

Clipper® Executive Board

September 23, 2024

Agenda Item 3a

Clipper® Schedule, Implementation, and Deployment Update

Subject:

Update on key developments related to the implementation of the Next Generation Clipper System (C2). The President of Cubic Transportation Systems will be in attendance to provide a system integrator progress report.

Background:

Next Generation Project Schedule

At the May 20, 2024, Clipper Executive Board meeting, MTC staff had assumed that testing, and several other schedule risks, would be substantially complete. At that May meeting, staff reported that we would need to come back to this Board in September with a more comprehensive schedule update.

While there have been significant accomplishments over the past few months, there is not enough schedule clarity and there remains too many schedule risks to establish a start date for Customer Transition.

Since the last Board meeting, we have accomplished the completion of a major milestone that tested the functionality of the new system on a Pilot with 5 operators.

Besides system updates made from the lessons of the first Pilot, we have also accomplished:

- The replacement of all bus and platform reader equipment
- An update of the live production system necessary for other vendors to begin their final integration steps
- And Cubic is now performing dry-run tests in their lab in preparation for the final phase of testing, called System Integration Testing.

Once the System Integration Testing is complete and the other parts of the system are ready, we will conduct a second full system pilot, called Pre-transition Pilot on all operators.

Attachment A to this memo provides the latest project schedule. Because we are just at the start of this last phase of testing with significant schedule risks still remaining, it is difficult to project a precise date for the start of Customer Transition. Attachment A shows several views to the Clipper Program Schedule that will be discussed during the meeting, including the completion of System Integration Testing, the Pre-Transition pilot, the schedule risks, the plan for the next 30-days, and finally the currently projected date for the start of Customer Transition.

Staff will continue to monitor the progress of our on-going activities, and we are working with our partners and evaluating opportunities to accelerate Customer Transition. We will report back to this Board in December on the progress to reduce the schedule risks, and towards determining a new target date for the start of Customer Transition.

C2 Schedule Risks

MTC continues to work with Cubic, transit operators, and other partners to address the following high-priority risks:

- Completion of the dry-run phase of Cubic lab testing
- Start to System Integration Testing
- Fare Gate integration and installation
- Ticket Vending Machine integration and installation with BART and regionally with Ventek
- Integration with the phone providers and their payment wallets

C2 Implementation

Included as Attachment B to this memorandum is a summary of recently completed activities related to delivering the next-generation system; upcoming activities and deliverables for MTC, Cubic, and the transit operators; and other noteworthy items managed by the project team.

C2 Equipment Deployment

The installation of on-board Clipper readers and stand-alone platform readers has been substantially completed. BART continues to make progress with the installation of next-

generation readers (TR4s) at its fare gates and is testing Cubic's release of production-ready software for its ticket vending machines.

C2 Testing

System integration testing is expected to begin in September, followed by the Pre-Transition Pilot in 2025.

Issues:

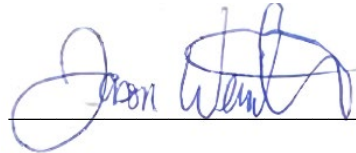
Schedule risks described above

Recommendations:

Information

Attachments:

- Attachment A: Next Generation Clipper Program Schedule Presentation
- Attachment B: Next Generation Clipper Program Executive Summary Status Report



Jason Weinstein