

Clipper® Executive Board

December 16, 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). Senior staff from Cubic Transportation Systems will provide a system integrator progress report.

Background:

Next Generation Project Schedule

Since the last Clipper Executive Board meeting on November 18, we have continued to make progress on the tasks identified in November and December to maintain the schedule we presented in September for a potential Spring start of customer transition. To continue maintaining schedule, MTC has been working closely with Transit Operator staff and is allowing Cubic's requested minor functionality deferrals until after Customer Transition. We have completed witnessing 35 of the 51 system components covered by formal System Integration Testing, and Cubic projects that testing will be substantially completed by the next CEB meeting on January 27, 2025. The schedule critical path items are unchanged; system integration testing, mobile wallet integration and Ventek ticket vending machine deployment continue to be the driving schedule risks. Because these risks are still open, and we want to preserve the current customer experience, at this time we cannot provide a date certain for the Start of Customer Transition.

Below is an update to the reported items that needed to be accomplished in the 30 days following the November 18 CEB meeting to preserve the schedule:

- Continuation of System Integration Testing for Operator Business Rule Modules
 - SIT witnessing sessions were held for 35 of the 51 components. The current estimated time of completion is the end of January.
- Mobile Wallet Testing in the C2 Production Environment

- Limited production testing is underway
- Begin installation of readers into BART ticket vending machines (TVMs) in the field
 - BART and Cubic resolved the TVM issues in the BART lab and at the pilot installation at the 19th Street Oakland station.
- Ventek TVM Software Testing (Caltrain, GGBHTD, SMART, VTA)
 - Ventek has made continued iterative progress with Cubic's assistance

In the next 30 days we plan to complete the following items:

- Completion of system integration testing
- Begin field readiness testing in the production environment of;
 - Mobile wallets
 - Ventek ticket vending machines (Caltrain, GGBHTD, SMART, VTA)
 - BART and SFMTA gates and ticket vending machines
- Begin station installation at BART ticket vending machines and add-fare machines

Staff will continue to monitor and assist with expediting ongoing activities in advance of the Pilot and Customer Transition. We will report back to this Board in January on the progress to reduce the schedule risks, and towards establishing a more certain date for the start of Customer Transition.

C2 Schedule Risks

The risks remain unchanged from last month. MTC continues to work with Cubic, transit operators, and other partners to address the following high-priority risks:

- Completion of System Integration Testing
- Fare Gate integration and installation
- Ticket Vending Machine integration and installation with BART and regionally with Ventek machines
- Fully tested integration with the phone providers and their payment wallets

C2 Implementation

Included as Attachment A 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 its ticket vending machines.

C2 Testing

System integration testing started in October. The completion of testing will be followed by the Pre-Transition Pilot in 2025.

Issues:

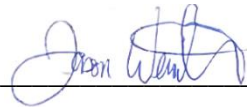
Schedule risks described above

Recommendations:

Information

Attachments:

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



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