Greater Cleveland Regional Transit Authority

Summary of Proposed Award Radio Replacement Study

Presented to : Operations Committee March 7, 2017

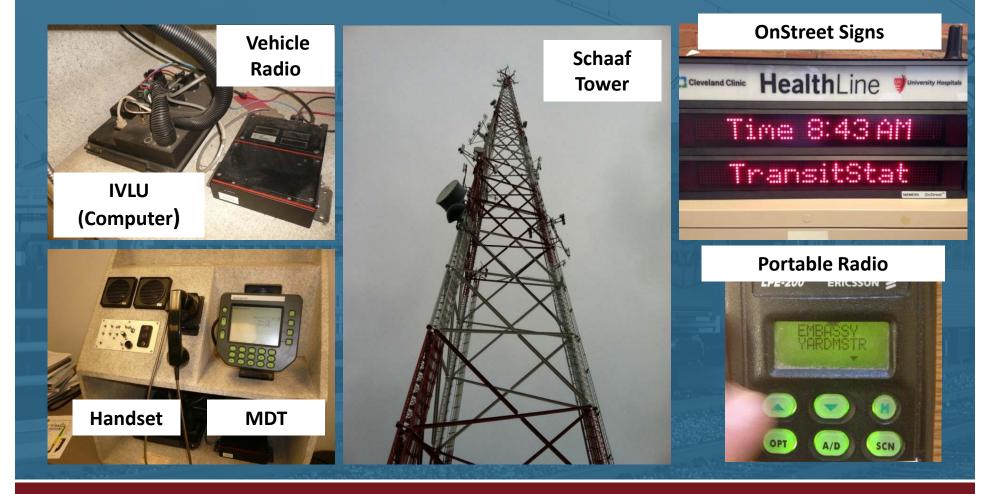


History of Current Radio System

- o Procurement started in 1999
 - Combined project with CAD/AVL purchase
 - o Four (4) vendors during life of the project
- 900 MHz System Date and Voice
 - o Four (4) Radio Towers
 - o Portable Radios
 - Onboard-Vehicle radios



Current Radio System Equipment



Radio System Communication



Vehicle



Radio Towers



Servers



TransitMaster Software

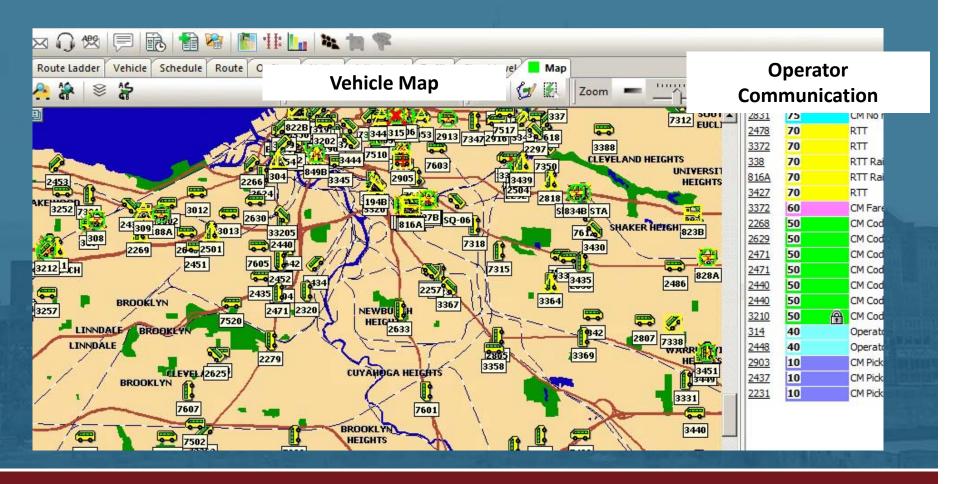


Customer Real-Time Information

Data being Transferred



Radio System Communication



Radio System Risks

- Aging system with obsolete technology
- Many parts are no longer sold and difficult to purchase/repair
- As parts fail, the radio coverage declines
 - Loss of communication with operators and supervisors (rail and bus)
 - Loss of visual location of each vehicle
- o Estimated Replacement: \$9-15 million



Purpose of the Study

- Identify the best communication option for RTA
 - o Traditional Radio Privately owned
 - o Traditional Radio Leased
 - Commercial Cellular Provider (Verizon/Sprint)
 - Hybrid Solution Traditional Radio and Cellular
- Use the recommended solution for grant applications



Scope of Services

Task 1	Identify radio replacement opportunities/methods
Task 2	Develop SWOT and Gap Analysis for each method
Task 3	Perform a voice and data coverage test for each method
Task 4	Develop cost/benefit analysis for each method
Task 5	Provide a final recommendation

- RFP issued October 10, 2016
- Proposals due December 20, 2016
- 24 interested parties downloaded the solicitation from the website
- 4 firms submitted proposals



- Evaluation Panel Members
 - Electronic Repair
 - Information Technology
 - Intelligent Transportation Systems (ITS)
 - Office of Management and Budget (OMB)
 - Procurement





- Evaluation Criteria
 - Qualification of assigned resources
 - Completeness of proposal
 - Cost
 - Vendor experience



- Recommended Vendor
 - IBI Group
 - Multi-disciplinary engineering and planning firm
 - Founded in 1974
 - 63 offices internationally, 2,600 employees
 - Extensive work with public transit agencies
 - Direct experience with transit communication systems and technologies
 - Project Manager with 15 years experience
 - Multiple modes of transit (2 RTA projects)



- Firm's Transit Experience
 - RTD (Denver), TriMet (Portland), Spokane Transit Authority, Community Transit (Washington), AC Transit (Oakland), and GCRTA (project manager), among others

A 0% DBE goal was assigned to this project



- Recommendation
 - Staff requests that the Operations
 Committee recommend award to IBI Group
 to provide a radio replacement study in a
 total contract amount not to exceed
 \$155,238