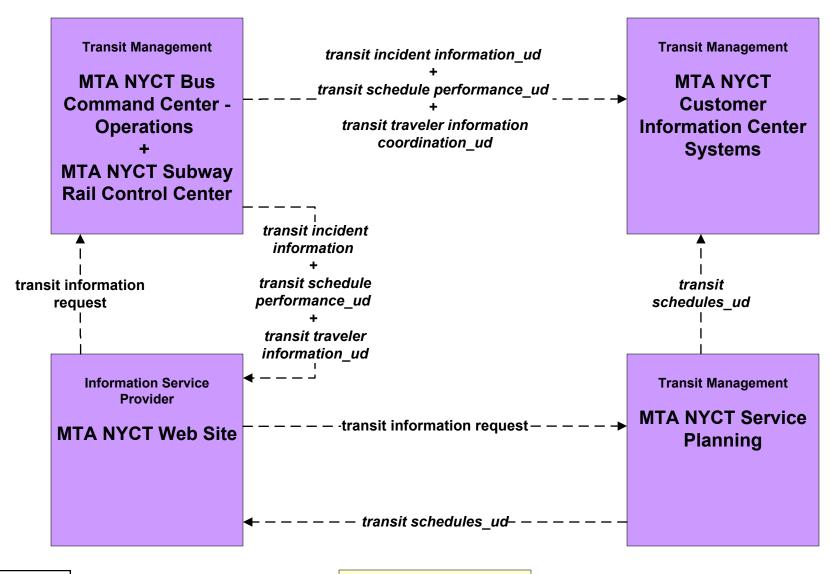
APTS8 - Transit Traveler Information MTA Long Island Bus



APTS8 - Transit Traveler Information MTA NYC Transit Bus (1 of 2)



APTS8 - Transit Traveler Information MTA NYC Transit Bus (2 of 2)

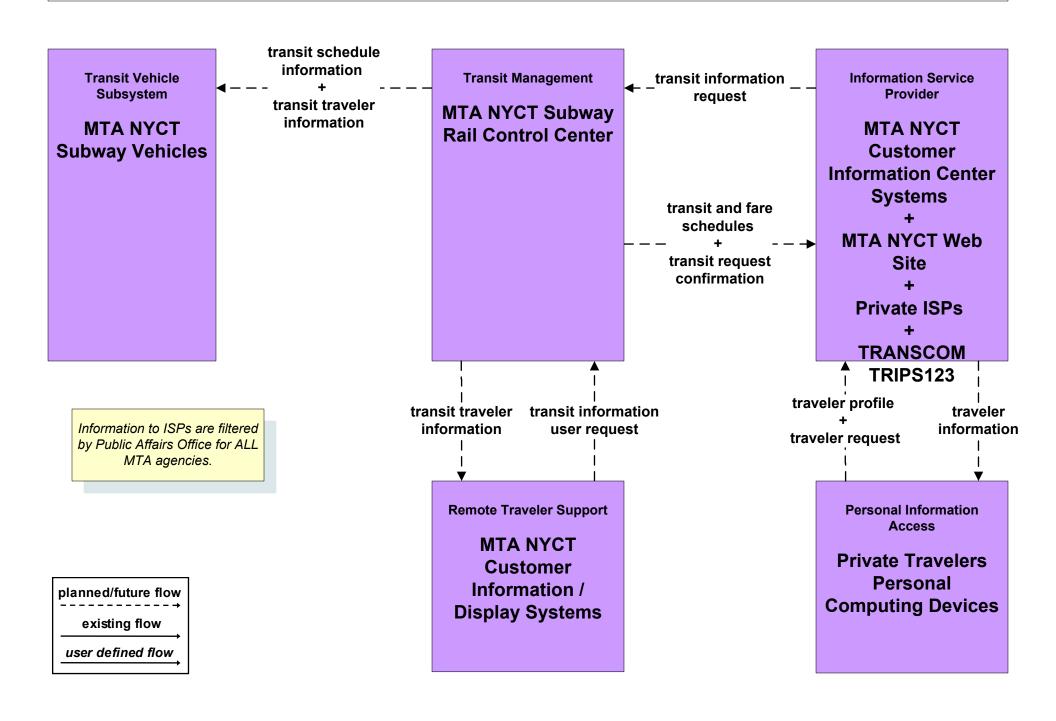


planned/future flow
----existing flow

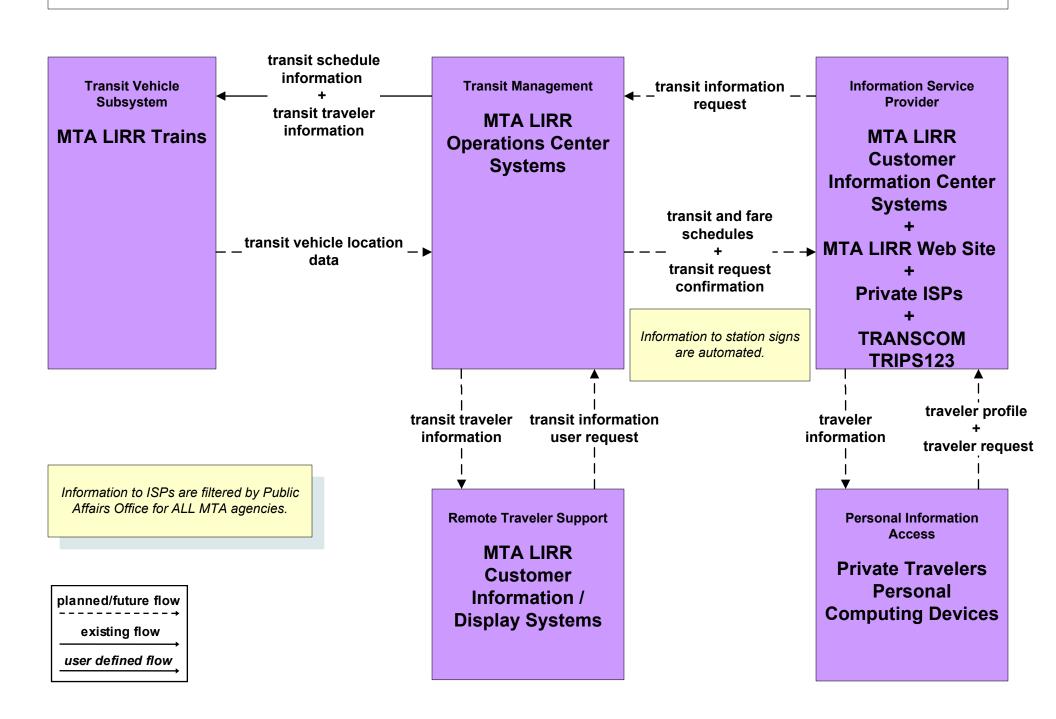
user defined flow

Information to ISPs are filtered by Public Affairs Office for ALL MTA agencies.

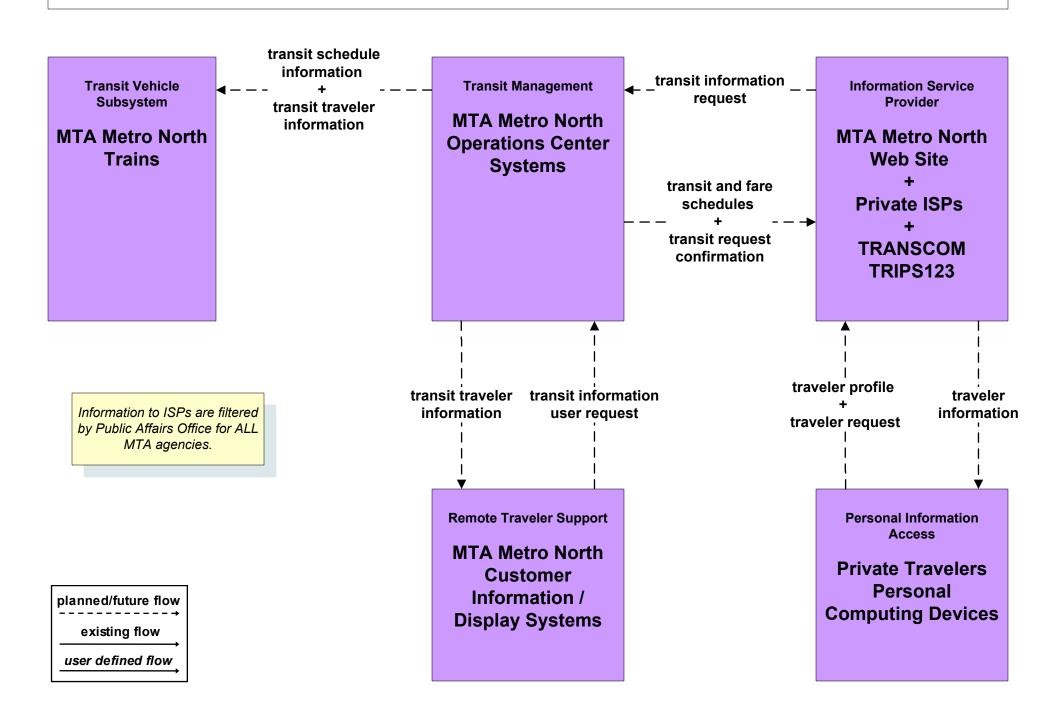
APTS8 - Transit Traveler Information MTA NYC Transit Subway



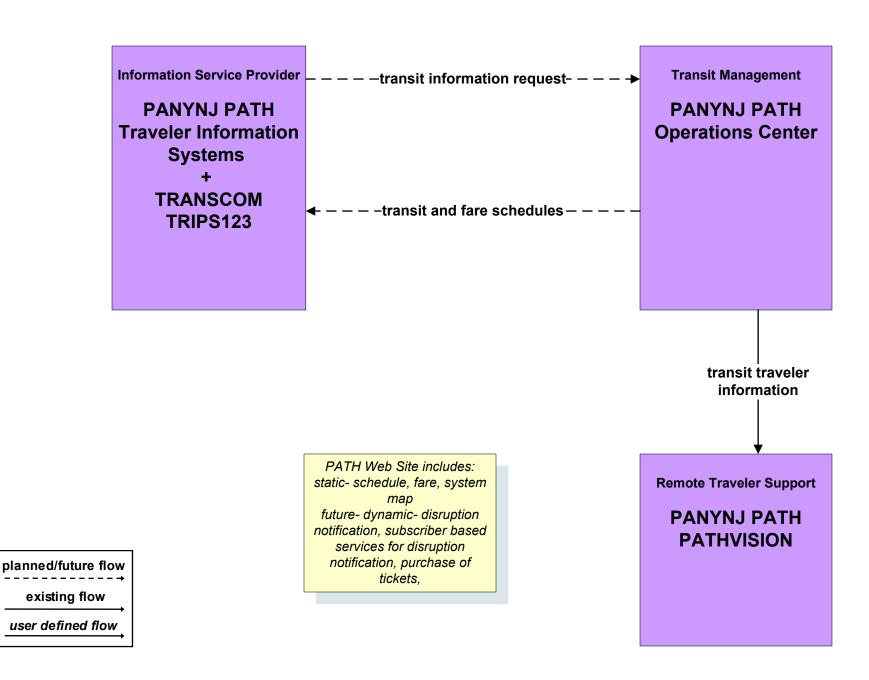
APTS8 - Transit Traveler Information MTA Long Island Rail Road



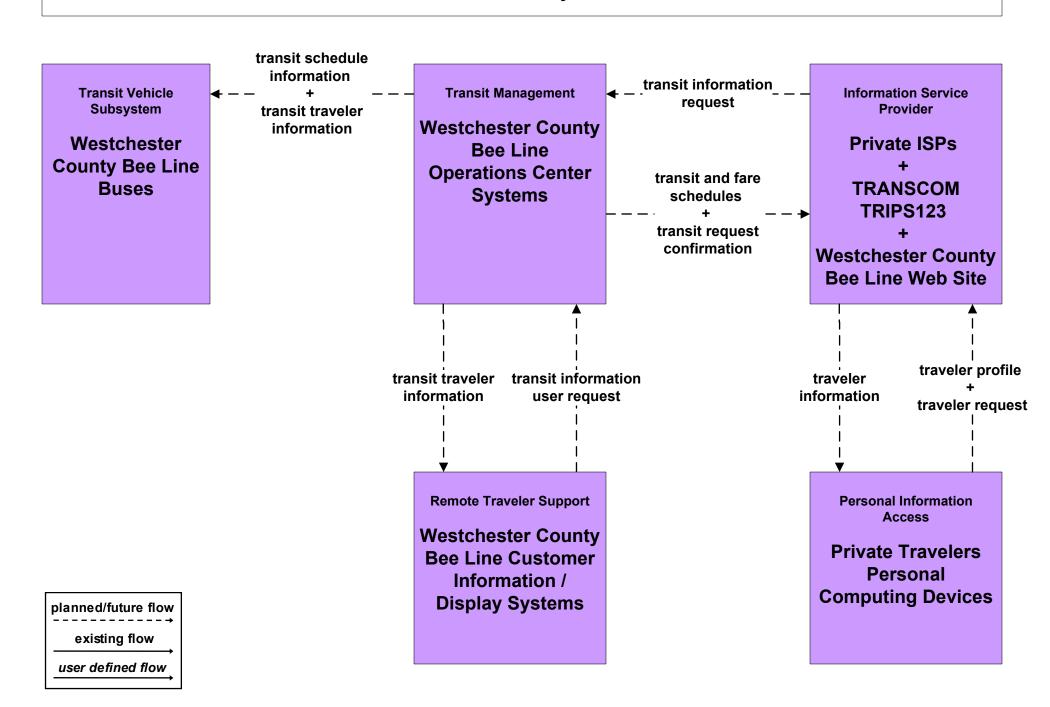
APTS8 - Transit Traveler Information MTA Metro North Railroad



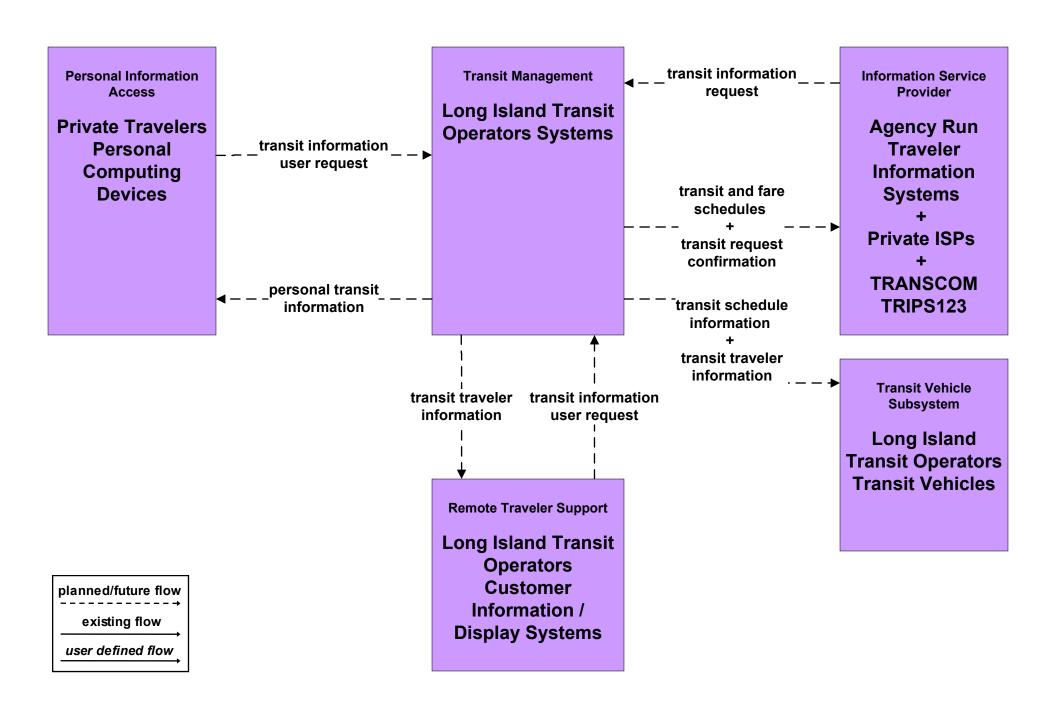
APTS8 - Transit Traveler Information PANYNJ PATH Terminals/Stations



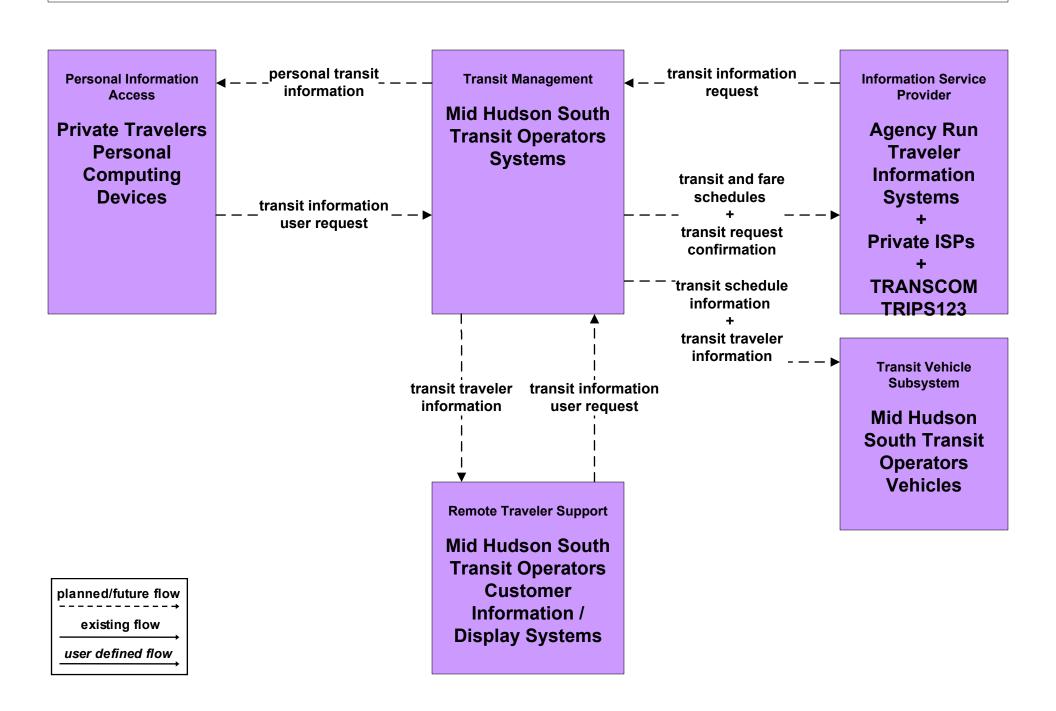
APTS8 - Transit Traveler Information Westchester County Bee Line



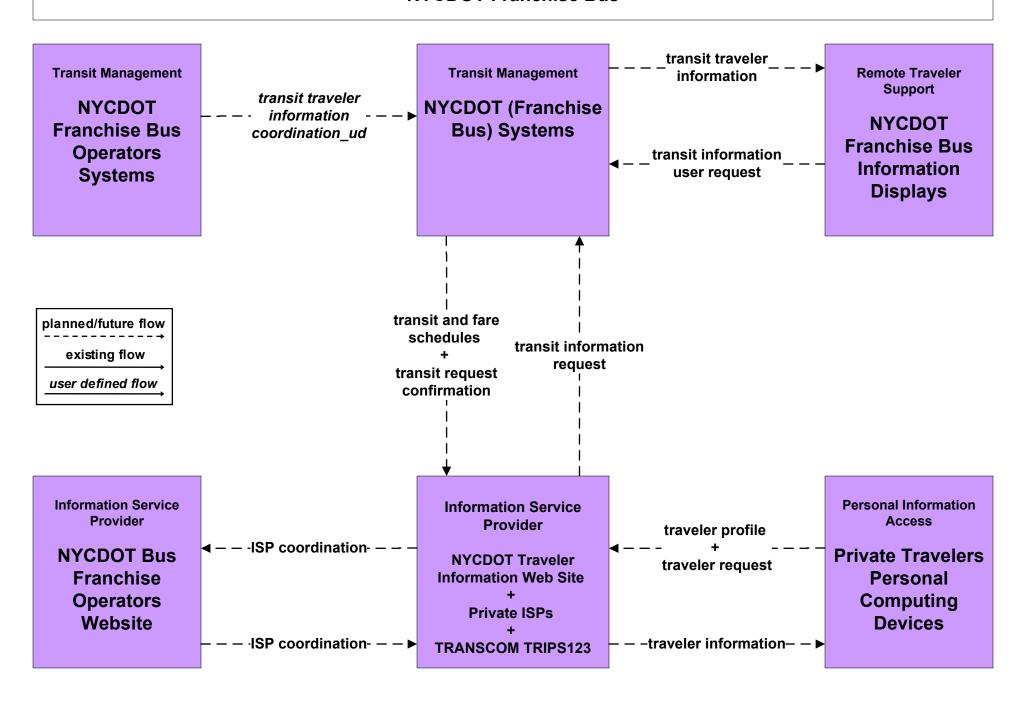
APTS8 - Transit Traveler Information Long Island Transit Operators



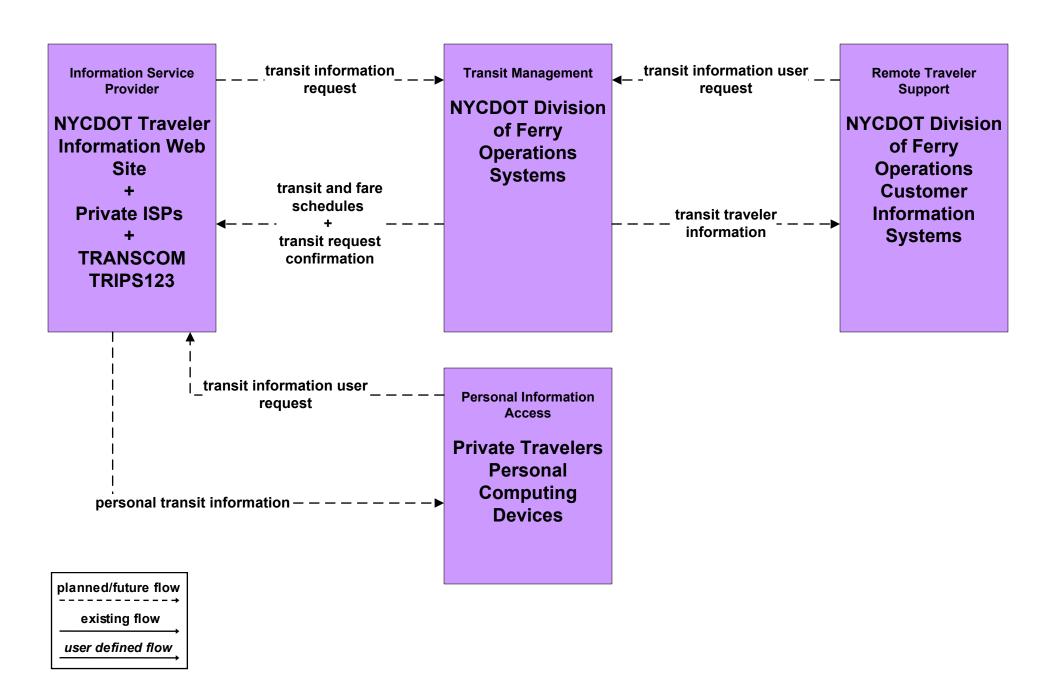
APTS8 - Transit Traveler Information Mid Hudson South Transit Operators



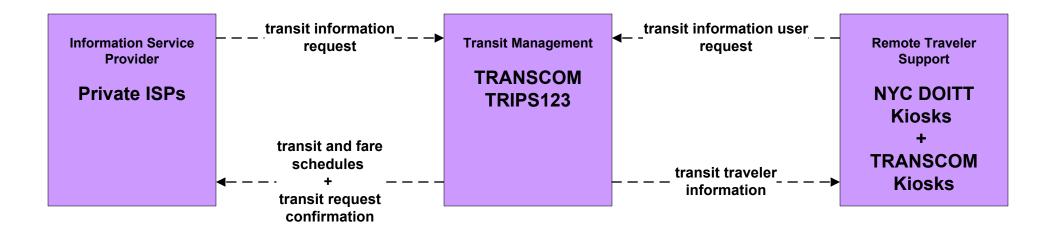
APTS8 - Transit Traveler Information NYCDOT Franchise Bus



APTS8 - Transit Traveler Information NYCDOT Ferries and Licensed Ferries



APTS8 - Transit Traveler Information TRANSCOM



existing flow

user defined flow

APTS8 - Transit Traveler Information Pennsylvania Station

