

Approval of Contract Modification for Cellular and Data Services

Administrative Committee
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DART Communications Eco System

Everyone can communicate to everything

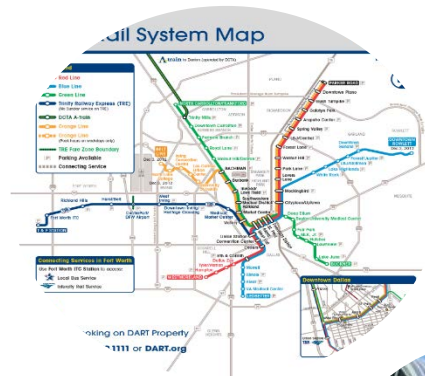
Riders



Employees



Secondary Data Center



Headquarters



ITS/IVC



Stations

Mobile Gateway In-Vehicle System Technology



VIX- AWS
Back-office
AWS

DART
Network

Public or
Private IP
Network

Current
Service

VERIZON
4G LTE

at&t

Proposed
Service

Secure cloud
Access gateway

Ethernet

- Fare System
- Fare Box
- CAD/AVL IVLU
- DVR Camera system
- Infotainment
- Bus Diagnostic
- Future Application
- Future Application



Background

- On August 22, 2017 the DART Board approved a contract with vendor GTS for the installation of new modems on the DART bus fleet in support of the Comprehensive Payment System for a total of \$2,781,842 (to be covered by the kiosk agreement when approved.)
- In addition, an option could be exercised, in the future subject to board approval to install new modems on rail vehicles.
- The new modems allow dual service connections for enhanced connection and coverage.
- The DART bus fleet is equipped with Verizon connection.
- Technology staff commissioned a study of cellular coverage in the area. The study revealed gaps in the Verizon DFW coverage area. To ensure greater continuity of service a backup cellular service would be required.

Background

Three Cellular contracts were established by Procurement in March 2017.

AT&T - \$343,467

Sprint - \$639,179

Verizon - \$2,581,412

This agenda item modifies the AT&T contract.

- 86 % of the modification provides for redundancy
- 9 % provides for new devices and services
- 5 % provides for growth contingency

Modification Provisions

This modification will provide:

- Backup and redundancy wireless communications for:
 - Bus camera and fare payment system real time access (732)
 - 4GLTE communications in Transit Center/Crew Rooms (34)
- New devices and services for:
 - Maintenance shop carts (6)
 - 60 smartphones for concierges

If the Sierra modem contract option is exercised to provide Wi-Fi service, we will submit a request for authorization to increase this contract for services.

Bus Cellular Communications



The Comprehensive Fare Payment System will launch in 2018.

- It requires enhanced communications to minimize delay during transactions.
 - The payment system transaction round trip is 500 milliseconds.
- The new AT&T service will provide backup to Verizon service to ensure ongoing communications.
 - Verizon and AT&T services will be in an active state. If one service fails the good service will provide cell service until the down service returns.

Transit Center/Crew Room Network Upgrade

- Modernization of communications at Transit centers with installation of Verizon 4GLTE service.
- Adding AT&T service to close the service gaps.



Smart Phones and Tablets

Smart Phones and Tablets = Mobile Workforce Benefits

- The addition of AT&T smartphones and tablets are essential to support the business as it moves the workforce into a more mobile posture.



MOBILE WORKFORCE BENEFITS



BETTER WORK-LIFE BALANCE



INCREASED PRODUCTIVITY



INCREASED CUSTOMER SERVICE



MORE WORKFLOW FLEXIBILITY



Source: www.hobsoft.com

Additional AT&T Service and Utilization Requirements

Use	Service Type	Quantity	Term (months)	Total
Buses, Transit Centers, Maintenance shop carts	DATA	772	24	\$ 759,464
Concierge smartphones	DATA + Phone	60	25	\$ 71,985
			Total	\$ 831,449
			5% Growth	\$ 41,572
			Total +Growth	\$ 873,021

Recommendation

Based on current DIR contract

- Increase current AT&T Mobility contract of \$343,467 by \$831,449
- Plus growth contingency of \$41,572
- For a total modification of \$873,021
- For a new AT&T Mobility contract not to exceed amount of \$1,216,488



Questions

