











Railcar Replacement Program Owner Furnished Equipment **Procurement Updates**

Presented to: Committee of the Whole

December 3, 2024

Current Status

- GCRTA engaged with Siemens Mobility, Inc. ("Siemens") to purchase up to 60 railcars
- The railcar specification developed in 2021 details hardware for specific systems to be furnished to Siemens by GCRTA

Connecting the Community

Justification

- Owner Furnished Equipment ("OFE") intended to mitigate obsolescence
 - Contract length
- Final configuration of each system developed after collaboration with Siemens and Hatch

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Owner Furnished Equipment Systems

- Computer Aided Dispatch/Automatic Vehicle Location
- Radio Communication
- Fare Collection
- Fare Validation (supporting Account Based Ticketing)
- Passenger WI-FI
- Cellular Communication

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Procurement Strategy

- Align agreements with the Siemens Railcar Contract
- Purchase 30 railcars sets of equipment initially
- Set up agreements for up to an additional 30 railcar sets of equipment for option trains

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Vontas CAD/AVL Deliverables

- Hardware System for Each Train Operating End
 - IVLU (Integrated Vehicle Logic Unit), MDT (Mobile Display Terminal), Harnesses
- Installation Inspection of First Article Inspection Train

 Pilot Train
 - Siemens Factory in Sacramento
 - Develop Vehicle Acceptance Testing Protocol
- Commission each Train Installation at GCRTA

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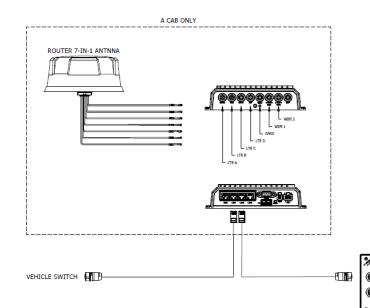
CAD/AVL Features

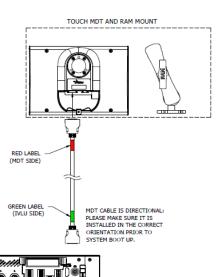
- On-Time Performance
- Real time GTFS (General Transit Feed Specification)
- GPS Vehicle Tracking
- Text/Canned messaging
- Electronic Pre-Trip inspections

- Incident Reports
- Vehicle Playback
- GPS Dead Reckoning
- Single Sign on with Farebox

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CAD/AVL Hardware







Greater Cleveland Regional Transit Authority

Motorola Radio – Voice Communications

- APX6500 Mobile Radios
- Control Head Installed in each Operating Cab
- IMPRES Smart Charger for Portable Radios in each Operating Cab
- Utilizes the Ohio Multi-Agency Regional Communication System (MARCS)
- Includes Initial Programming by Motorola at GCRTA
- Enables Communication Between Operators, ICC and Support Staff along the Right Of Way

Greater Cleveland Regional Transit Authority

Motorola Hardware



APX6500 Radio Chassis



O2 Control Head





IMPRES Vehicle Charger

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Remaining Owner Furnished Equipment

- Cellular Communications and Passenger WI-FI
 - Routers
 - External Antennas
 - Network Switch
 - Internal Antennas
 - Access Point

- Farebox
- Digital Fare Validation
 - Just Ride Validator

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- Owner Furnished Equipment Procurements
 - Computer Aided Dispatch/Automated Vehicle Location
 - Exempt from Competitive Solicitation
 - Radio Communication
 - Exempt from Competitive Solicitation
- Additional OFE Procurements
 - Fare Collection
 - Exempt from Competitive Solicitation
 - Fare Validation (supporting Account Based Ticketing)
 - Exempt from Competitive Solicitation
 - Cellular Communication and Passenger WI-FI
 - Multiple IFBs

Greater Cleveland Regional Transit Authority

- Non-competitive purchase with Trapeze Software Group, Inc. dba Vontas ("Vontas")
 - R.C. 306.43 H(3)
 - Competitive procedures are not required when the expenditure is for a renewal or re-negotiation of a lease or license for telecommunications or electronic data processing equipment, services, or systems, or for the upgrade of such equipment, services, or systems, or for the maintenance thereof as supplied by the original source or its successors or assigns

Connecting the Community

- Procurement requested a proposal October 8, 2024
- A proposal was received November 24, 2024
- A 0% DBE goal was assigned to this project
- Proposal was reviewed by representatives from the Electronic Repair, Rail Equipment, Information Technology, and Procurement Departments

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Connecting

Vontas Experience:

- Pioneers in providing intelligent transportation systems
- Serving transit for over thirty (30) years
- Over forty (40) offices worldwide
- Support 135+ large transit agencies across North America
- Support 1/3 of top 100 fleets in North America in CAD/AVL space

Connecting the Community

Vontas Transit Clients:

 GCRTA, Central Ohio Transit Authority (COTA), Capital Area Transit Authority (CATA), Southwest Ohio Regional Transit Authority (SORTA), Dallas Area Rapid Transit (DART), Massachusetts Bay Transportation Authority (MBTA), Maryland Transit Authority (MTA), Nashville Metropolitan Transit Authority (WeGo) and Pace Suburban Bus (Suburban Chicago), among many others.

Car Sets	Amount
Base 30	\$704,079.00
Option for 18	\$378,006.00
Option for 12	\$252,004.00
Total	\$1,334,089.00

Greater Cleveland Regional Transit Authority

Recommendation:

• Staff requests that the Committee of the Whole recommend to the Board of Trustees the award for Computer Aided Dispatch and Automated Vehicle Locator (CAD/AVL) equipment and services to Trapeze Software Group, Inc. dba Vontas in a negotiated contract amount not to exceed \$704,079.00 for the base thirty car sets, and in amounts not to exceed \$378,006.00 and \$252,004.00 for two options up to an additional eighteen car sets and twelve car sets, respectively, for a total contract not to exceed \$1,334,089.00. This amount is approximately 5% below the independent cost estimate.

Connecting the Community

- Non-competitive purchase with Motorola Solutions, Inc. ("Motorola")
 - R.C. 306.43 H(3)
 - Competitive procedures are not required when the expenditure is for a renewal or re-negotiation of a lease or license for telecommunications or electronic data processing equipment, services, or systems, or for the upgrade of such equipment, services, or systems, or for the maintenance thereof as supplied by the original source or its successors or assigns

Connecting the

Community

- Procurement requested a proposal October 15, 2024
- A proposal was received November 22, 2024
- A 0% DBE goal was assigned to this project
- Proposal was reviewed by representatives from the Electronic Repair, Rail Equipment, Information Technology and Procurement Departments

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Motorola's Experience:

- Headquartered in Chicago, Illinois
- 19,000+ employees in 60 countries
- Highly experienced with public entities and first responders
- Pioneers in mobile communications dating to 1930s
- Developed first cellular phone in 1983
- Heavily invested in R&D
 - \$734M in 2021

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Motorola's Clients:

GCRTA, Akron Metro, City of Cleveland, City of Parma Heights,
 Toledo Area Regional Transit Authority, Detroit Department of
 Transportation, Ann Arbor Transportation Authority, New Orleans
 Regional Transit Authority, Metropolitan Atlanta Rapid Transit
 Authority (MARTA), Washington Metropolitan Area Transit Authority
 (WMATA), and Lake Erie Transit, among many others.

Car Sets	Amount
Base 30	\$211,364.40
Option for 18	\$126,818.64
Option for 12	\$111,527.64
Total	\$449,710.68

Greater Cleveland Regional Transit Authority

Recommendation:

• Staff requests that the Committee of the Whole recommend to the Board of Trustees the award for mobile radio communications equipment to Motorola Solutions, Inc. in a negotiated contract amount not to exceed \$211,364.40 for the base thirty car sets, and in amounts not to exceed \$126,818.64 and \$111,527.64 for two options up to an additional eighteen car sets and twelve car sets, respectively, for a total contract not to exceed \$449,710.68. This amount is approximately 2% below the independent cost estimate.

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Questions

Connecting the Community