



TO: Jeff Letwin
Representative Lori Mizgorski

FROM: Jennifer Liptak

DATE: January 13, 2020

SUBJECT: Technology Committee Meeting – Friday, January 17, 2020

The next meeting of the Technology Committee is scheduled for Friday, January 17, 2020 at 9:30 a.m. or immediately following the Performance Oversight Committee in the fifth floor Board Room at Port Authority's offices. The preliminary agenda for the meeting will be as follows:

1. Call to Order
2. Approval of minutes of November 14, 2019 Technology Committee meeting
3. Resolution:
 - Authorization to Enter into an Agreement with Clever Devices Ltd., for Disruption Management Module and IVN5 Upgrade Services (Jeffrey Devlin)
4. Presentation:
 - Open Data Initiative (Ellie Newman, Manager of Transit Analysis)
5. Update:
 - Mobile Ticketing Application (Jeffrey Devlin and Mike Veltri)
6. Adjournment

**Technology Committee
Minutes
November 14, 2019**

The meeting was called to order at 10:00 am in Port Authority's Neal H. Holmes Board Room at 345 Sixth Avenue, Fifth Floor, Pittsburgh, with the following in attendance:

Board Members:

Jeffrey Letwin
Representative Lori Mizgorski
Ann Orgoreuc

John Tague, Jr.
Michelle Zmijanac

Opening Remarks

Mr. Letwin opened the meeting and welcomed those in attendance.

Approval of Minutes from the September 19, 2019 Technology Committee Meeting

Mr. Letwin asked Members if there were any corrections to the minutes. There were none and members approved the minutes.

Resolution

- ❖ Authorization to Extend and Amend the Agreement to Provide Cloud-Based Hosting Services (Jeffrey Devlin, CIO), *Sole Source Agreement* – Passed

Presentation

- ❖ Jim Ritchie, Chief Communications Officer, gave a presentation on Customer Service Enhancements using Digital Technology.

Questions

- ❖ Are the "taps" being tracked on the kiosks? *Yes, currently we have the highest usage on our kiosks, of any agency.*

SUMMARY OF RESOLUTION

Authorization to Enter into an Agreement with Clever Devices Ltd., for Disruption Management Module and IVN5 Upgrade Services

Beginning in 2000, Port Authority of Allegheny County (Authority) began outfitting new buses with Clever Devices Ltd.'s (Clever Devices) SmartBus Intelligent Vehicle Network (IVN) System incorporating on-board Automated Voice Annunciation (AVA), on-board Automated Vehicle Monitoring (AVM) and Automated Passenger Counting (APC) systems including wireless data communications. Currently, all of the Authority's bus and rail fleet is equipped with Clever Devices' IVN systems. Route awareness data for onboard systems is managed by CleverWorks software.

The Authority has concluded that its services to the public would be enhanced by an upgrade of our current IVN System, changing from Clever Devices IVN3 hardware to IVN5 hardware, to provide the most up-to-date functionalities. The upgrades would provide improved transit screen layout, turn-by-turn functionality, text-to-speech functionality for ADA announcements and full capabilities of Disruption Management software.

The Authority has further concluded that its patrons would greatly benefit from access to real time detour and system disruption information available through the integration of Clever Devices' Disruption Management Module software. This Module will include passenger notification of detours in real time, service short turns, trip cancellations and other relevant information through CleverCAD and real time systems. The Disruption Management Module will also allow staff to re-route vehicles to adjust for road closures, creating an entirely new path for the bus. Riders, including those who may already be on-board, will be notified of the unexpected change of service. Real Time systems will make predictions for the new service providing passengers with the most up-to-date information. The Module will allow the back-end reporting systems to automatically update with the new plan of service, recording the actual service performed, on-time performance, missed trips and other important metrics are captured for analysis.

The Authority desires to enter into an agreement (Agreement) with Clever Devices to purchase Clever Devices' IVN5 hardware upgrade and the Disruption Management Module (Services). Services would be acquired as a sole source procurement as the software and hardware are proprietary to Clever Devices and it is the only source from which the Authority can utilizing its current system, acquire the hardware and software that will allow the Authority to provide riders with updated real time information, ad-hoc text to speech messages and the True Time system to track buses once they detour from normal path. The new hardware and software must properly and economically interface with the Authority's existing system and allow the Authority to maintain the integrity of its system. The Authority has determined that the pricing of Services is competitive and comparable to prices charged to others.

The attached resolution authorizes the Authority to enter into Agreement with Clever Devices for Services for up to three years to install the software, provide training and maintenance for the new software modules at a total not-to-exceed amount of \$2,897,436.

RESOLUTION

WHEREAS, Port Authority of Allegheny County (Authority) has previously and successfully implemented certain Clever Devices Ltd. (Clever Devices) software and hardware modules for performing the core functions of automated voice announcements, automated passenger counting and automated vehicle monitoring for buses; and

WHEREAS, Clever Devices' hardware and related software are proprietary to Clever Devices and may only be purchased from, integrated by, modified by and installed by Clever Devices; and

WHEREAS, Clever Devices currently provides other copyrighted software modules and services that will further upgrade and expand the capabilities of the Authority's existing system; and

WHEREAS, as part of the Authority's ongoing initiative to improve its monitoring capabilities and add useful life span to the existing system, the Authority desires to procure additional hardware, software and licenses from Clever Devices; and

WHEREAS, the Authority has determined that its patrons and system would greatly benefit from an improvement of currently available route awareness data by upgrading the Authority's bus and rail fleets from Clever Devices IVN3 hardware to IVN5 hardware, and by incorporating Clever Devices Disruption Management Module software in order to provide improved functionalities.

WHEREAS, the hardware, software and services proposed to be purchased from Clever Devices, as part of the upgrade of the Authority's existing Clever Devices System include the purchase and installation of an upgraded operating system, project management, associated licenses, training and related services; and

WHEREAS, the software and hardware offered by Clever Devices is the only such software and hardware which can readily interface with the Authority's existing system and which will allow the Authority to maintain the integrity of its system; and

WHEREAS, to allow the services to be performed by Clever Devices, the Authority seeks authorization to enter into an agreement with Clever Devices for the services for up to three years at the total not-exceed amount of \$2,897,436.

NOW, THEREFORE, BE IT RESOLVED, that the chief executive officer and/or chief information officer be, and hereby are, authorized to execute an agreement with Clever Devices for the services, in a form approved by counsel, for the purchase of the services over three years for a total not-to-exceed amount of \$2,897,436, and to take all such other actions as may be necessary and proper to carry out the purpose and intent of this resolution.