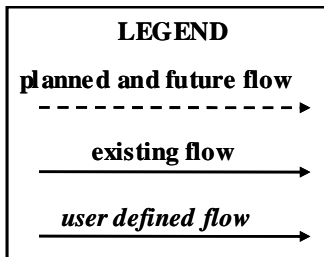
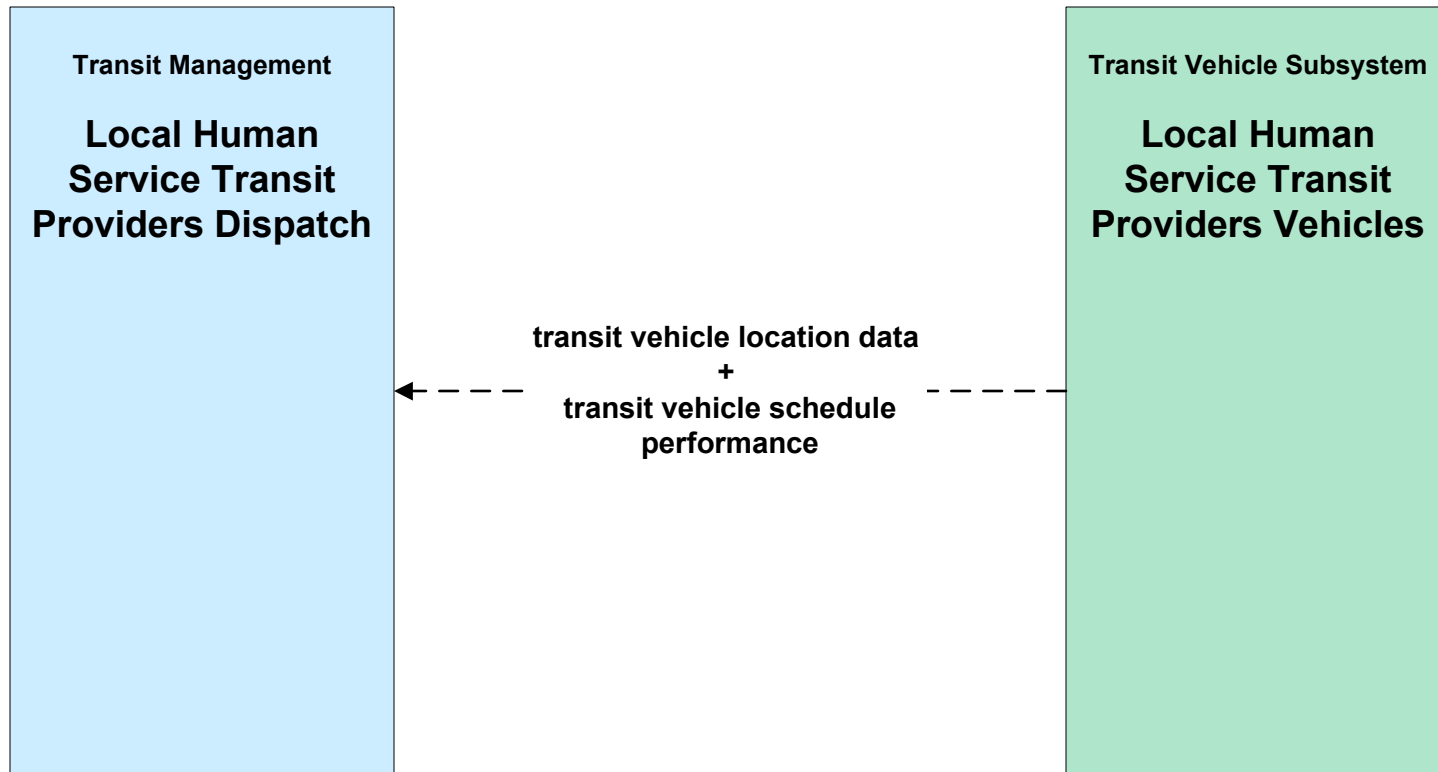


# **Metropolitan Boston Regional ITS Architecture**

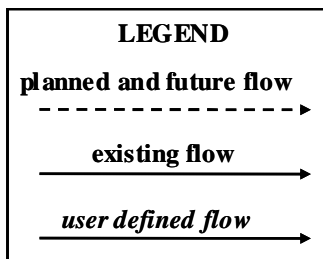
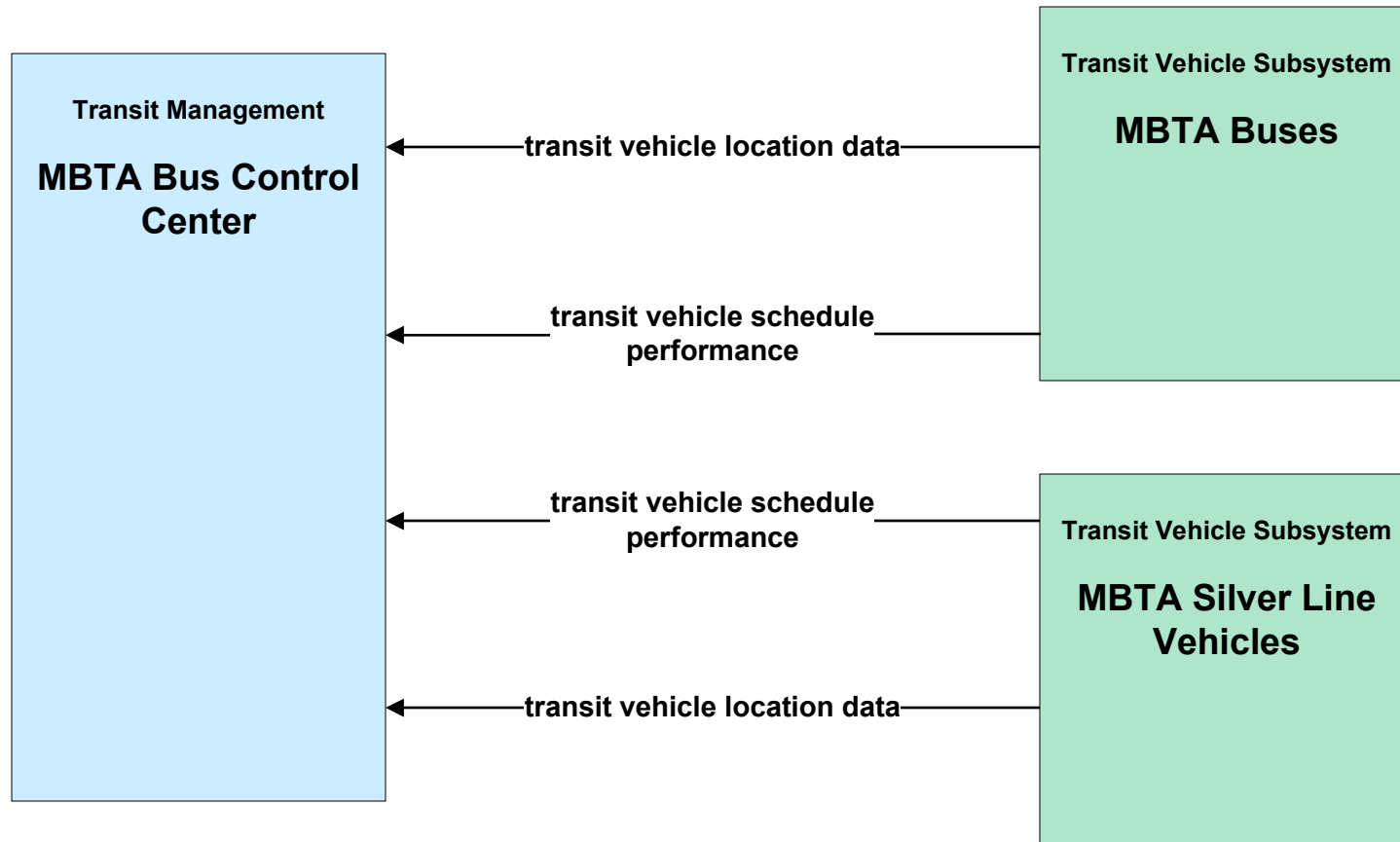
## **Customized Market Package Diagrams**

### **Advanced Public Transportation Systems (APTS)**

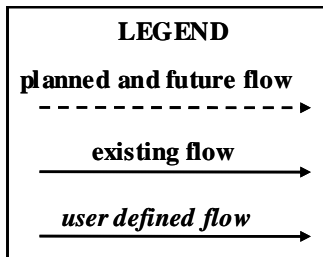
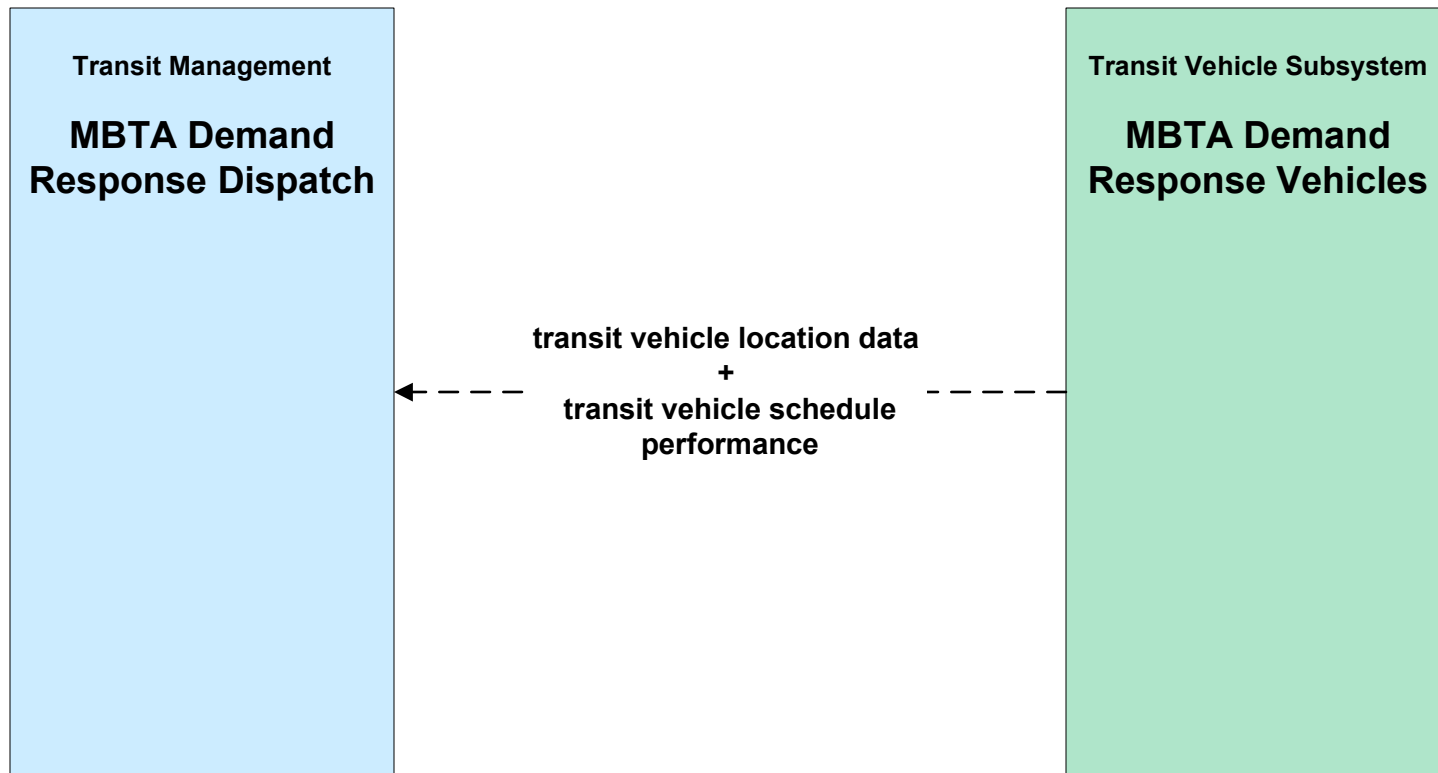
**APTS01 - Transit Vehicle Tracking  
Local Human Service Transit**



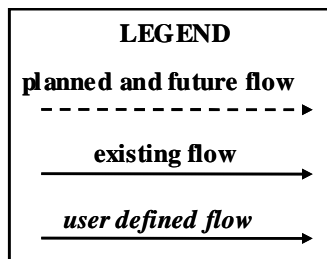
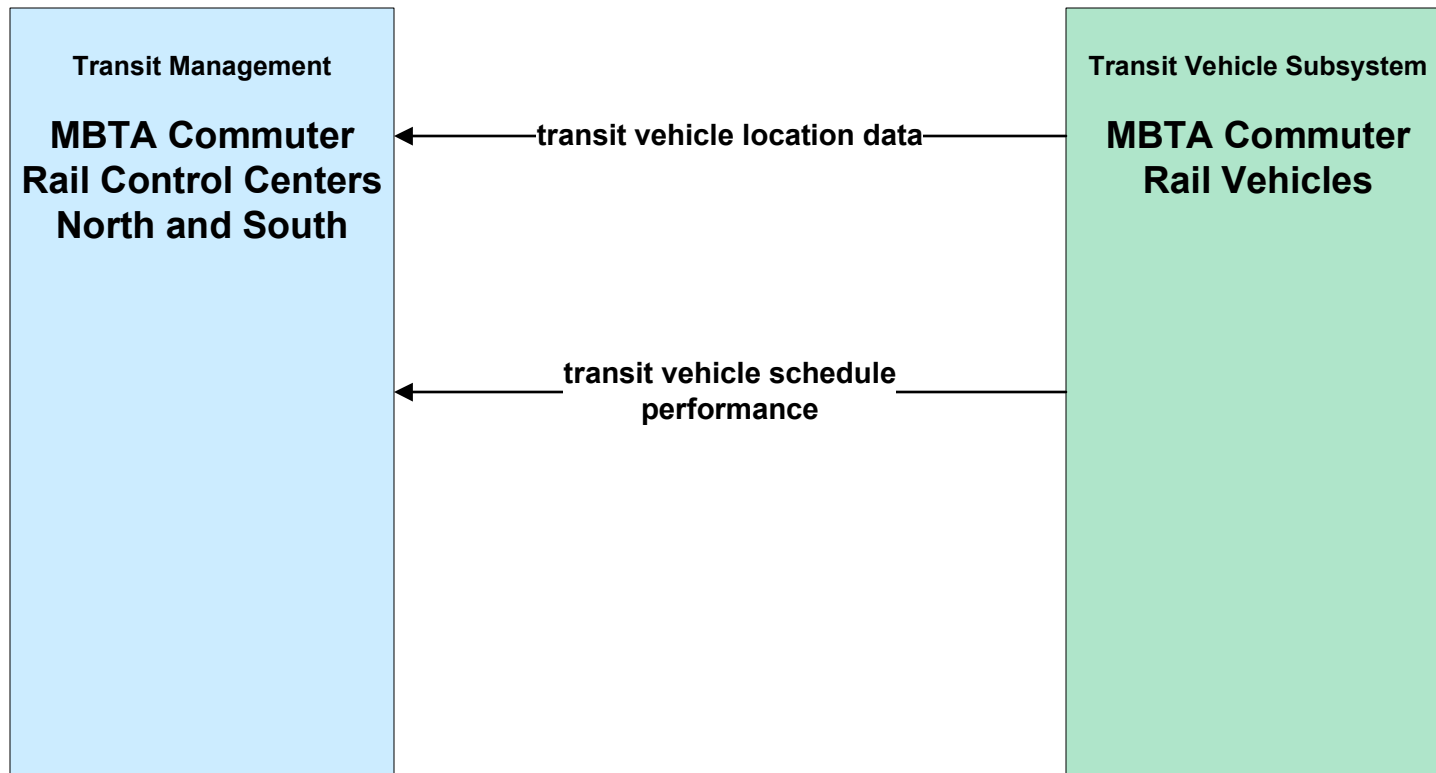
**APTS01 - Transit Vehicle Tracking  
MBTA Bus**



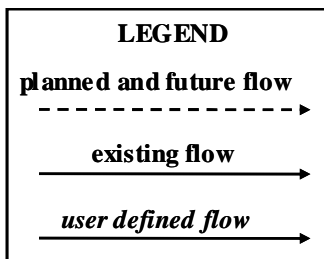
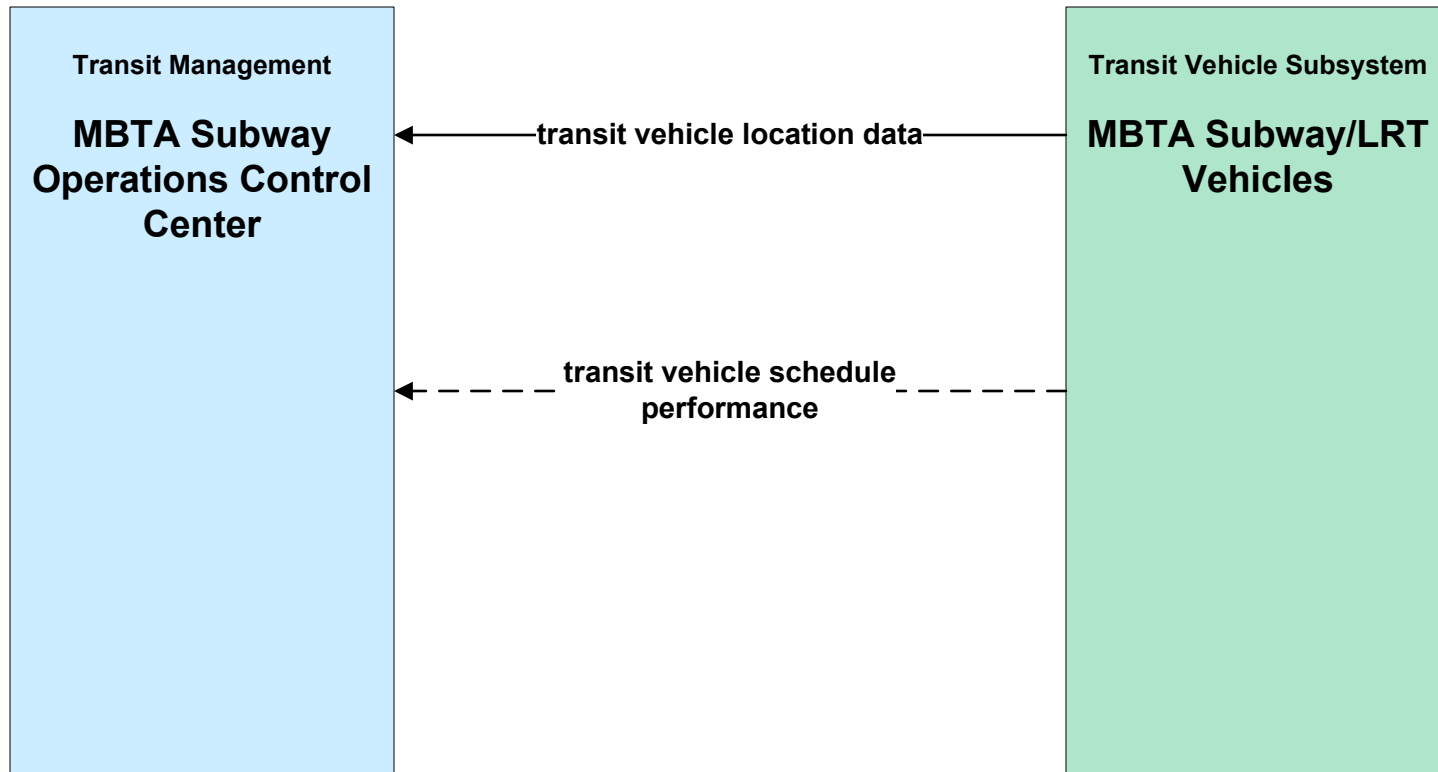
**APTS01 - Transit Vehicle Tracking  
MBTA Demand Response**



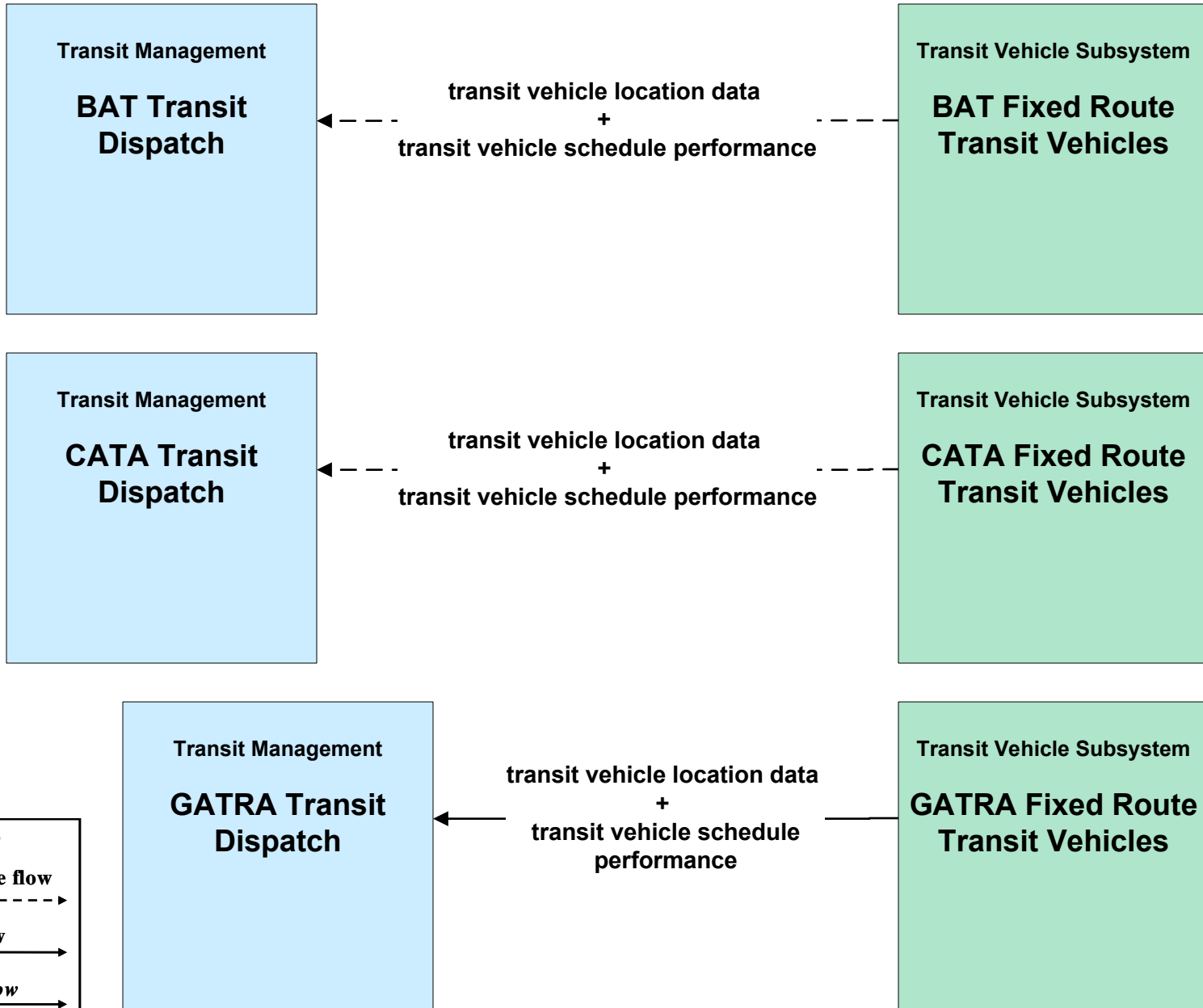
**APTS01 - Transit Vehicle Tracking  
MBTA Commuter Rail**



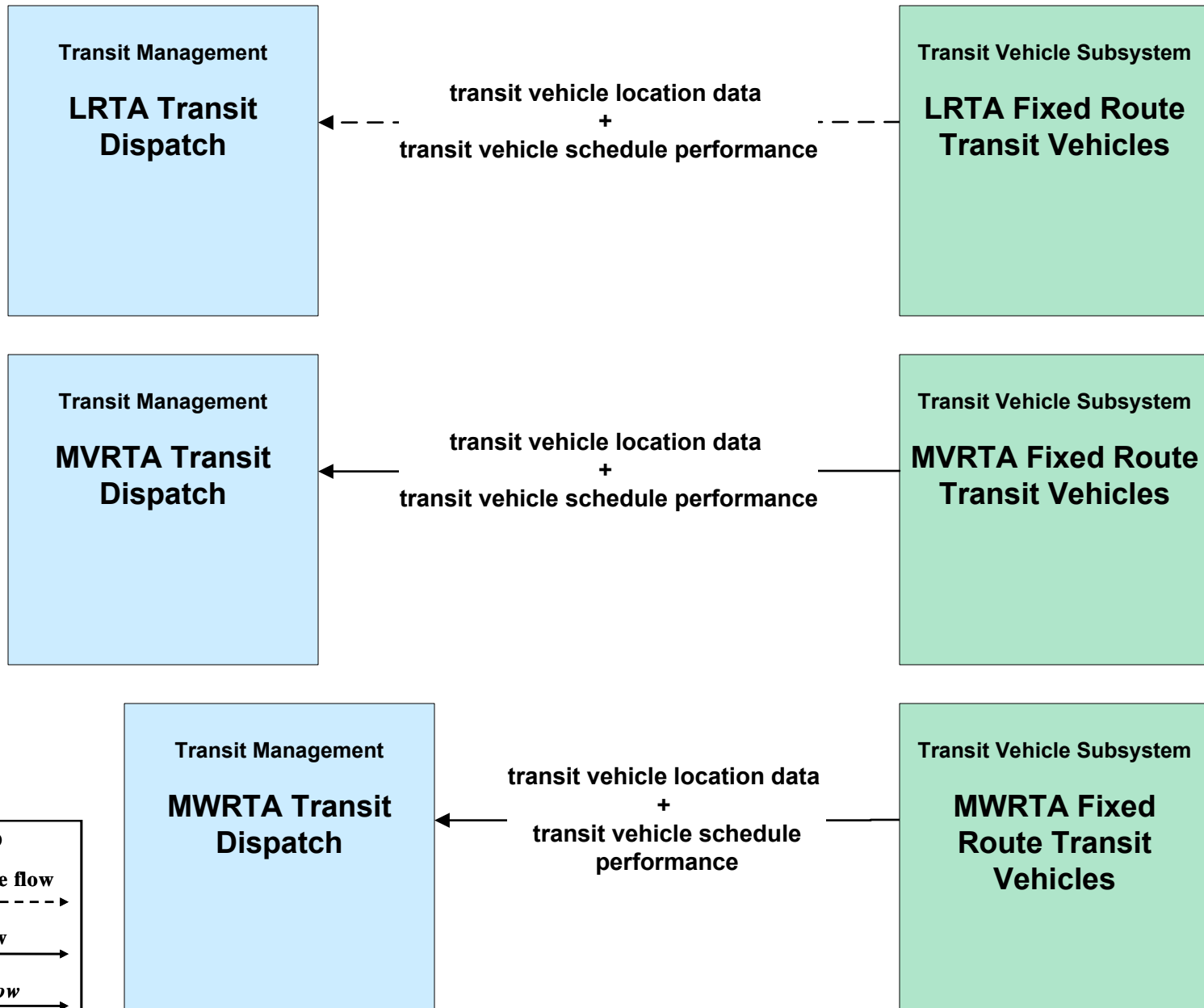
**APTS01 - Transit Vehicle Tracking  
MBTA Subway**



**APTS01 - Transit Vehicle Tracking  
RTA (1 of 2)**

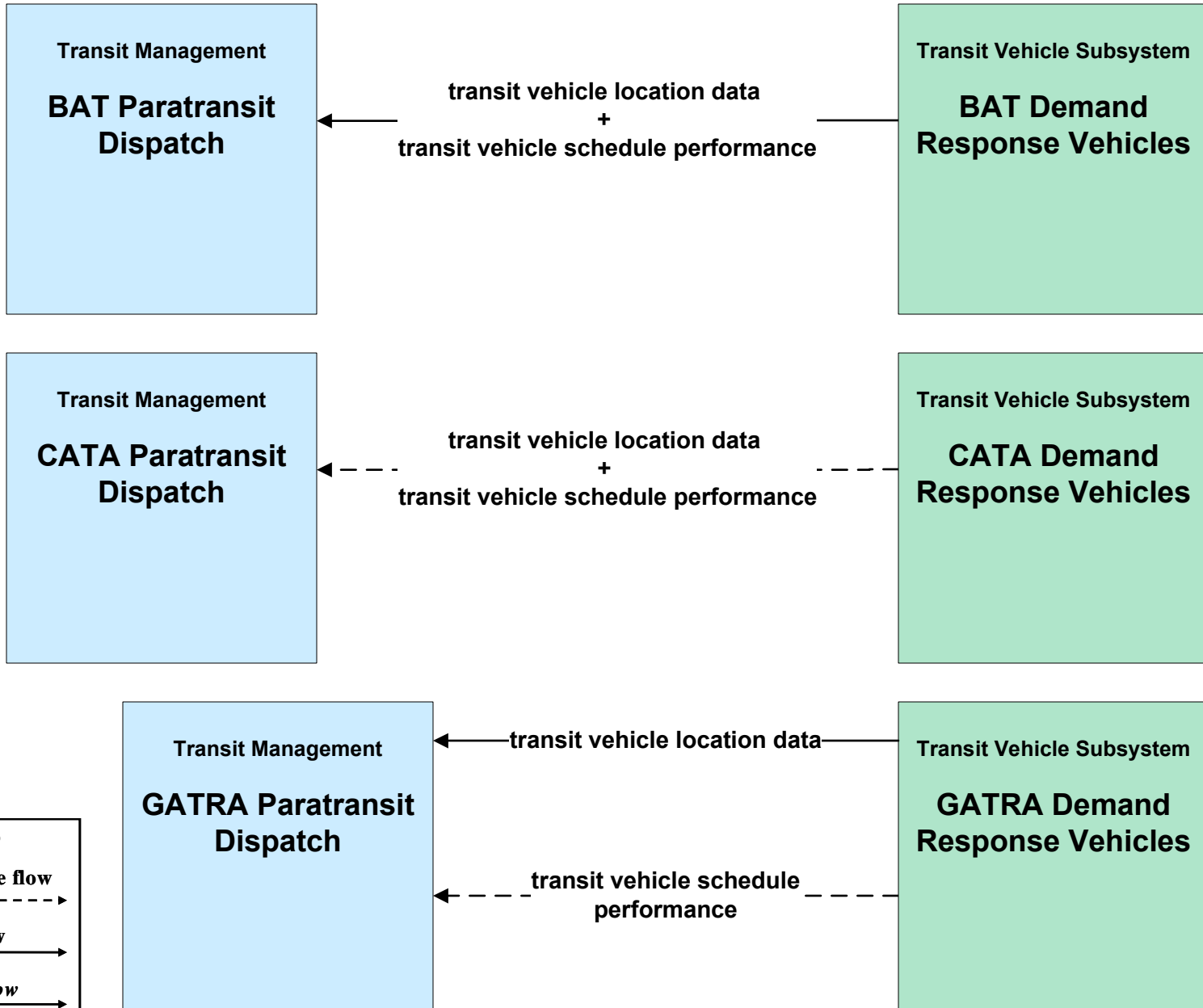


**APTS01 - Transit Vehicle Tracking  
RTA (2 of 2)**

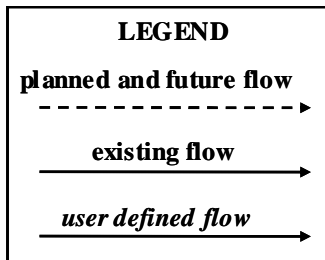
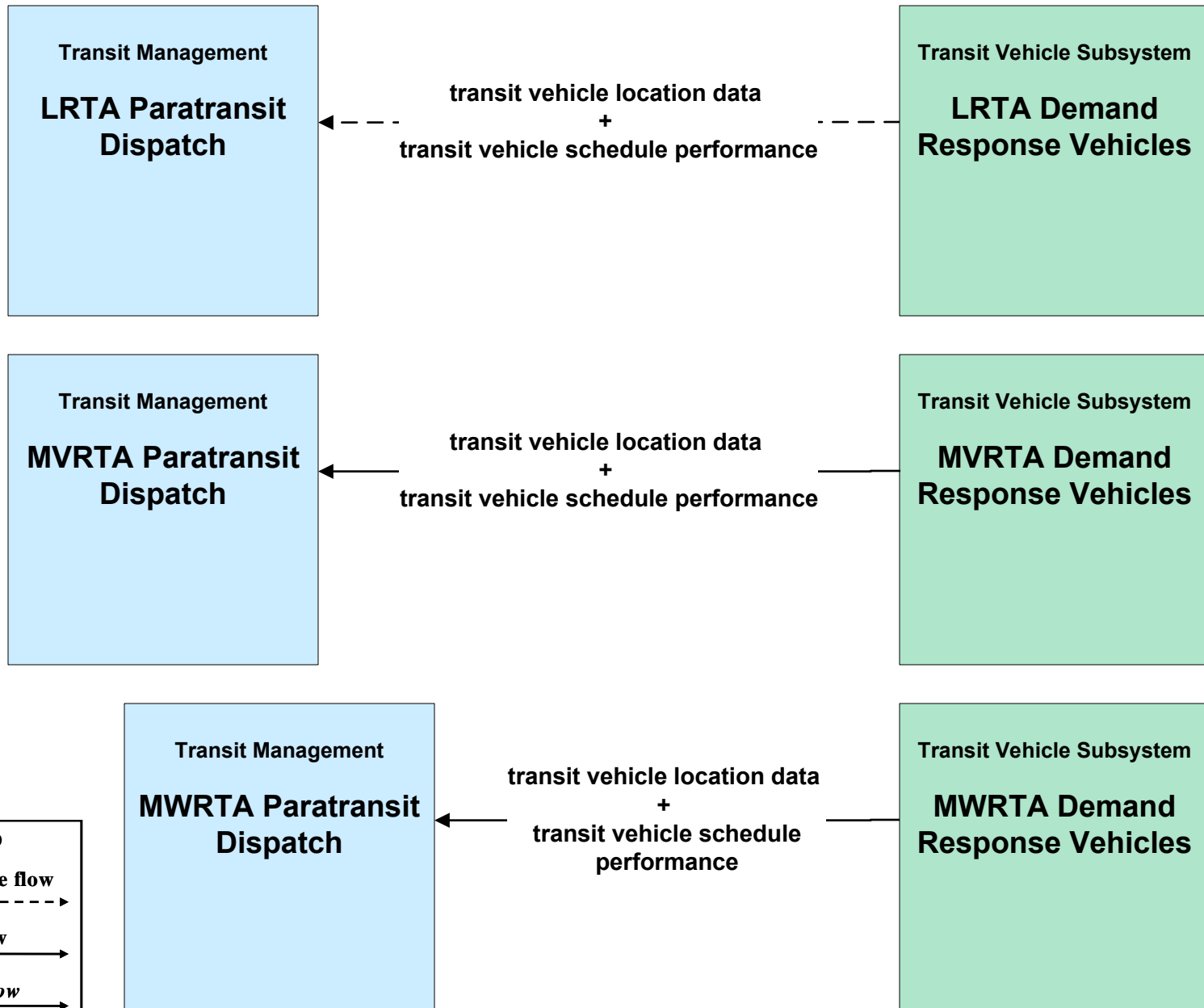




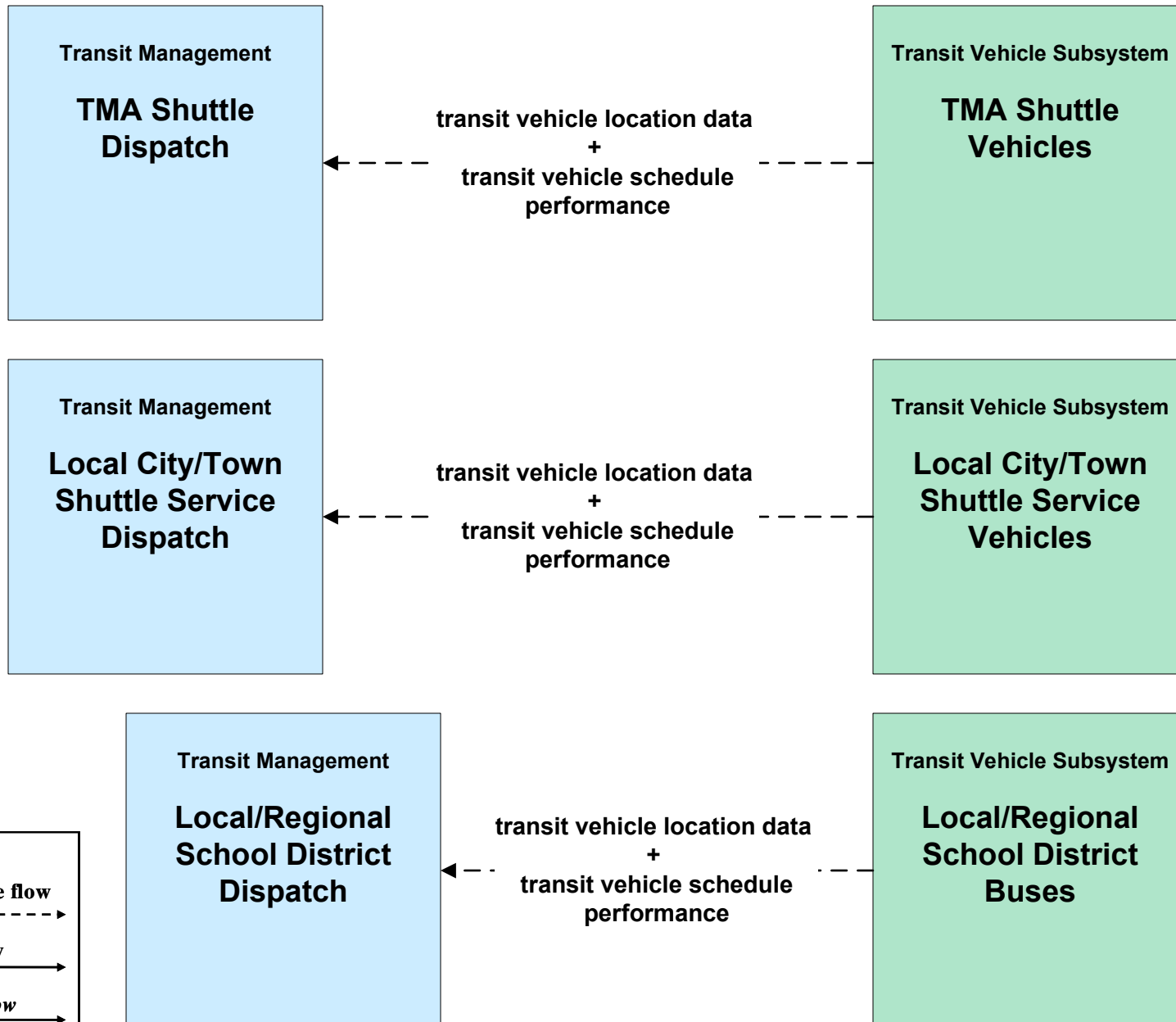
**APTS01 - Transit Vehicle Tracking  
RTA Paratransit (1 of 2)**



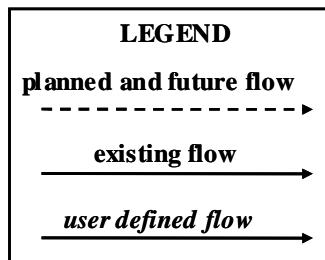
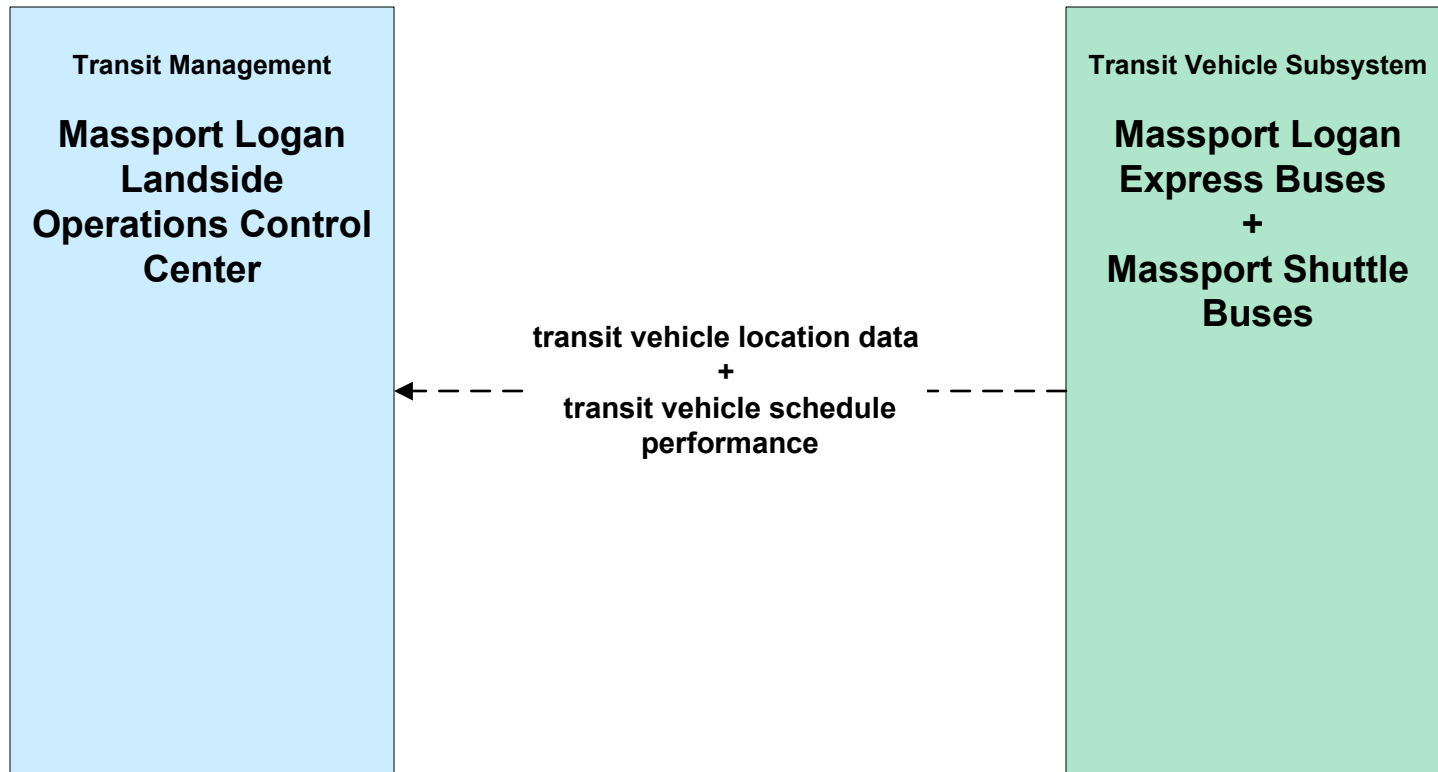
**APTS01 - Transit Vehicle Tracking  
RTA Paratransit (2 of 2)**



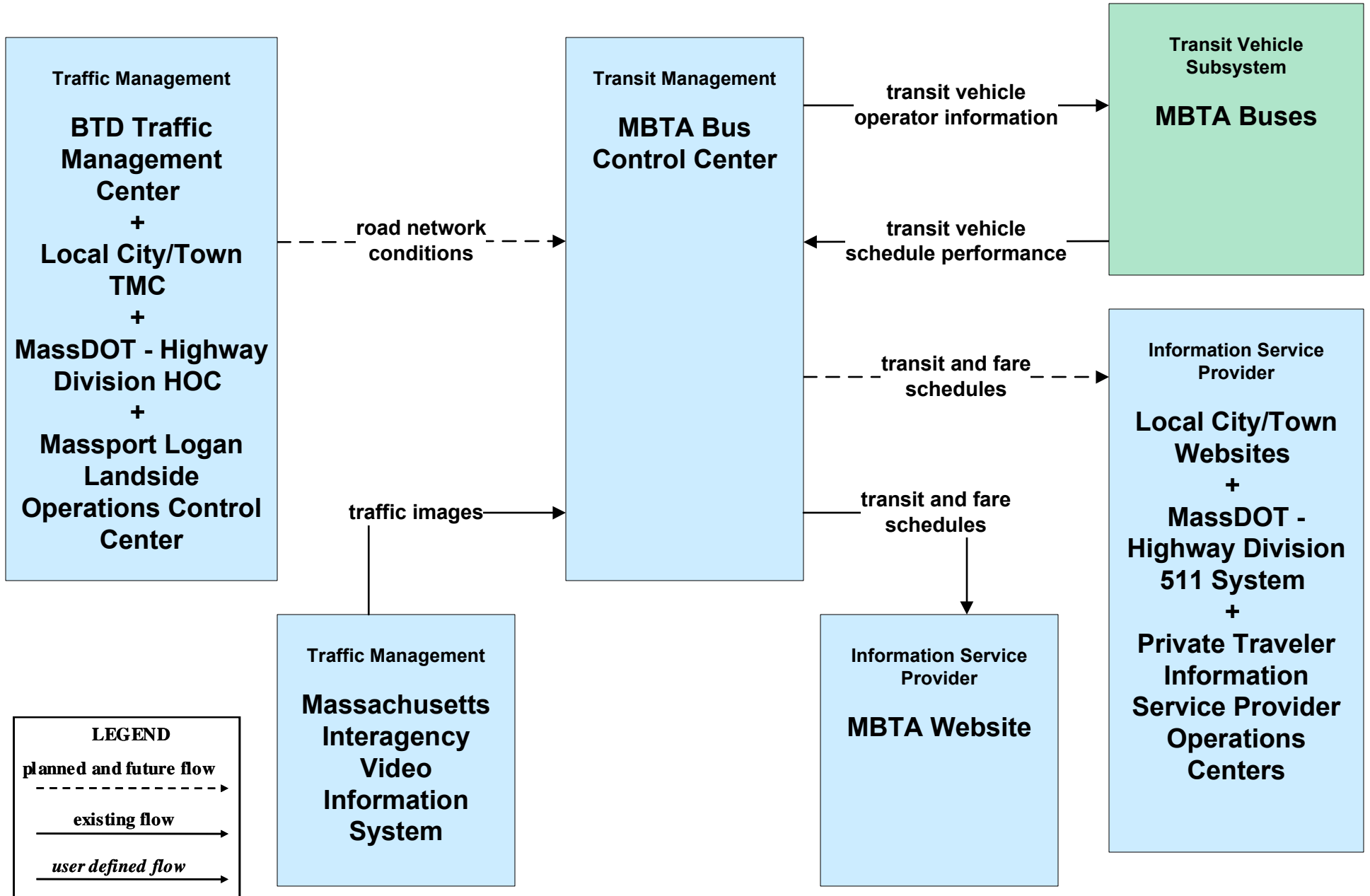
**APTS01 - Transit Vehicle Tracking**  
**TMA Shuttles / Local Cities/Towns Shuttles / Local/Regional School Districts**



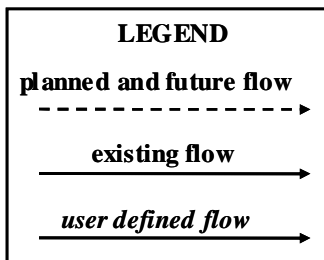
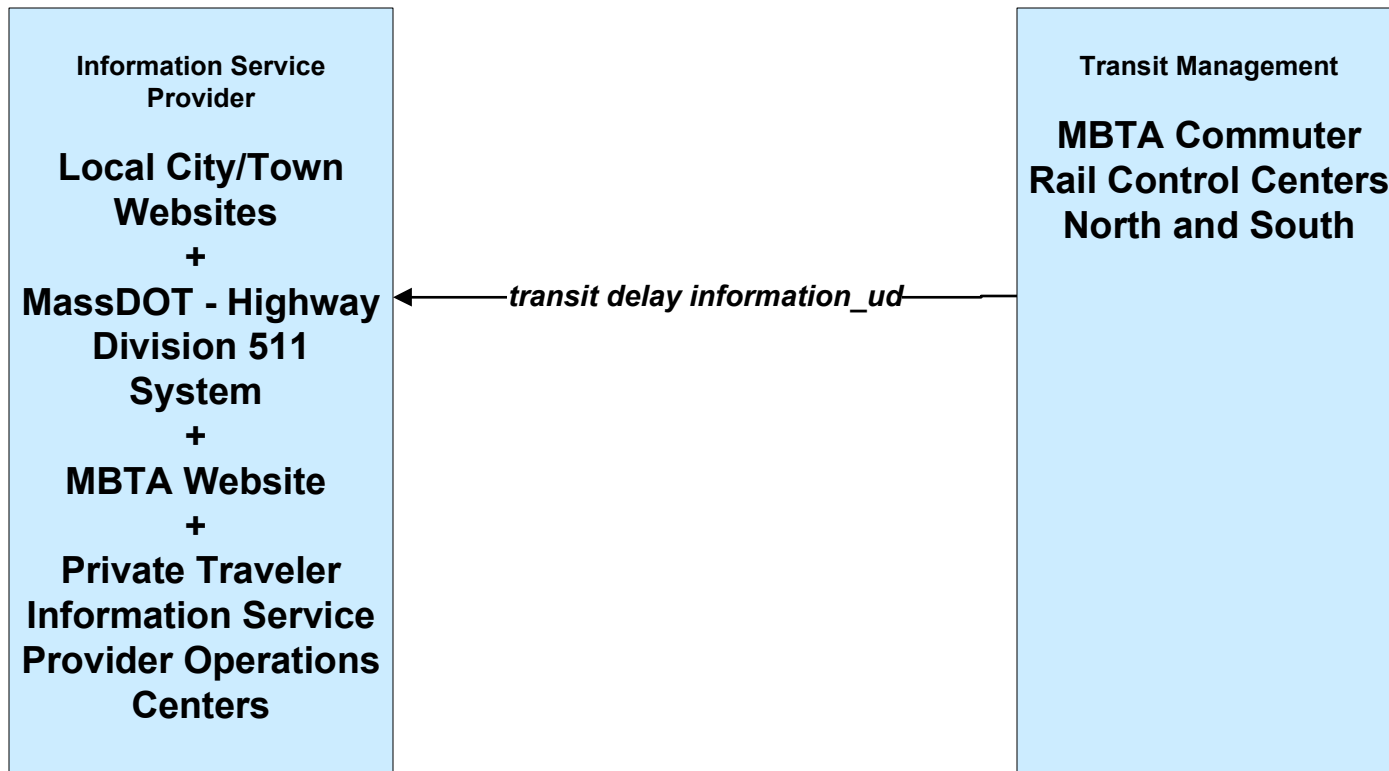
# APTS01 - Transit Vehicle Tracking Massport



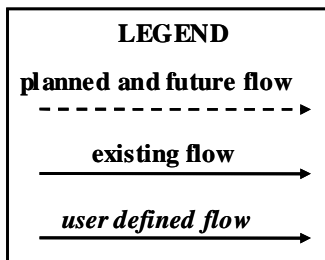
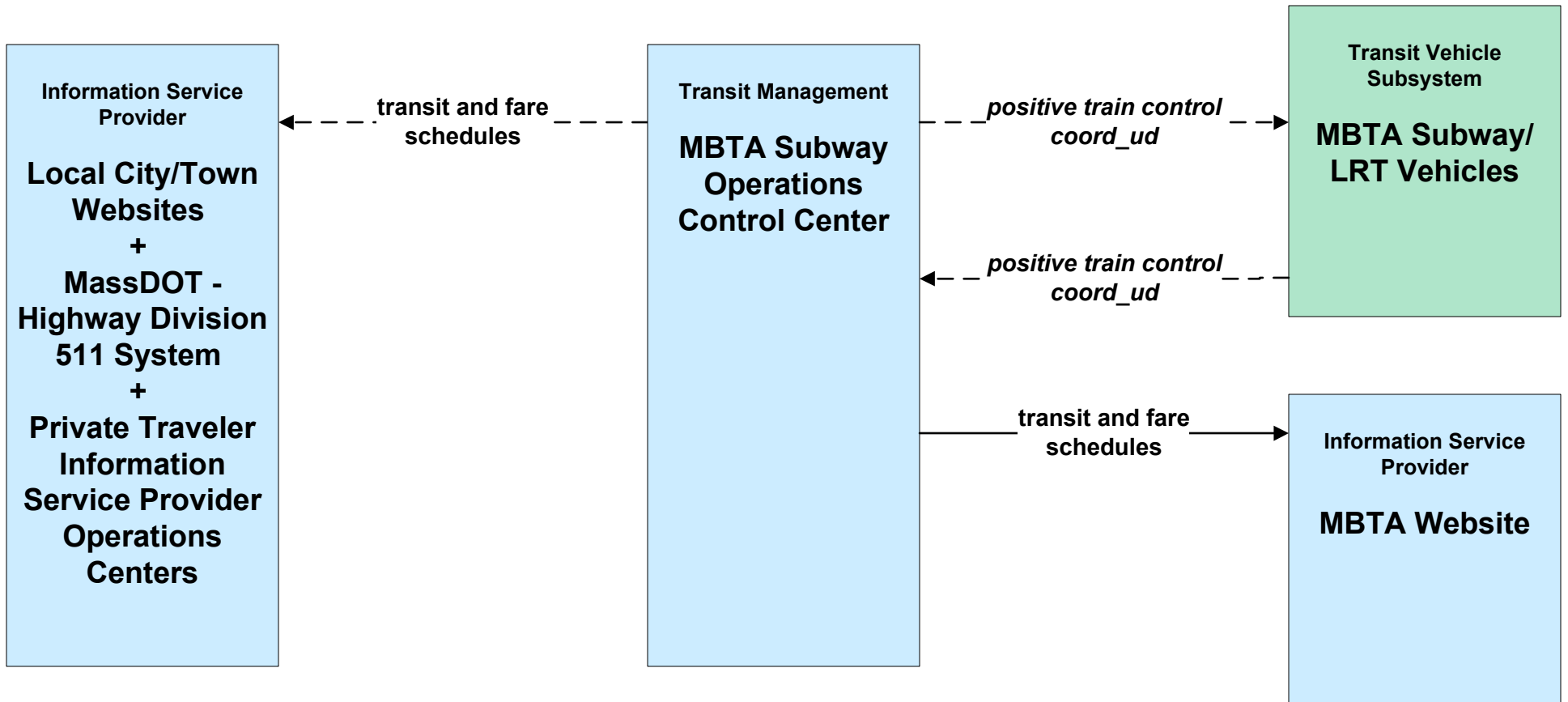
**APTS02 - Transit Fixed-Route Operations  
MBTA Bus**



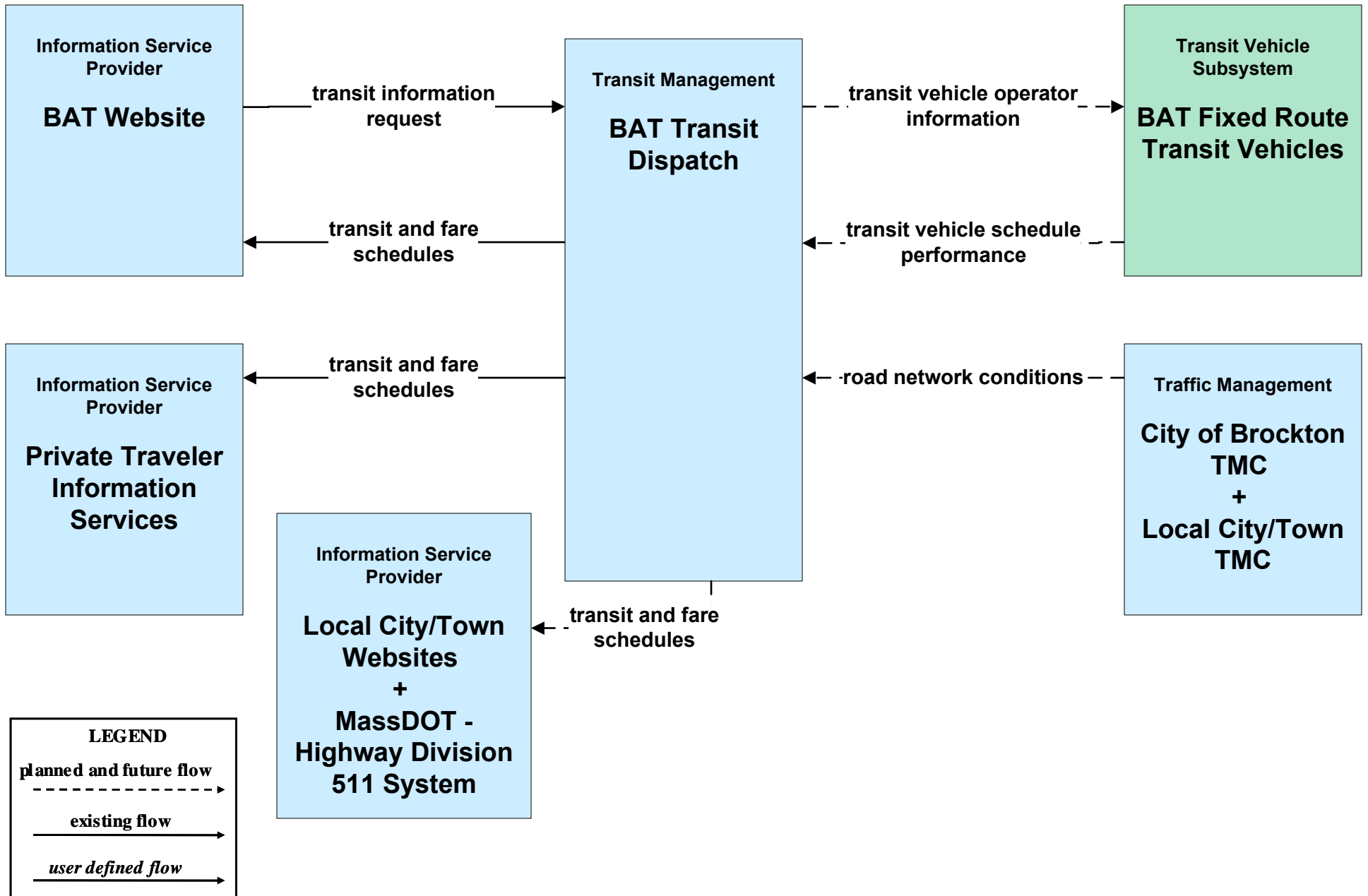
**APTS02 - Transit Fixed-Route Operations  
MBTA Commuter Rail**



**APTS02 - Transit Fixed-Route Operations  
MBTA Subway**

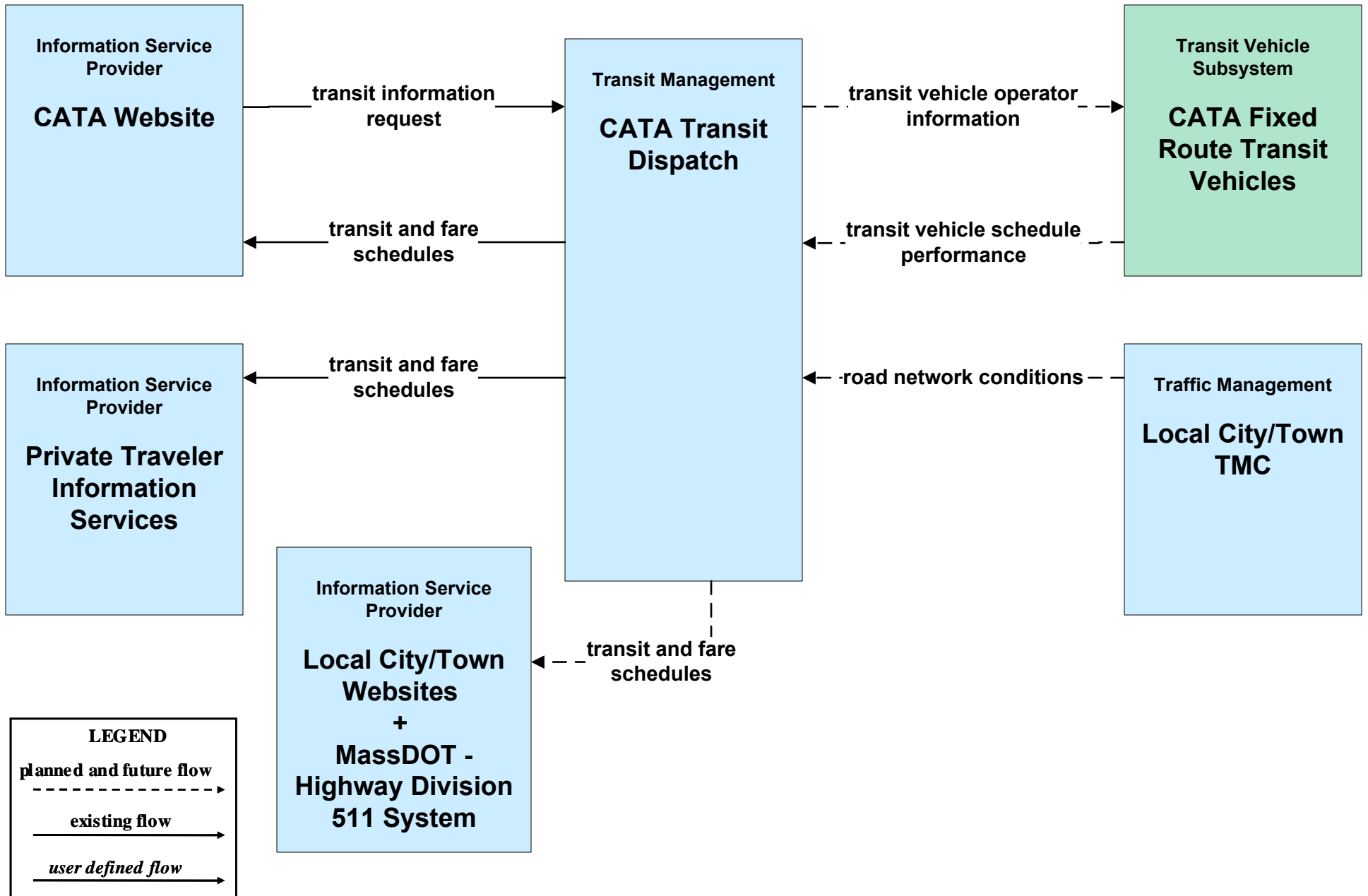


# APTS02 - Transit Fixed-Route Operations BAT

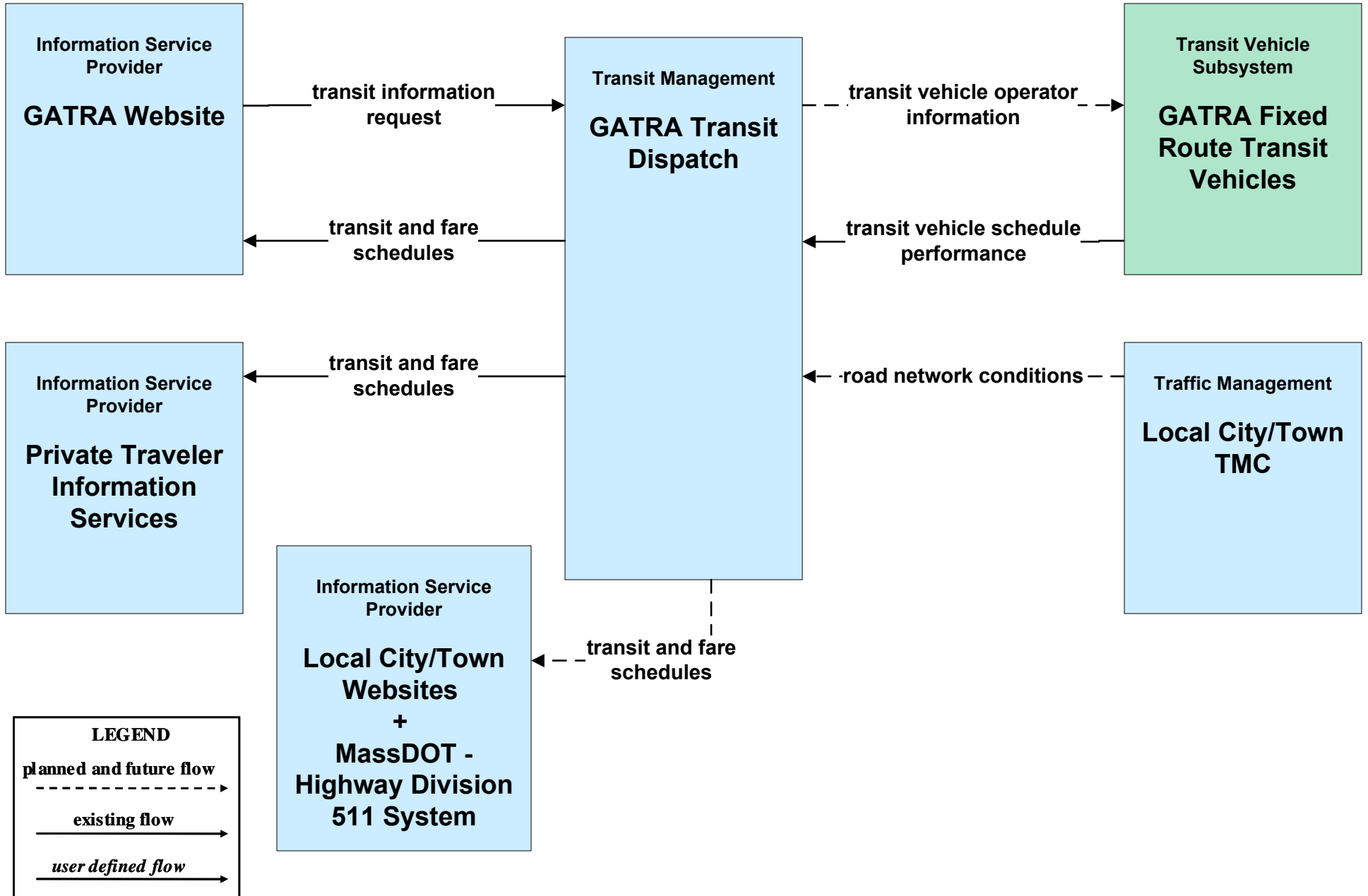




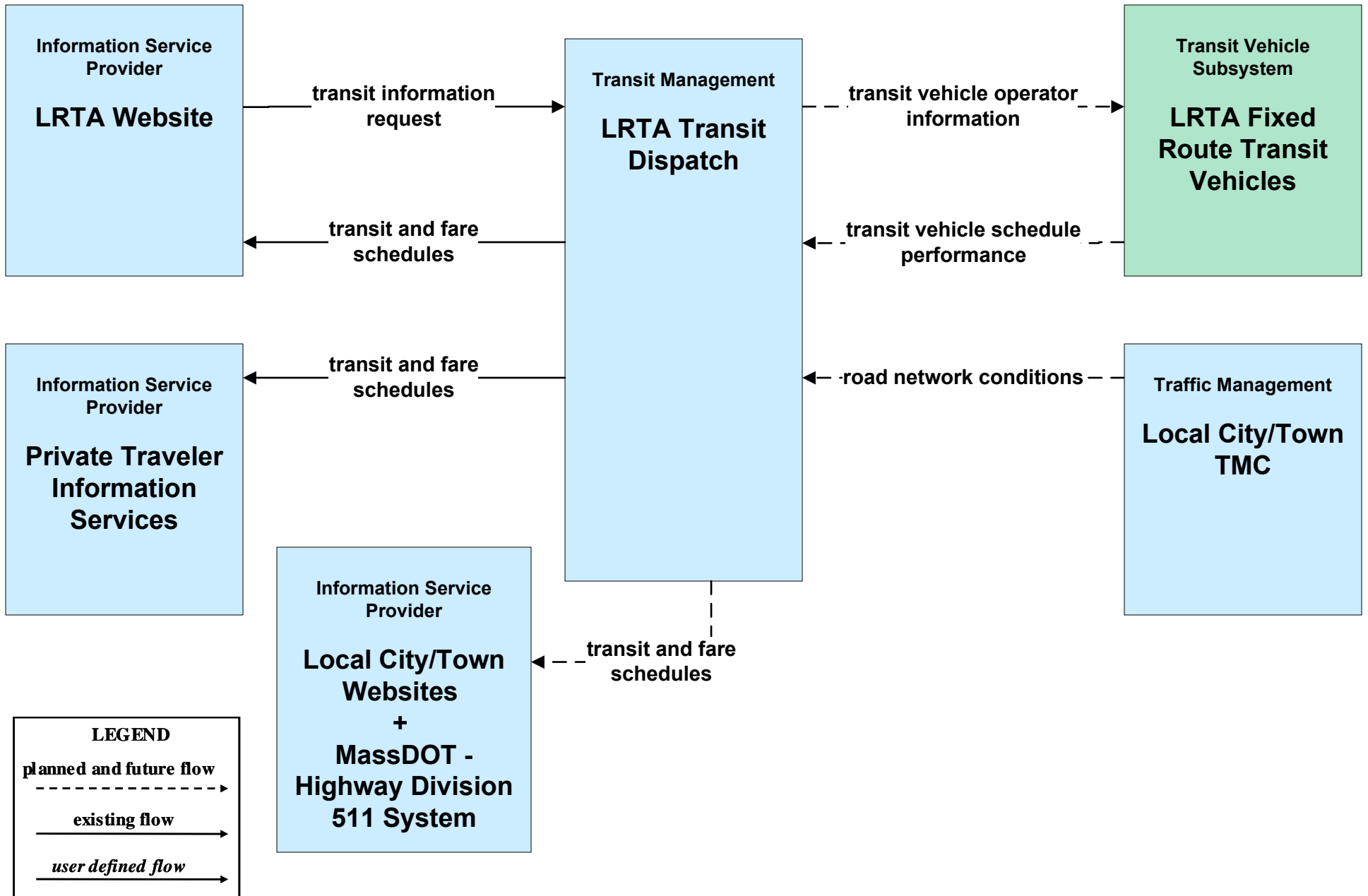
# APTS02 - Transit Fixed-Route Operations CATA



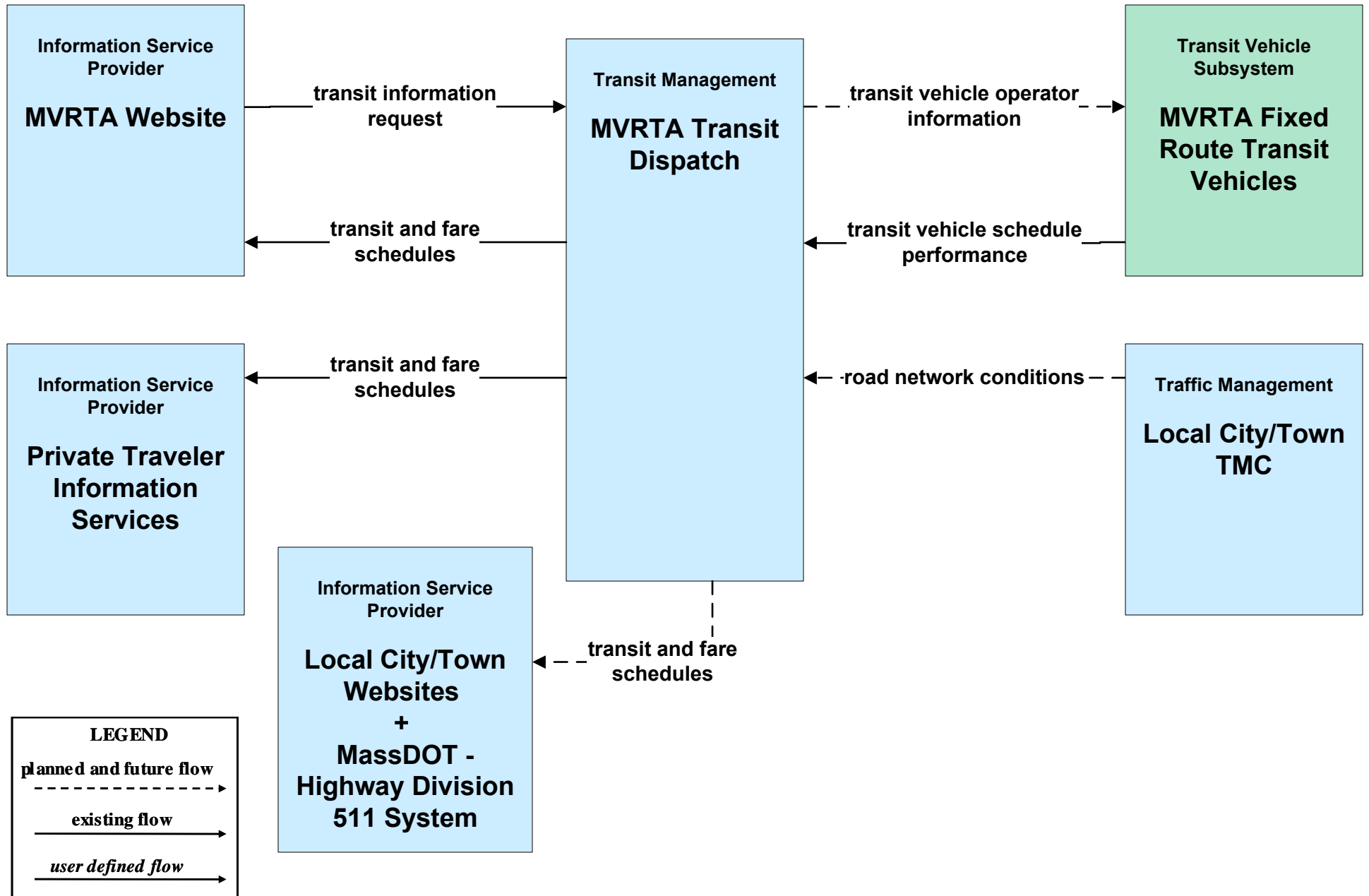
**APTS02 - Transit Fixed-Route Operations  
GATRA**



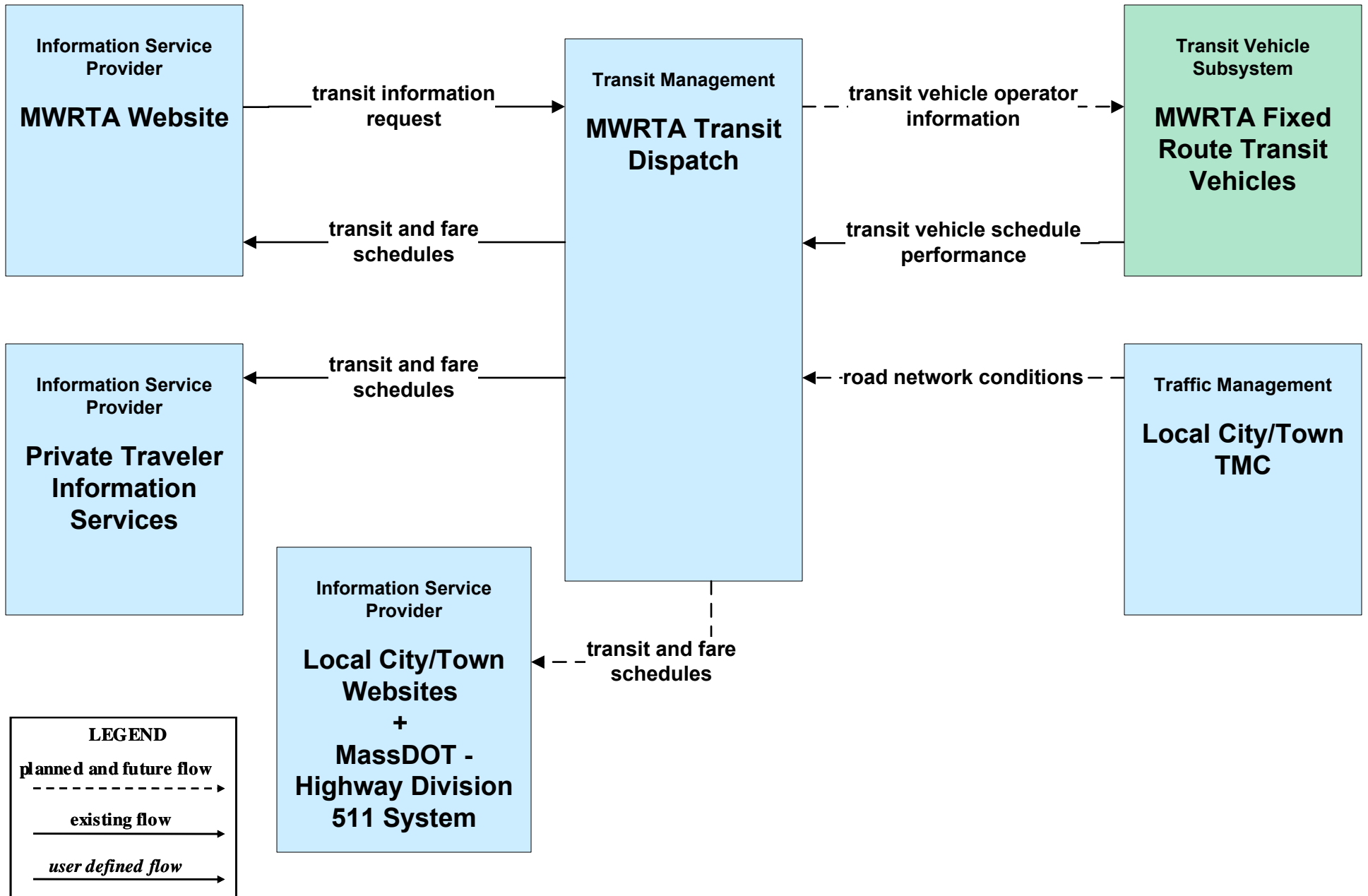
# APTS02 - Transit Fixed-Route Operations LRTA



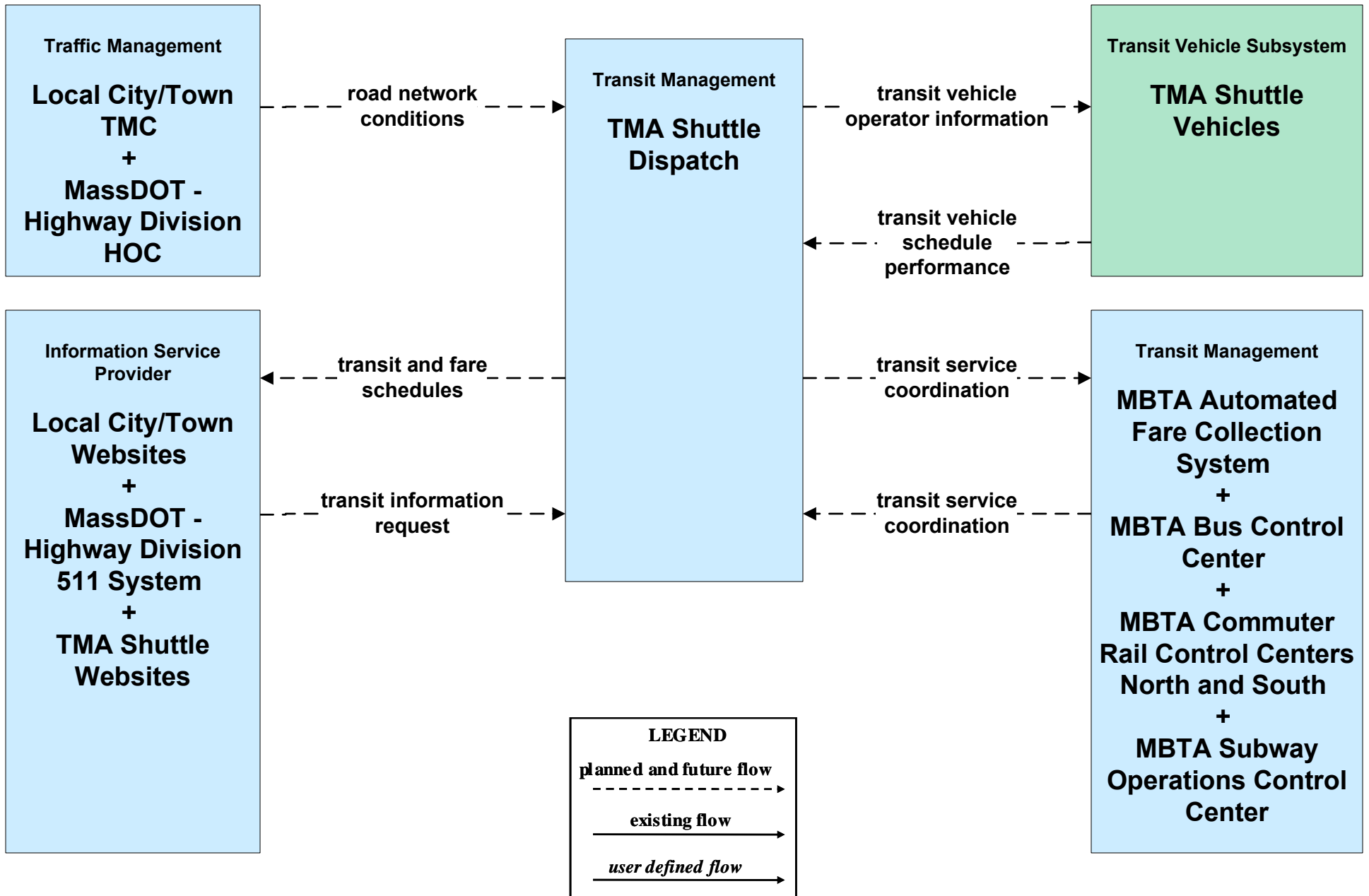
# APTS02 - Transit Fixed-Route Operations MVRTA



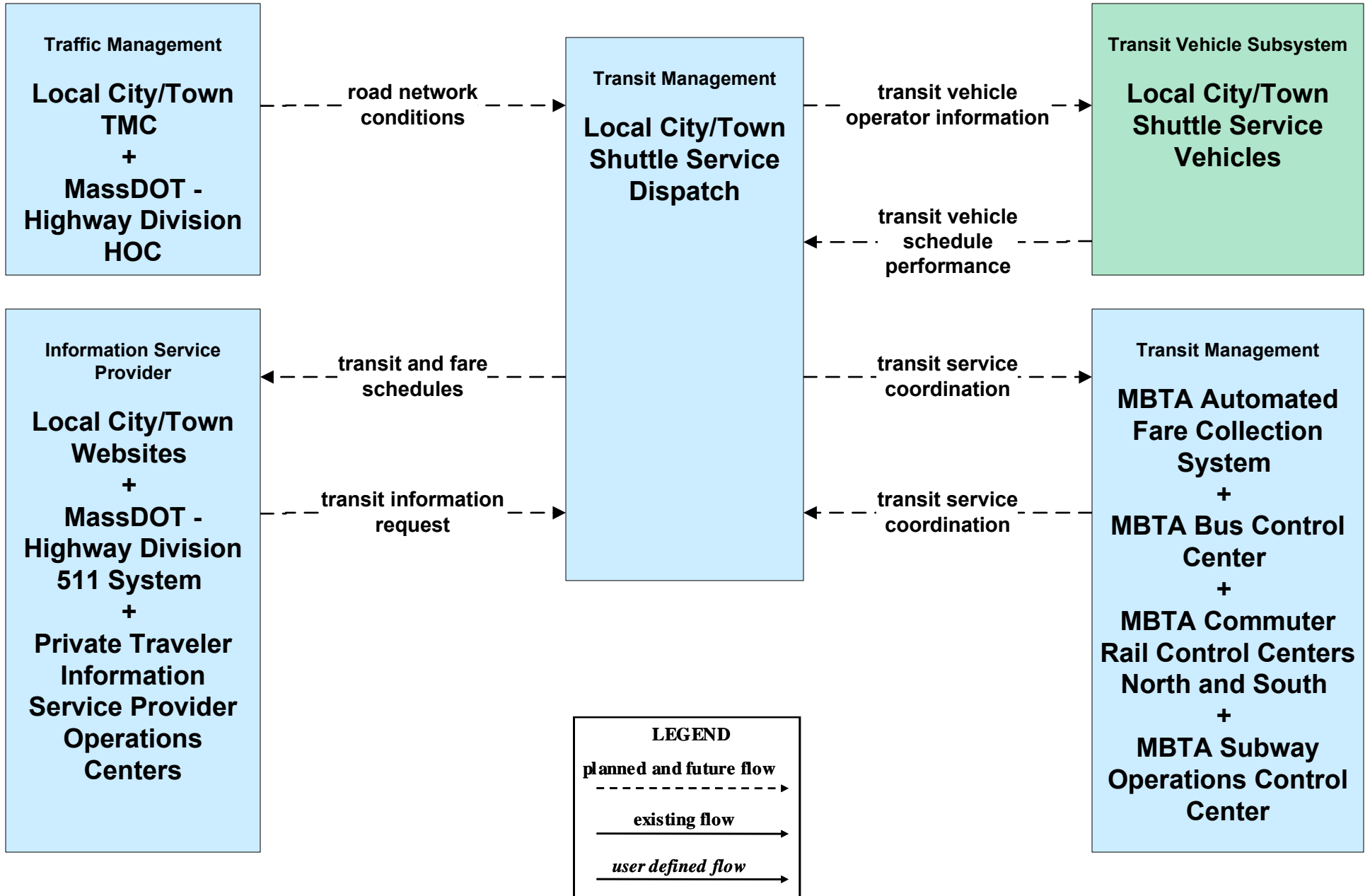
# APTS02 - Transit Fixed-Route Operations MWRTA



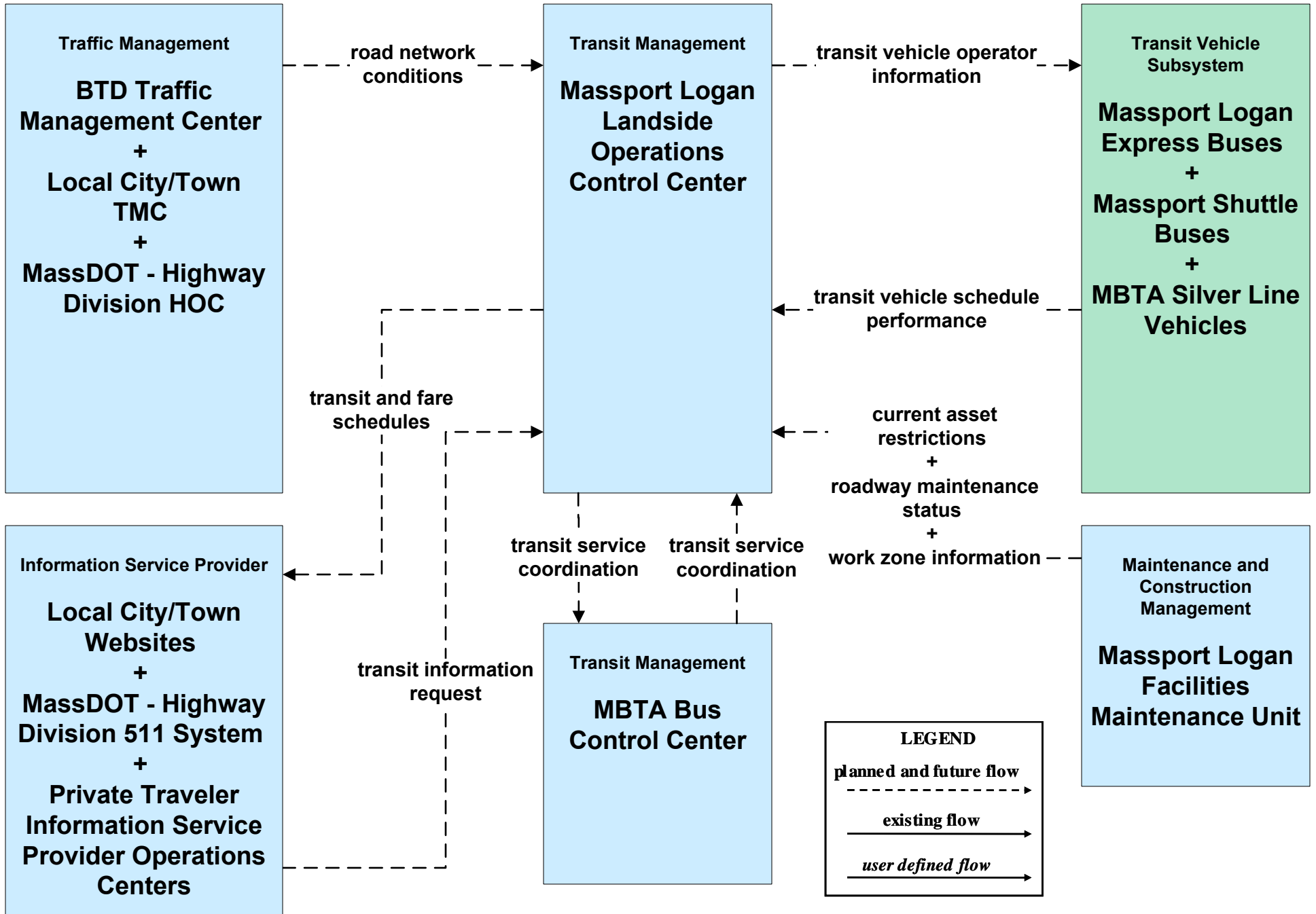
# APTS02 - Transit Fixed-Route Operations TMA Shuttles



**APTS02 - Transit Fixed-Route Operations  
Local City/Town Shuttles**

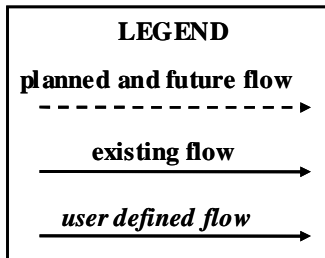
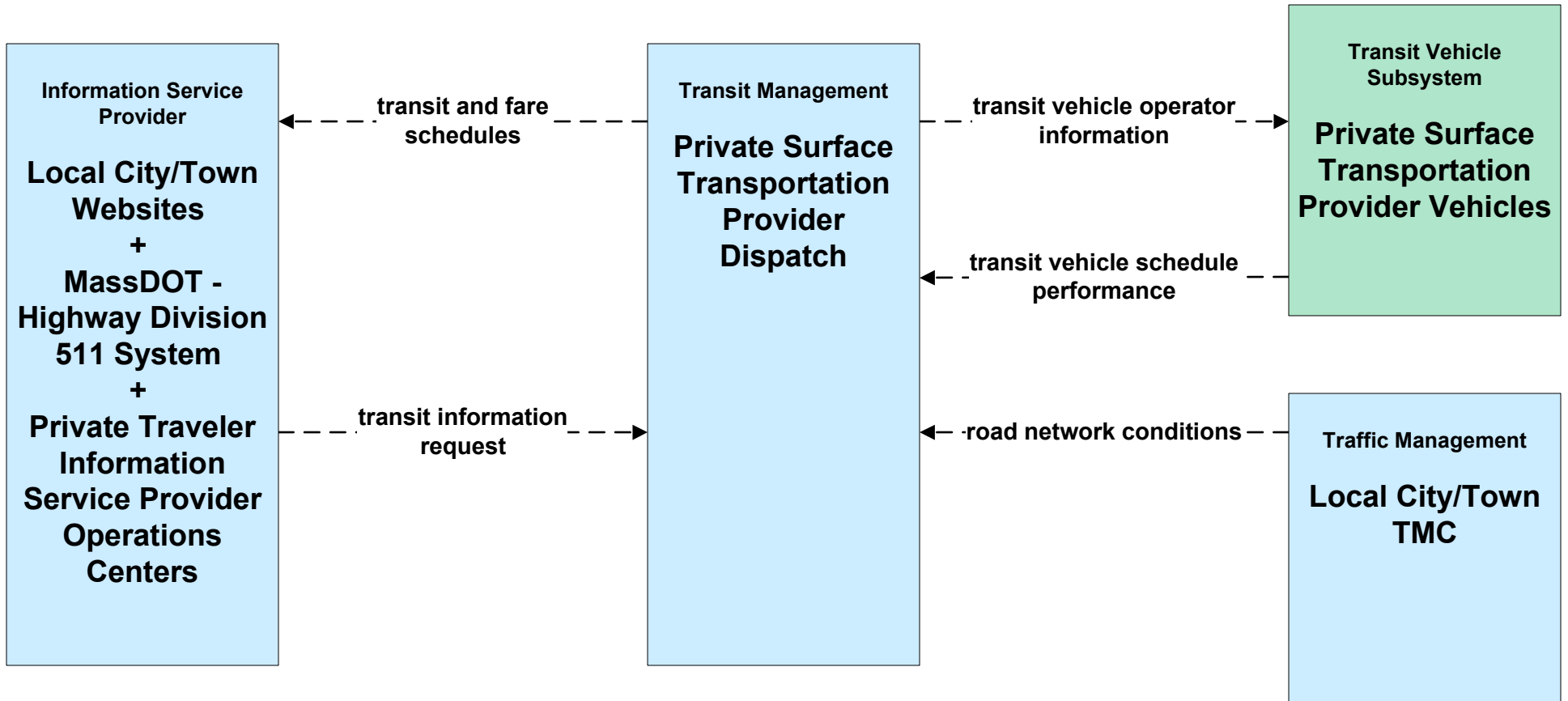


# APTS02 - Transit Fixed-Route Operations Massport

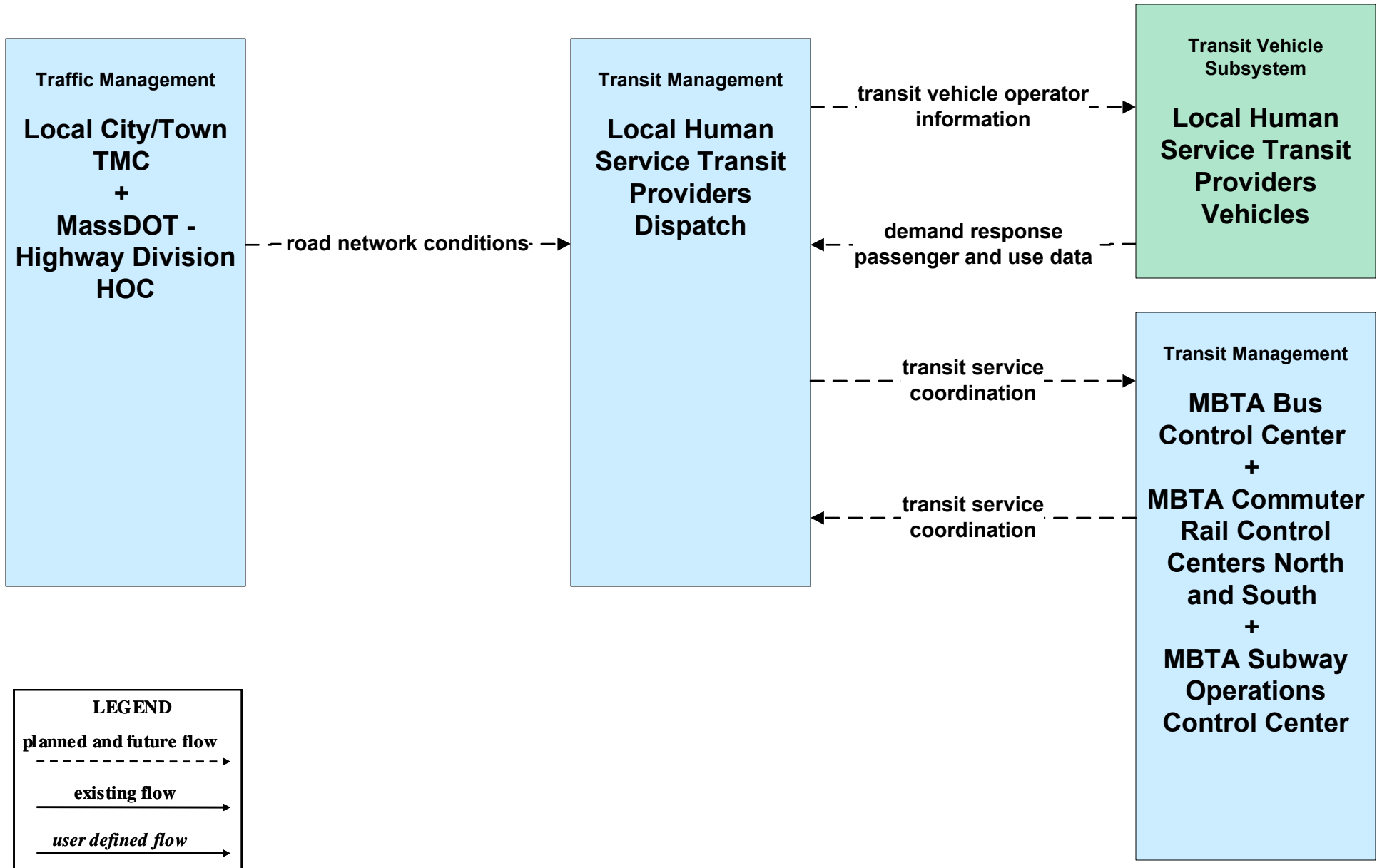




**APTS02 - Transit Fixed-Route Operations  
Private Surface Transportation Provider**

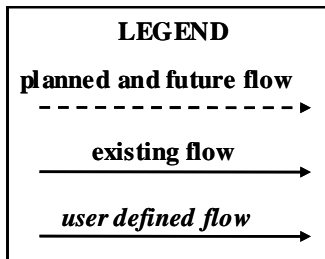
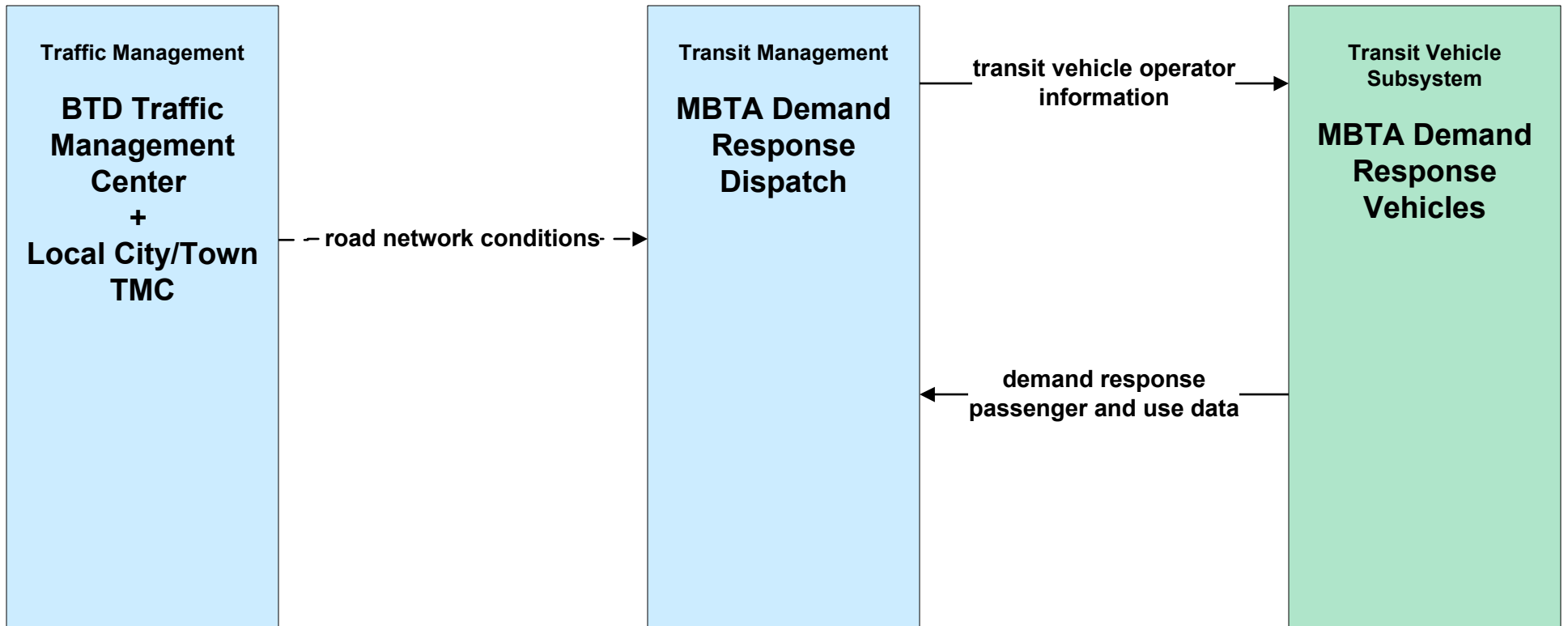


**APTS03 - Demand Response Transit Operations  
Local Human Service Transit**

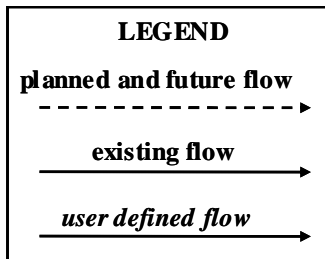
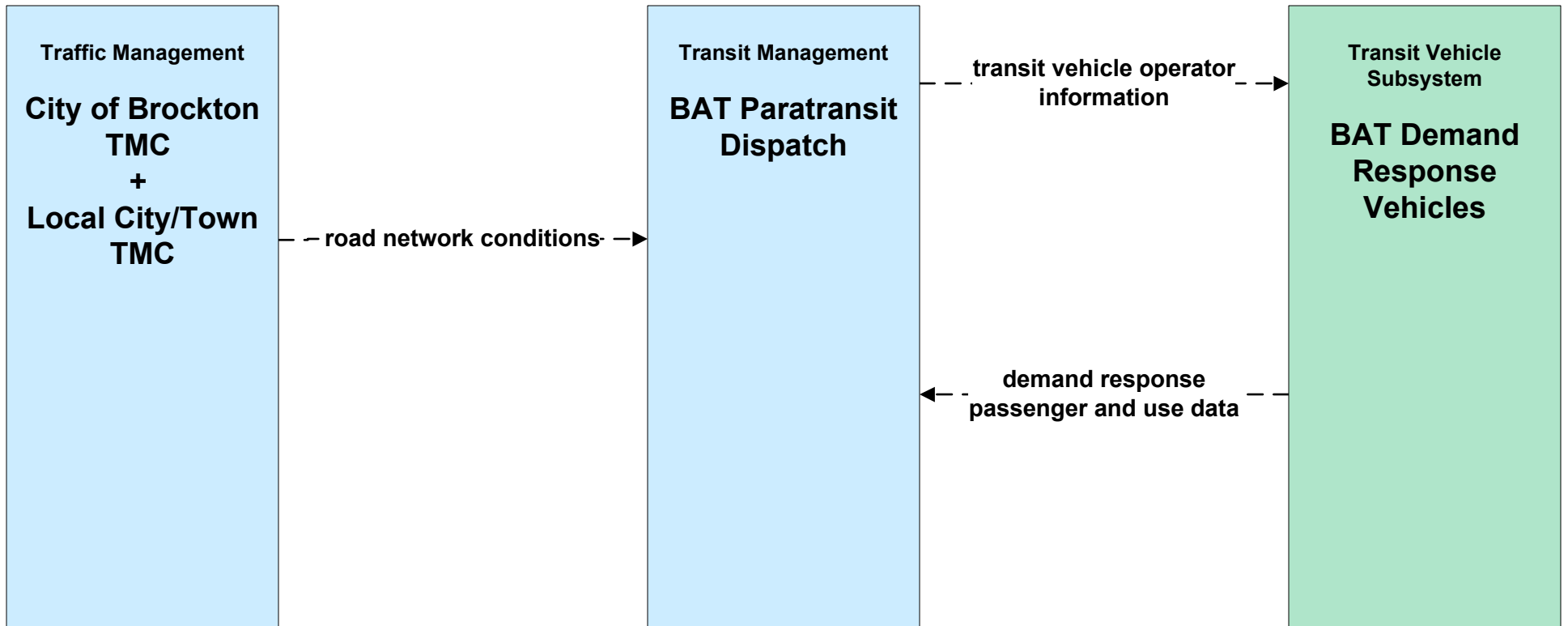


# APTS03 - Demand Response Transit Operations

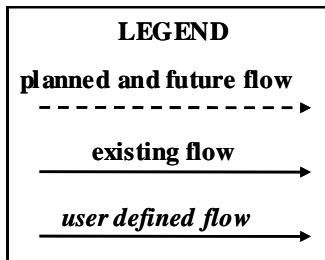
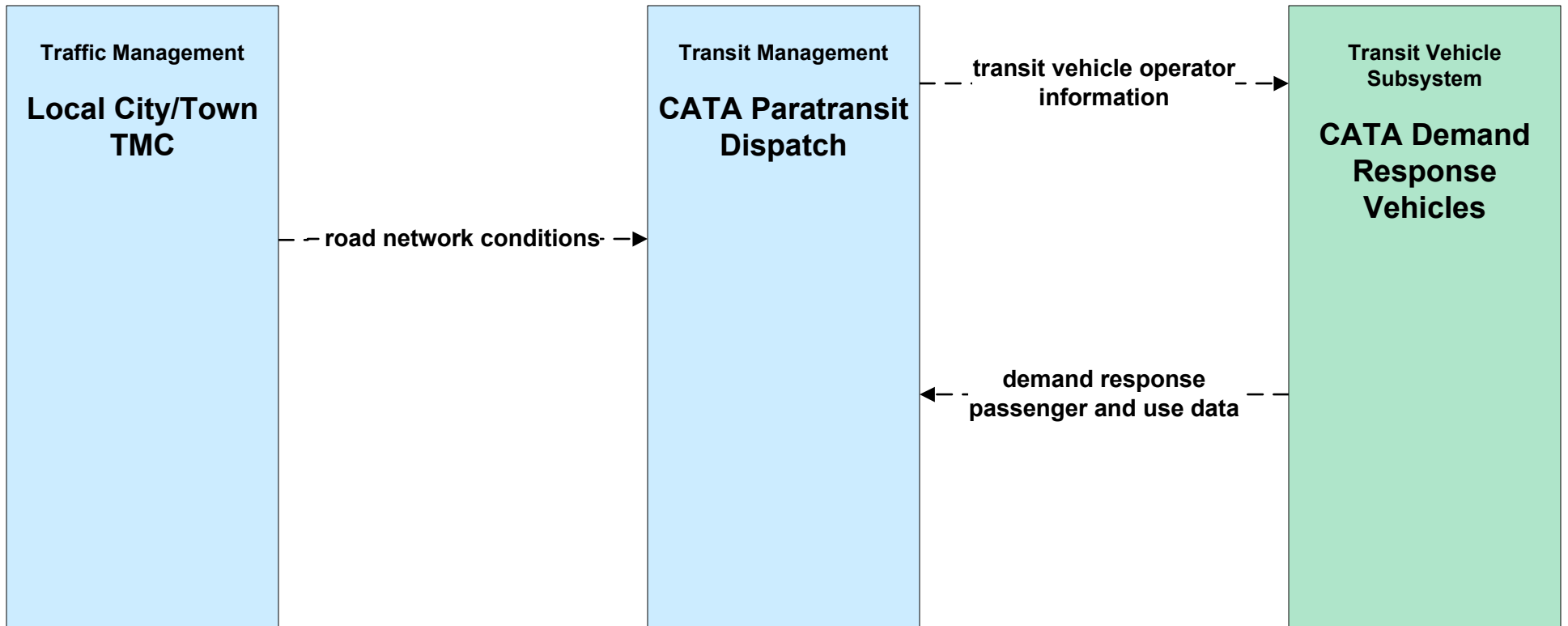
## MBTA Demand Response



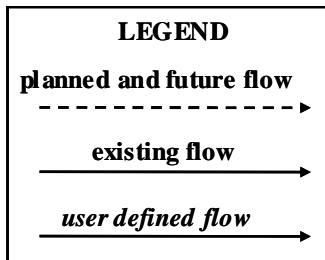
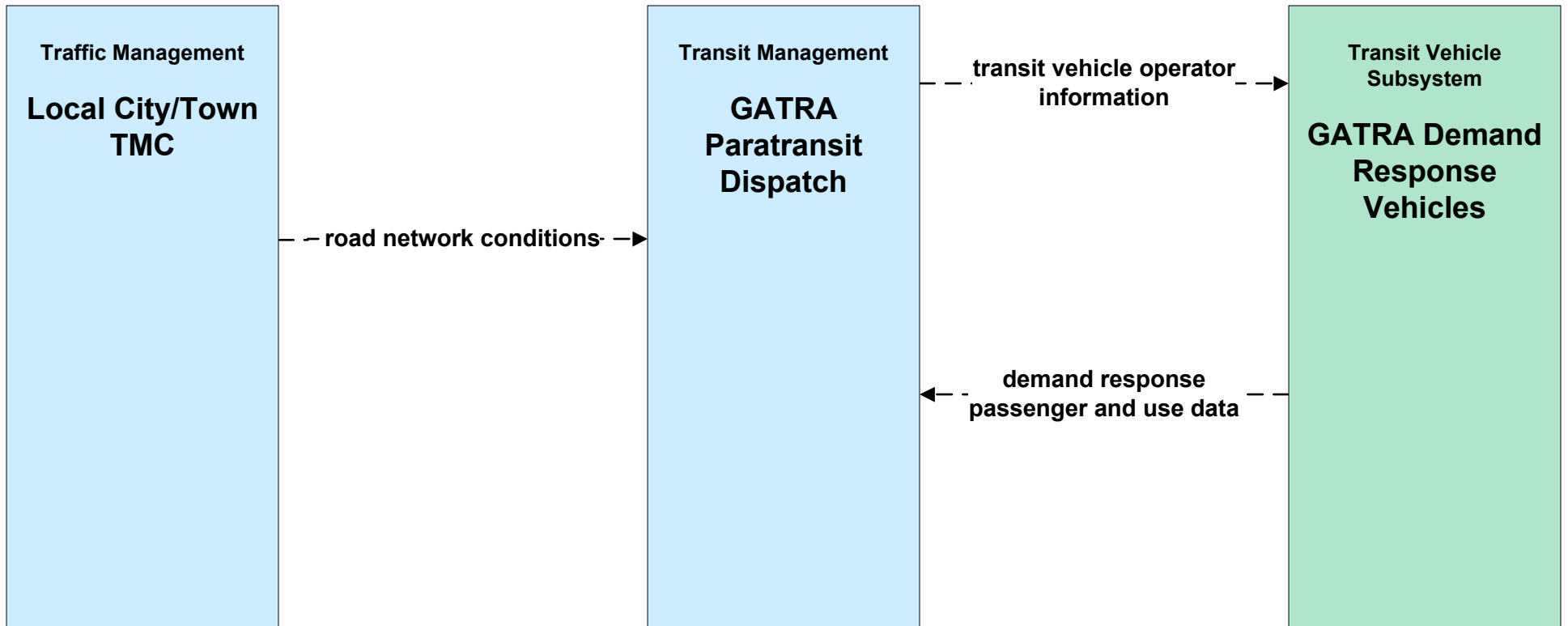
# APTS03 - Demand Response Transit Operations BAT



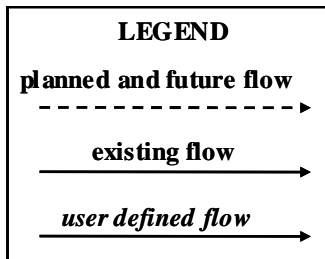
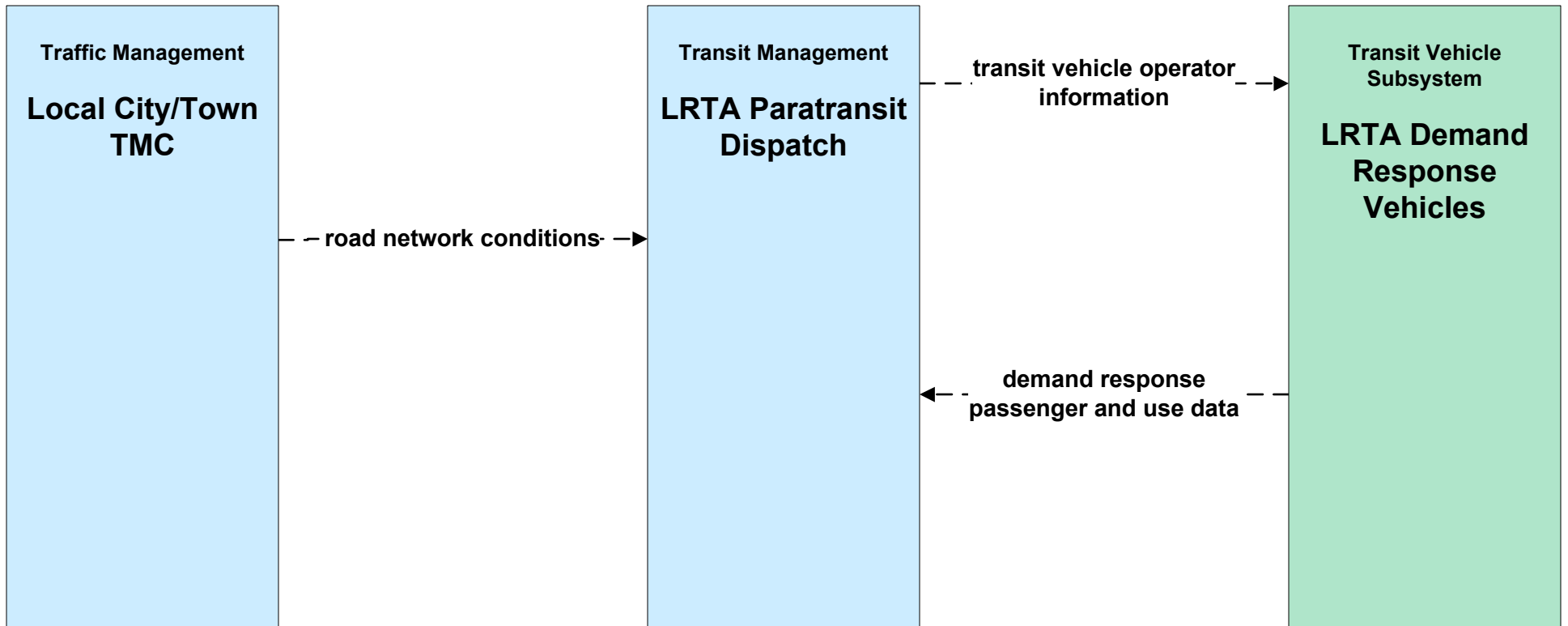
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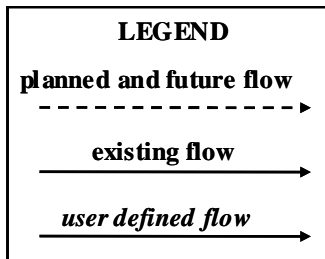
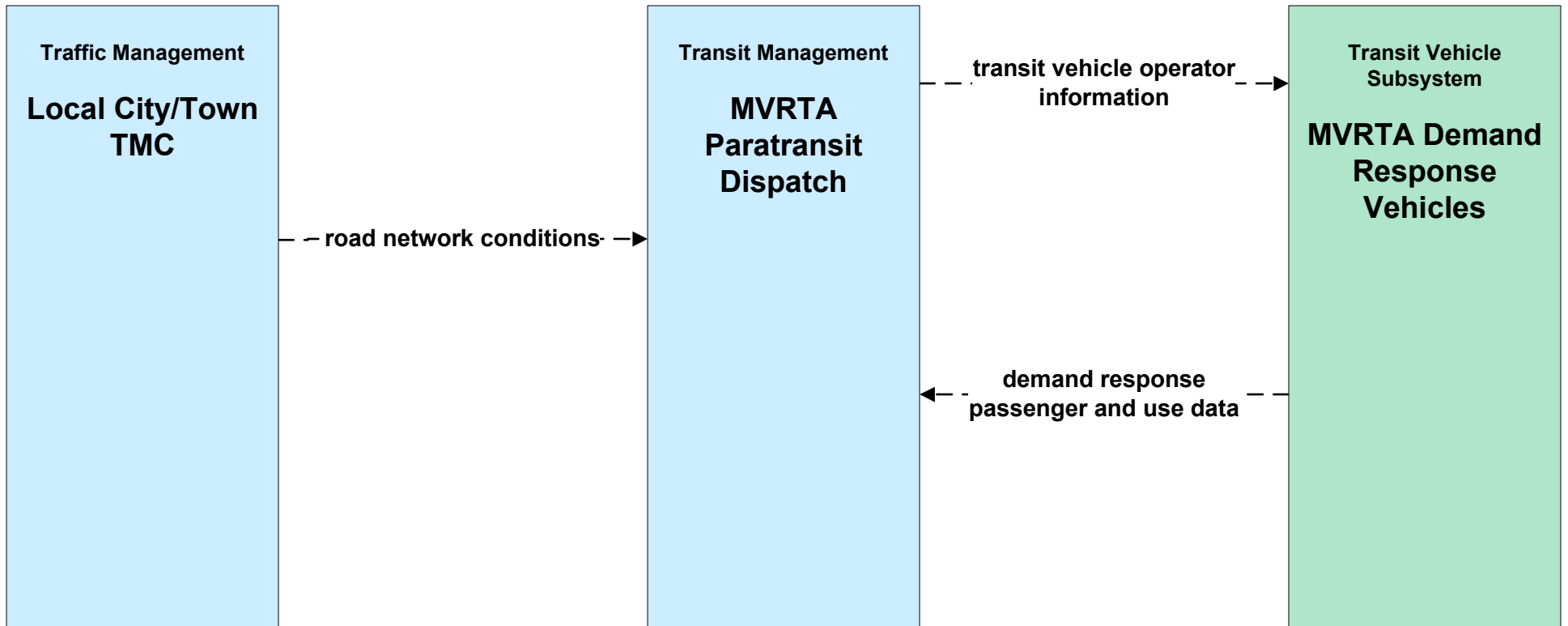
# APTS03 - Demand Response Transit Operations GATRA



# APTS03 - Demand Response Transit Operations LRTA

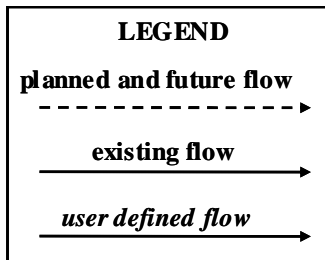
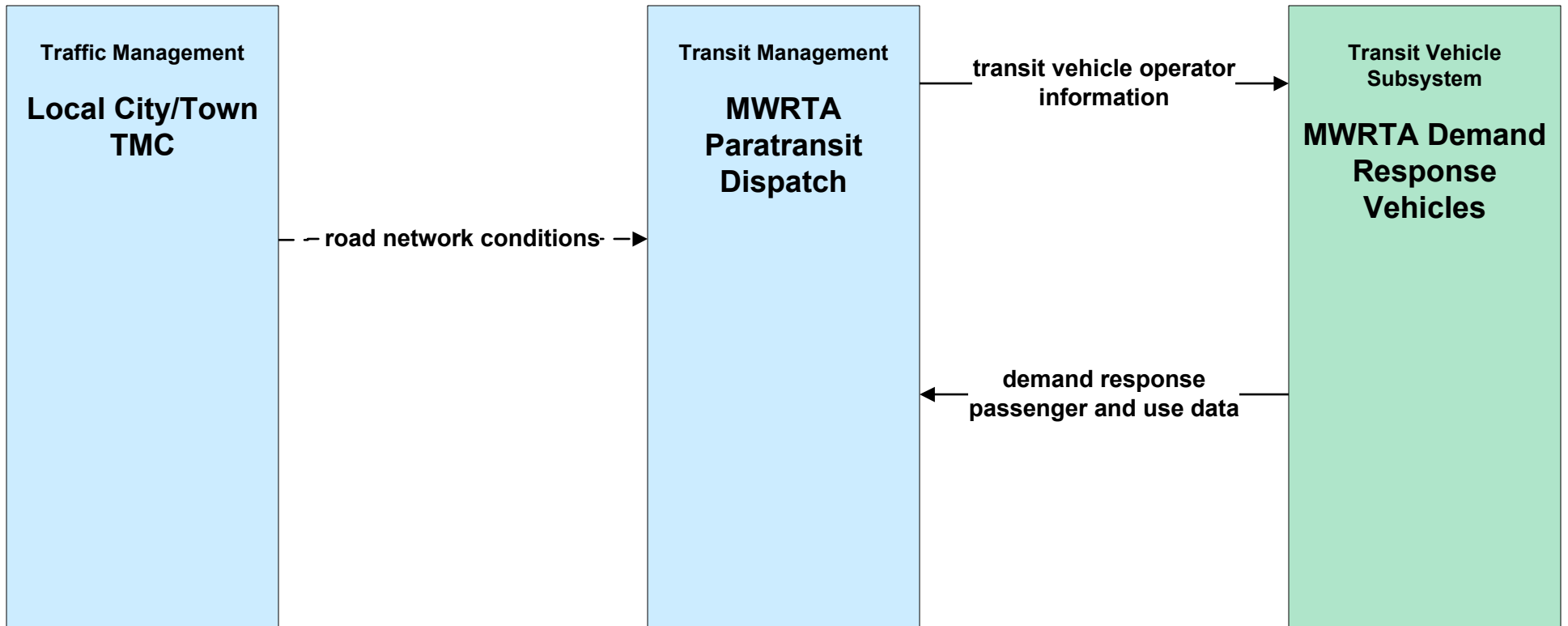


# APTS03 - Demand Response Transit Operations MVRTA

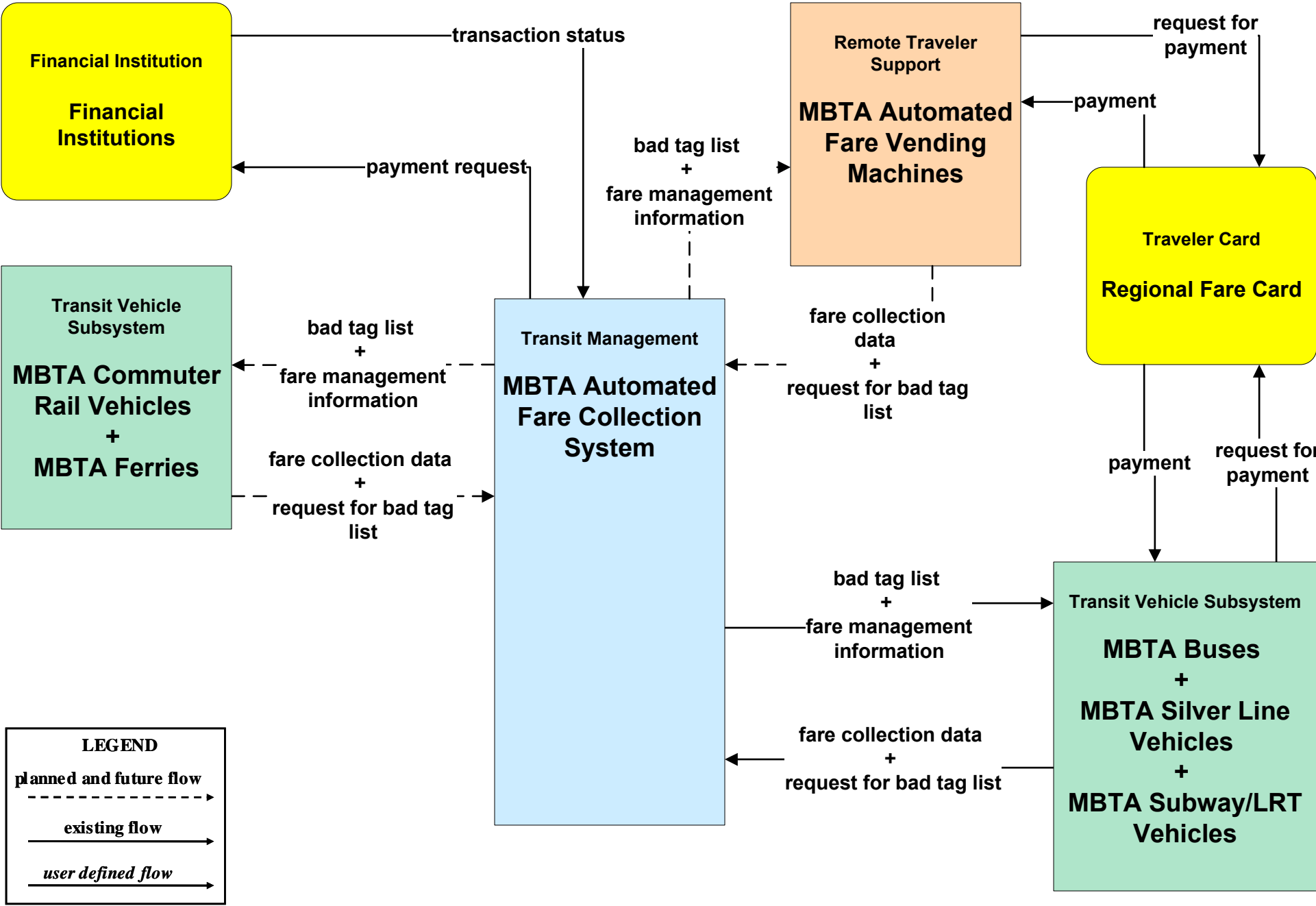




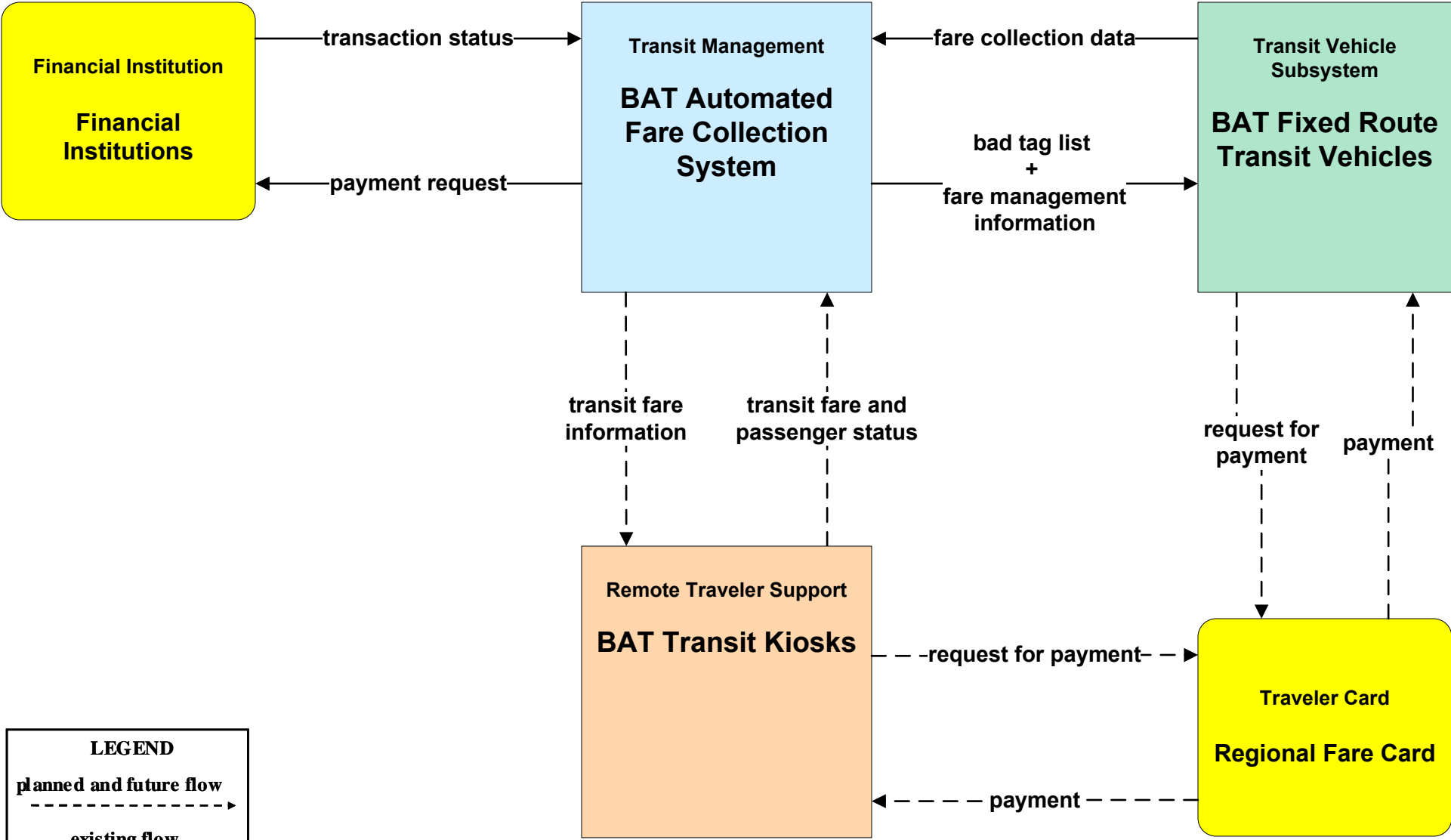
# APTS03 - Demand Response Transit Operations MWRTA



# APTS04 - Transit Passenger and Fare Payment MBTA



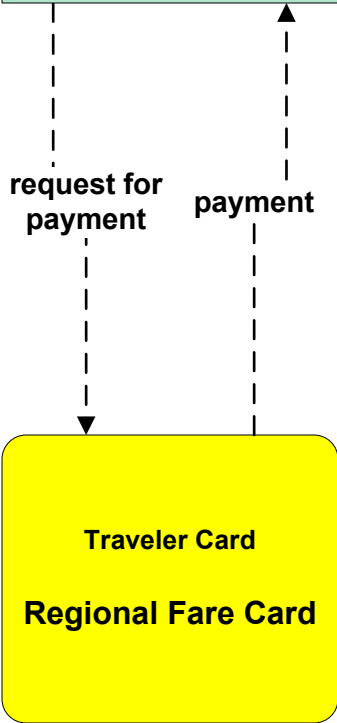
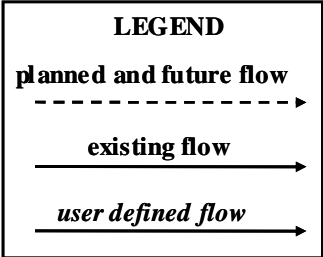
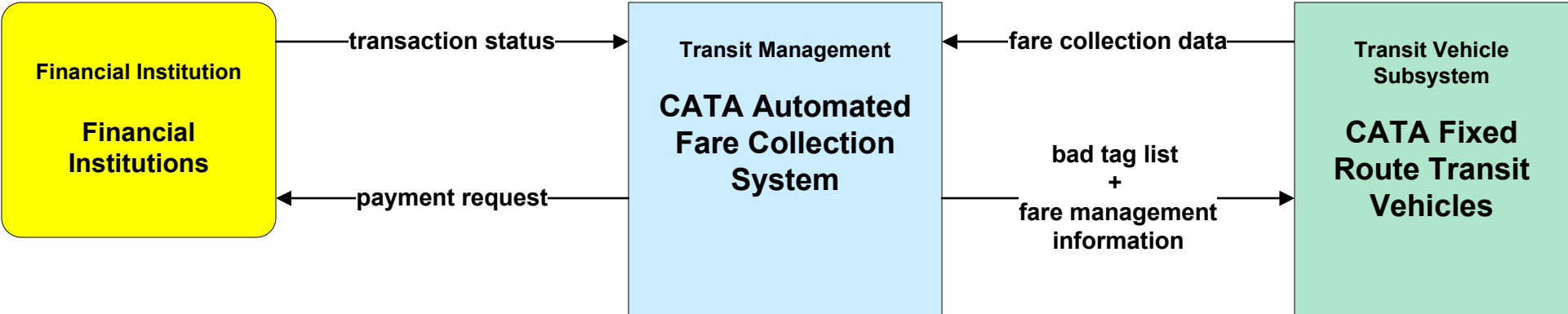
# APTS04 - Transit Passenger and Fare Payment BAT



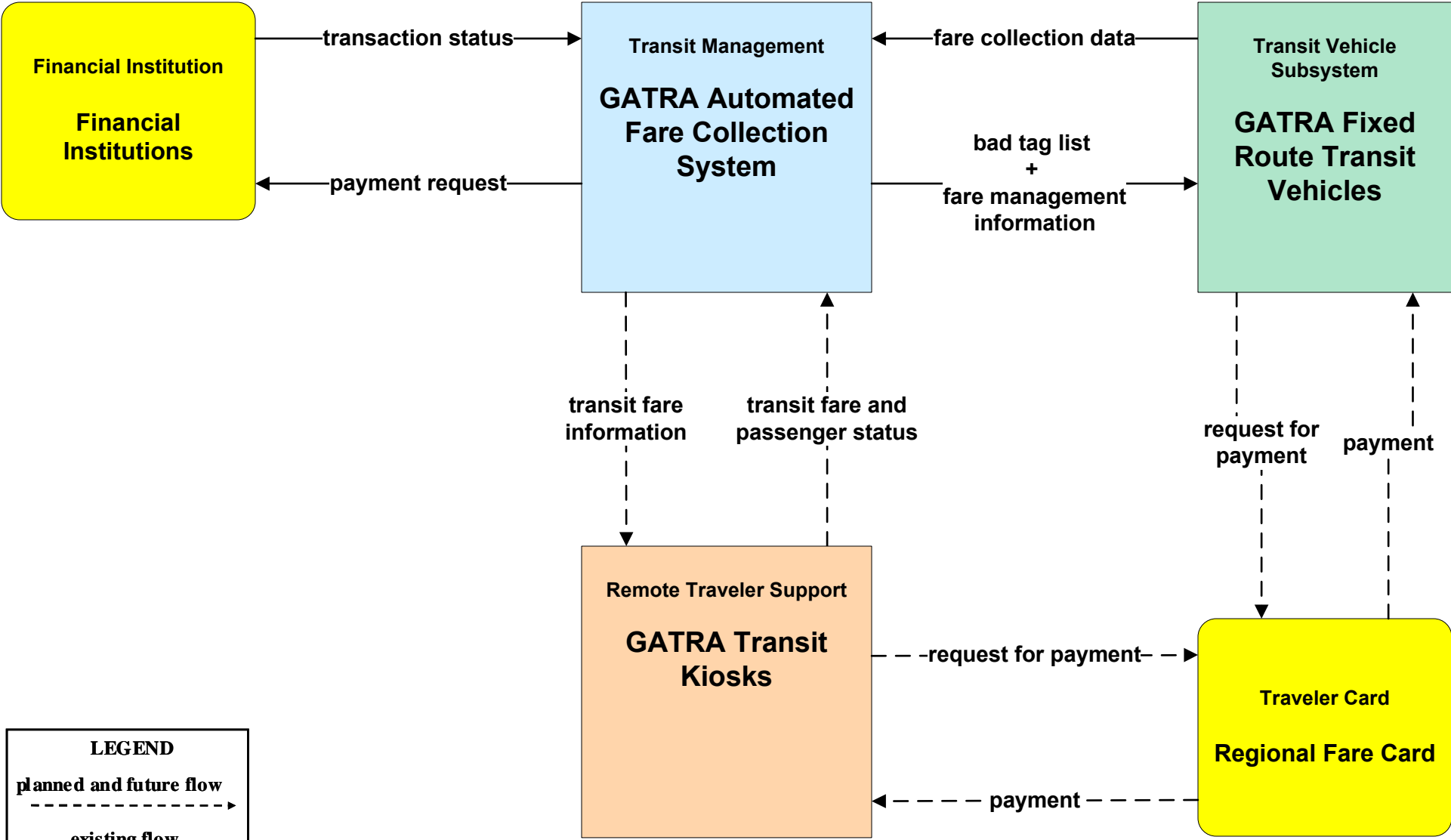
**LEGEND**

- planned and future flow  
- - - - ->
- existing flow  
—————>
- user defined flow  
—————>

# APTS04 - Transit Passenger and Fare Payment CATA



**APTS04 - Transit Passenger and Fare Payment  
GATRA**



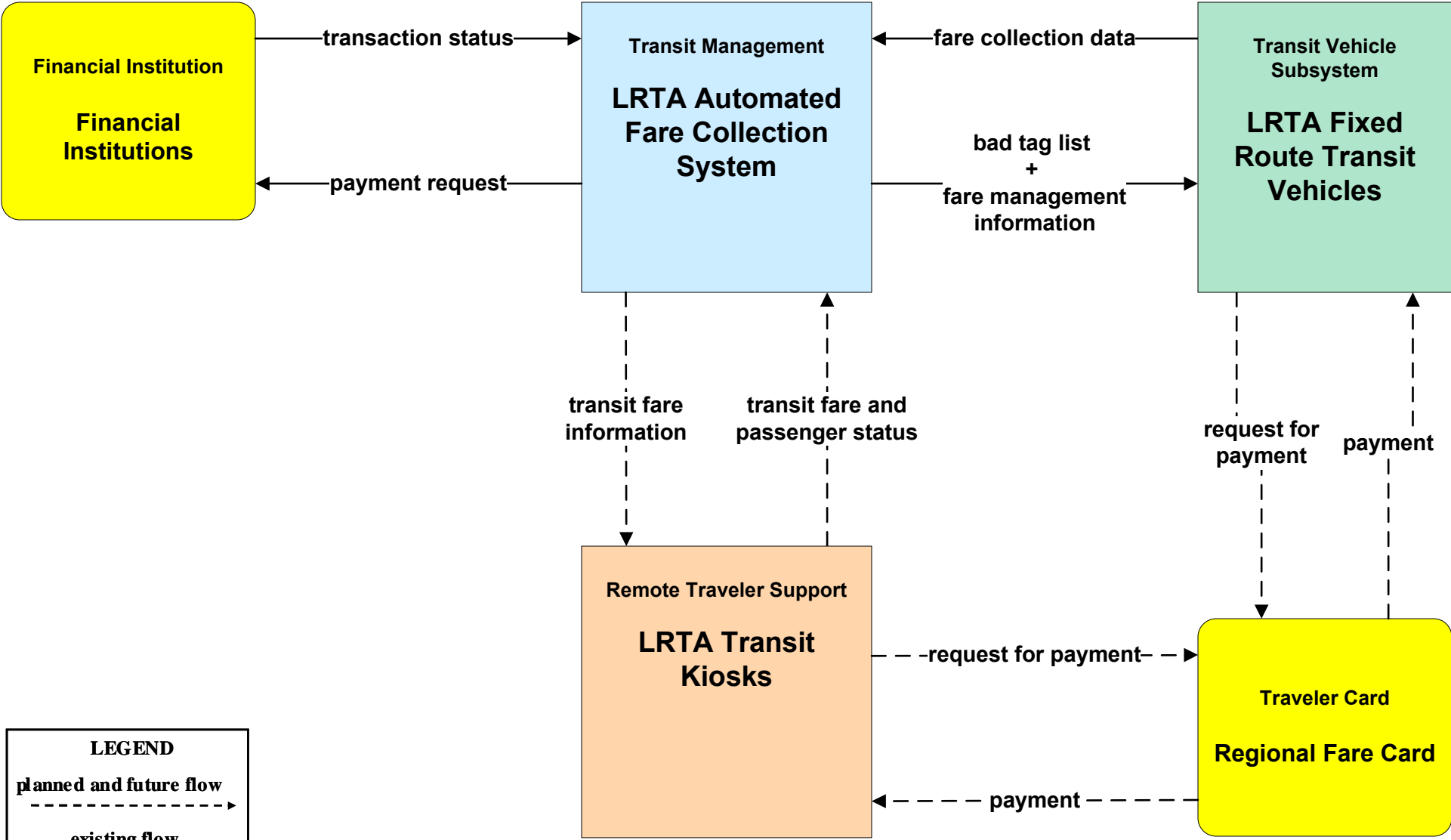
**LEGEND**

planned and future flow  
 ----->

existing flow  
 \_\_\_\_\_>

user defined flow  
 \_\_\_\_\_>

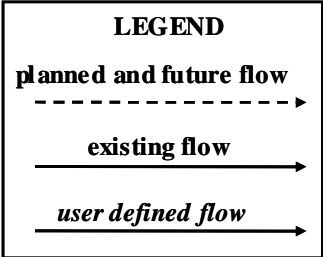
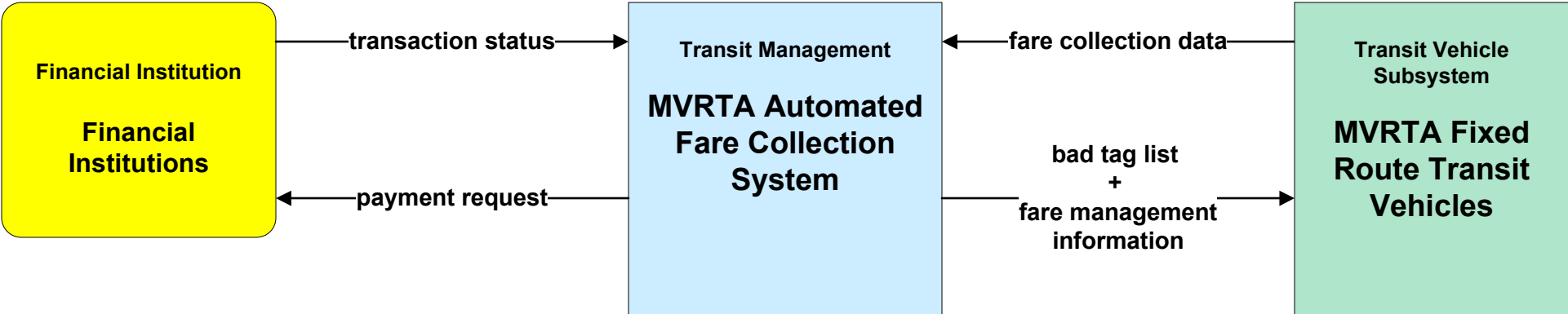
# APTS04 - Transit Passenger and Fare Payment LRTA



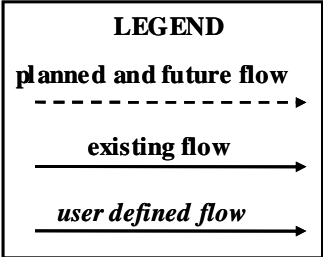
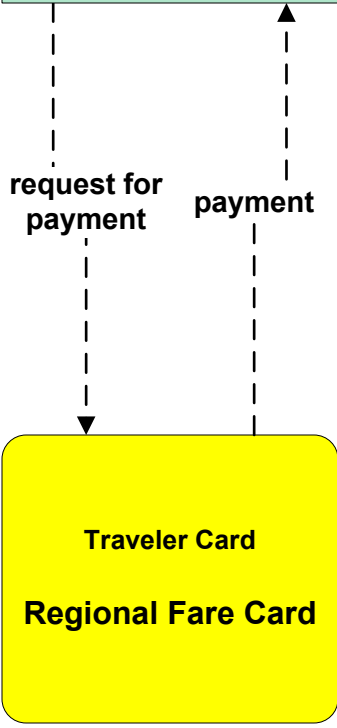
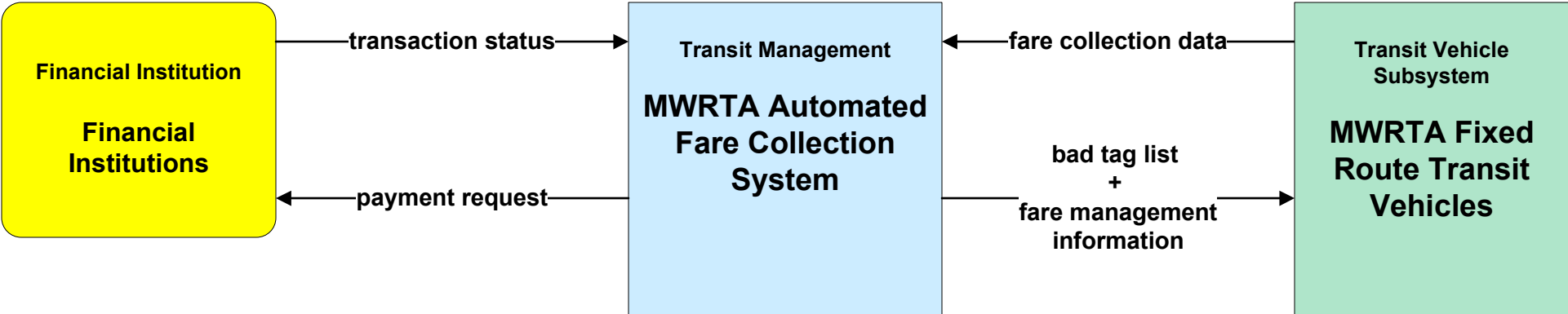
**LEGEND**

- planned and future flow  
- - - - ->
- existing flow  
—————>
- user defined flow  
—————>

**APTS04 - Transit Passenger and Fare Payment  
MVRTA**

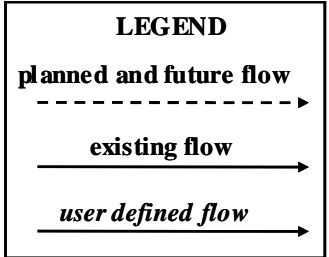
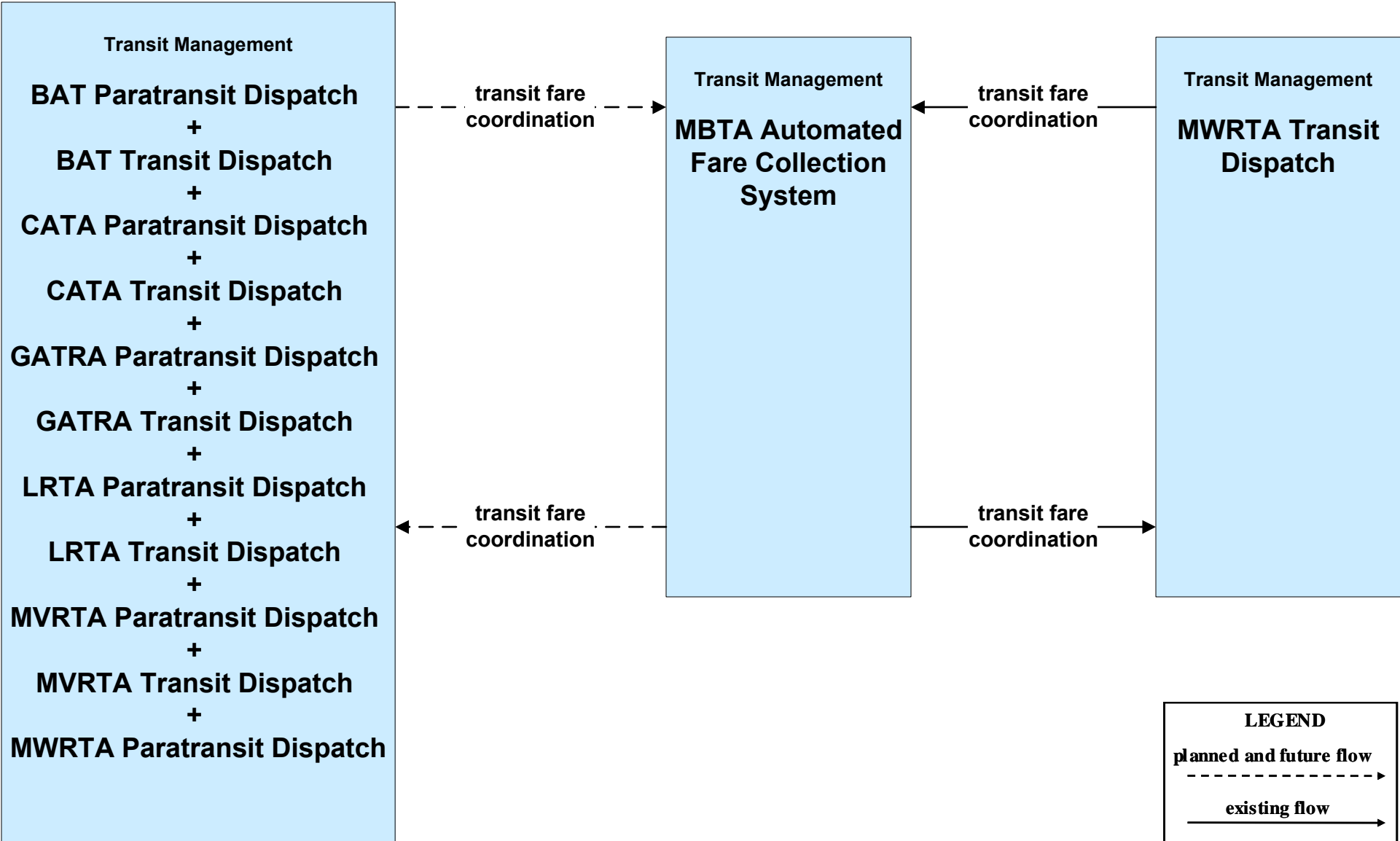


**APTS04 - Transit Passenger and Fare Payment  
MWRTA**

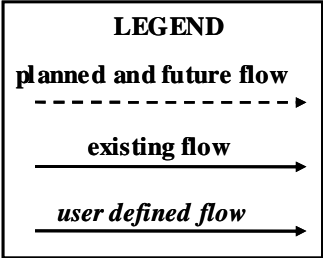
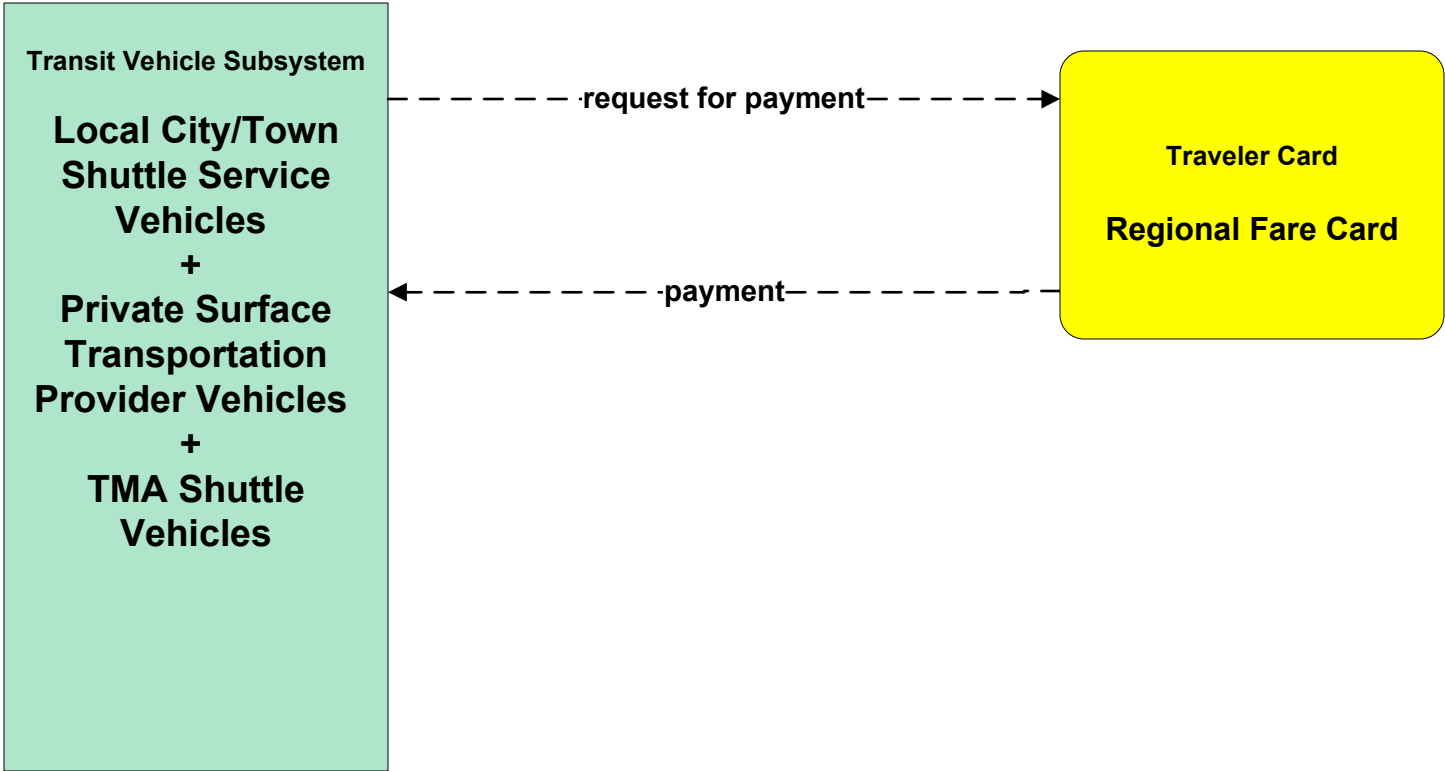




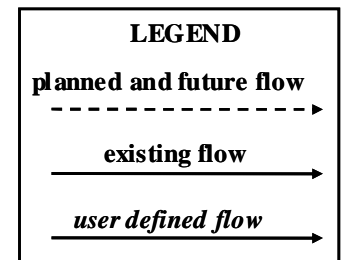
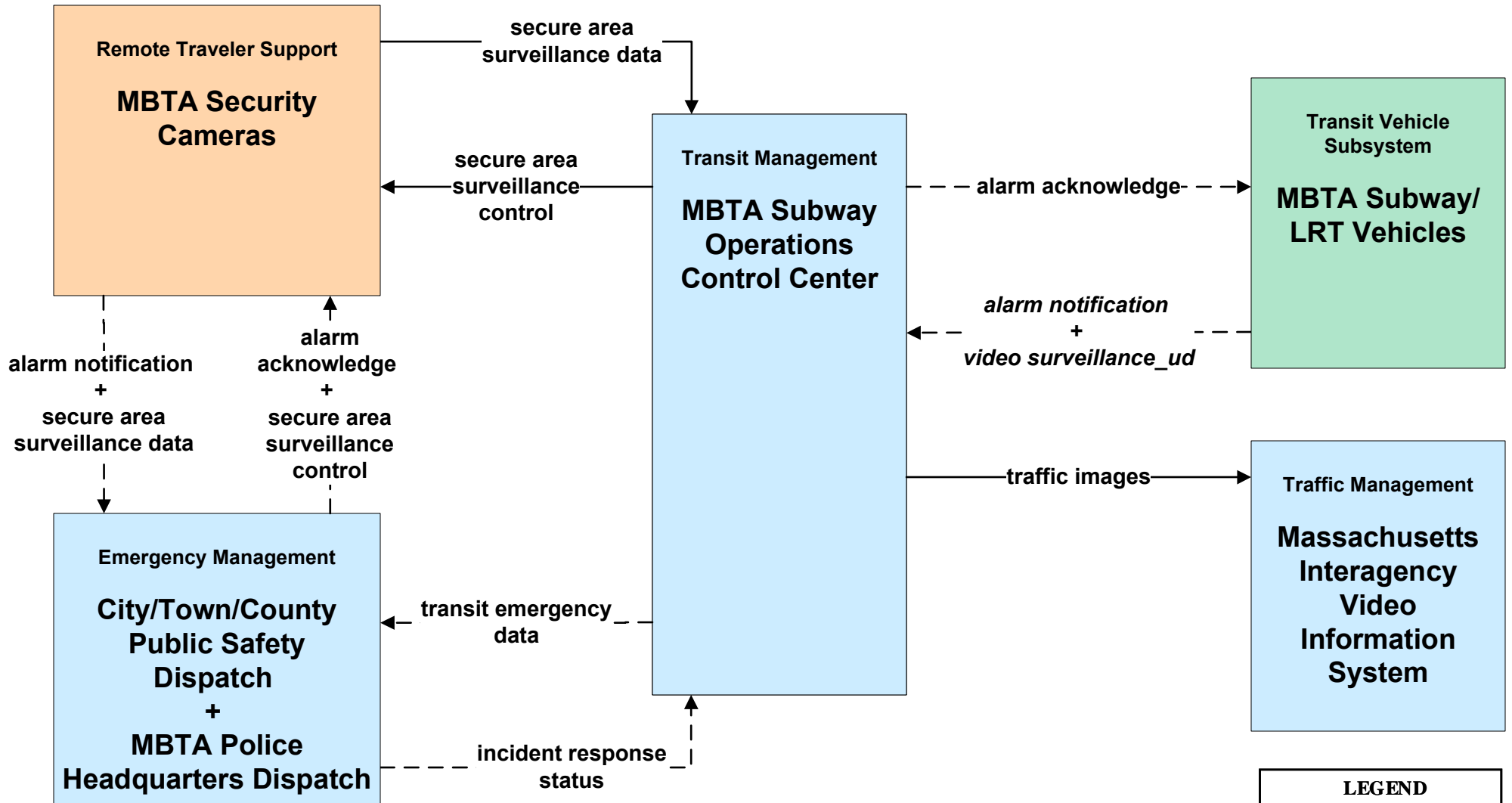
**APTS04 - Transit Passenger and Fare Payment  
MBTA**



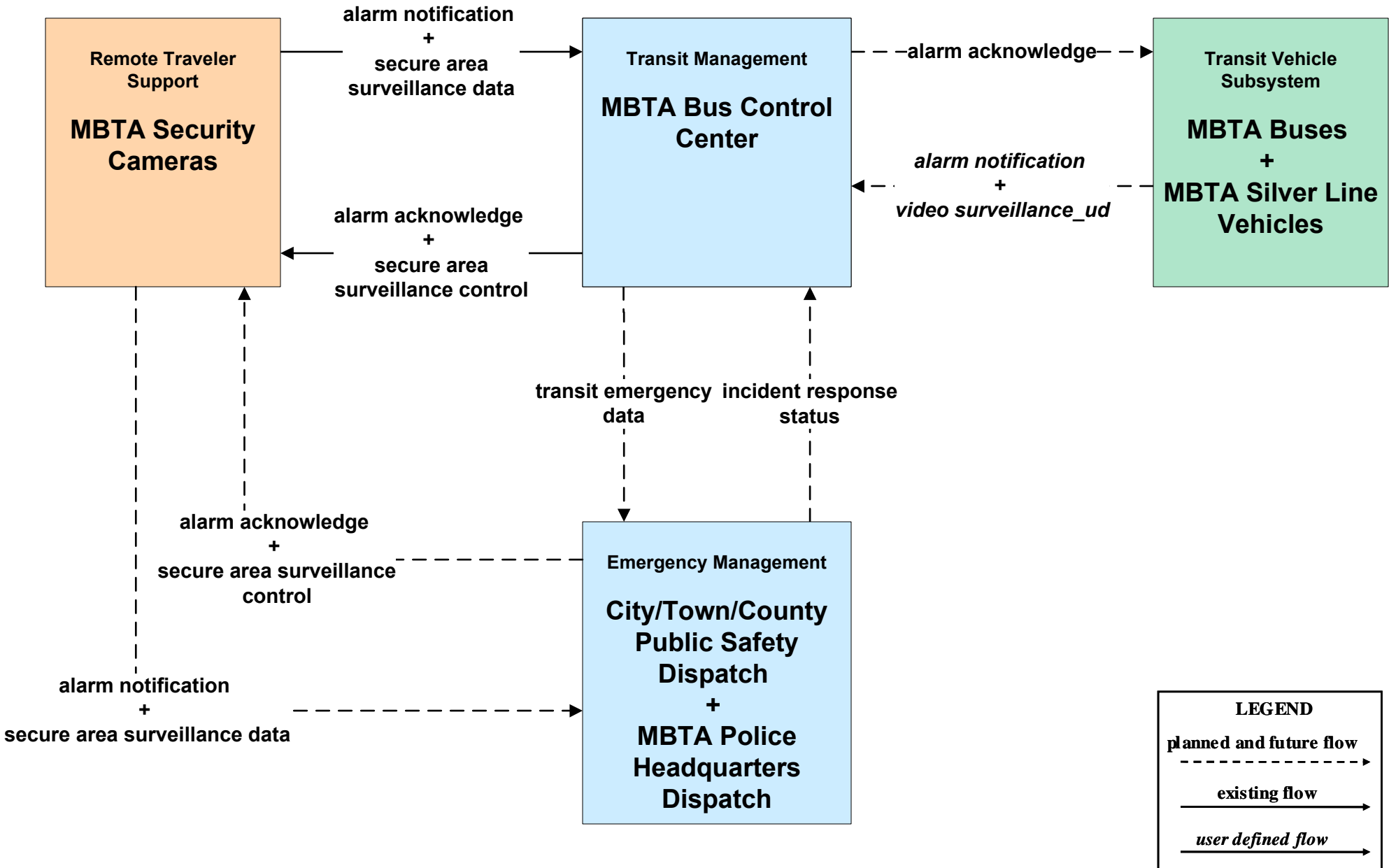
**APTS04 - Transit Passenger and Fare Payment  
Other Transit**



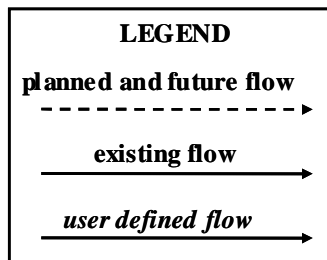
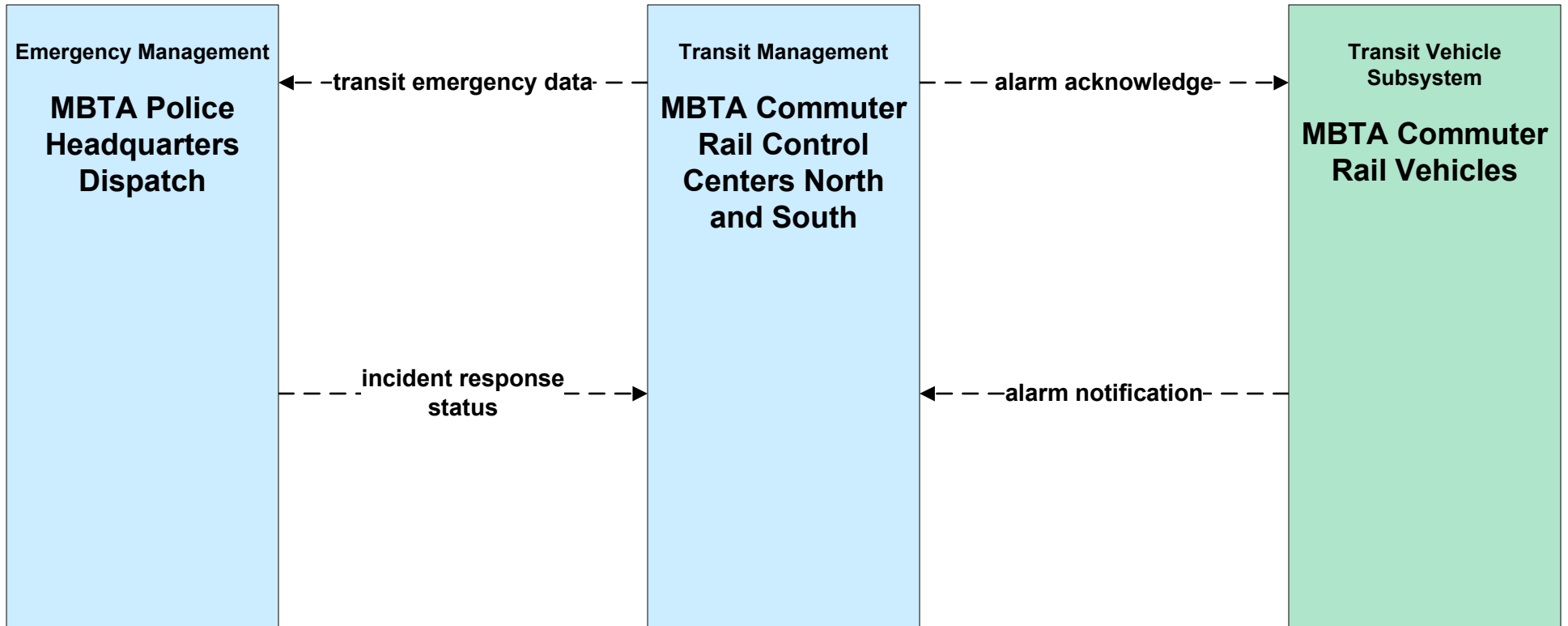
**APTS05 - Transit Security  
MBTA Subway**



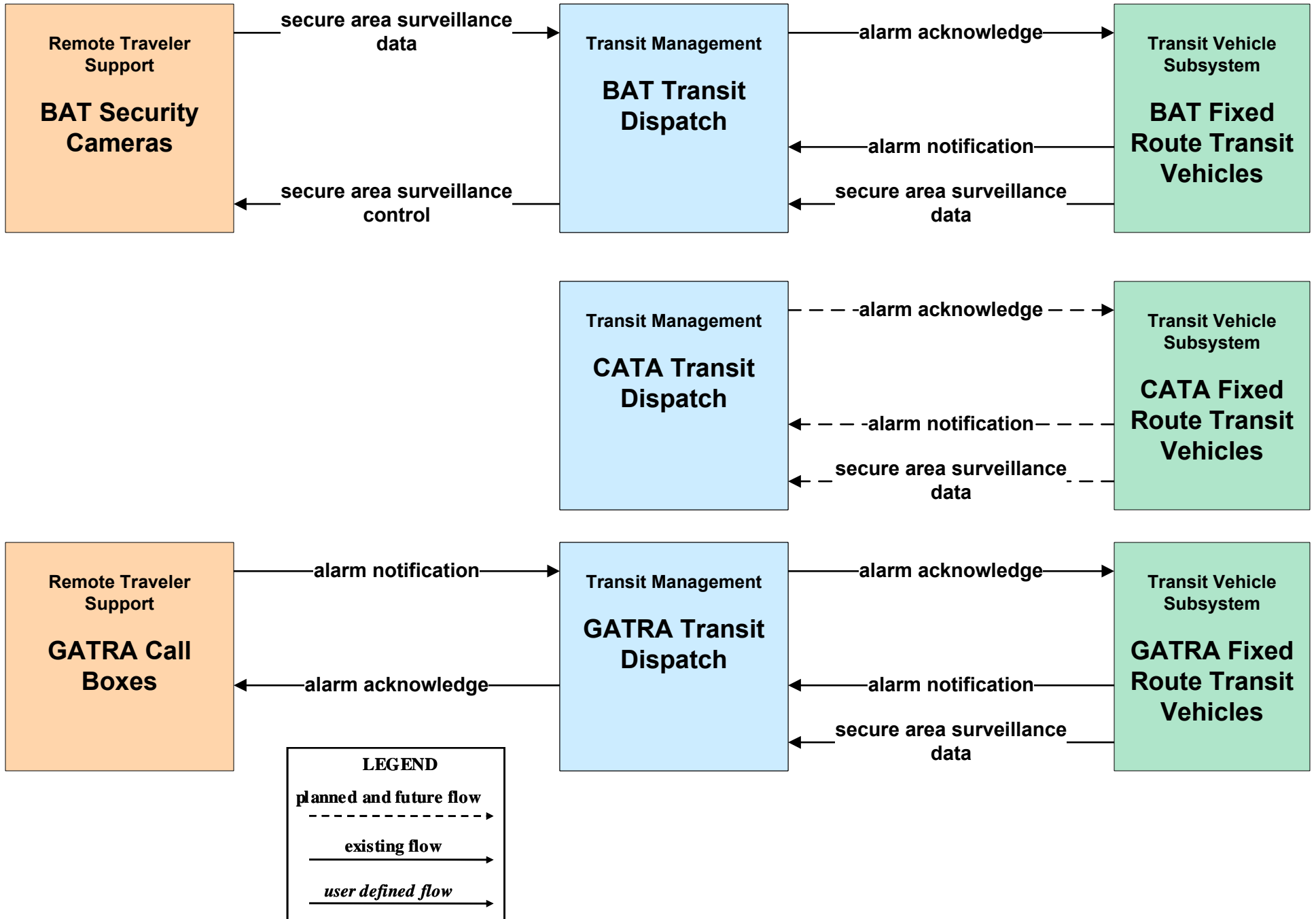
**APTS05 - Transit Security  
MBTA Bus**



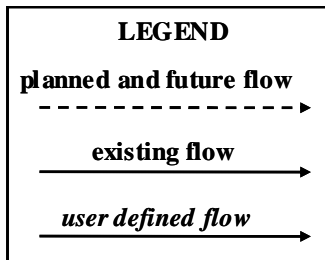
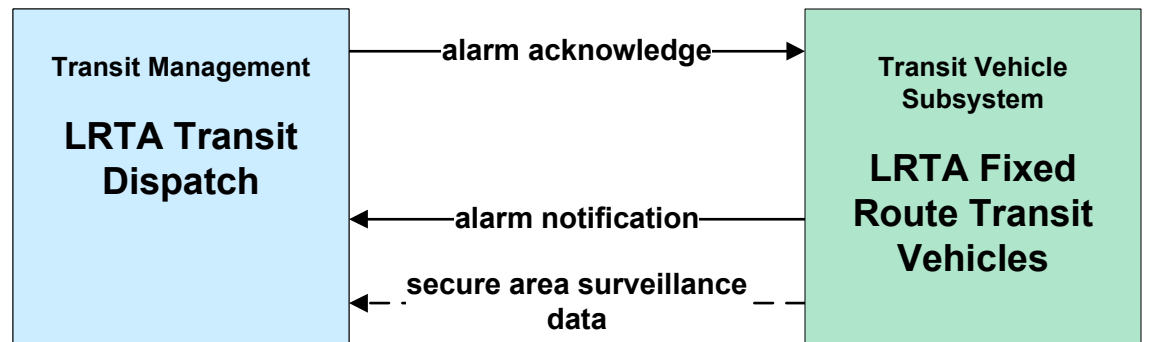
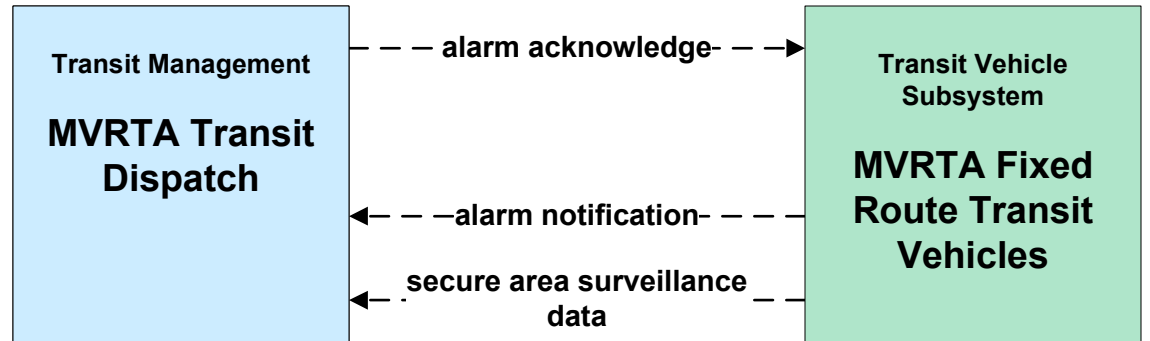
**APTS05 - Transit Security  
MBTA Commuter Rail**



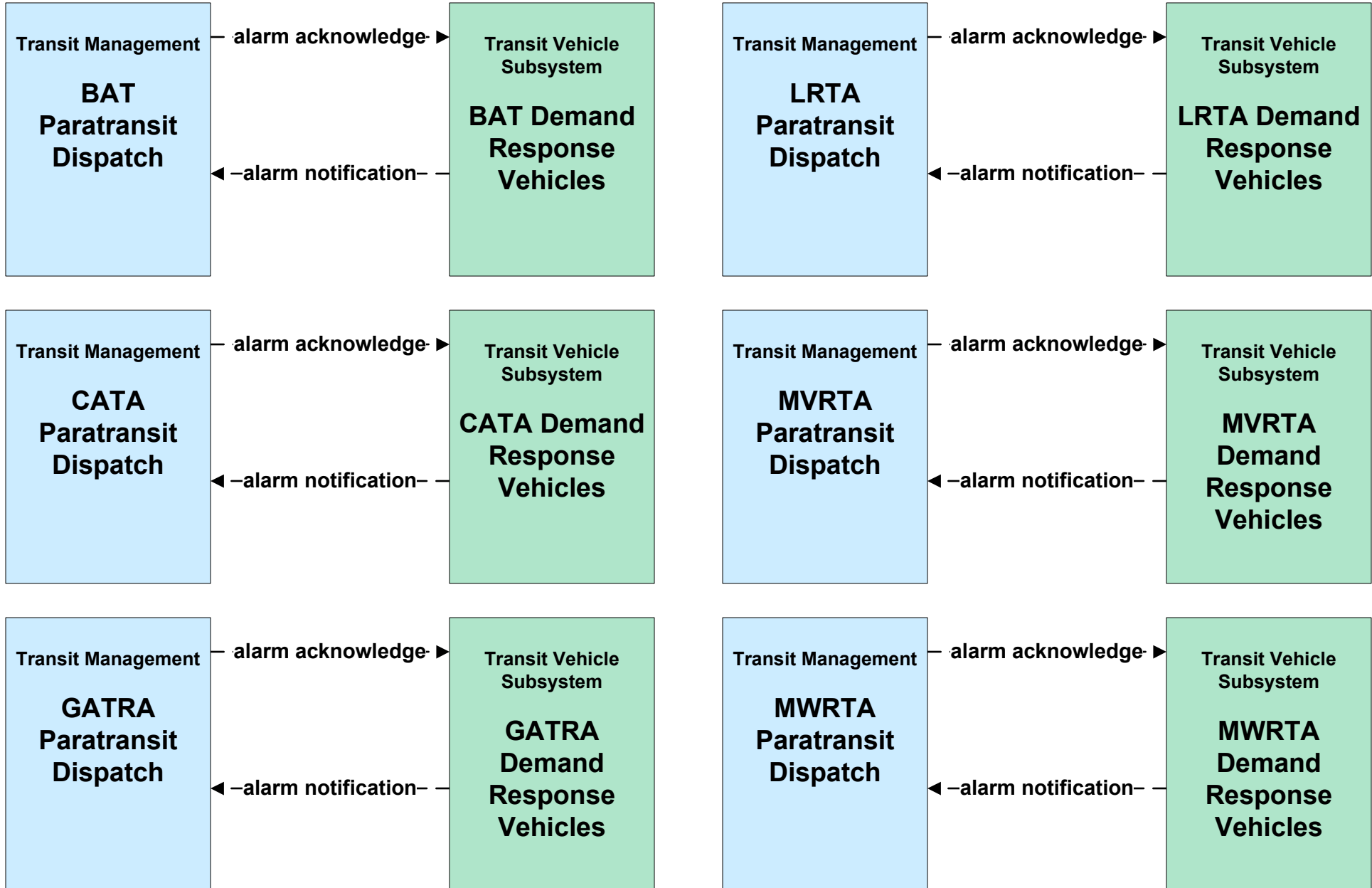
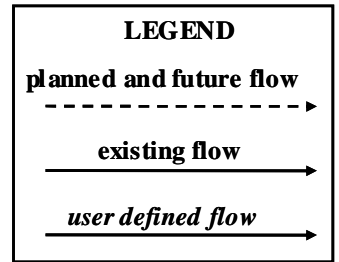
# APTS05 - Transit Security RTA (1 of 2)



**APTS05 - Transit Security  
RTA (2 of 2)**

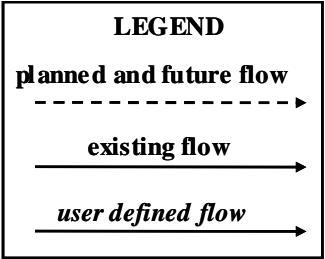
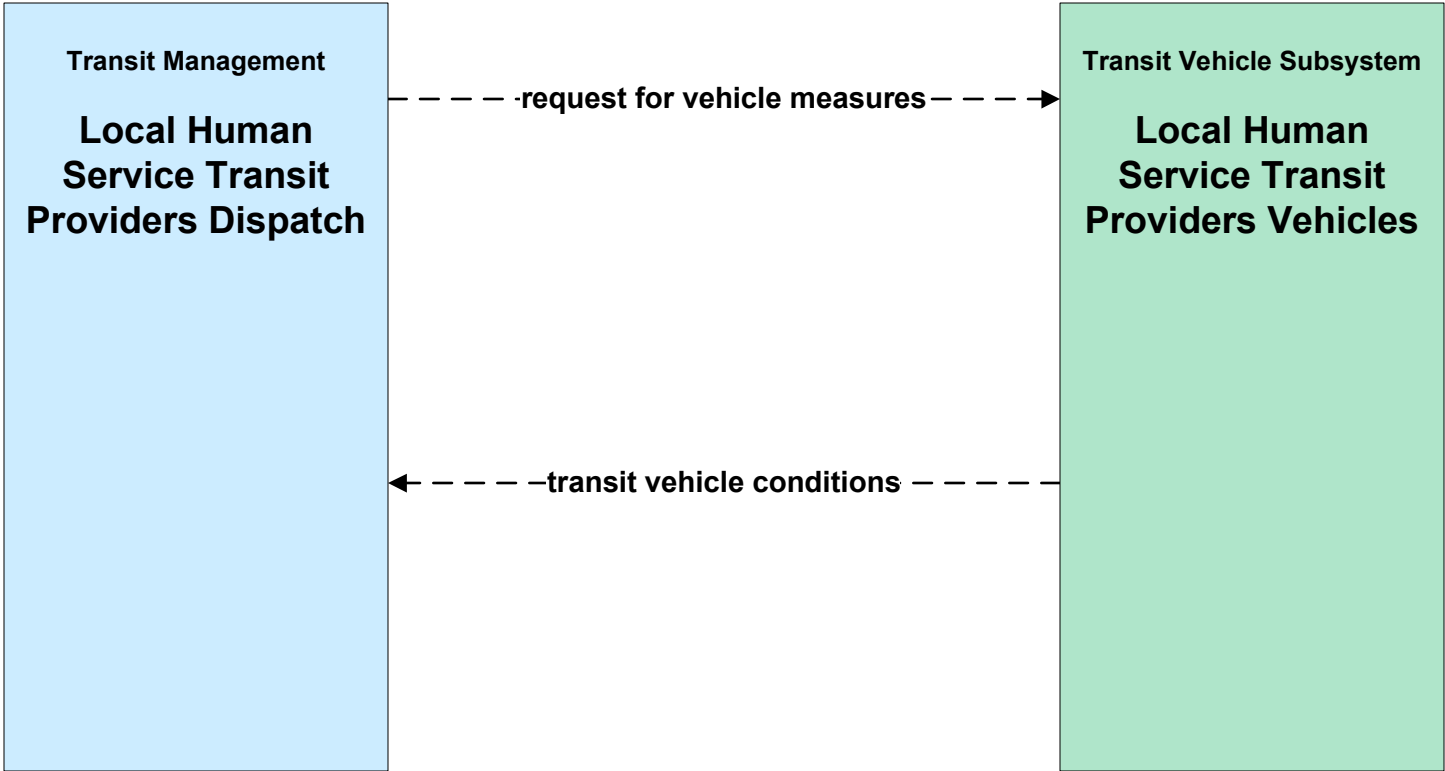


**APTS05 - Transit Security  
RTA Paratransit**

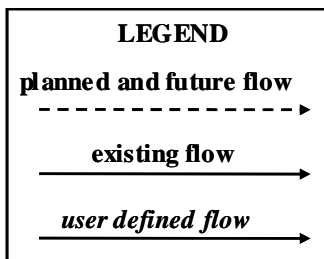
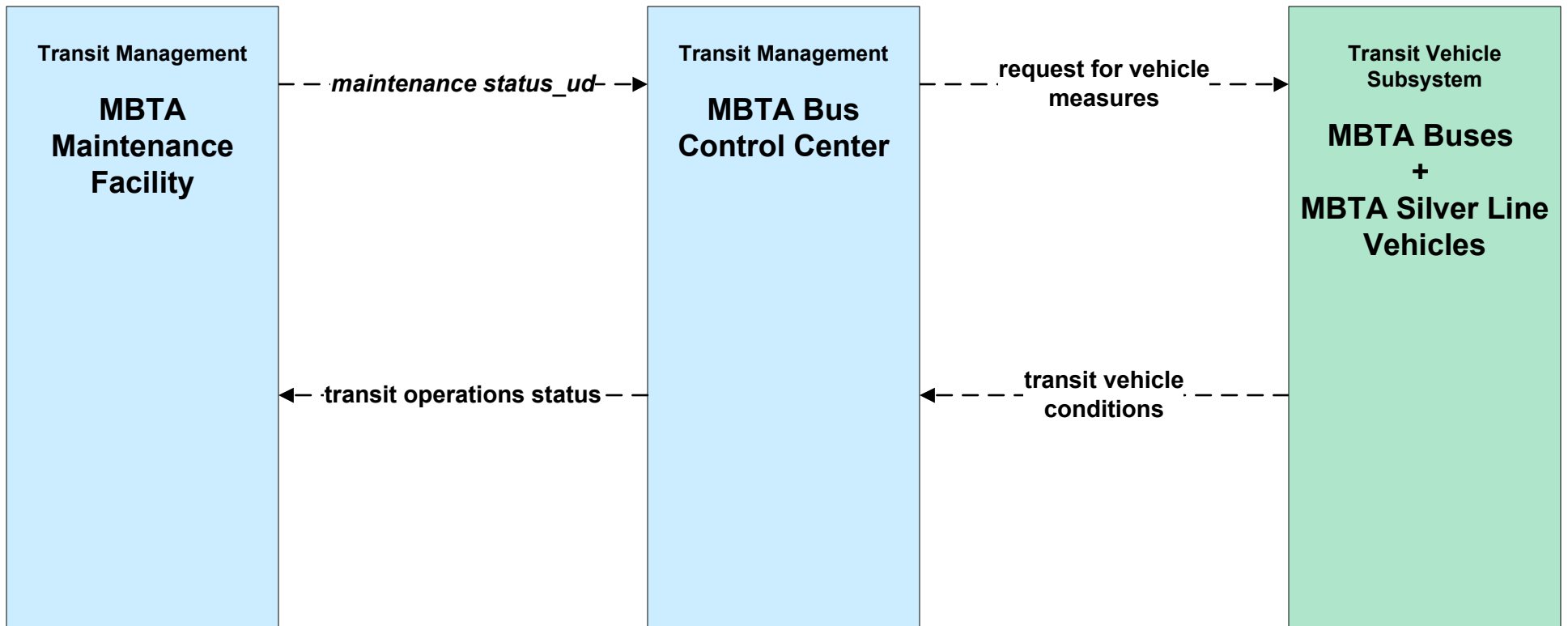




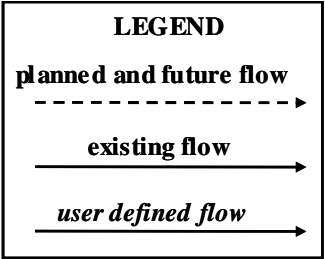
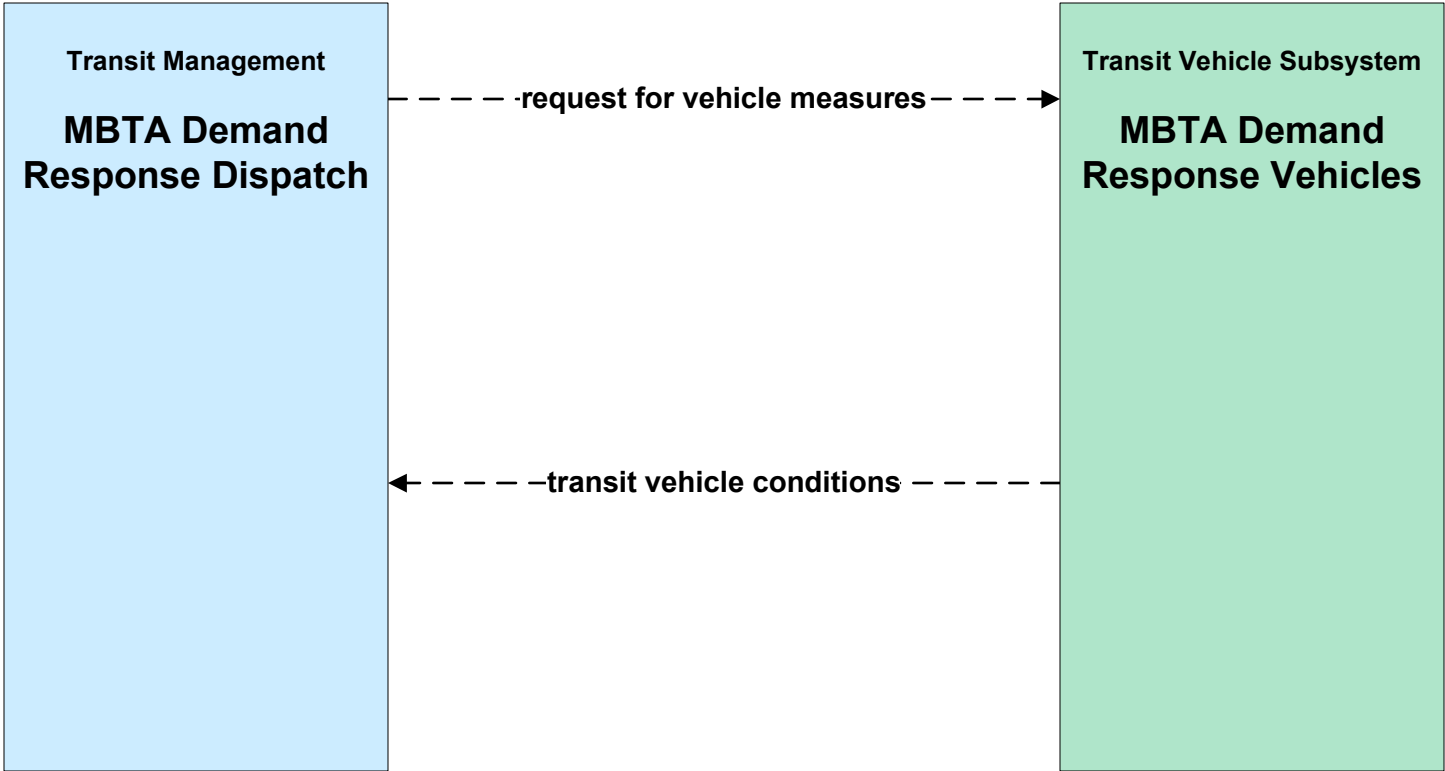
**APTS06 - Transit Vehicle Maintenance  
Local Human Service Transit**



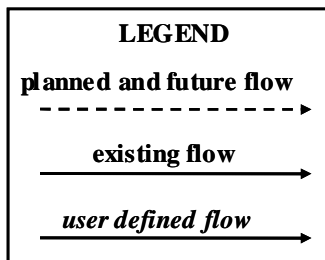
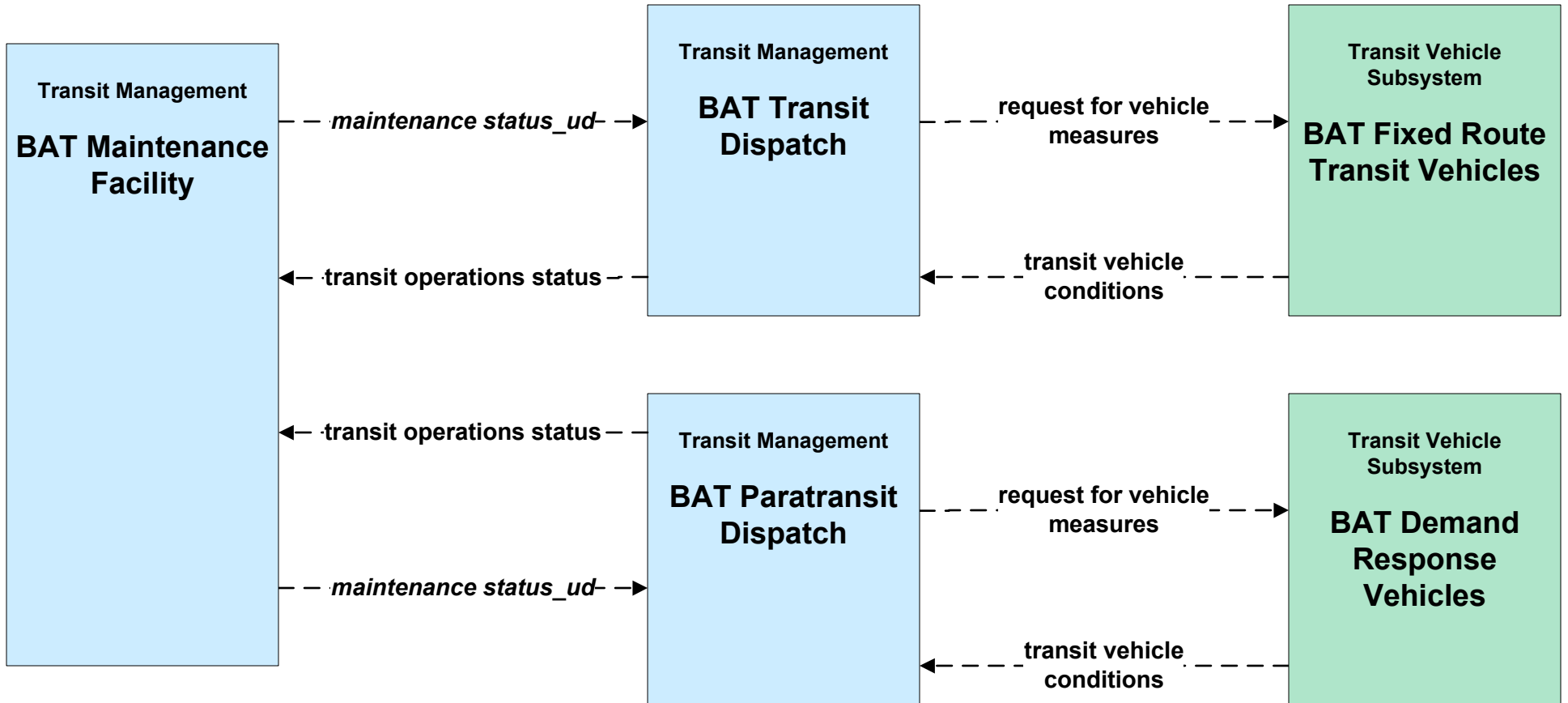
**APTS06 - Transit Vehicle Maintenance  
MBTA Bus**



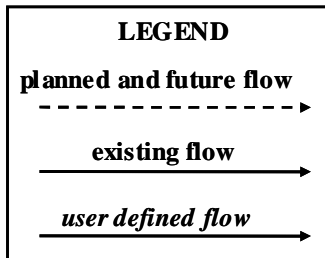
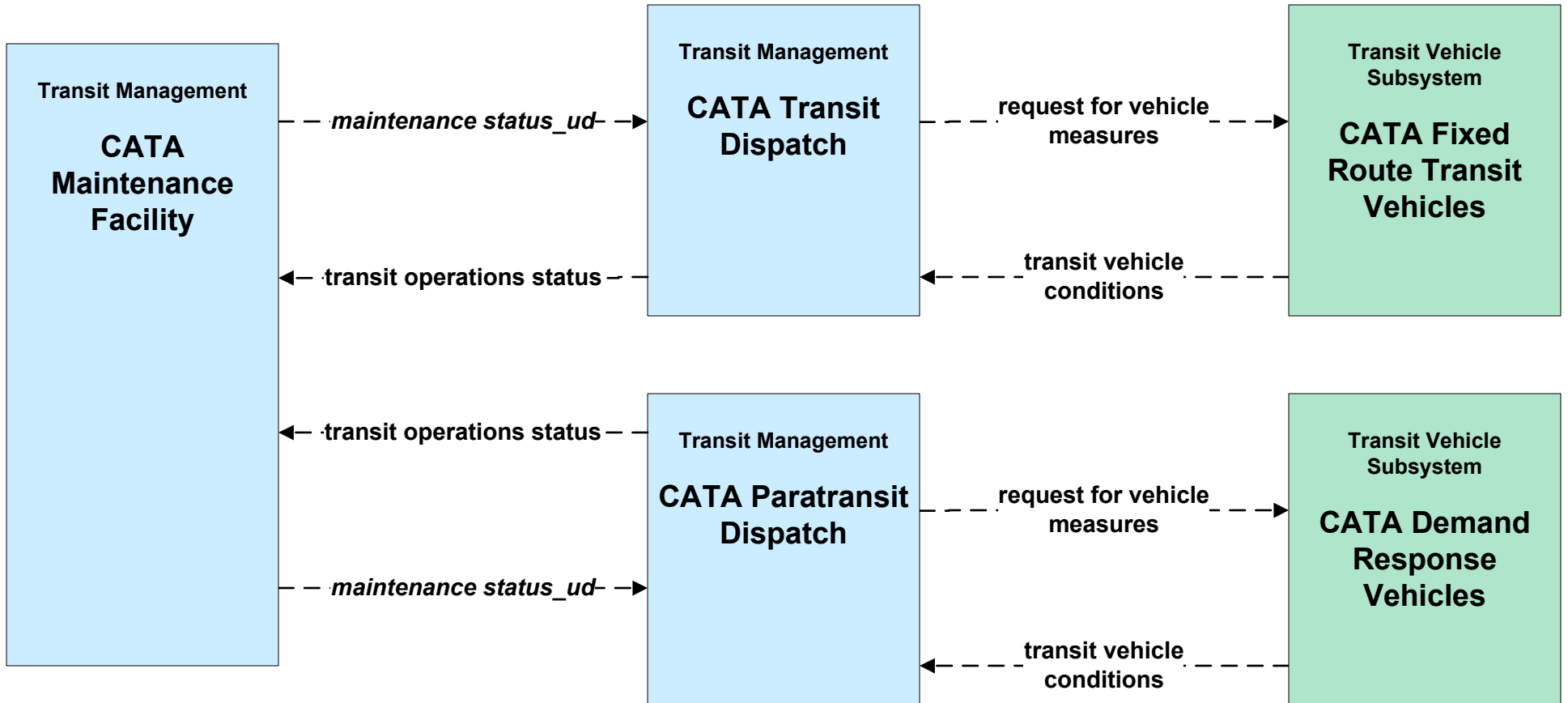
**APTS06 - Transit Vehicle Maintenance  
MBTA Demand Response**



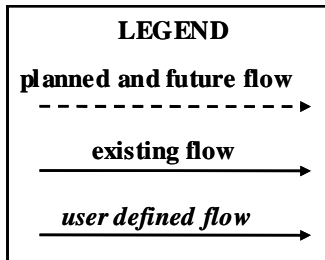
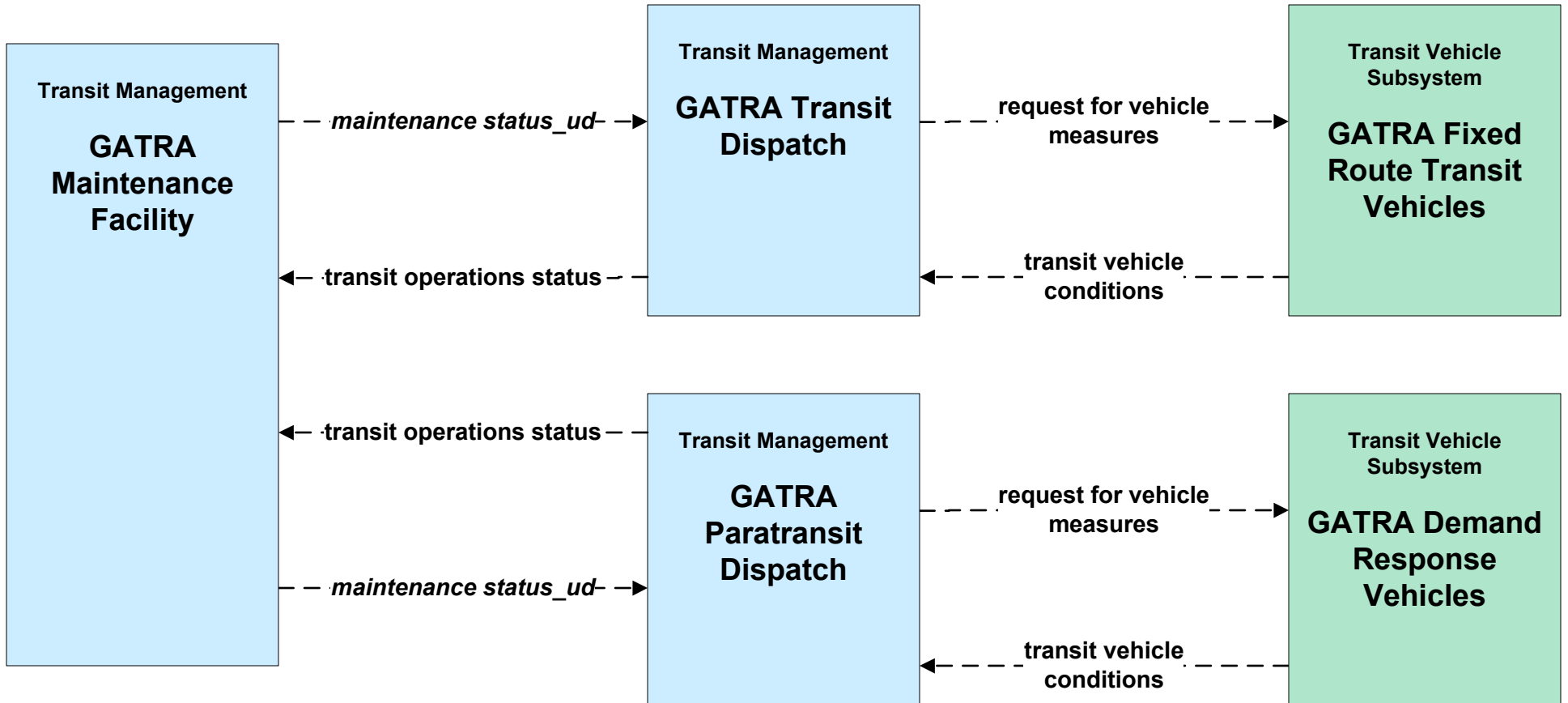
# APTS06 - Transit Vehicle Maintenance BAT



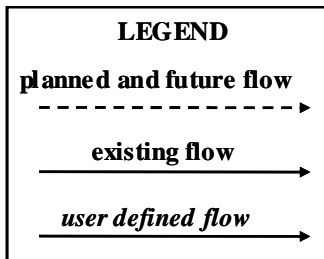
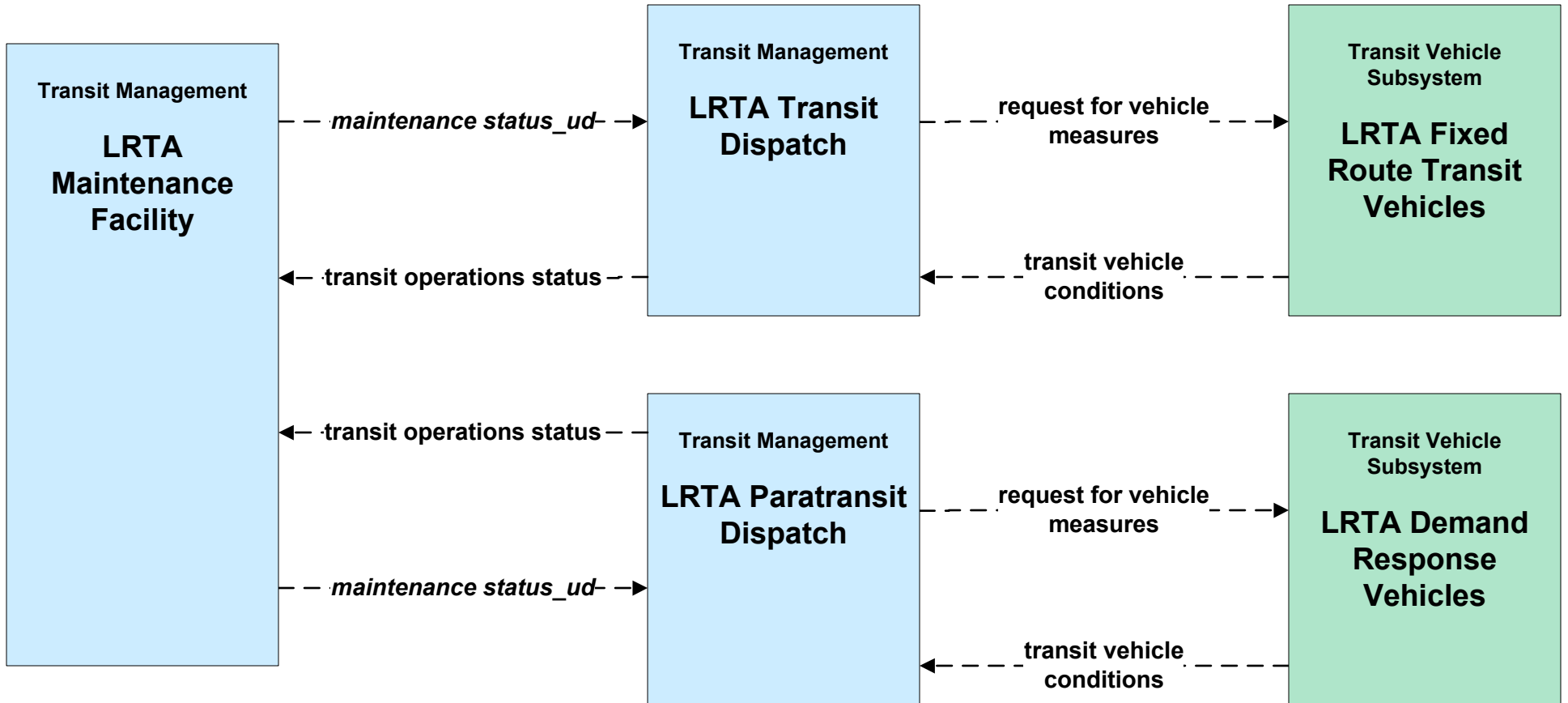
**APTS06 - Transit Vehicle Maintenance  
CATA**



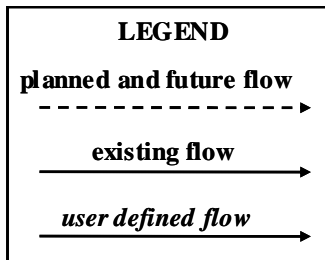
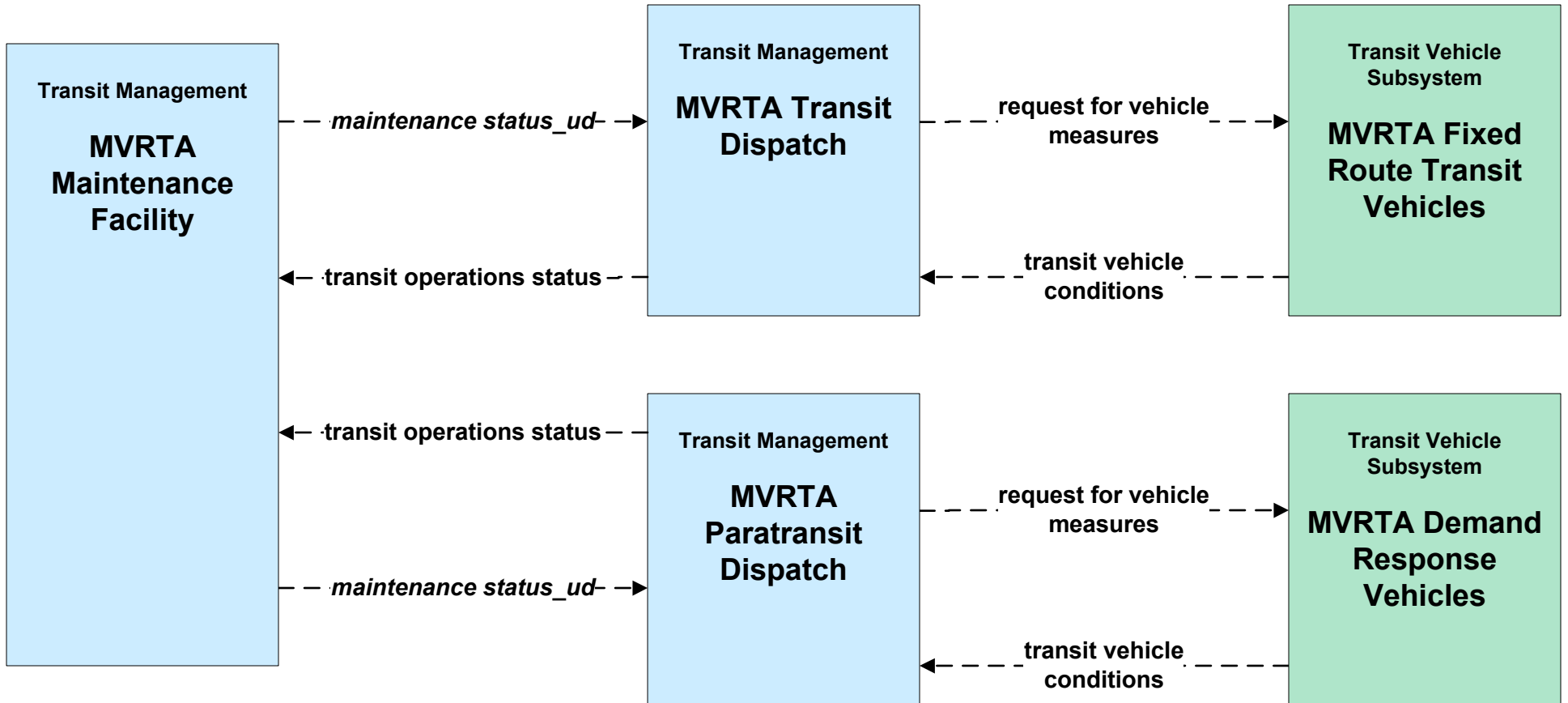
# APTS06 - Transit Vehicle Maintenance GATRA



**APTS06 - Transit Vehicle Maintenance  
LRTA**

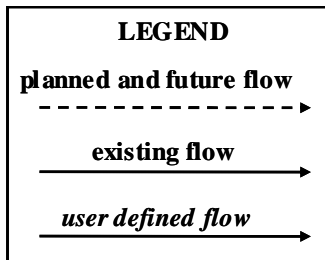
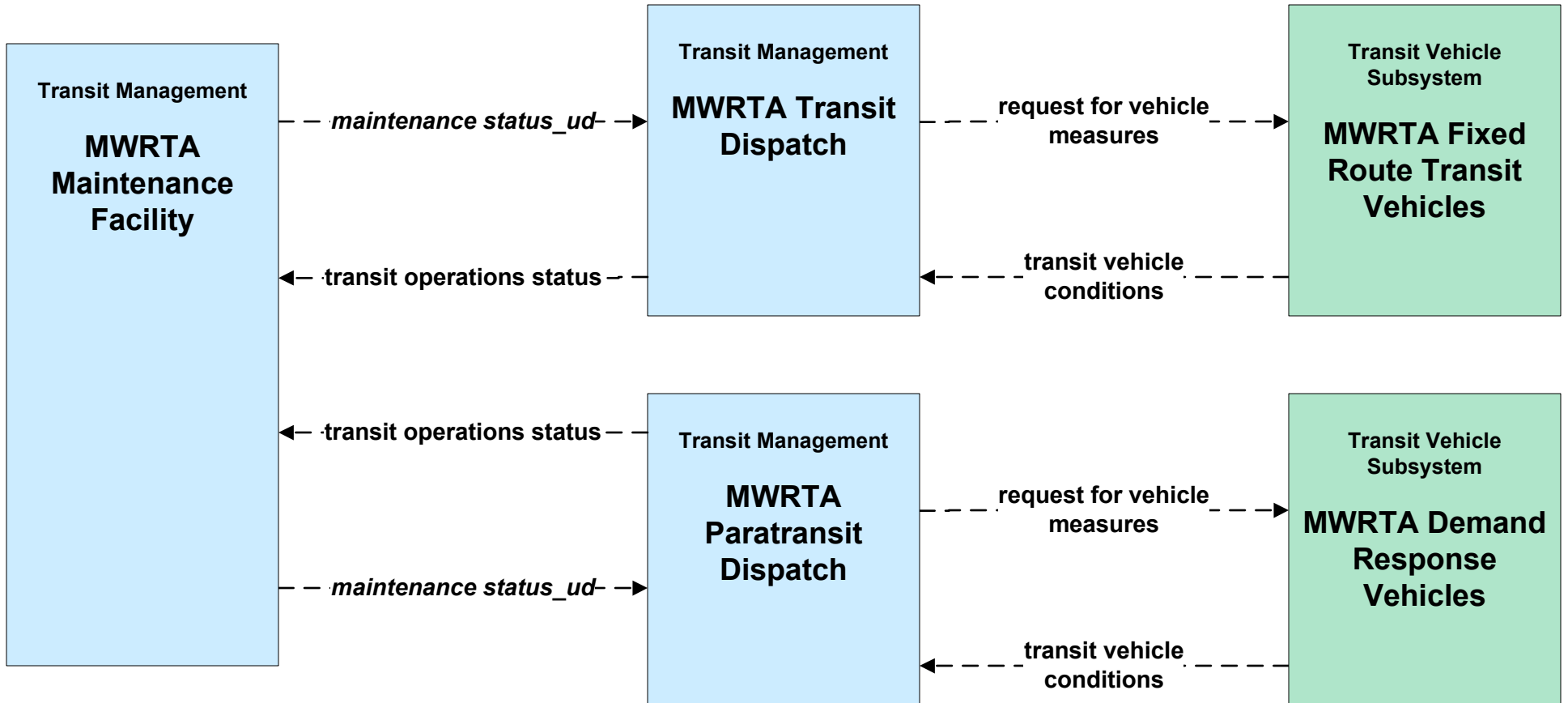


**APTS06 - Transit Vehicle Maintenance  
MVRTA**

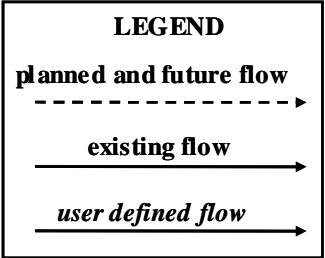
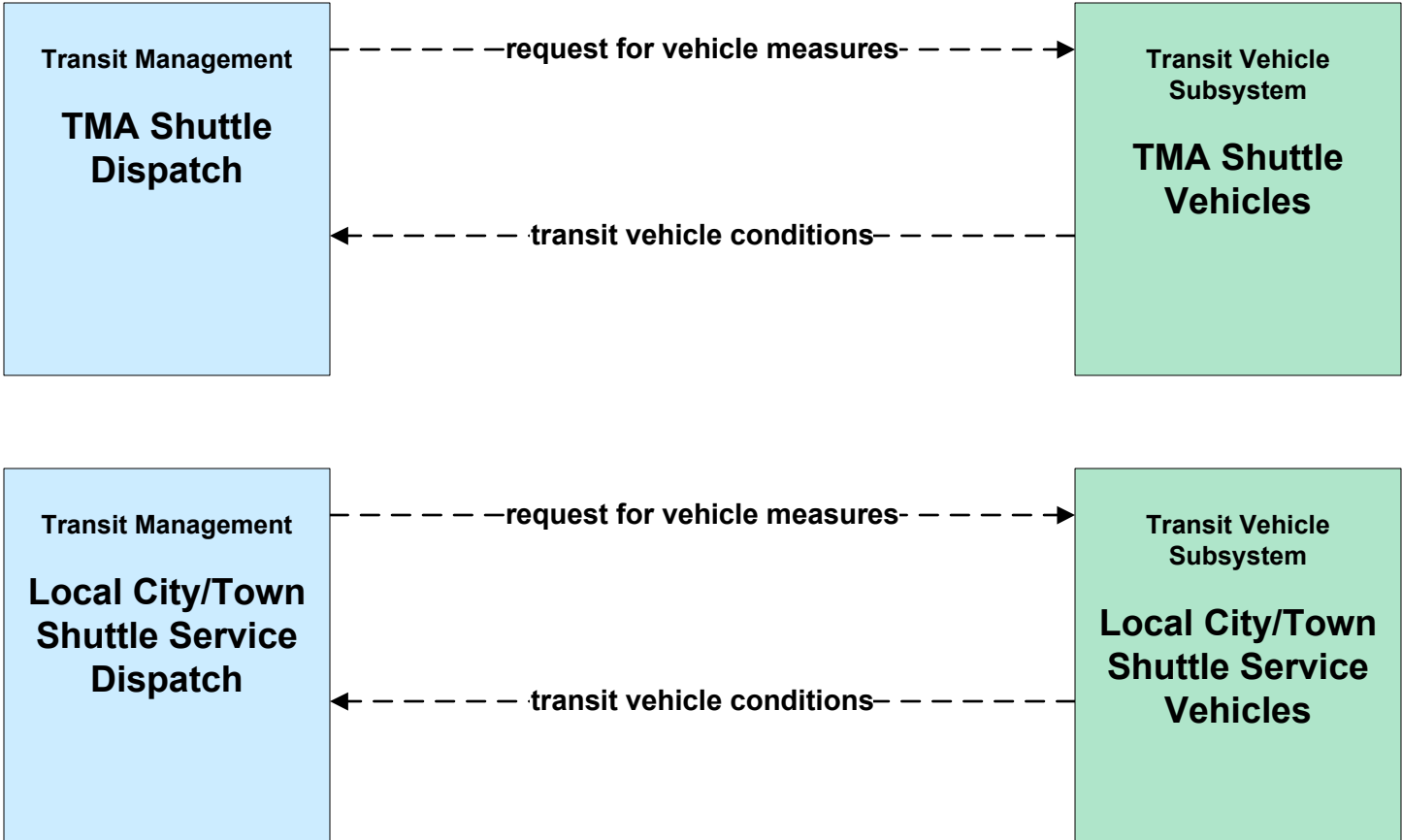




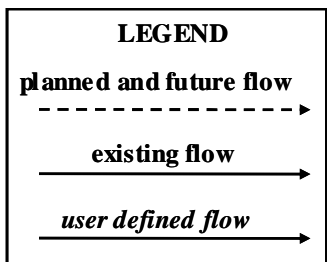
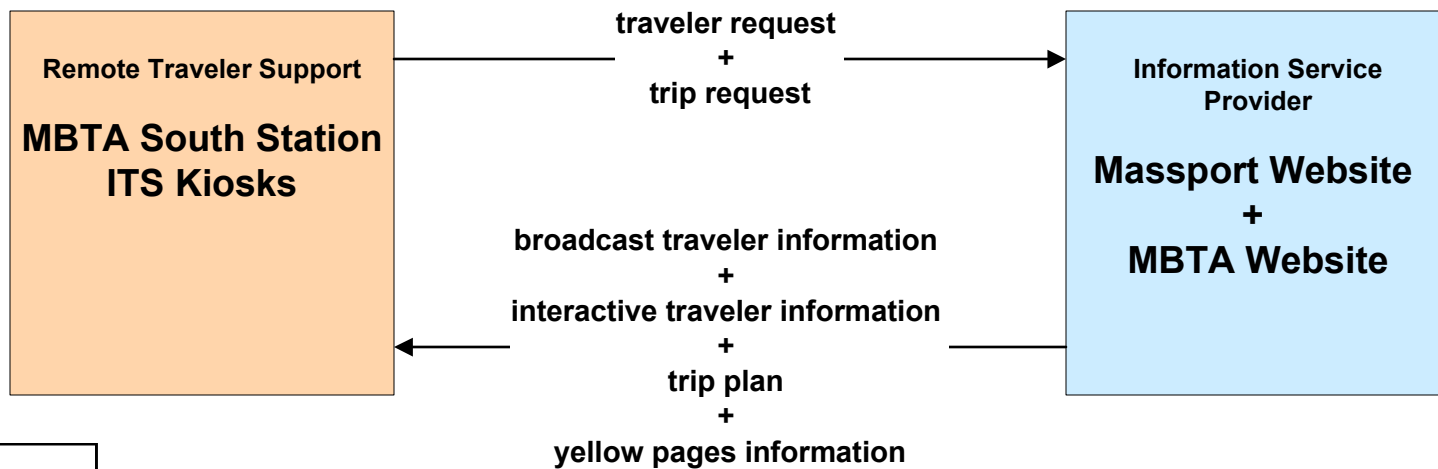
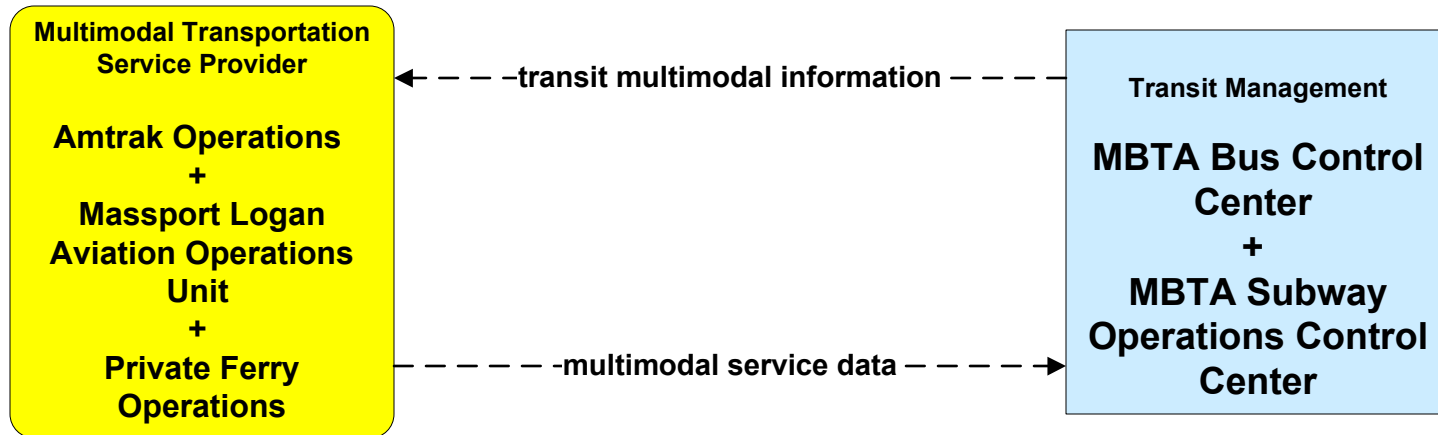
**APTS06 - Transit Vehicle Maintenance  
MWRTA**



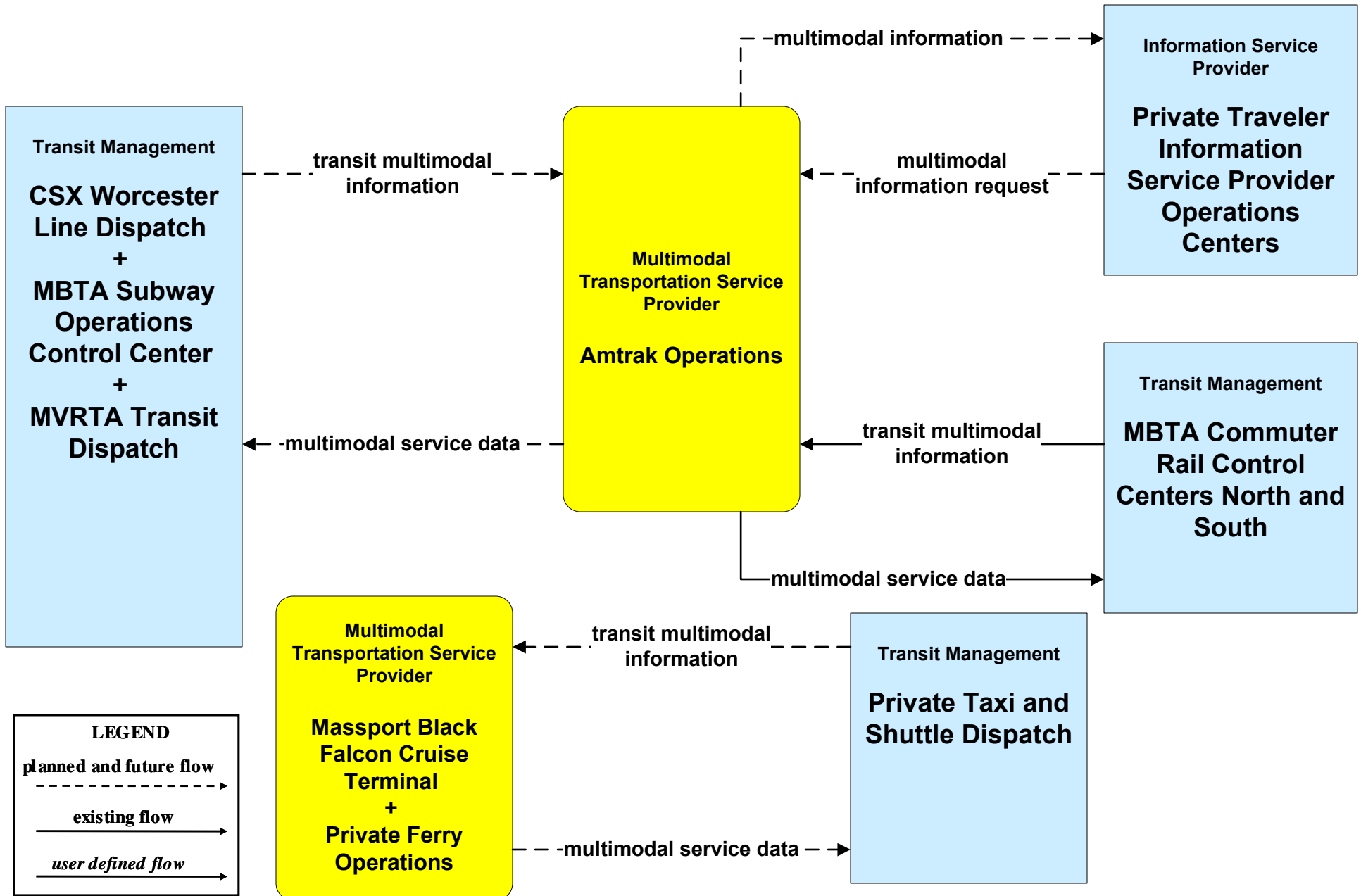
**APTS06 - Transit Vehicle Maintenance  
TMA and Local Cities/Towns Shuttles**



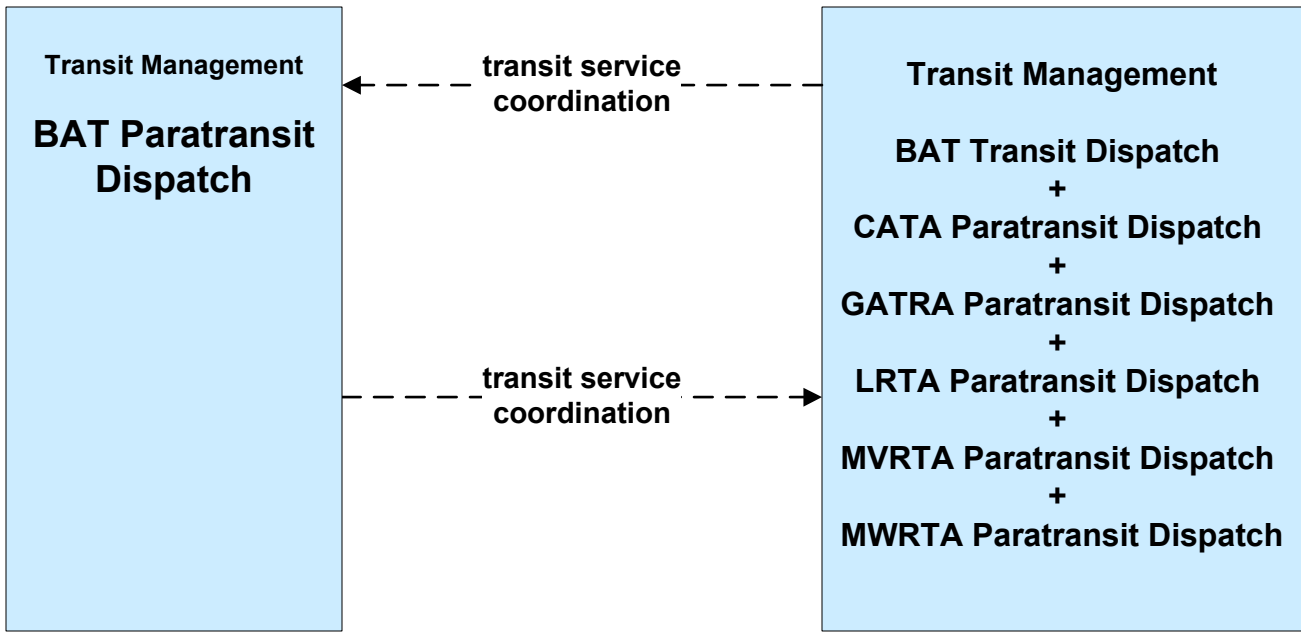
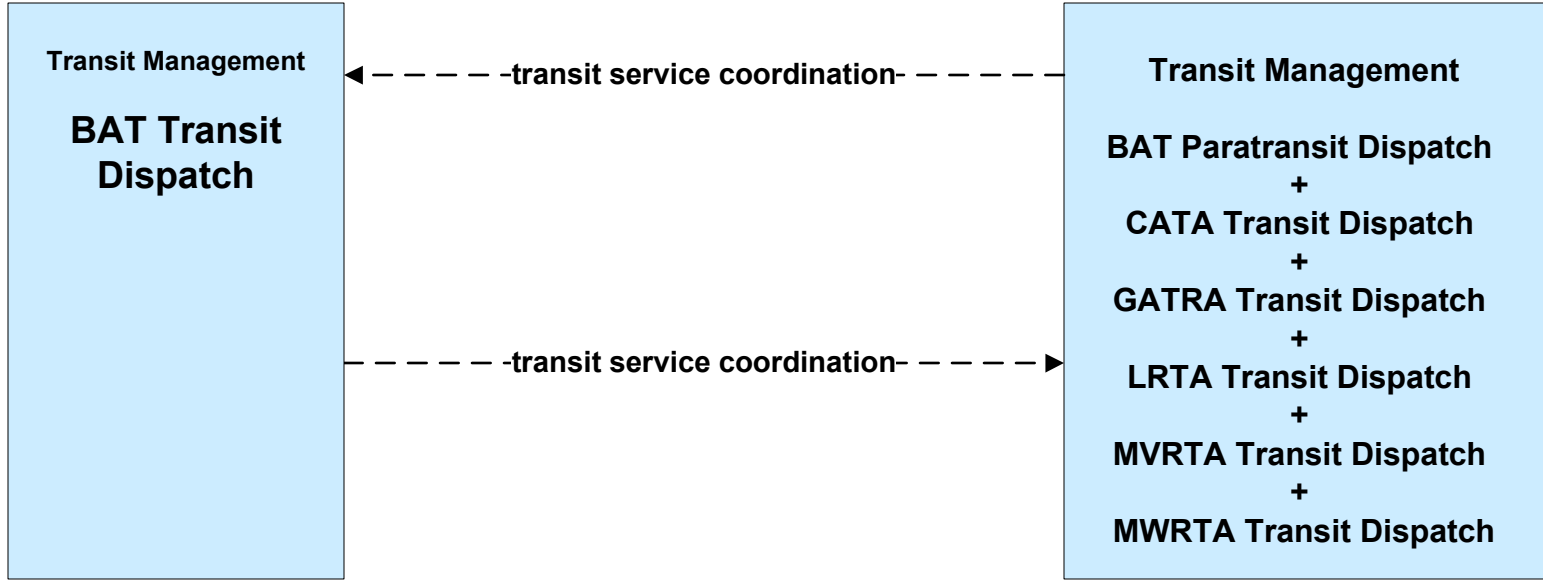
**APTS07 - Multimodal Coordination**  
**Remote Traveler Support and Multimodal Transportation Service Providers (1 of 2)**



**APTS07 - Multimodal Coordination**  
**Remote Traveler Support and Multimodal Transportation Service Providers (2 of 2)**



**APTS07 - Multimodal Coordination  
BAT**



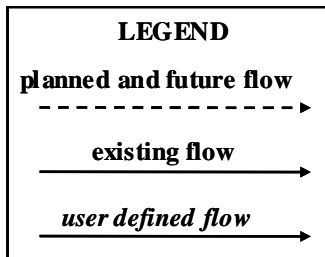
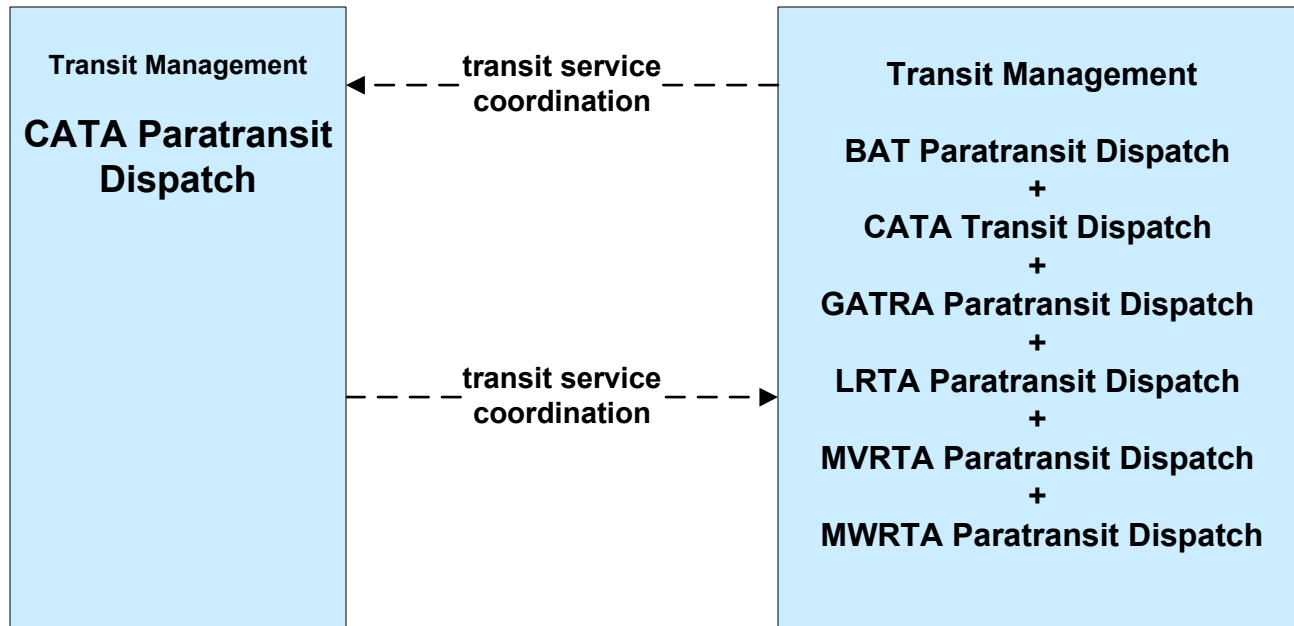
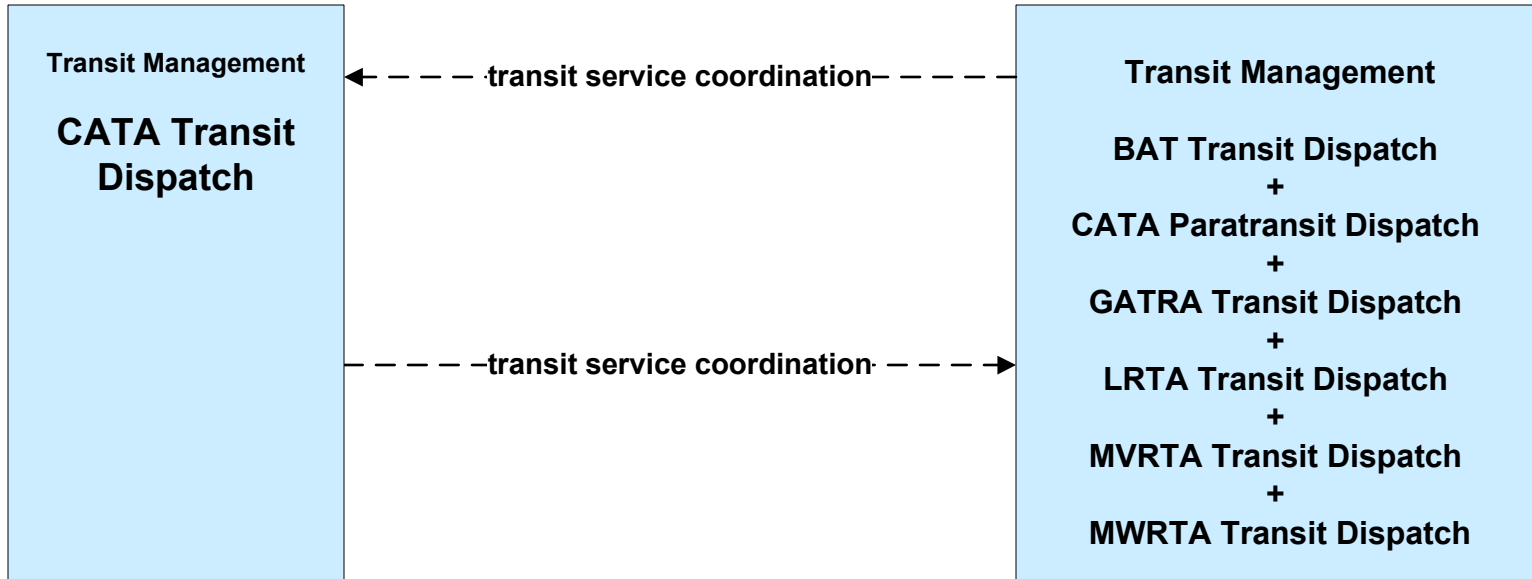
**LEGEND**

**planned and future flow**  
----->

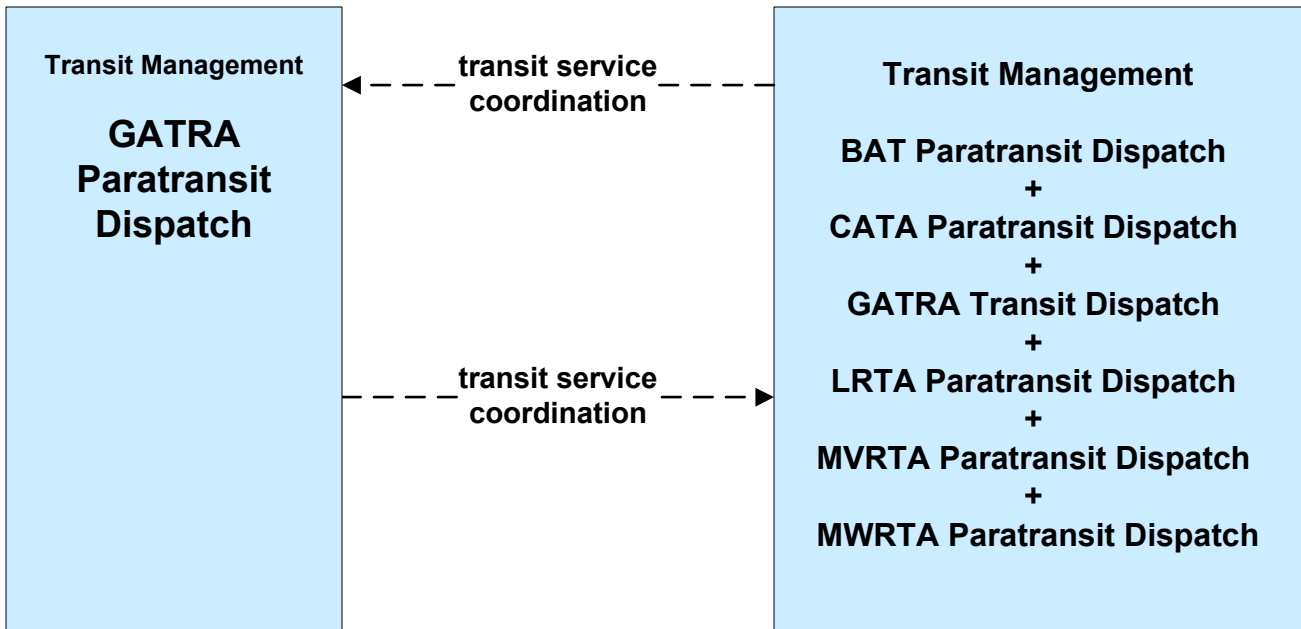
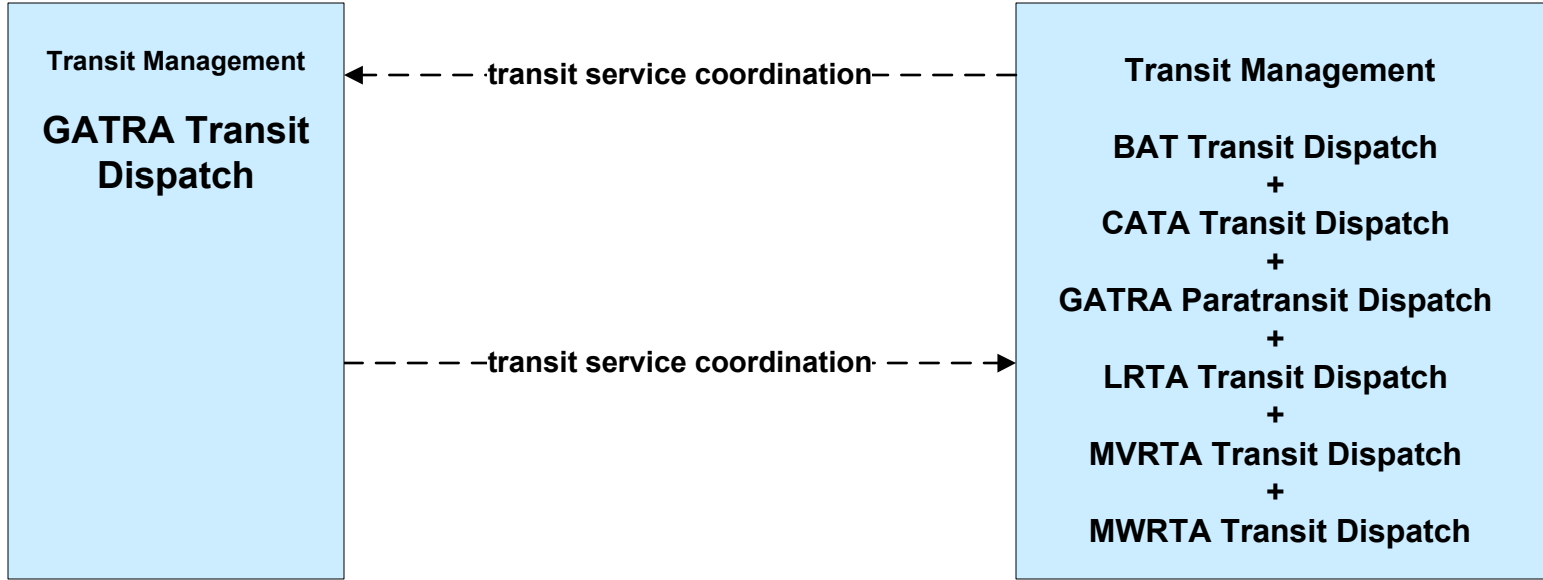
**existing flow**  
—————>

**user defined flow**  
—————>

**APTS07 - Multimodal Coordination  
CATA**



**APTS07 - Multimodal Coordination  
GATRA**



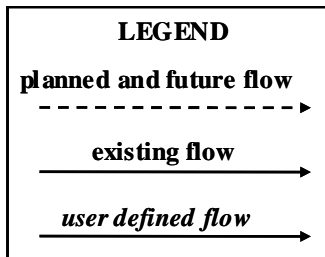
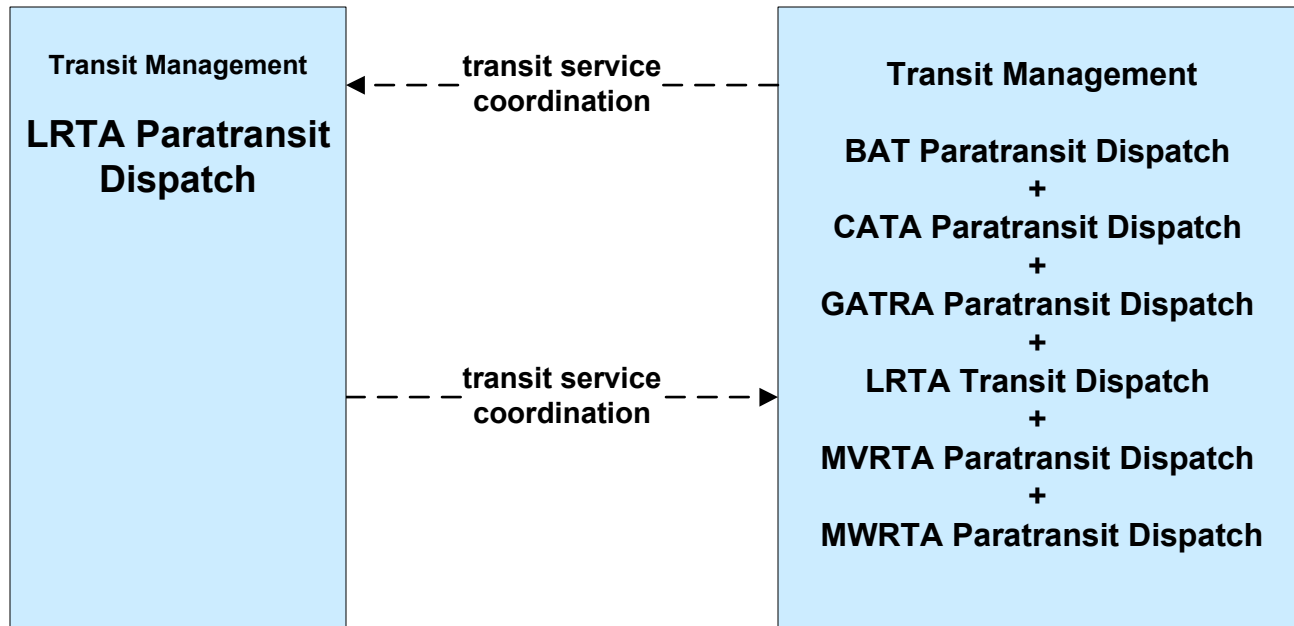
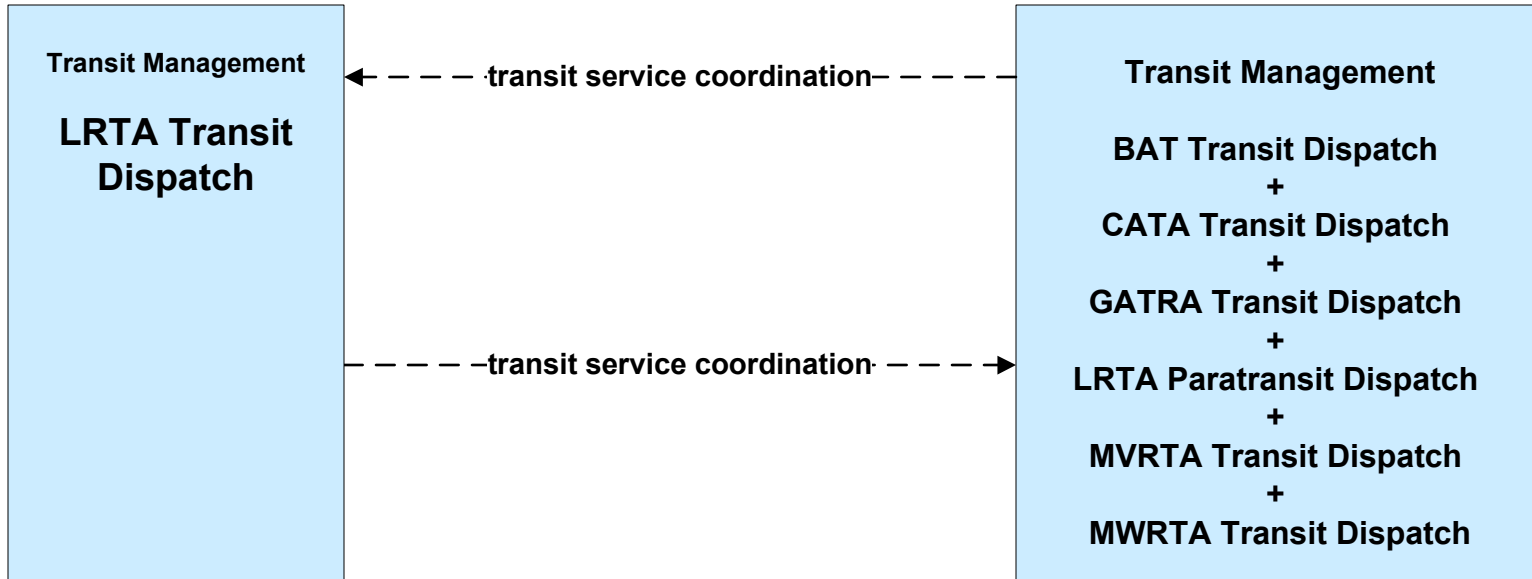
**LEGEND**

planned and future flow  
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existing flow  
—————>

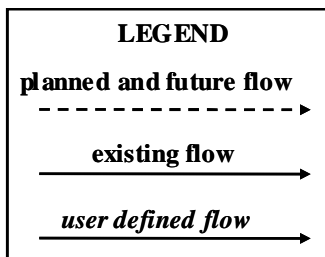
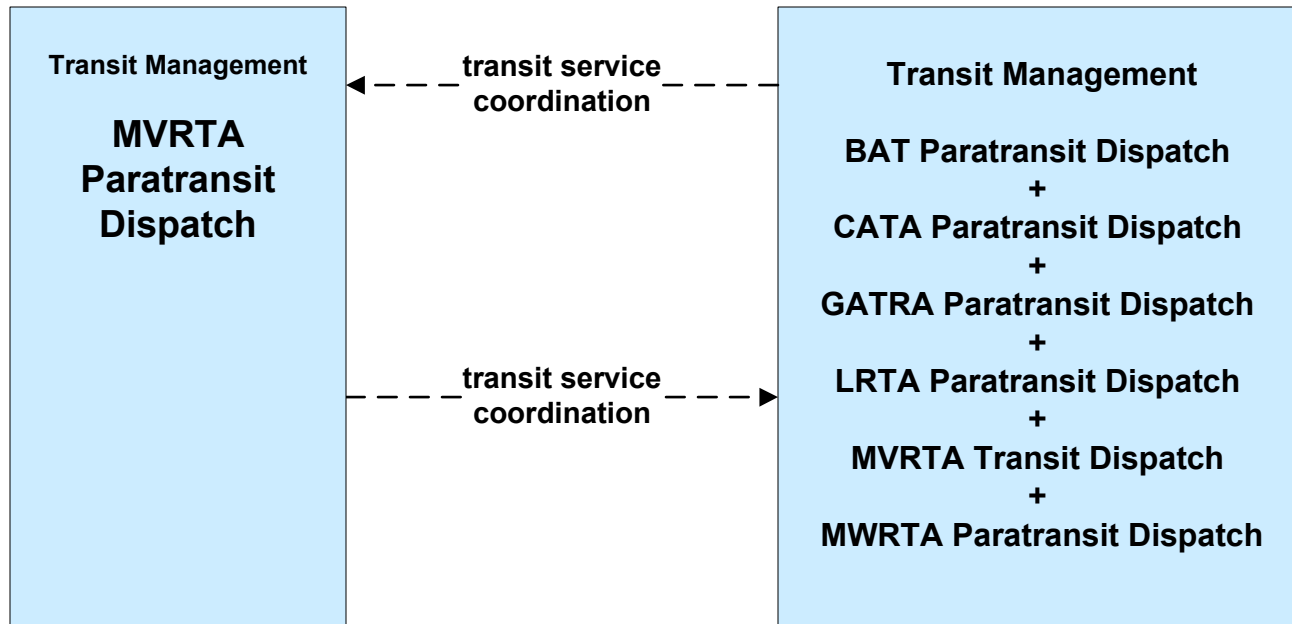
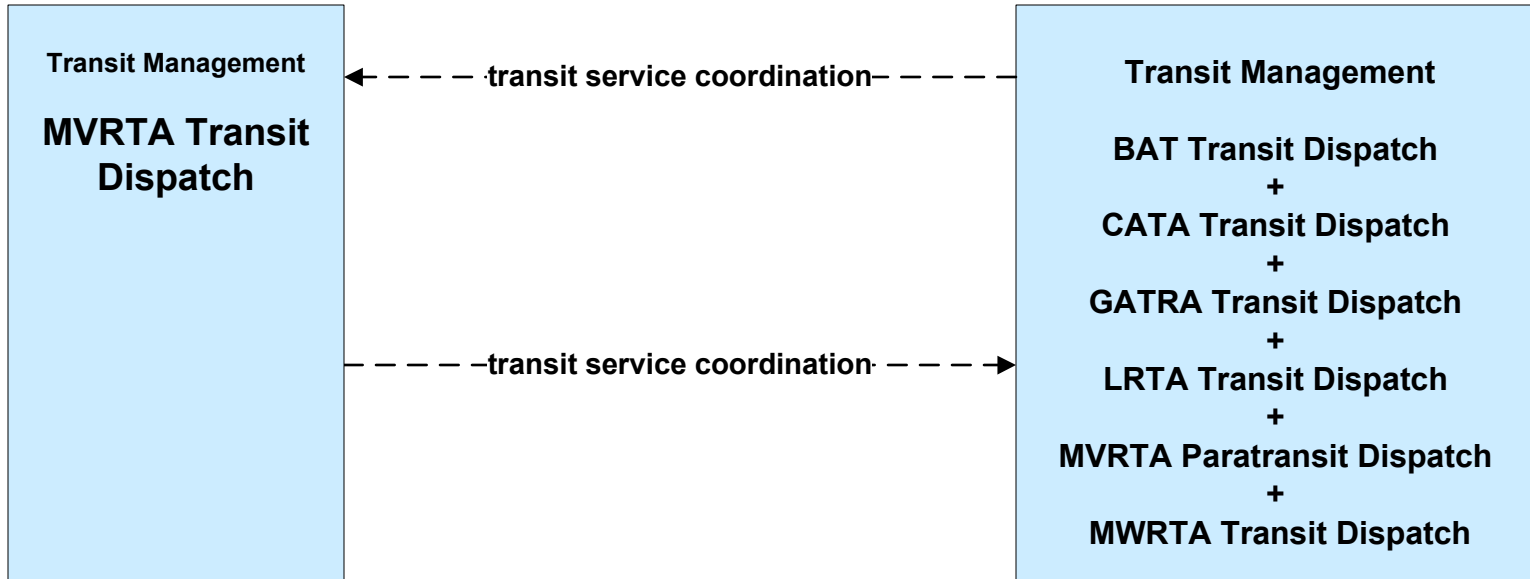
user defined flow  
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**APTS07 - Multimodal Coordination  
LRTA**

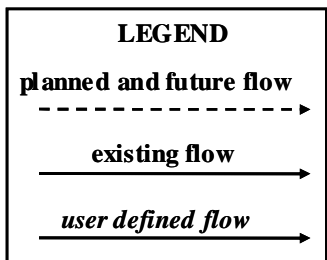
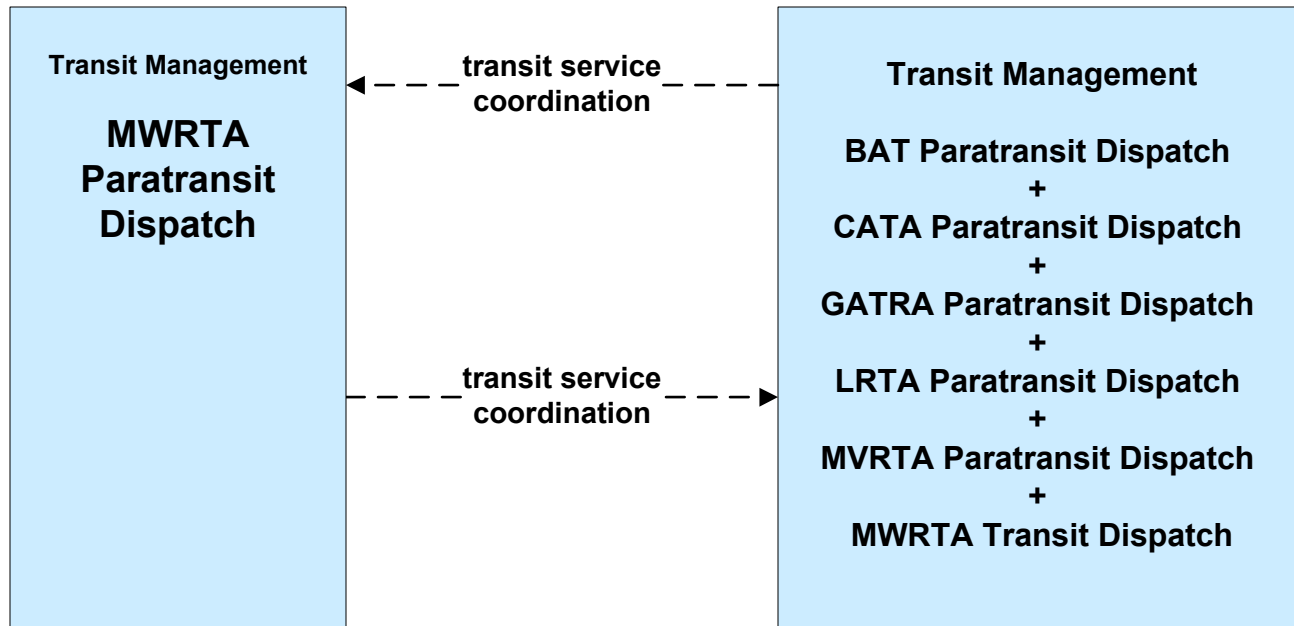
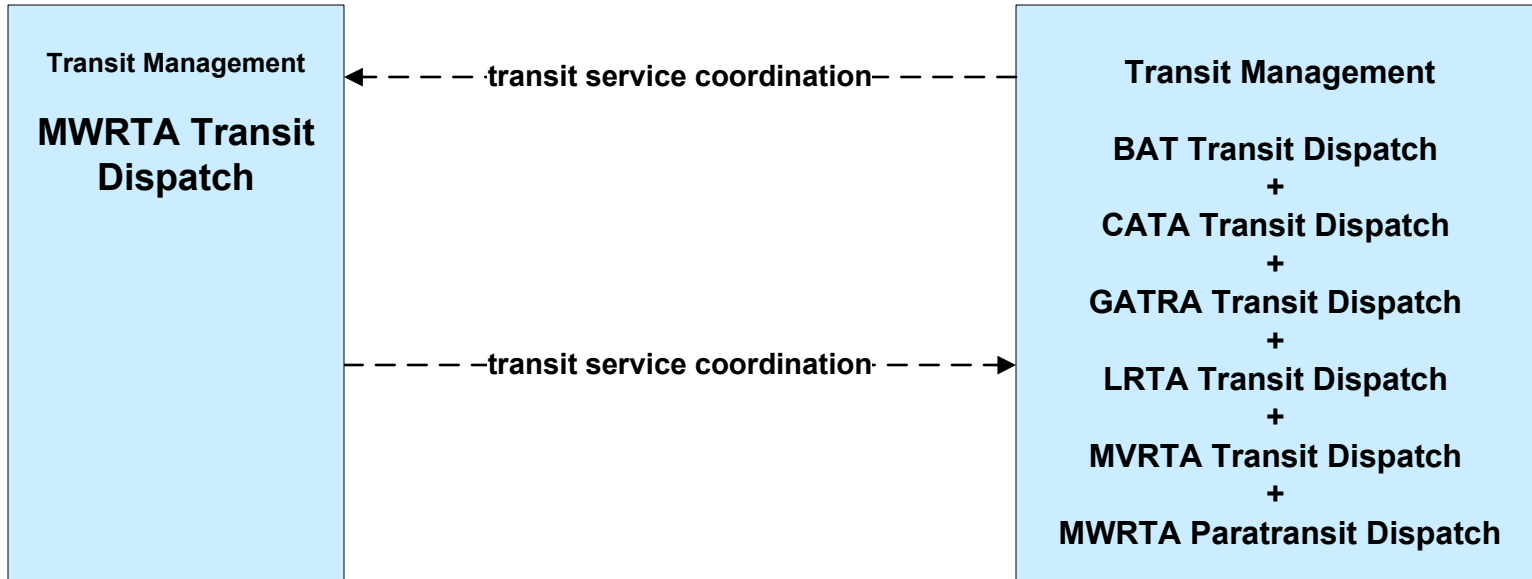




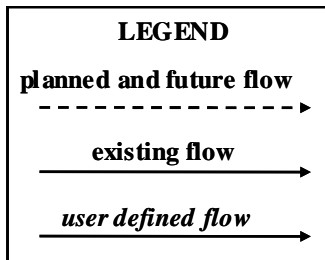
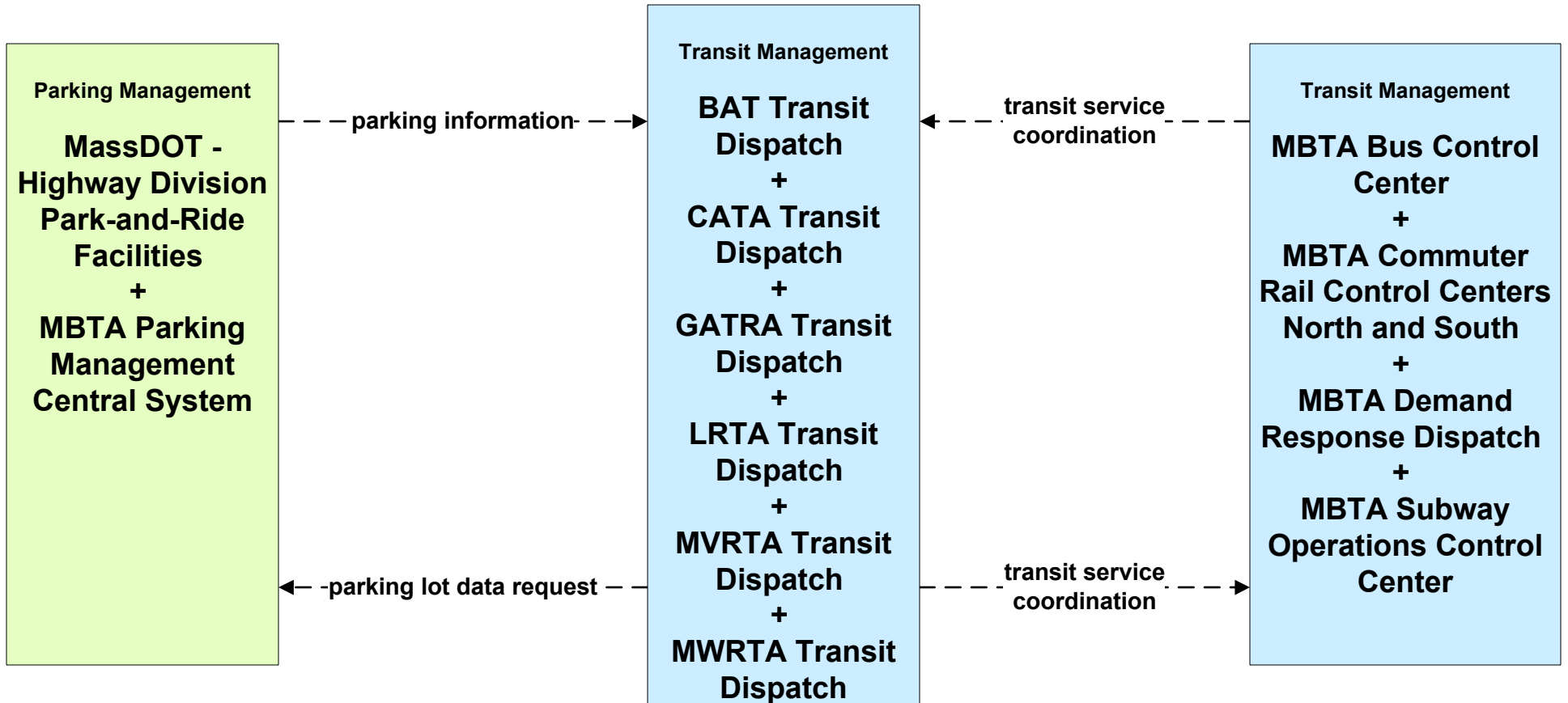
**APTS07 - Multimodal Coordination  
MVRTA**



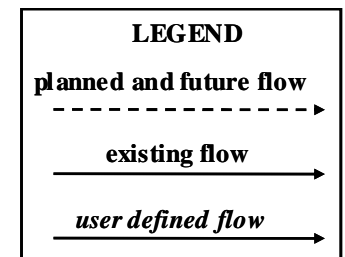
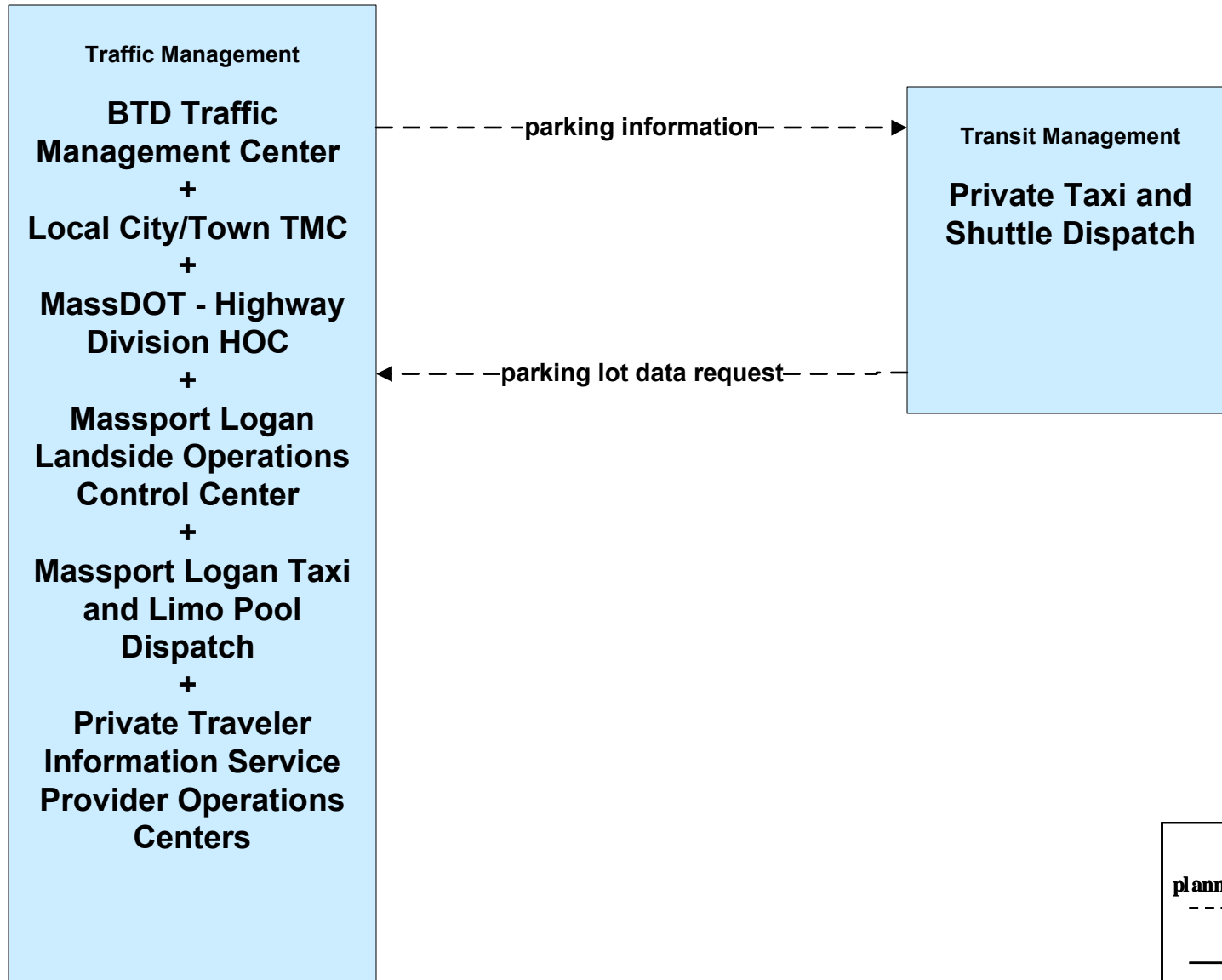
**APTS07 - Multimodal Coordination  
MWRTA**



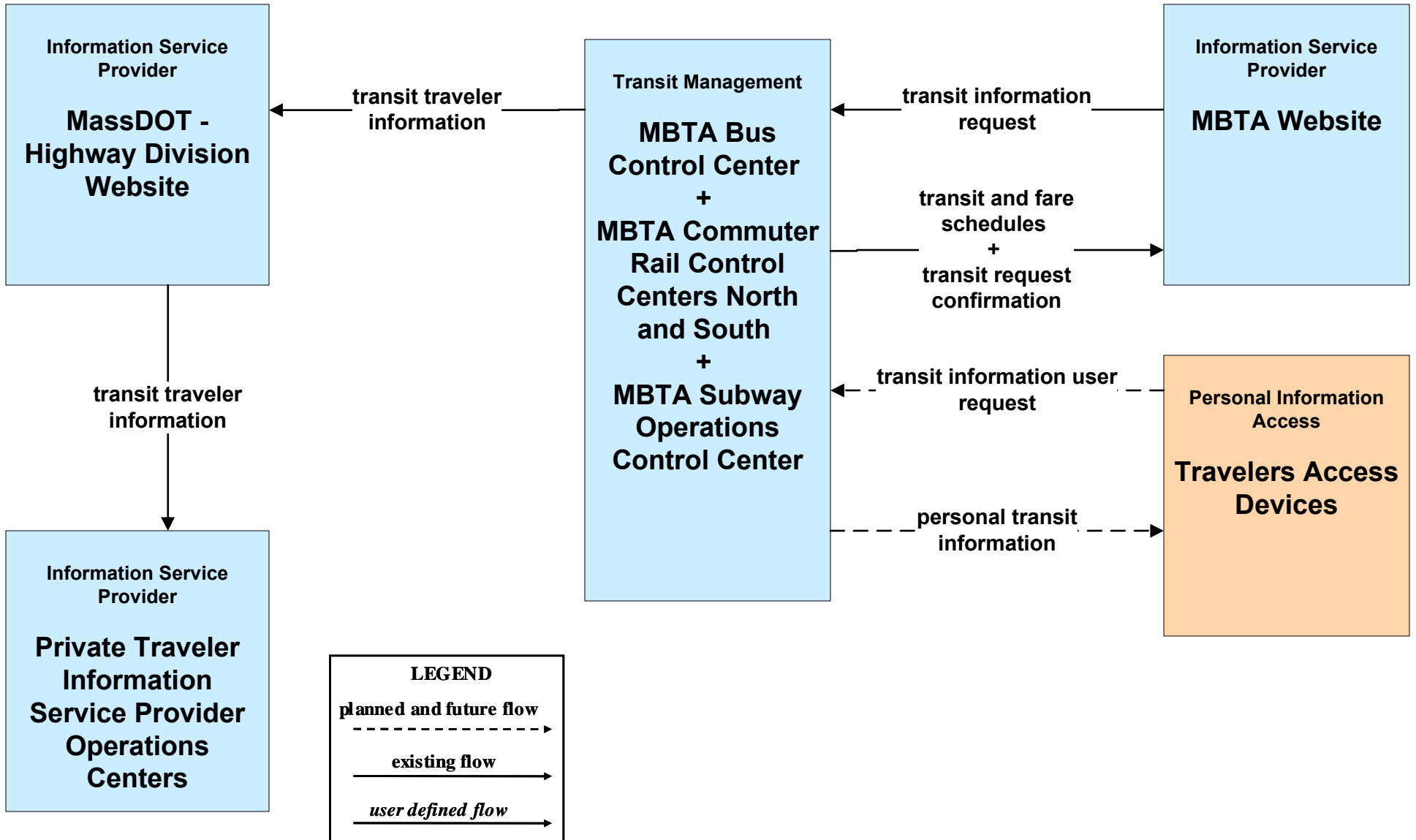
**APTS07 - Multimodal Coordination  
RTA**



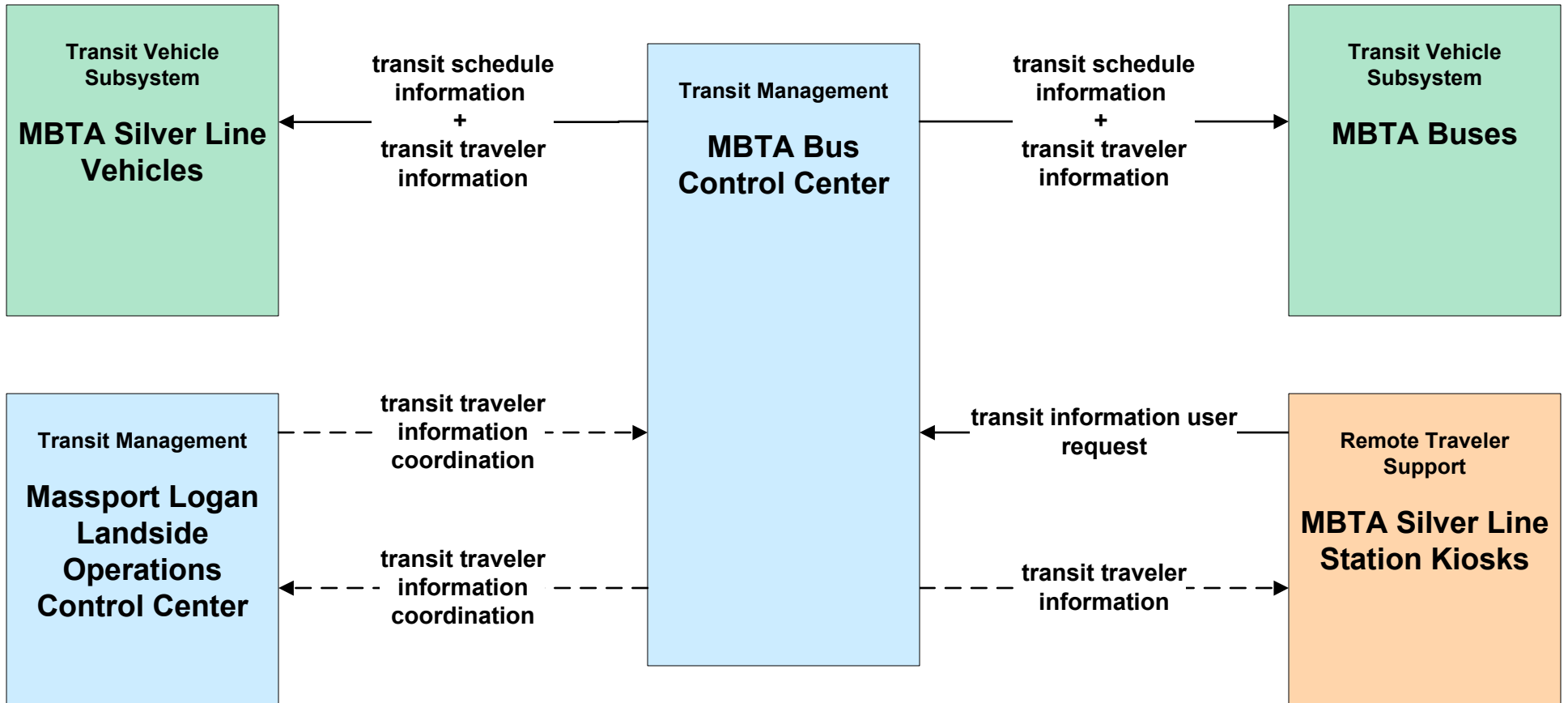
**APTS07 - Multimodal Coordination  
Private Taxi/Shuttle Dispatch**



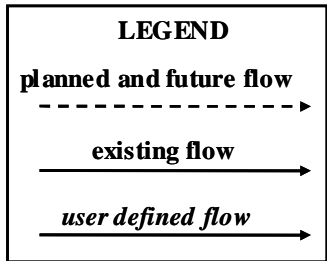
**APTS08 - Transit Traveler Information  
MBTA**



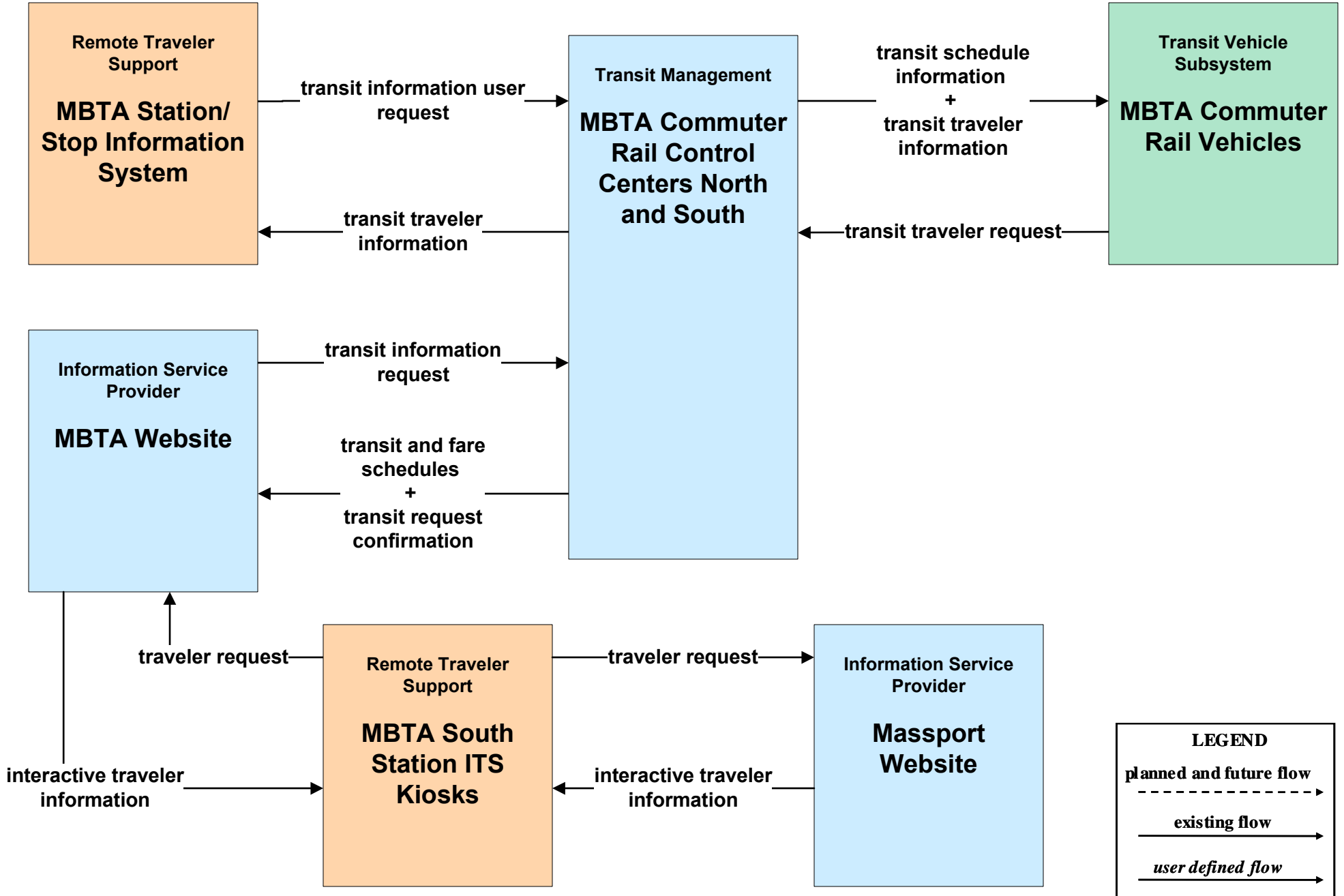
# APTS08 - Transit Traveler Information MBTA Bus



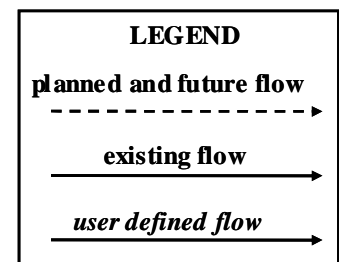
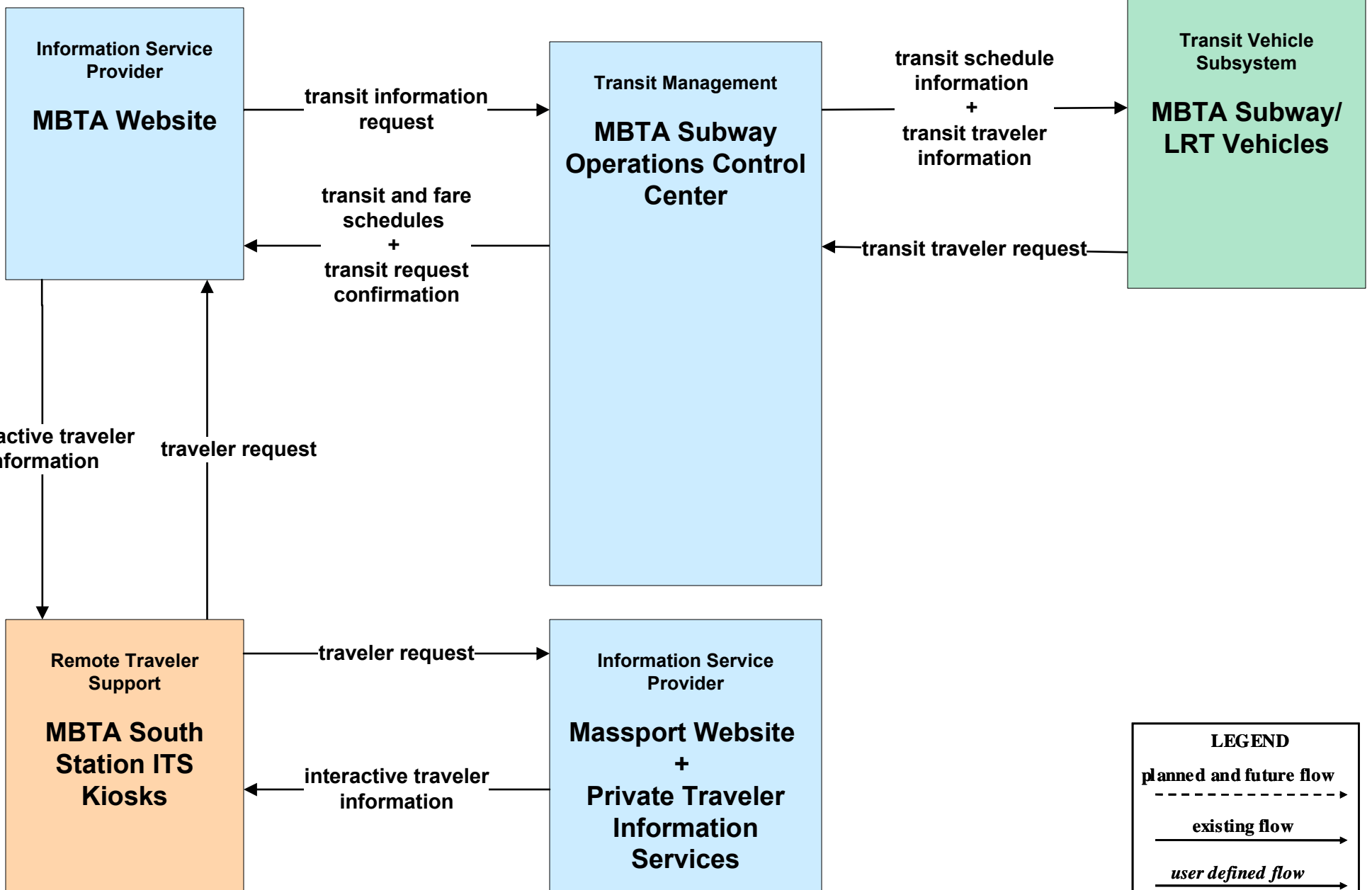
Kiosks display bus arrival time.



# APTS08 - Transit Traveler Information MBTA Commuter Rail

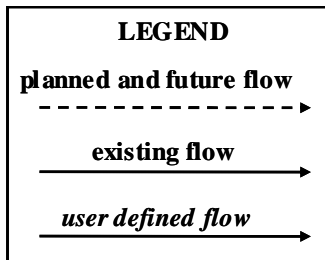
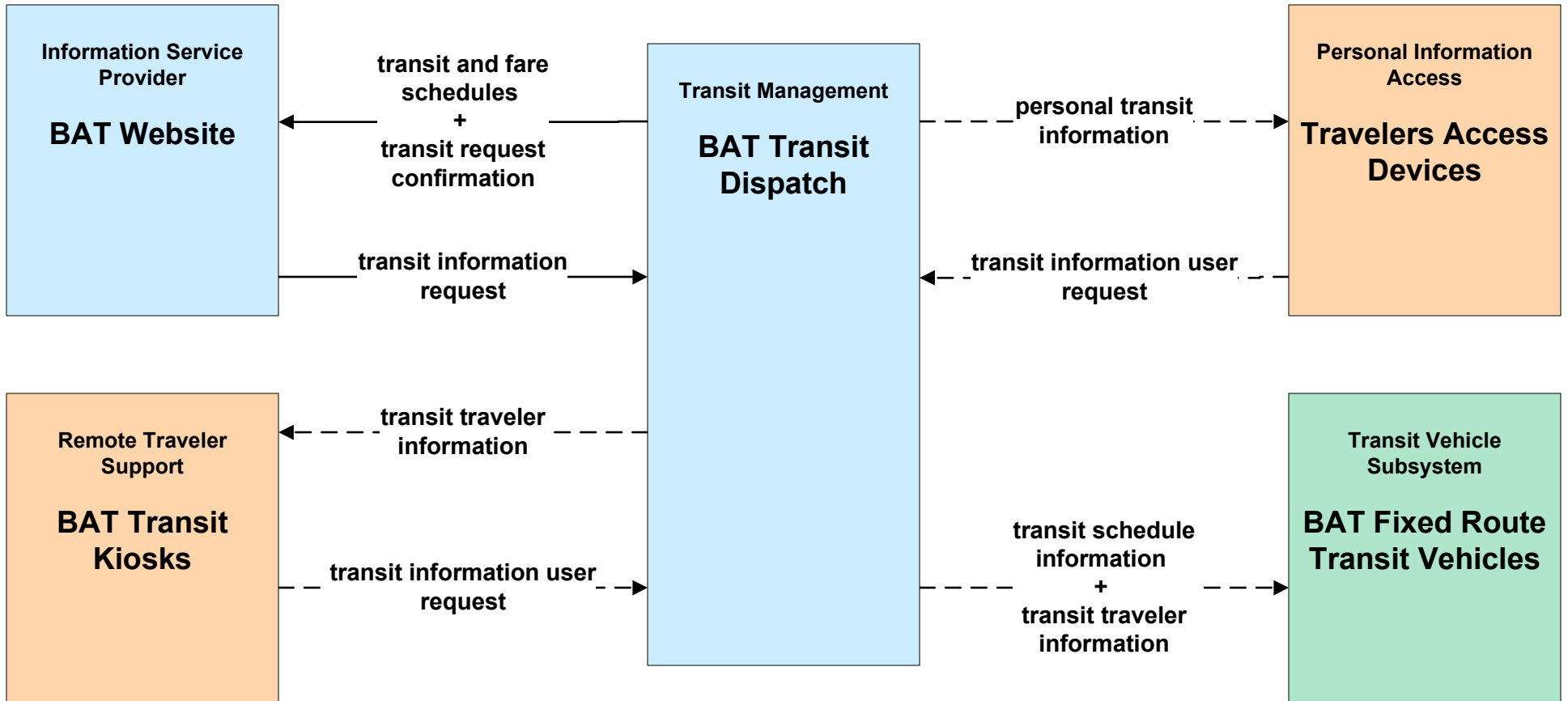


**APTS08 - Transit Traveler Information  
MBTA Subway**

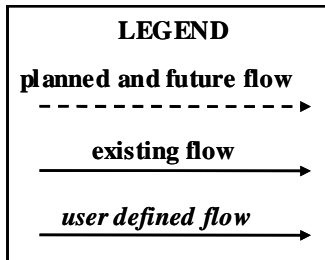
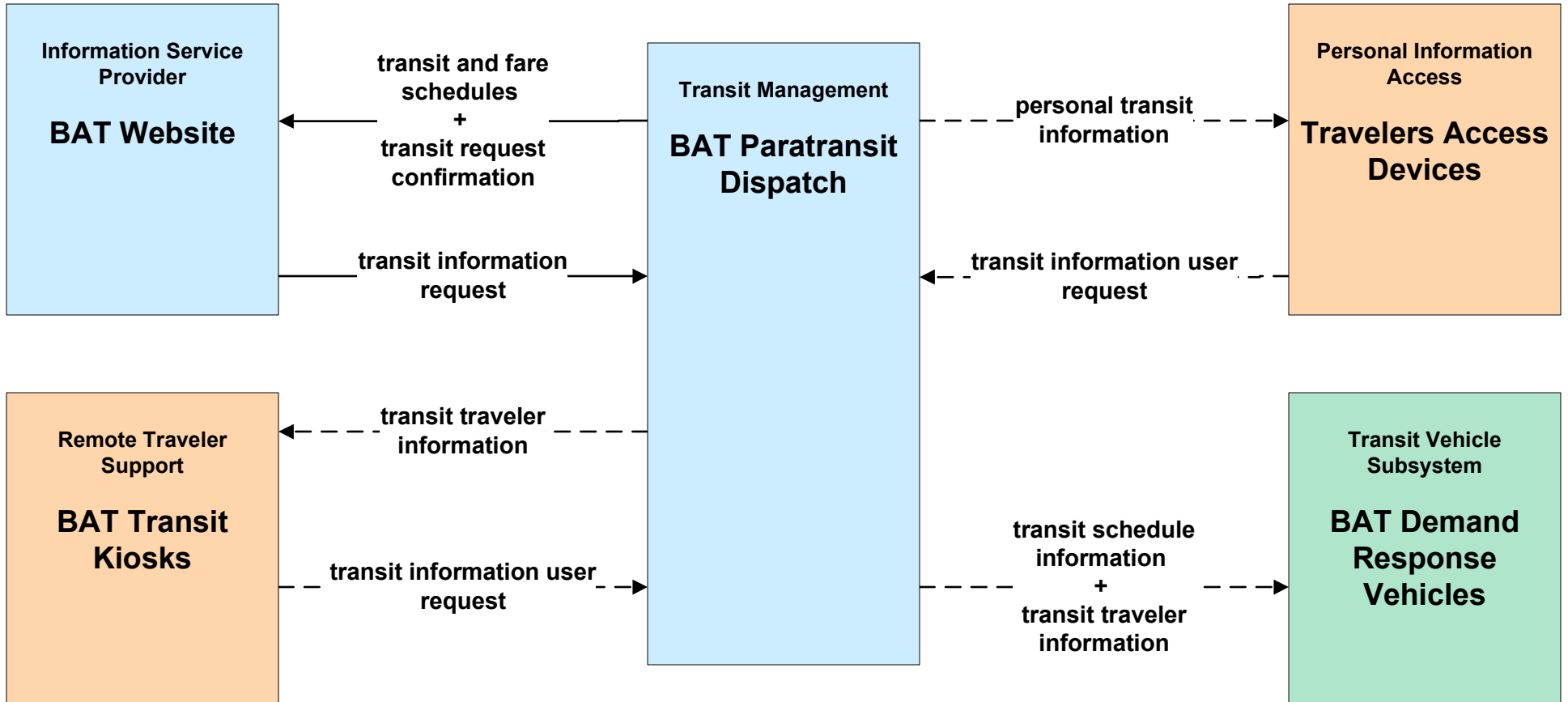




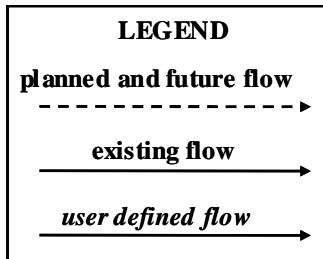
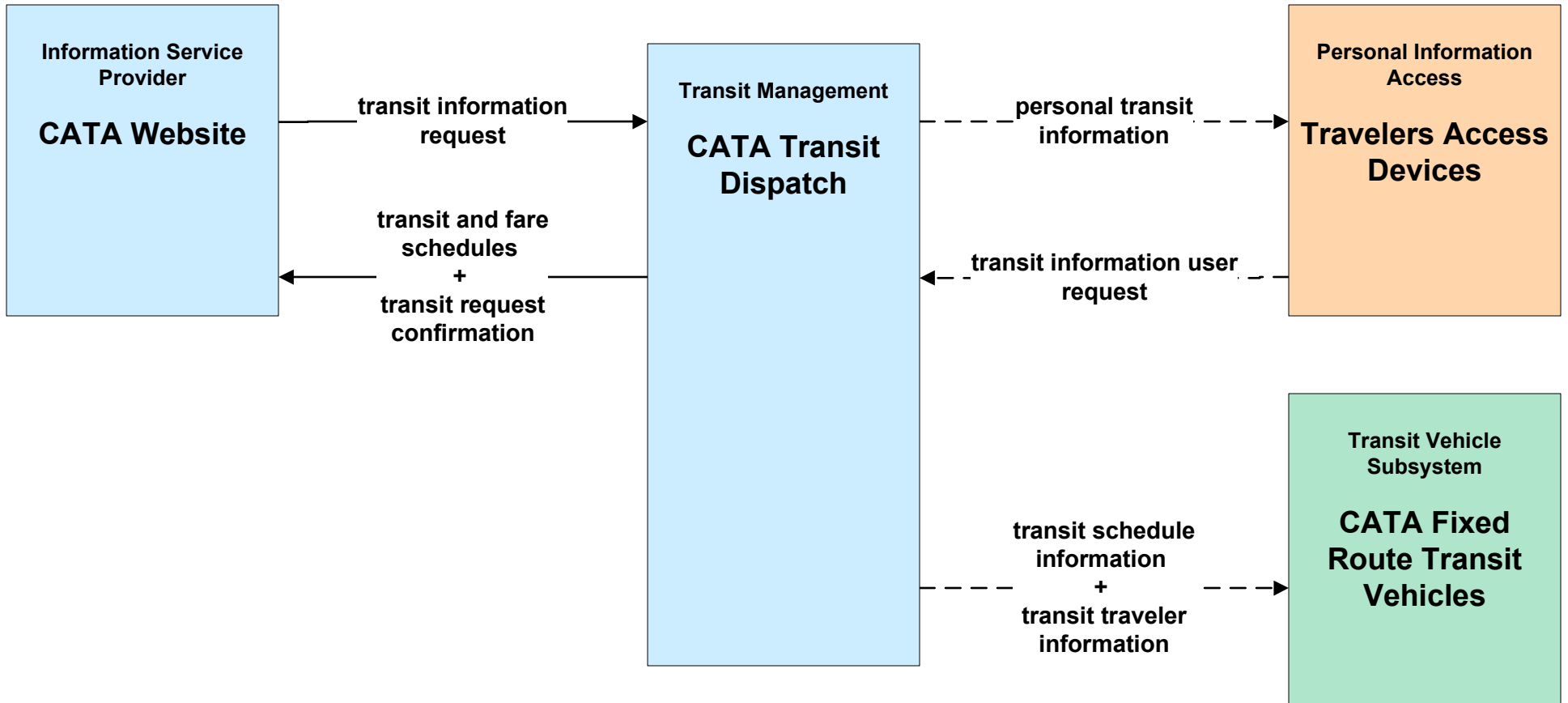
**APTS08 - Transit Traveler Information  
BAT (1 of 2)**



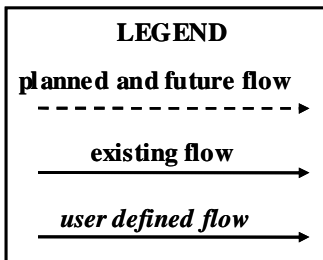
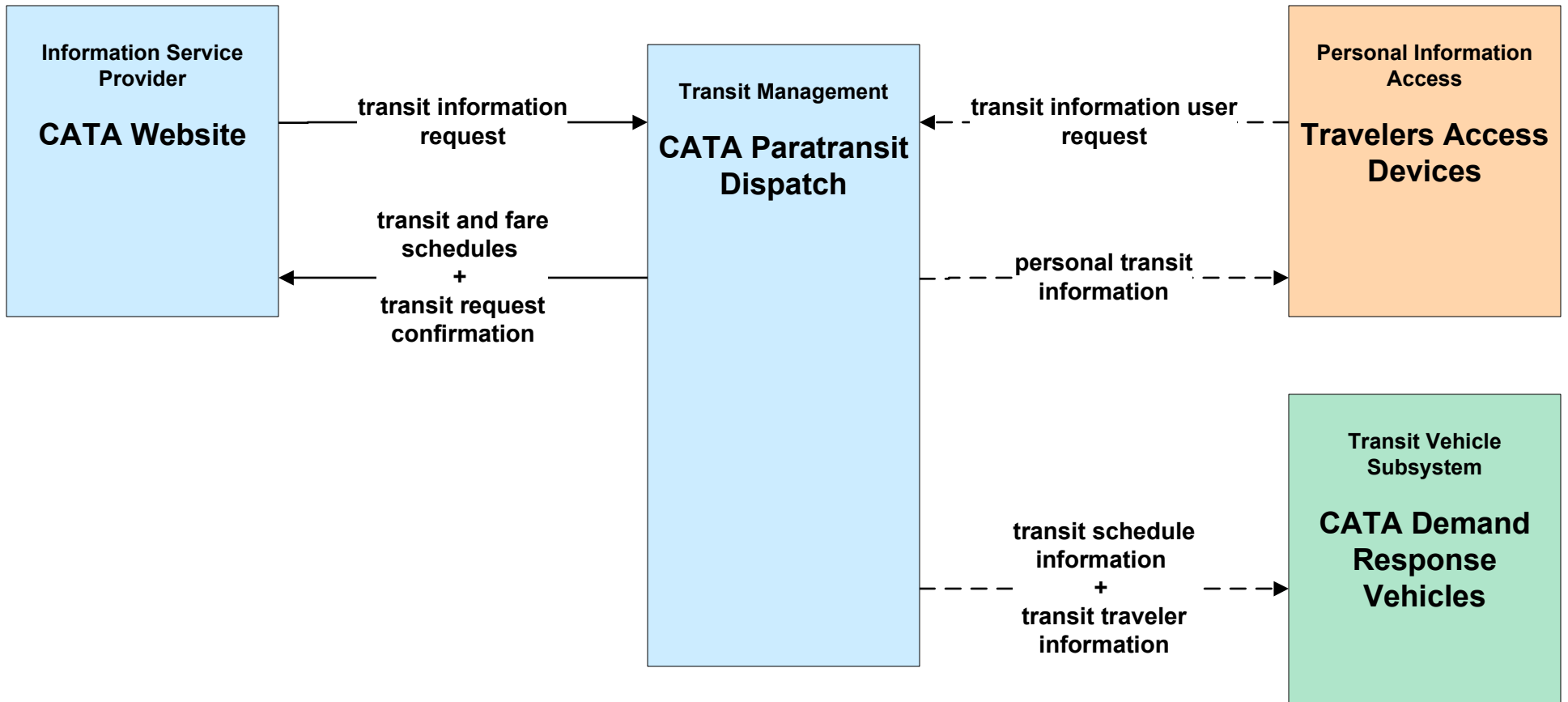
**APTS08 - Transit Traveler Information  
BAT (2 of 2)**



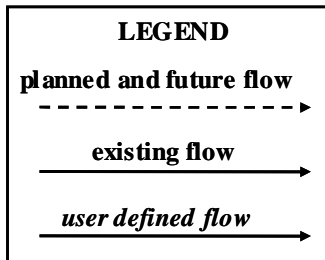
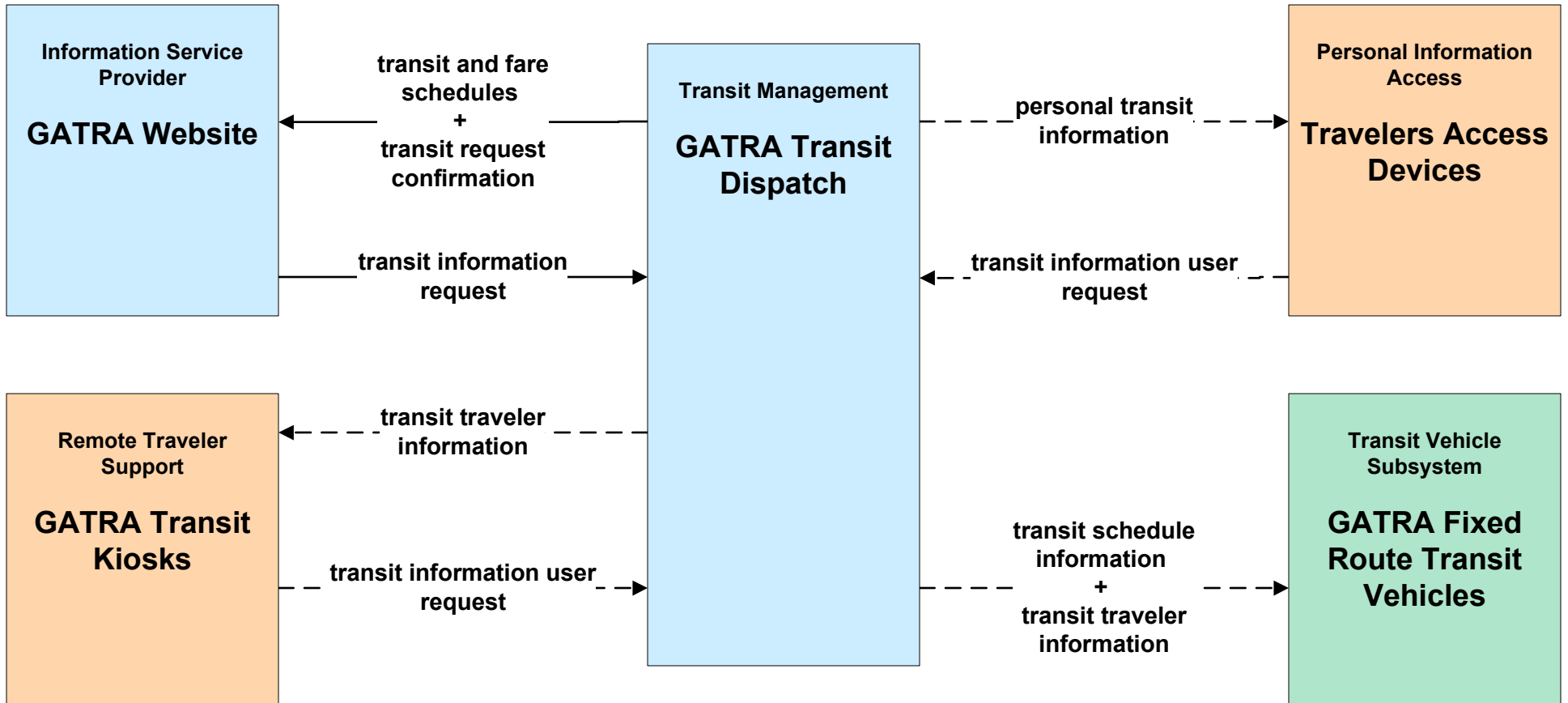
**APTS08 - Transit Traveler Information  
CATA (1 of 2)**



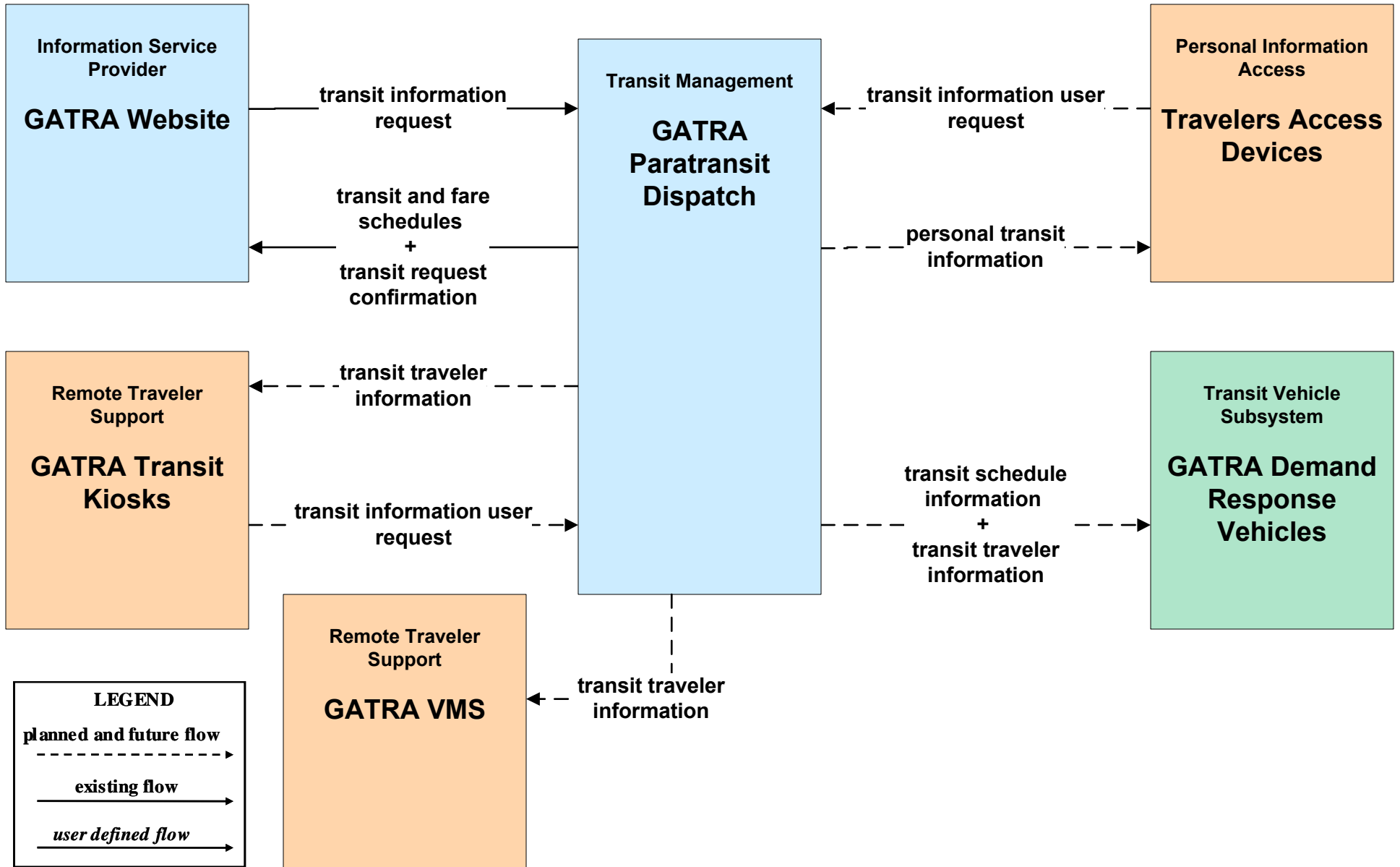
**APTS08 - Transit Traveler Information  
CATA (2 of 2)**



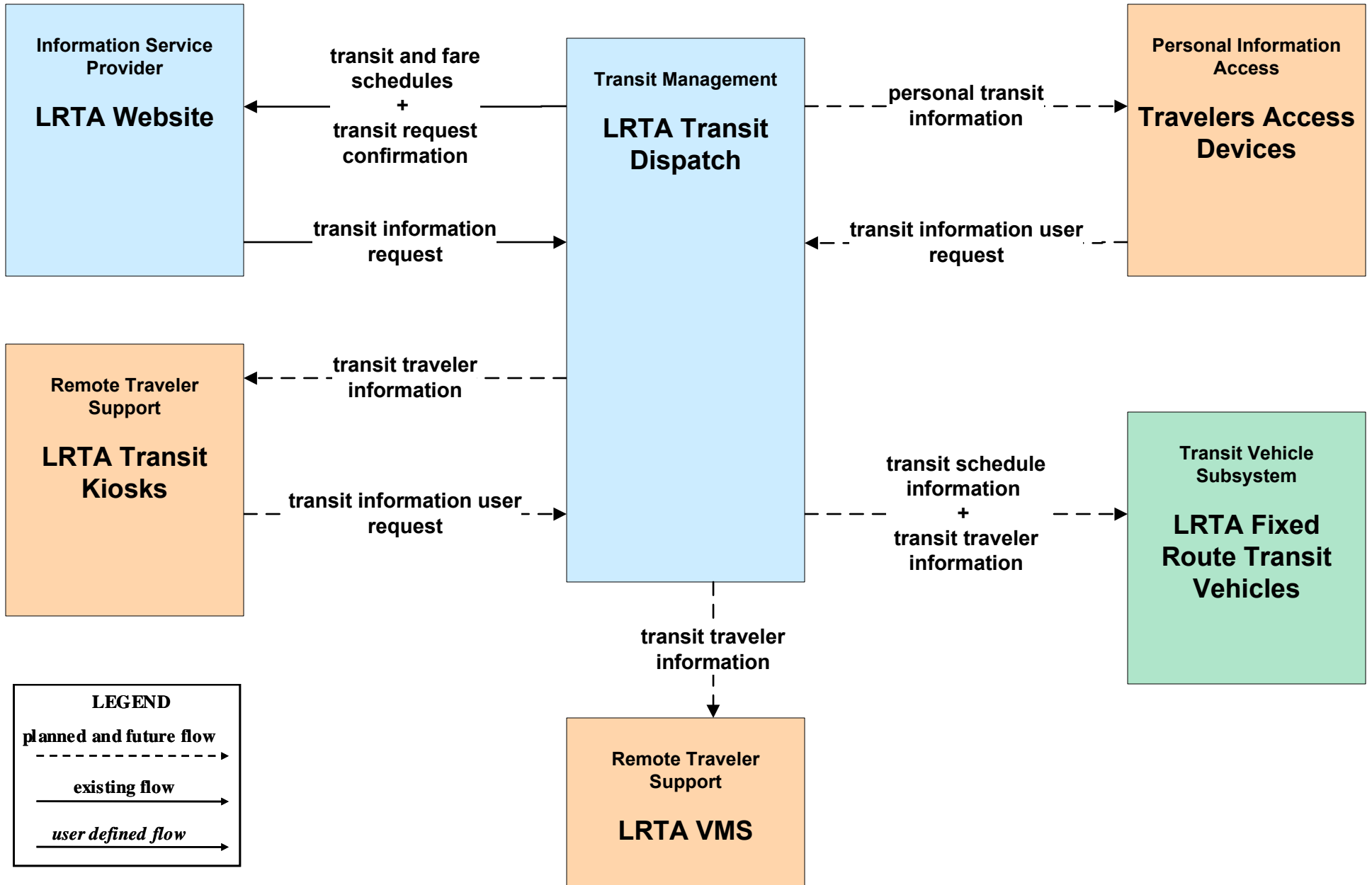
**APTS08 - Transit Traveler Information  
GATRA (1 of 2)**



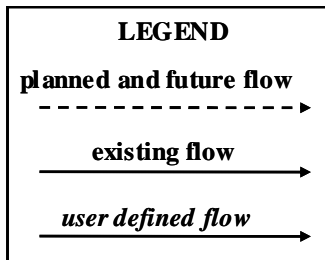
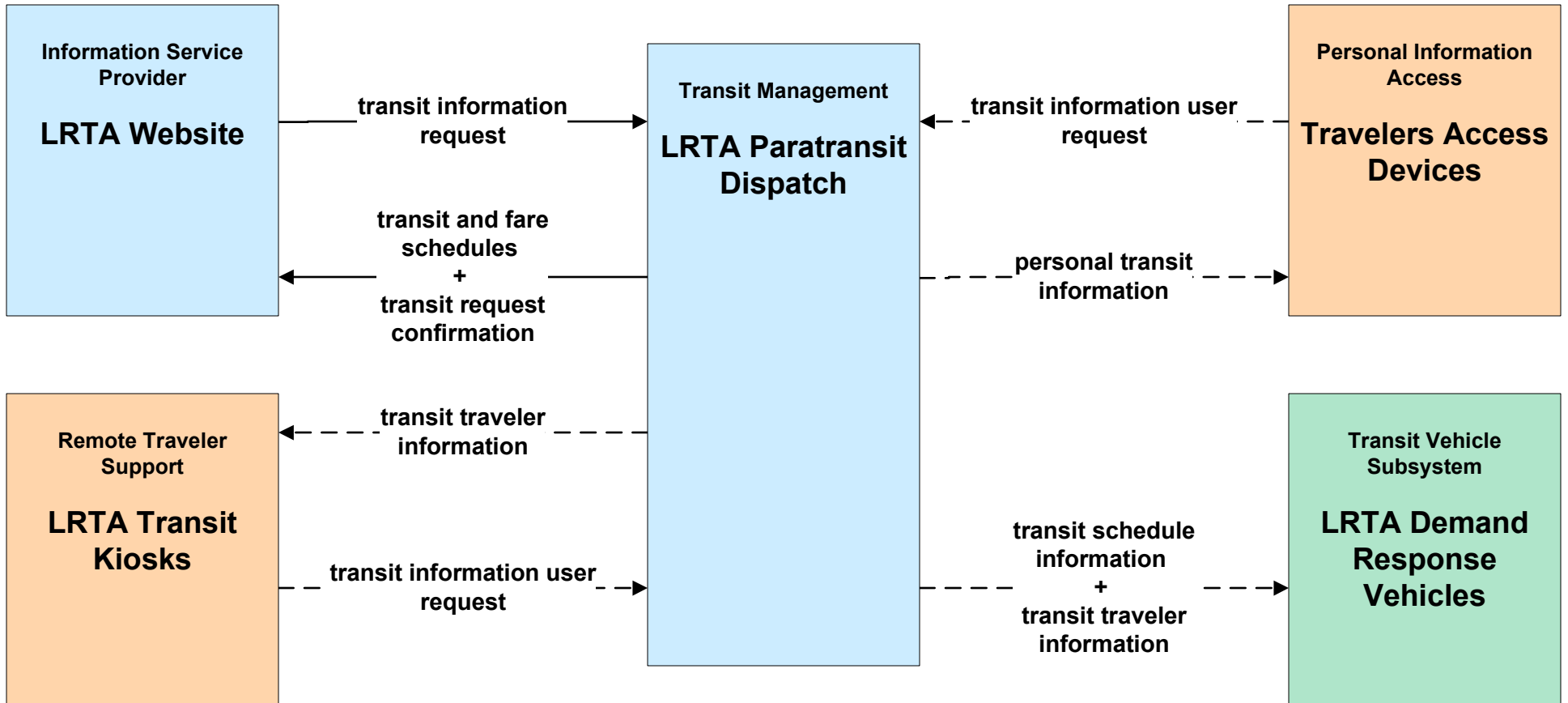
**APTS08 - Transit Traveler Information  
GATRA (2 of 2)**



**APTS08 - Transit Traveler Information  
LRTA (1 of 2)**

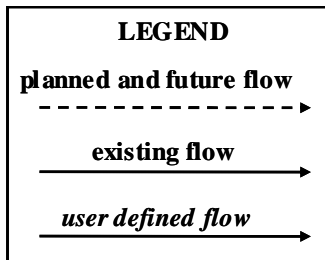
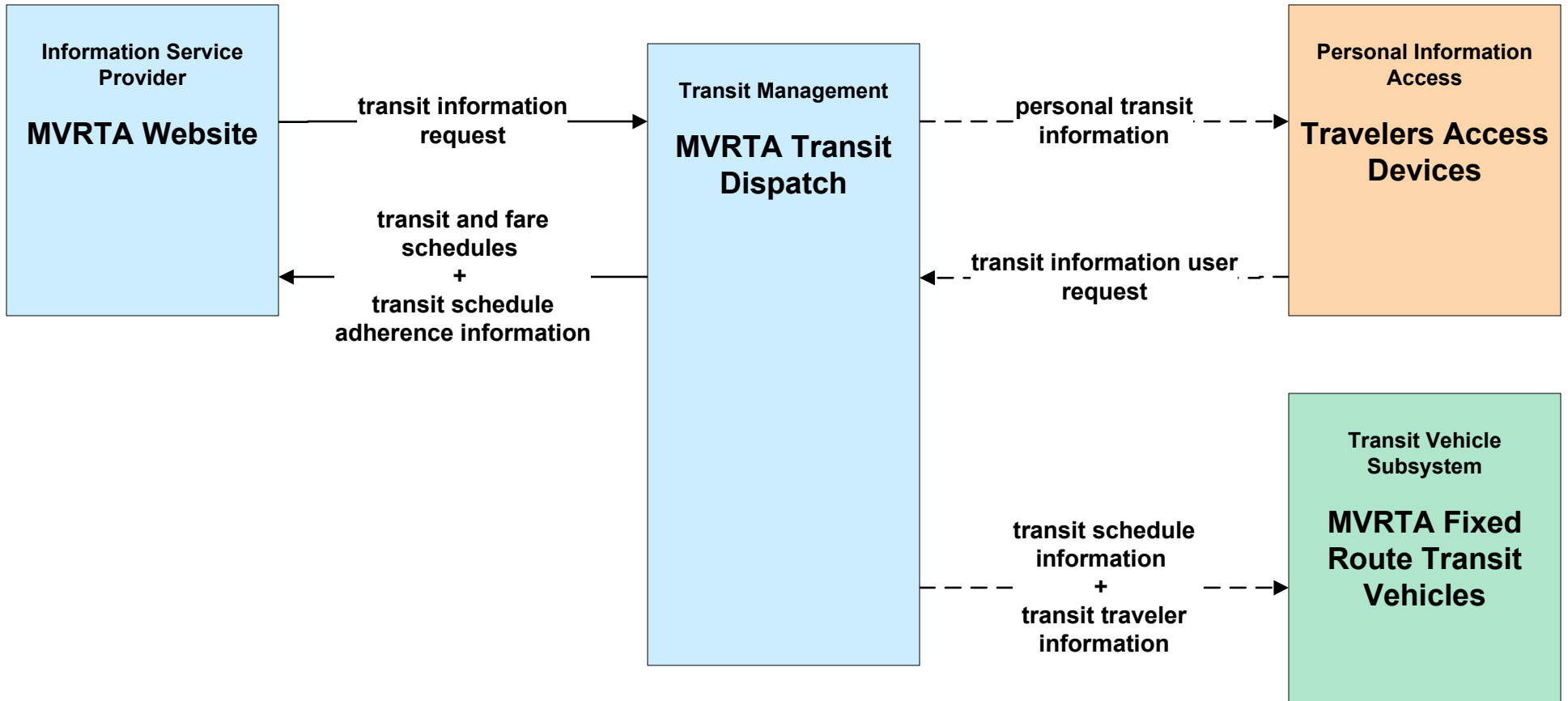


**APTS08 - Transit Traveler Information  
LRTA (2 of 2)**

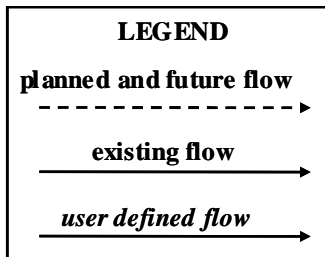
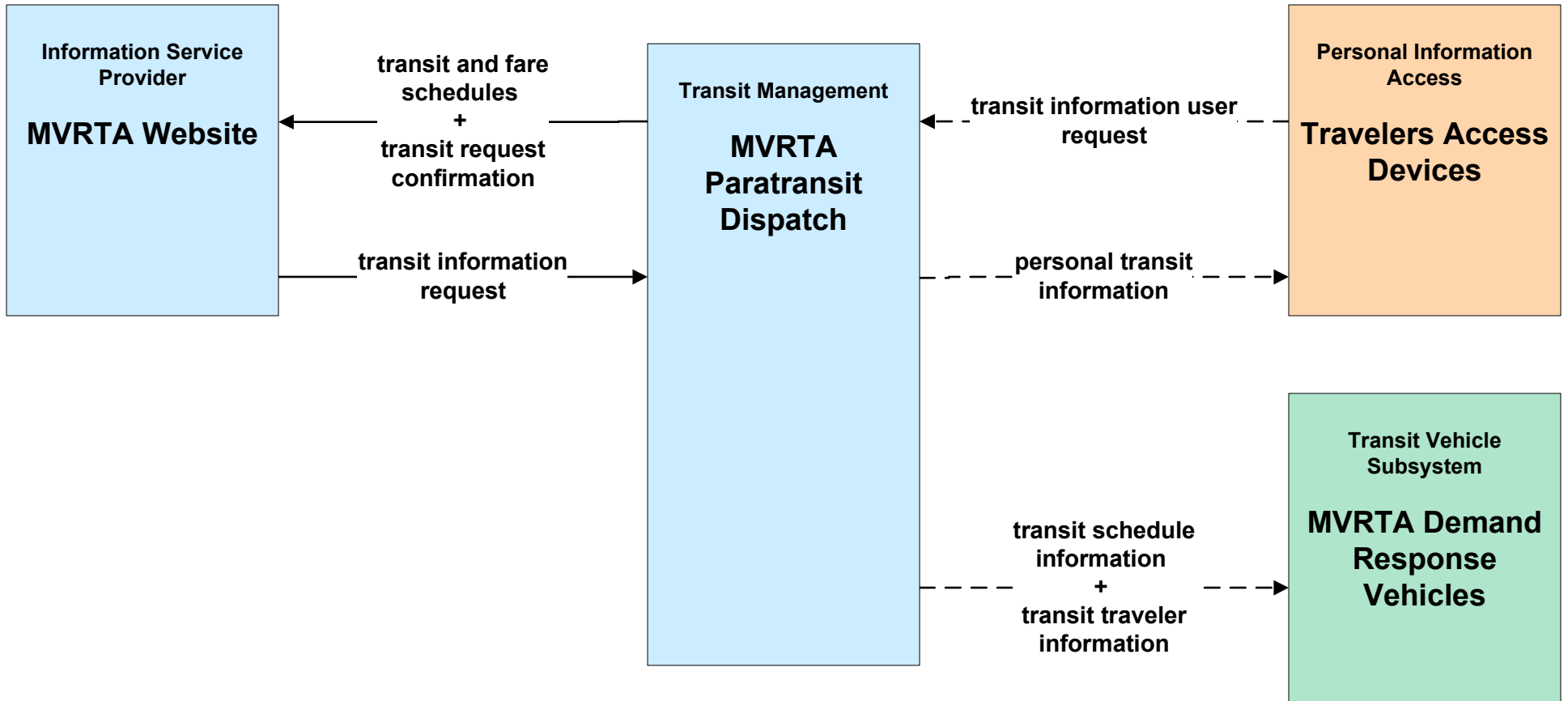




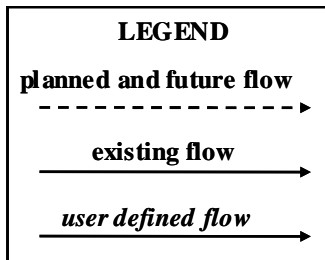
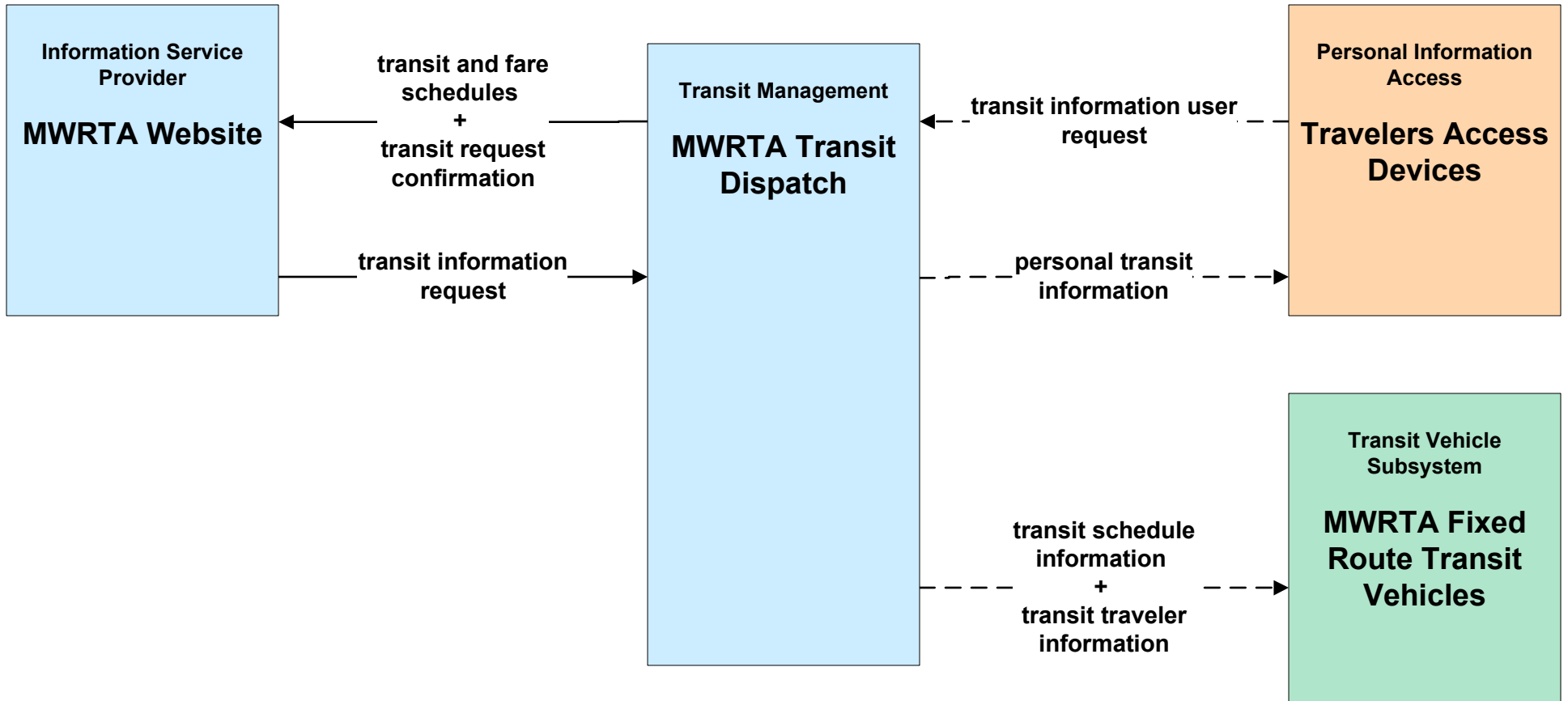
**APTS08 - Transit Traveler Information  
MVRTA (1 of 2)**



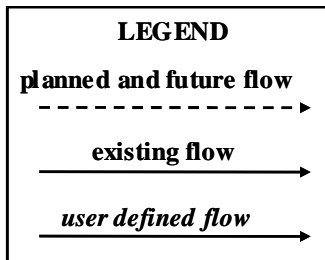
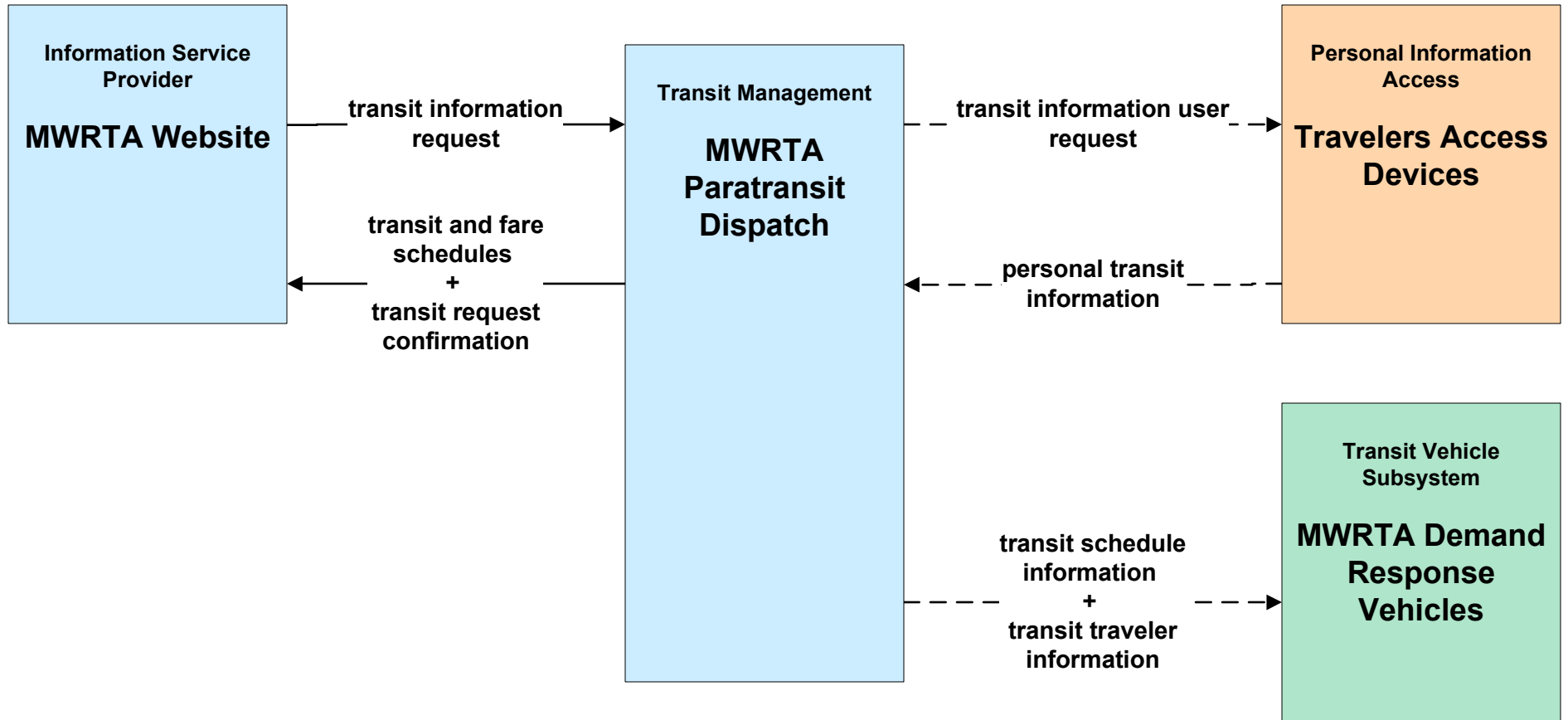
**APTS08 - Transit Traveler Information  
MVRTA (2 of 2)**



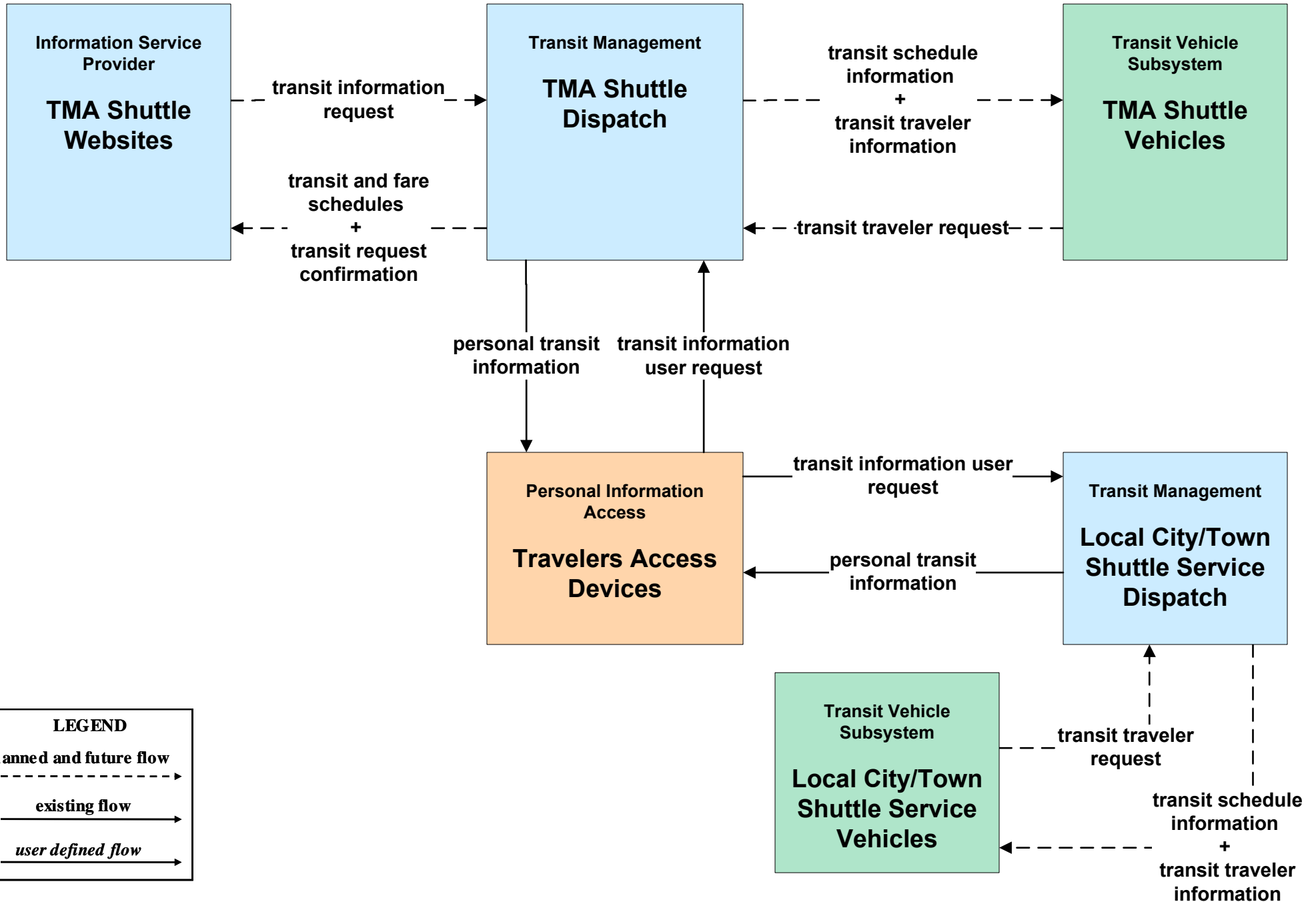
**APTS08 - Transit Traveler Information  
MWRTA (1 of 2)**



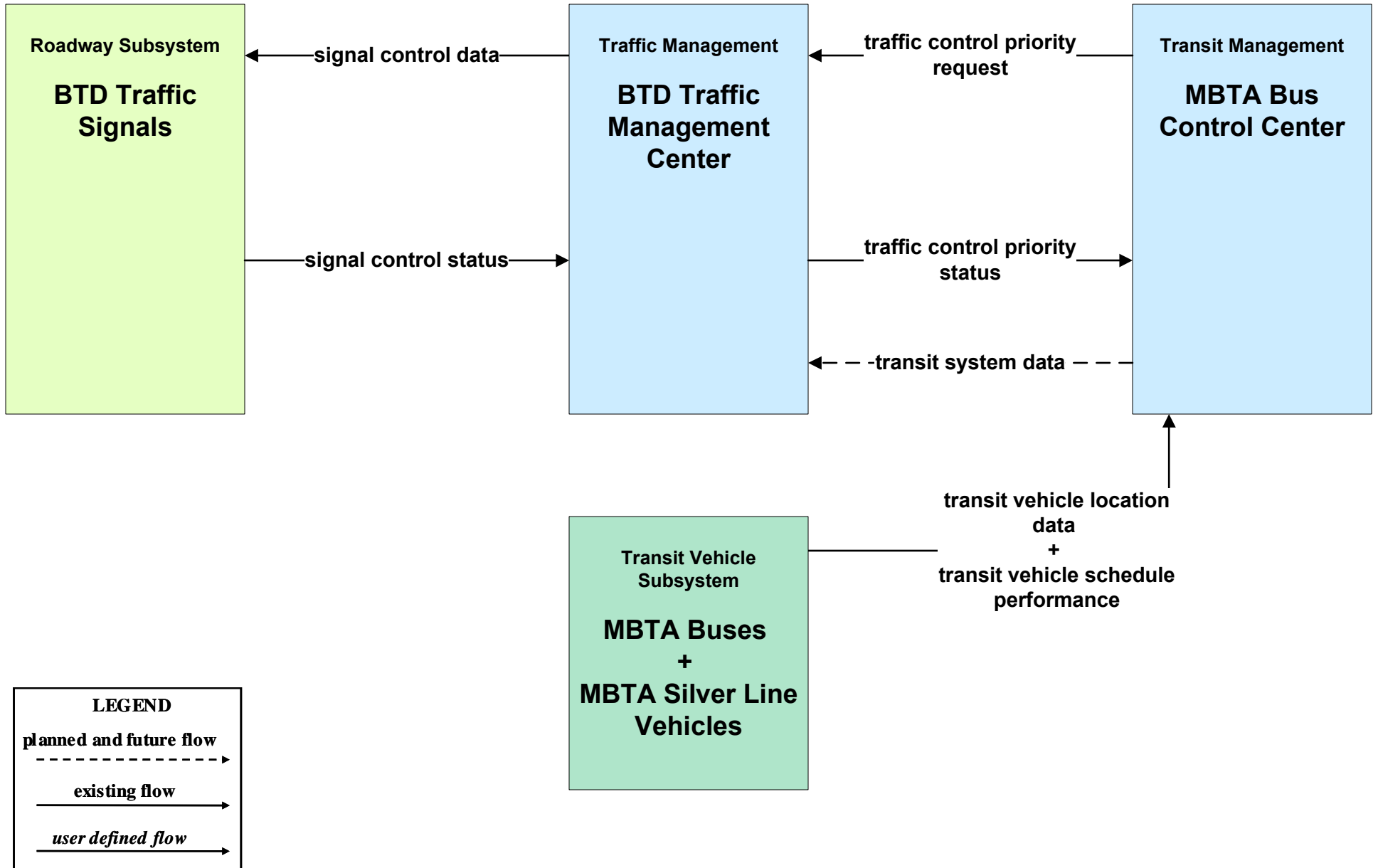
**APTS08 - Transit Traveler Information  
MWRTA (2 of 2)**



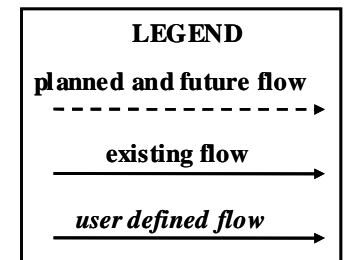
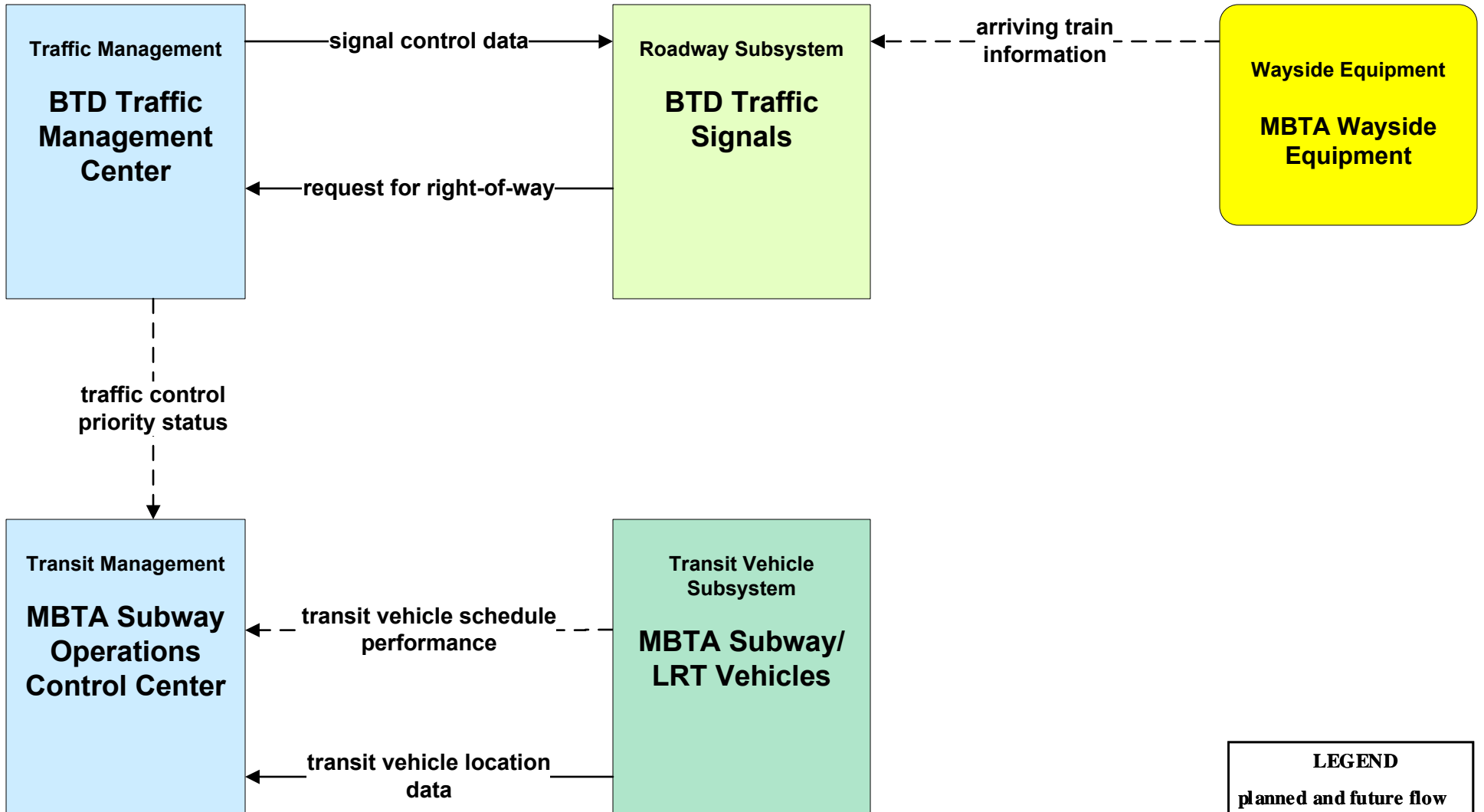
# APTS08 - Transit Traveler Information TMA and Local Cities/Towns Shuttles



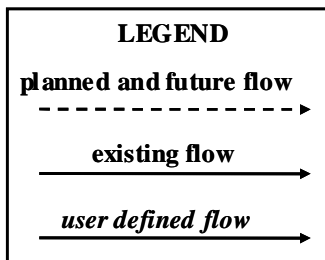
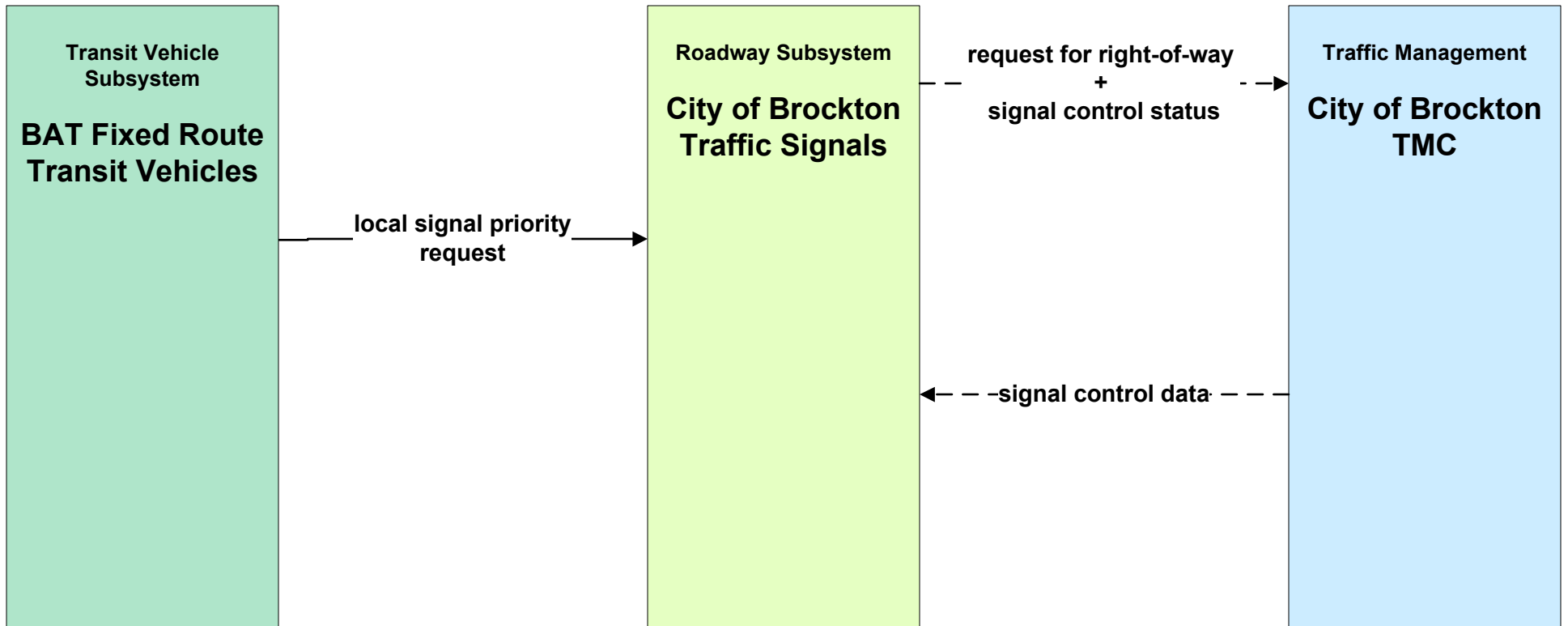
**APTS09 - Transit Signal Priority  
BTD / MBTA Bus Priority**



# APTS09 - Transit Signal Priority BTD / MBTA Subway Priority

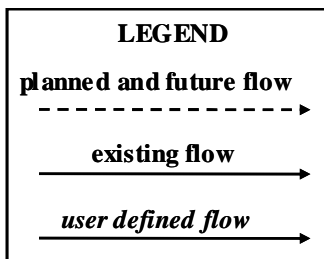
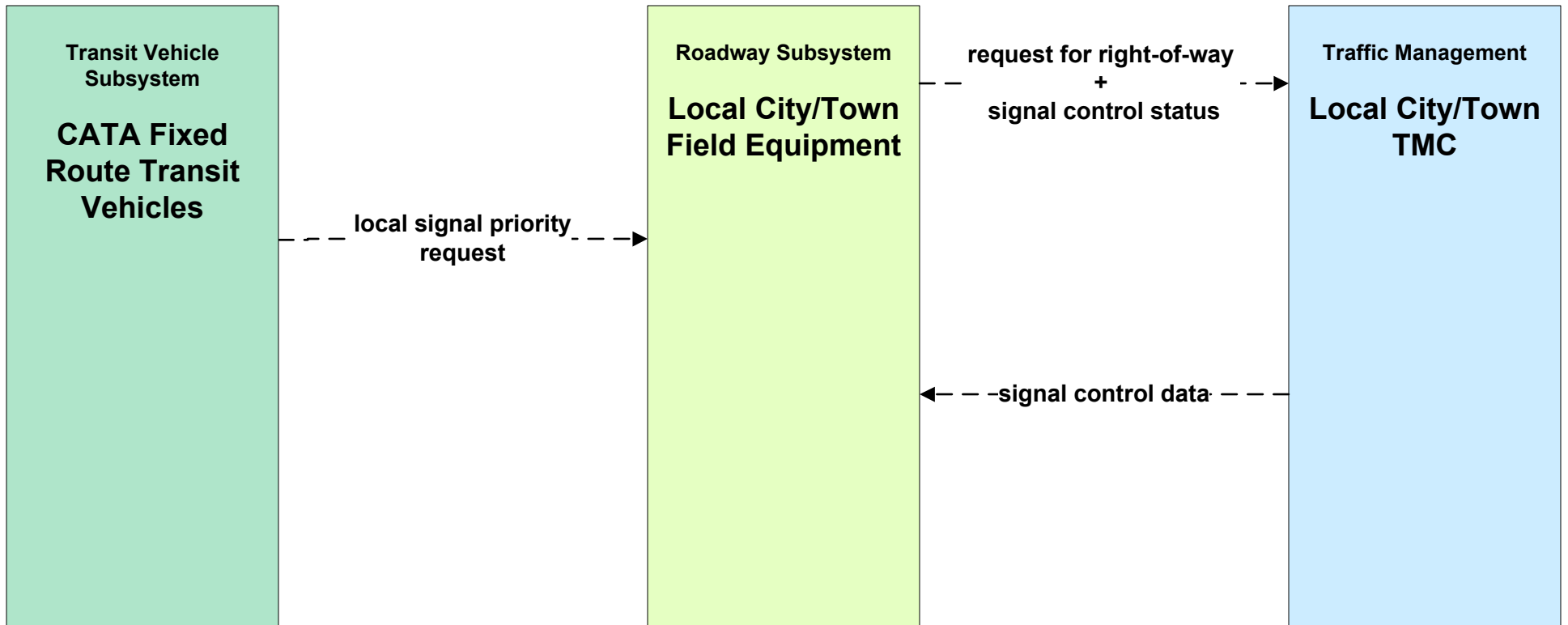


**APTS09 - Transit Signal Priority  
BAT / City of Brockton Transit Priority**

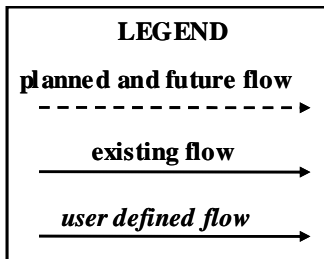
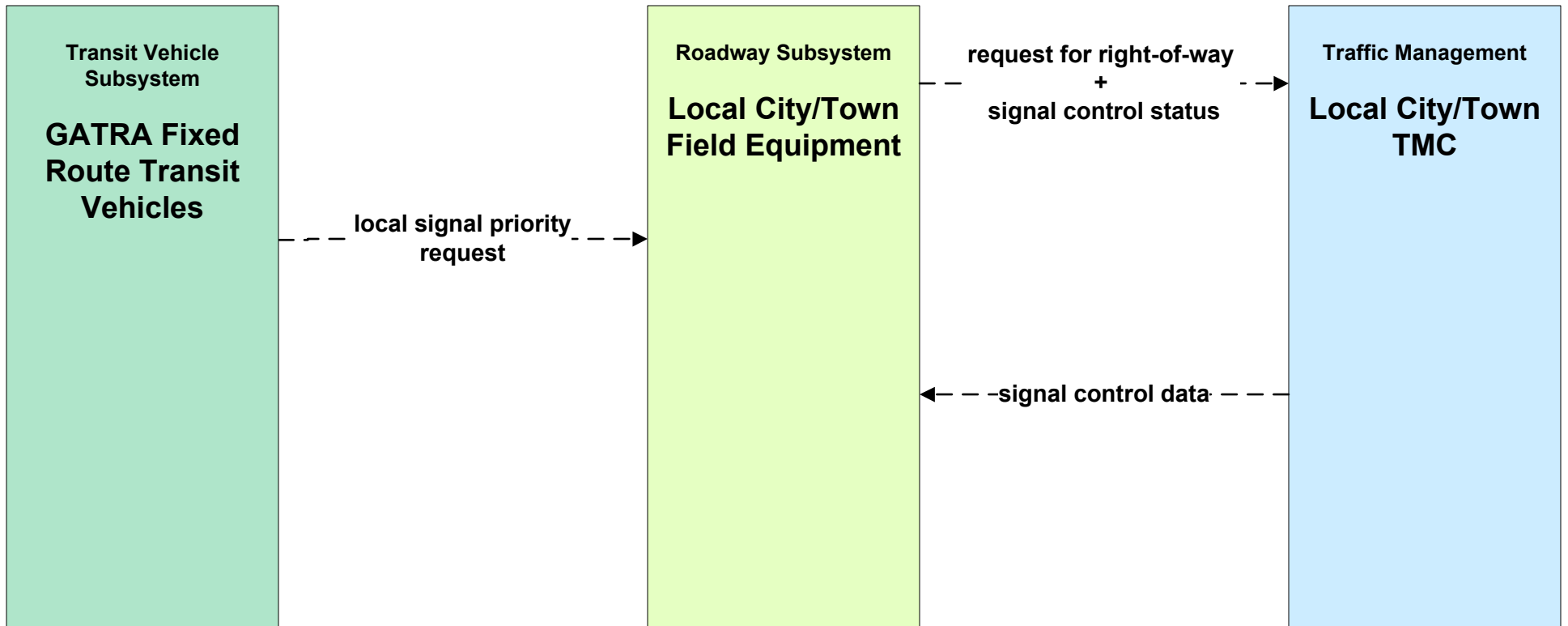




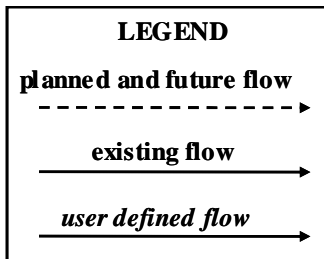
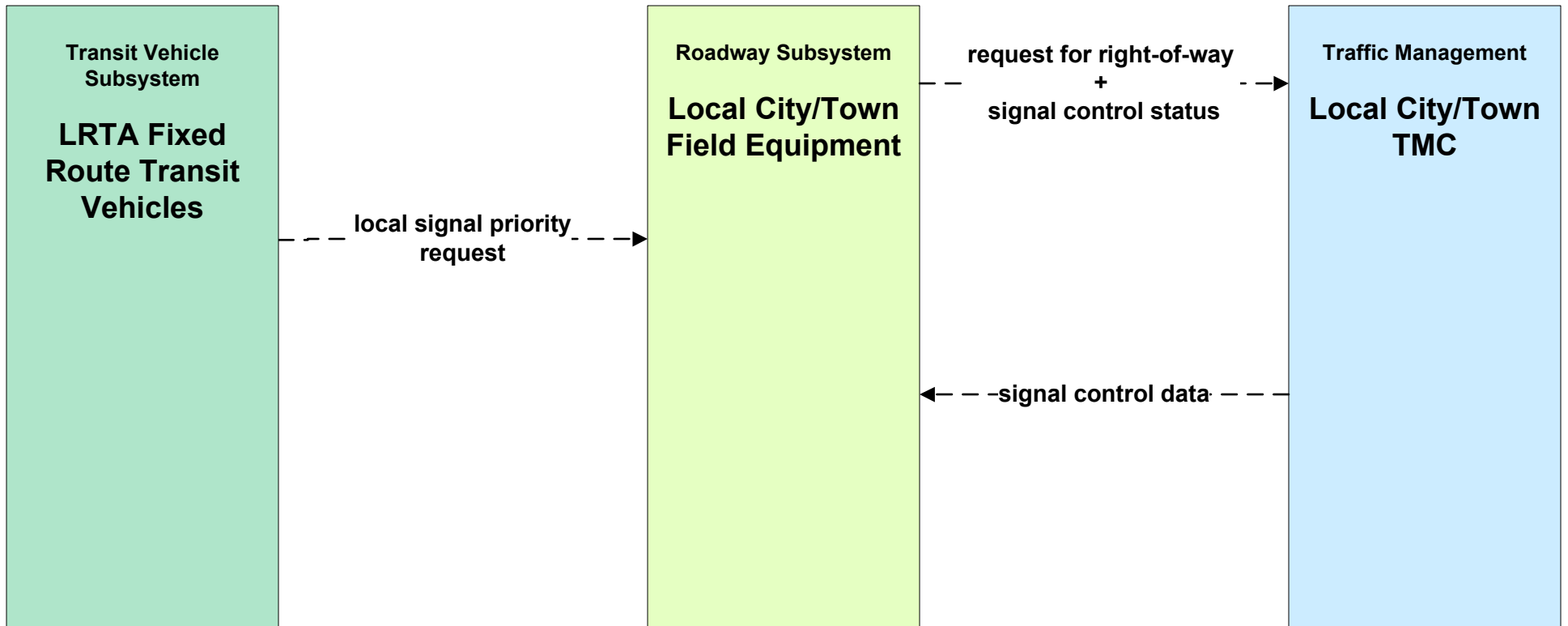
# APTS09 - Transit Signal Priority CATA



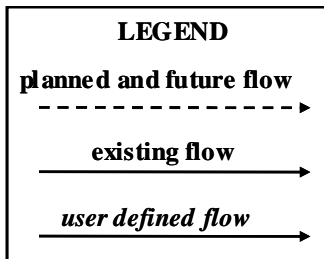
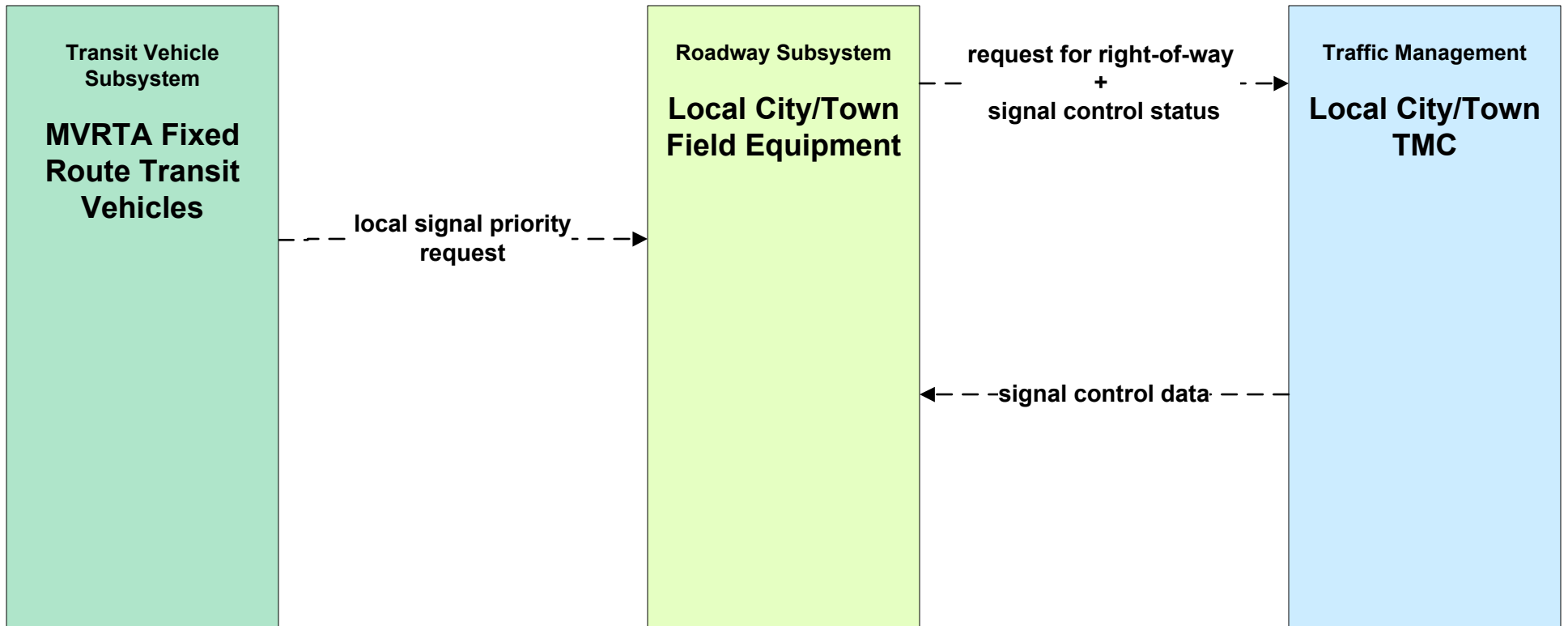
# APTS09 - Transit Signal Priority GATRA



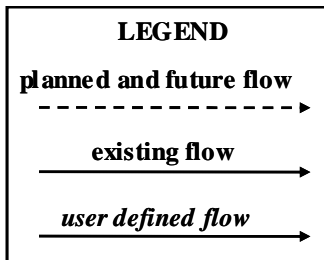
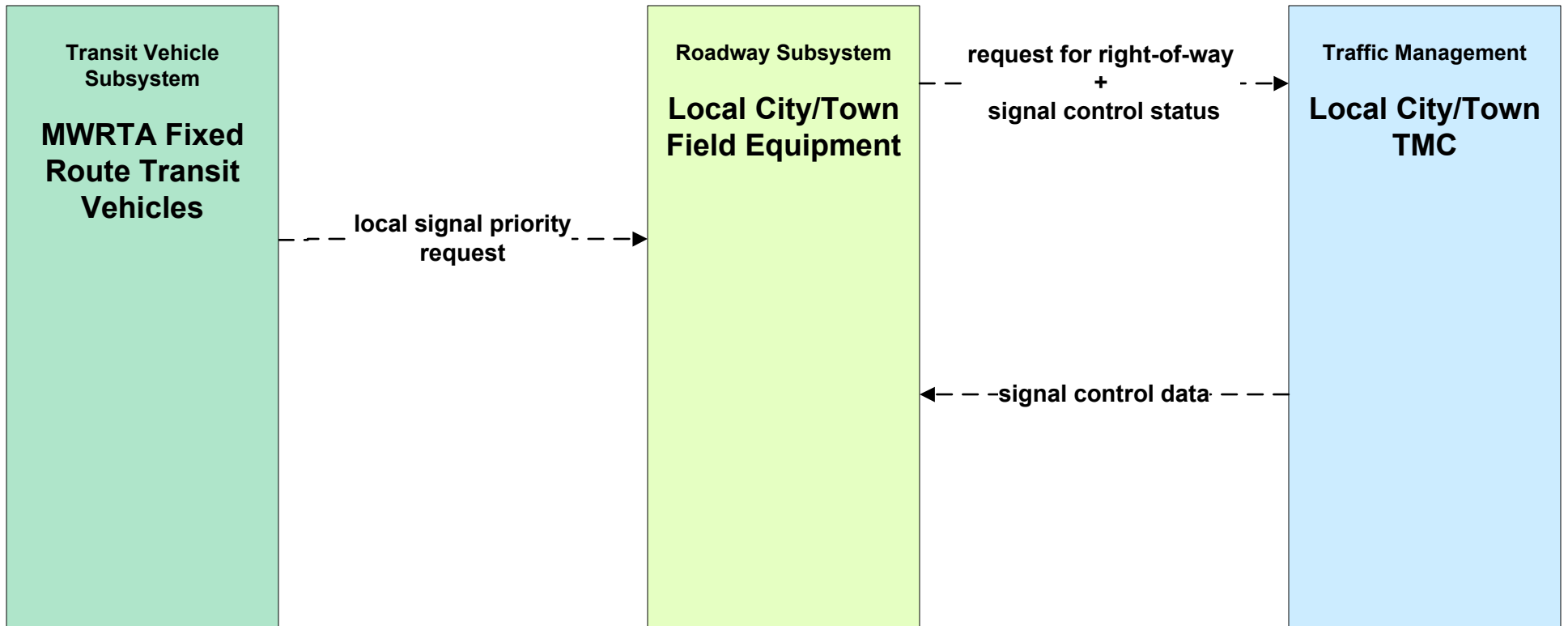
**APTS09 - Transit Signal Priority  
LRTA**



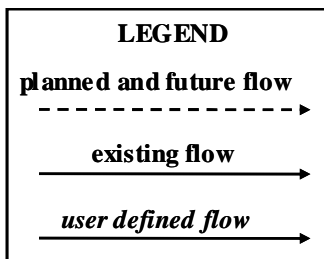
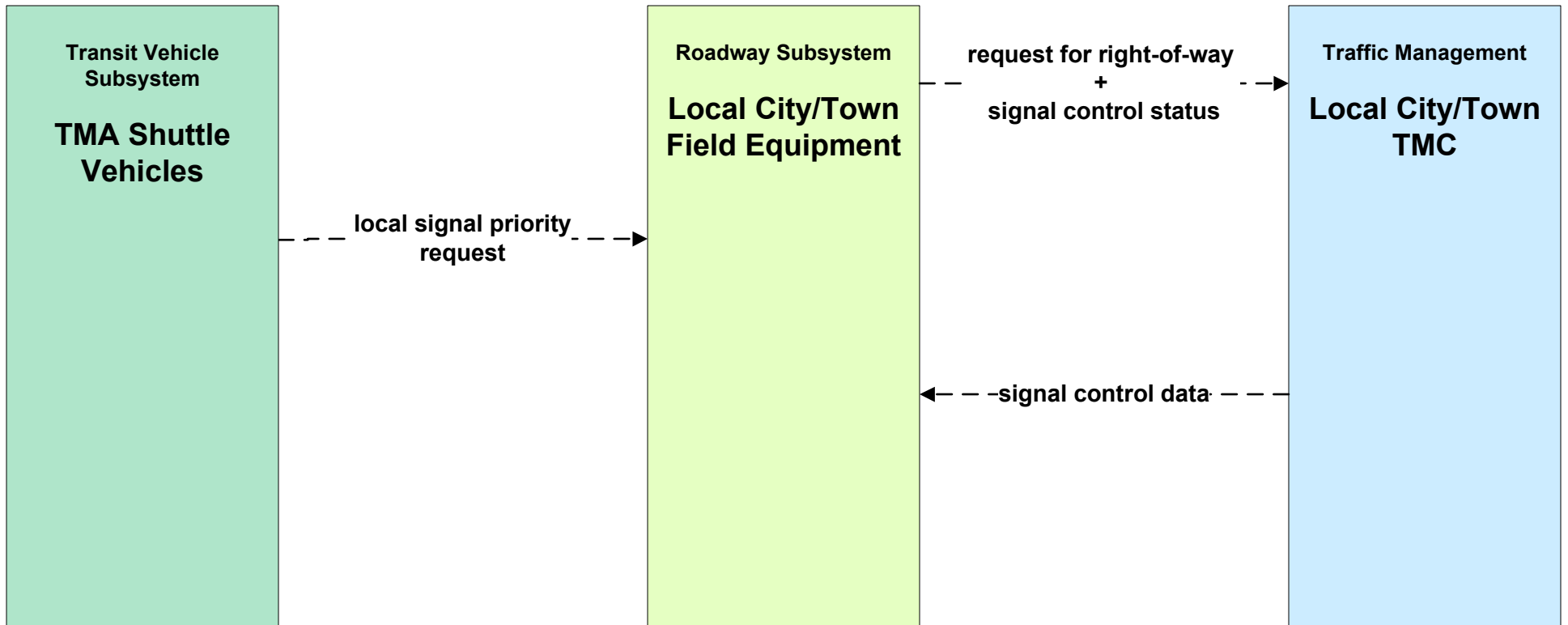
# APTS09 - Transit Signal Priority MVRTA



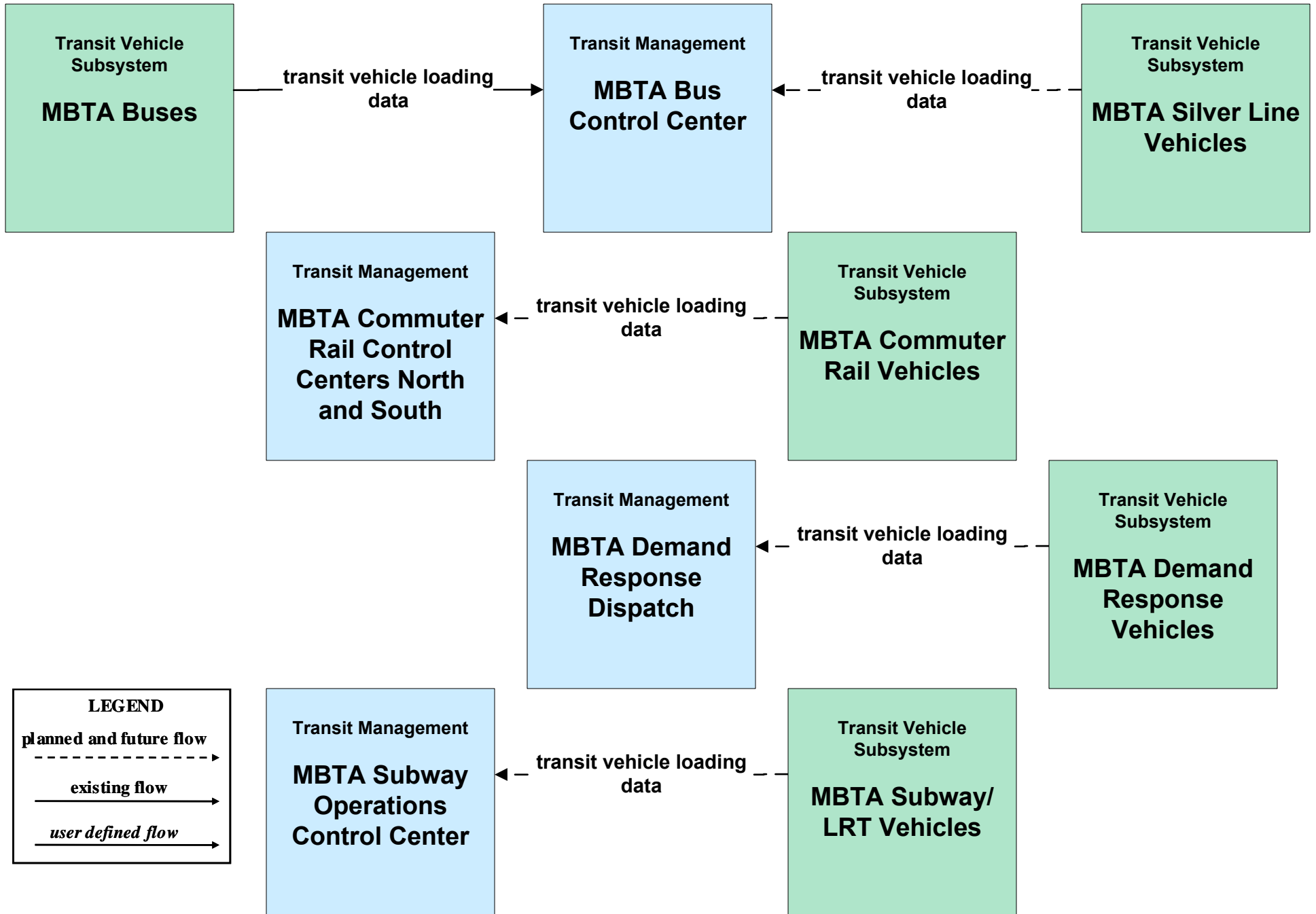
# APTS09 - Transit Signal Priority MWRTA



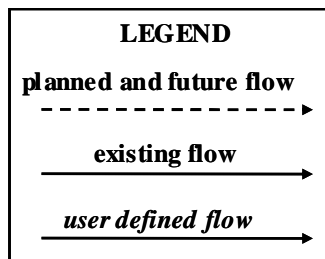
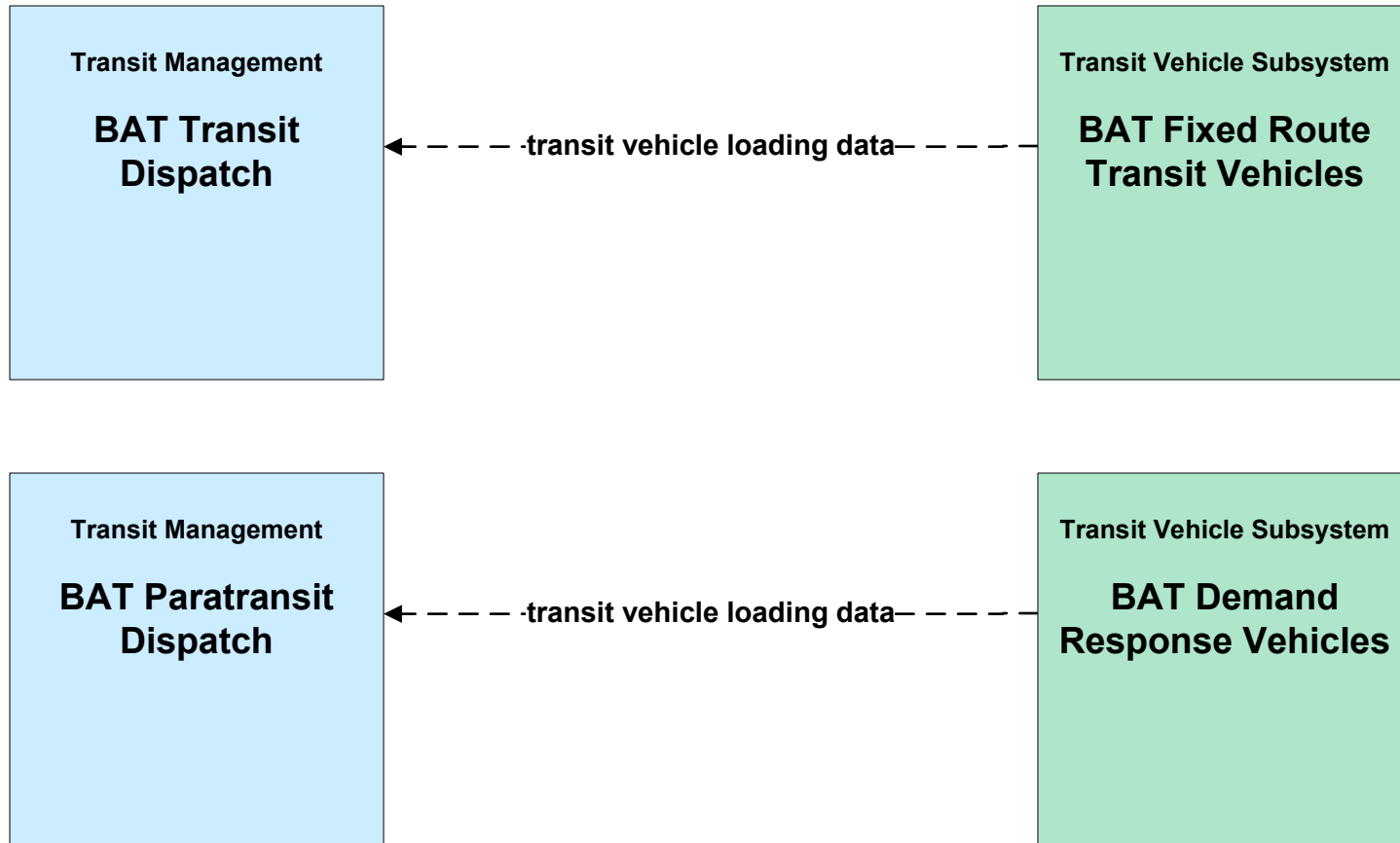
# APTS09 - Transit Signal Priority TMA Shuttles



# APTS10 - Transit Passenger Counting MBTA

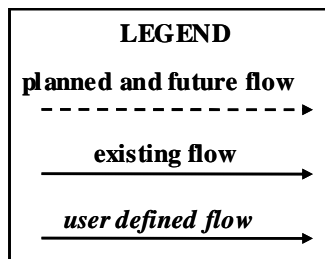
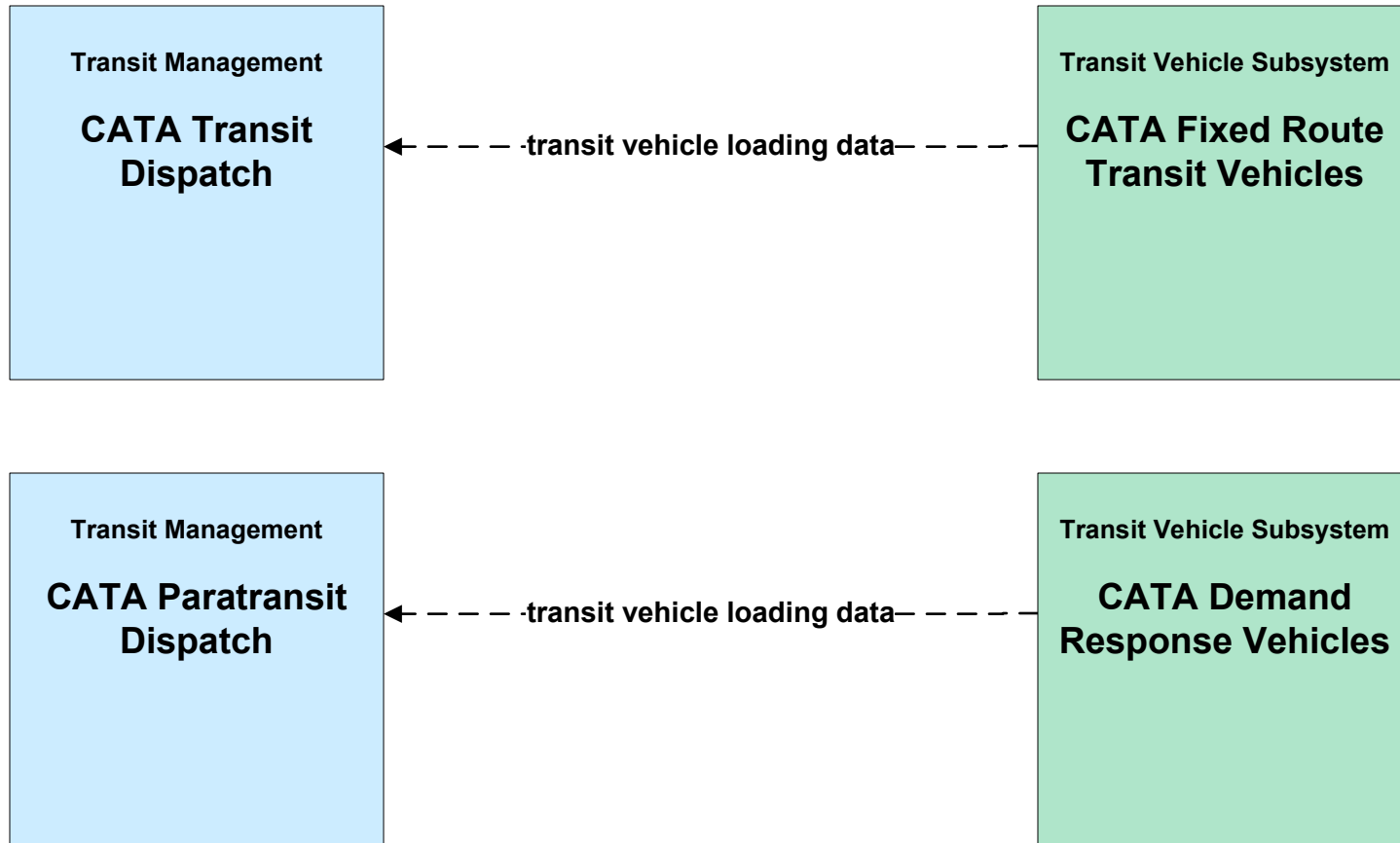


# APTS10 - Transit Passenger Counting BAT

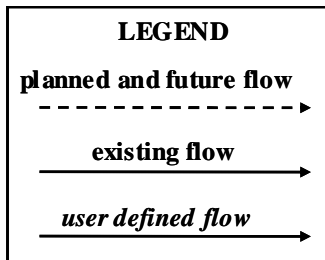
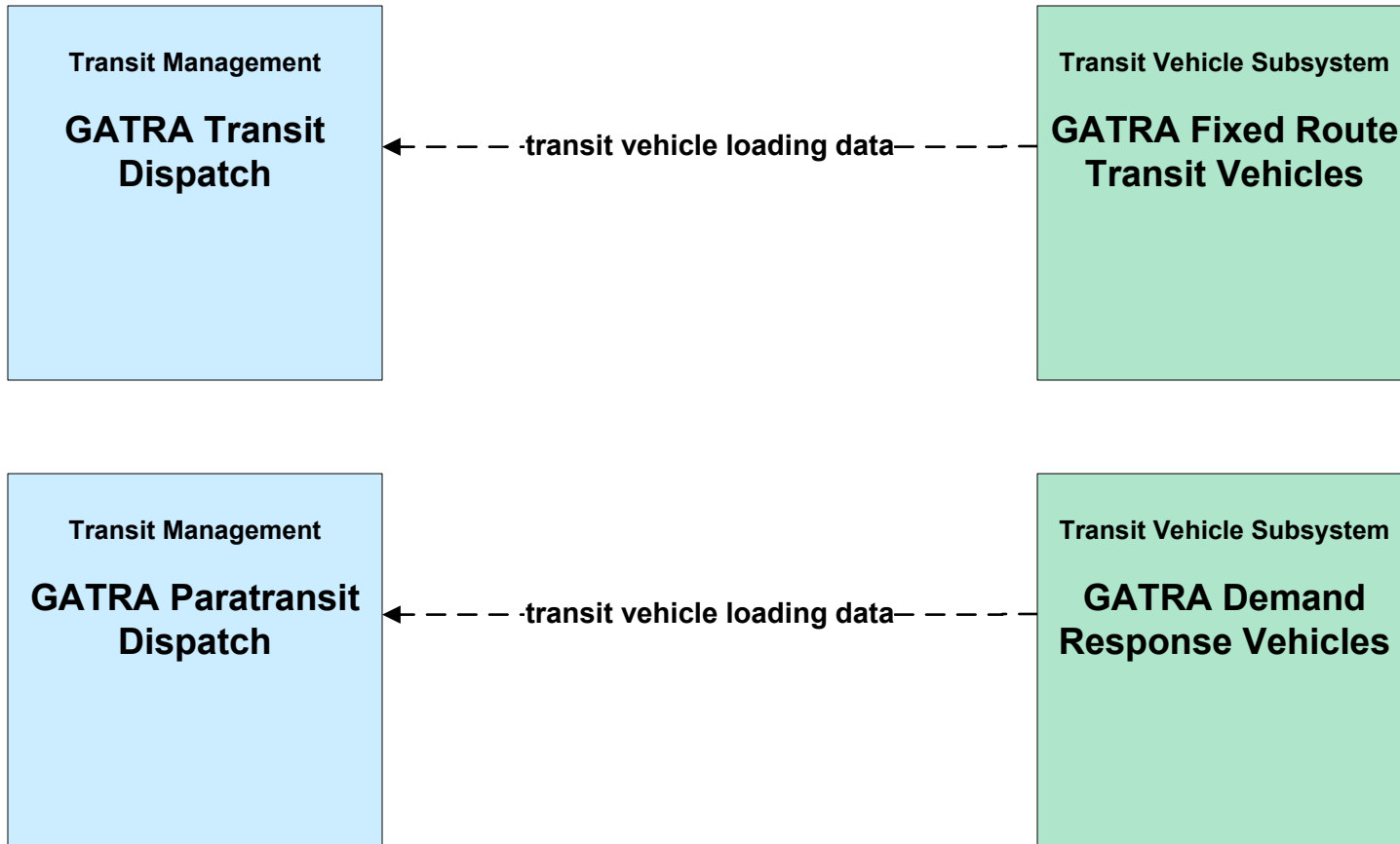




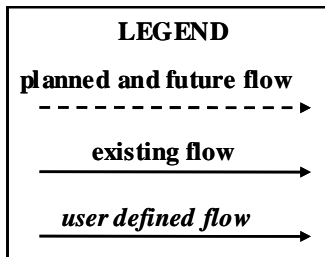
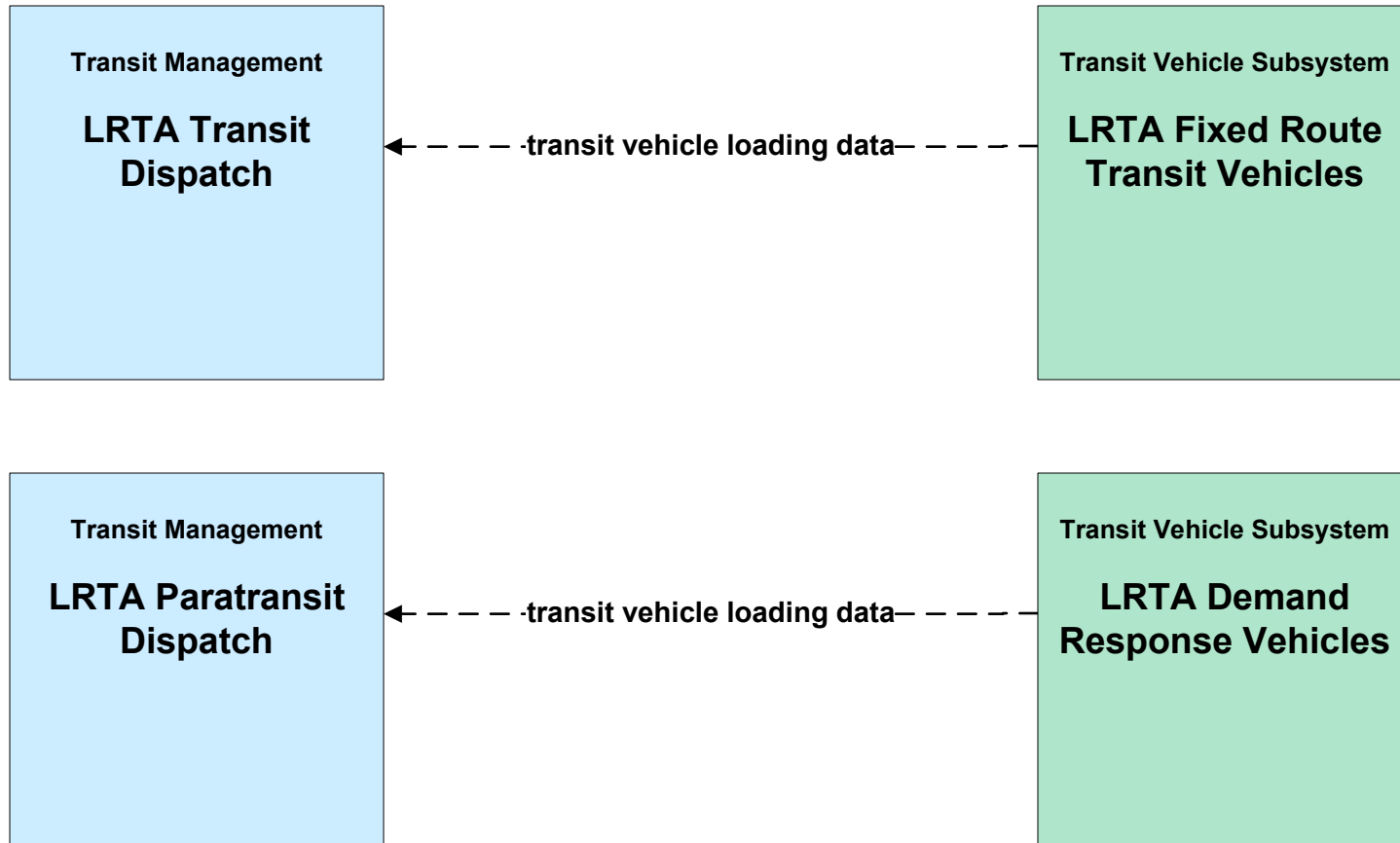
# APTS10 - Transit Passenger Counting CATA



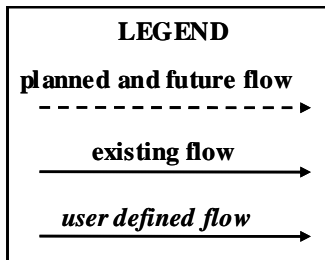
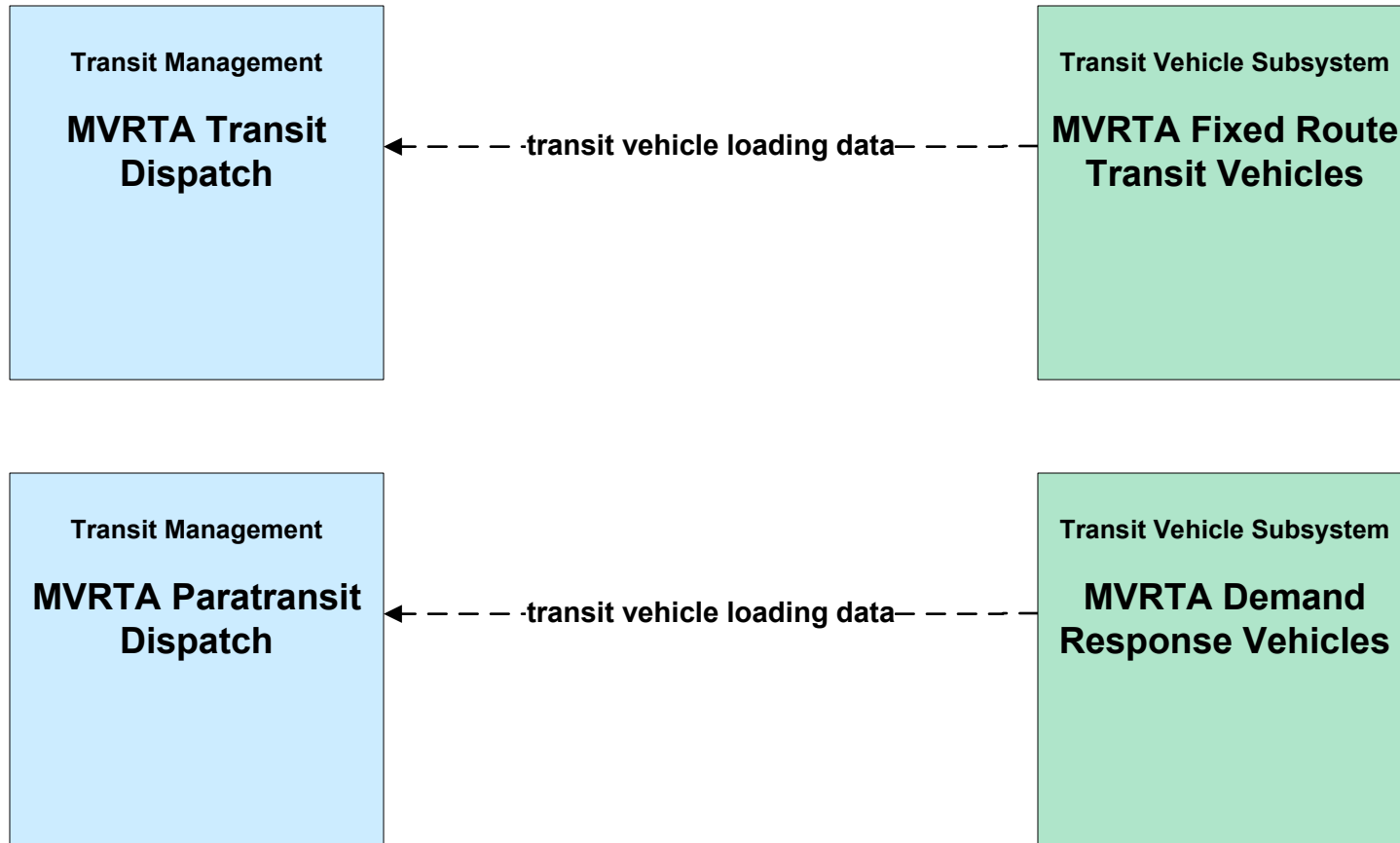
**APTS10 - Transit Passenger Counting  
GATRA**



# APTS10 - Transit Passenger Counting LRTA



**APTS10 - Transit Passenger Counting  
MVRTA**



# APTS10 - Transit Passenger Counting MWRTA

