











Hastus Software Upgrade

Presented to: Organizational, Service and Performance Monitoring Committee September 1, 2020

Intelligent Transportation Systems (ITS)

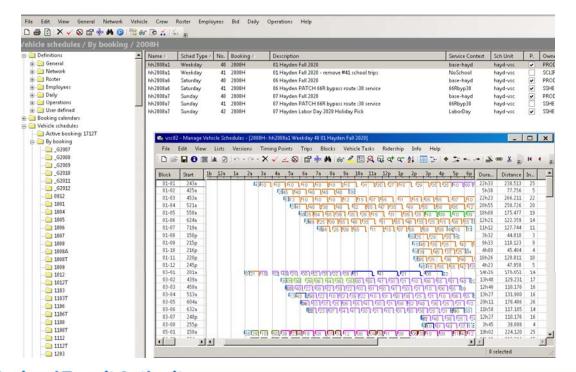
The department's primary responsibility to manage software applications and supporting technology to improve and enhance RTA's Operations division.

Current Applications	Function
MARCS Radio System	 Voice communications for buses, trains and field supervision RTA manages 895 radios to provide service to riders
TransitMaster	 GPS tracking and management of buses and trains Real-time information for riders
Mobile Routers	 Passenger Wi-Fi Provides the data connection for buses and trains 2 SIM cards per vehicle: FirstNet for Operations and Commercial cellular for passengers
Ultramain	Vehicle and Facilities MaintenanceInventory and Supply Chain Management
Hastus	 Operator Scheduling and work assignment Route scheduling and service frequency
NICE	Radio and Phone recorder for dispatch offices and control center
GenFare	Fare collection and farebox monitoring
Paladin	Red Line public address system and visual display
Spillman	Transit Police dispatch and records systems

Greater Cleveland Regional Transit Authority



Hastus



Greater Cleveland Regional Transit Authority



Vendor: GIRO

- RTA's current, software vendor for scheduling and bid dispatch
 - Manages operator's work performance, scheduling, daily work and payroll
 - Most recent upgrade was in 2012
- Proprietary software and hardware
 - Sole Source
 - Perform installation, testing and product support

RTA

Project Scope

- 1. Process Review
- 2. Hardware Upgrade
- 3. Software Upgrade
- 4. Training
- 5. Support

RTA

Key New Features

More than 100 new/useful features between our current version and newest version

New Features	Purpose
Automatic Trip Generation	Tools based on desired frequency by route and time period
Enhanced Algorithms	Optimization balances quality and operations costs, determine optimal trip start times, etc.
Graphical Tools	Schematic representation of transit network and services
At-a-Glance Mapping Interface	Visualize and manage the network map with the comparison of different scenarios (service frequency, ridership, transfer quantity, etc.)
Customer Impact Simulator	Compares passenger travel times on proposed networks. Dashboard creation allows for enhanced finding in a presentation format.

Greater Cleveland Regional Transit Authority

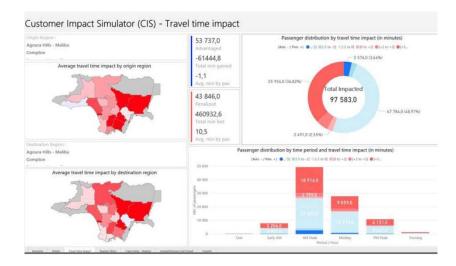


Key New Features

Map-based Interface



Customer Impact Simulator





Projected Project Schedule

Task	Estimated Completion	
Project Kickoff	October 2020	
Process Review	November 2020	
Hardware Replacement	February 2021	
Software Upgrade (3 Phases)	March 2022	
Acceptance	April 2022	
Project Closeout	May 2022	



Project Expense

Hastus Software Expense

GIRO Expense	Scheduling Modules	Operations Modules	Total
Fixed Route/Paratransit	\$356,724.00	\$241,243.00	\$597,967.00
Services	\$120,155.00	\$419,505.00	\$539,660.00
NetPlan	\$176,775.00		\$176,775.00
Total	\$653,654.00	\$660,748.00	\$1,314,402.00

