Clipper® Executive Board

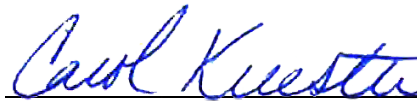### Next Generation Clipper® System Update

Subject: Update Board members on key developments related to the implementation of the Next Generation Clipper System Integrator project, provide an overall program update, and to highlight key technical updates.

Background: **Executive Summary**
Included as Attachment A to this memorandum is a summary of recently completed activities related to delivering the program; upcoming activities and deliverables for MTC, Cubic, and the transit operators; and noteworthy items that the project team is managing. This will be updated and presented to this Board monthly.

Next Generation Clipper Technical Update
Included as Attachment B to this memo is a summary of key technical items that Cubic has provided to the Board to show updates and technical activities related to the development of the Next Generation system. MTC and transit operators have invited the Next Generation Clipper Technical Advisors, IBI Group, to discuss overall program progress during the June Executive Board meeting.

Attachments: **Attachment A:** Next Generation Clipper Program Executive Summary Status Report
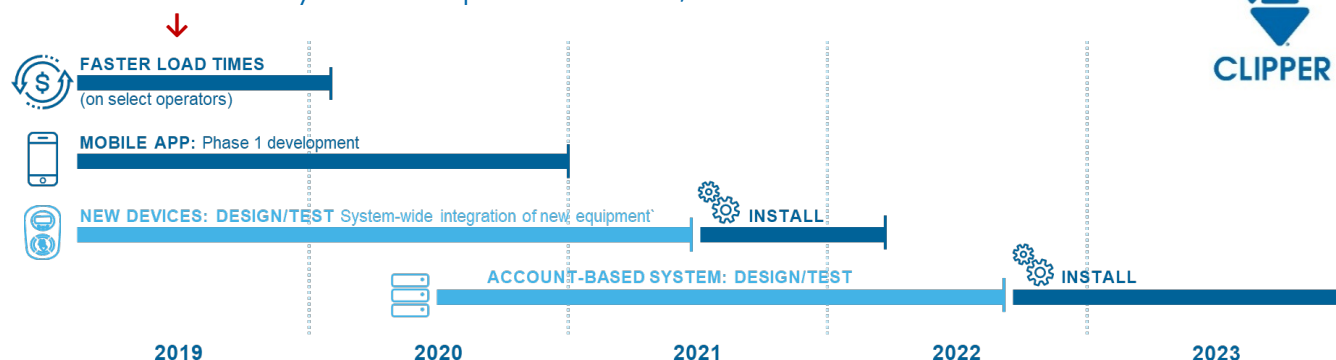**Attachment B:** Next Generation Clipper Technical Update

Carol Kuester

Next-Generation Clipper Program
Executive Summary Status Report – June 17, 2019

CLIPPER

FASTER LOAD TIMES (on select operators)

MOBILE APP: Phase 1 development

NEW DEVICES: DESIGN/TEST System-wide integration of new equipment` — INSTALL

ACCOUNT-BASED SYSTEM: DESIGN/TEST — INSTALL

2019　　2020　　2021　　2022　　2023

Summary

- Test Plans for Faster Load Times and Mobile App under review.
- Mobile App user interface/user experience (UI/UX) design process underway.
- Cubic surveys of vehicles/locations with legacy ERG equipment underway.
- Technical discussions continue with operators.

Recently Completed Activities

	MTC/IBI	Cubic	Operators	Date
Technical meetings with operators:				
o BART	●	●	●	May 15
o SFMTA	●	●	●	May 17
Accelerated Deployment Test Plans:				
o Faster Loads test plan submitted by Cubic		●		May 28
o Mobile App test plans submitted by Cubic		●		Jun 11
Mobile App UI/UX design workshops	●	●	●	Jun 3, 10

Upcoming Activities/Deliverables

	MTC/IBI	Cubic	Operators	Date
Legacy ERG equipment surveys continue		●	●	through June
Mobile App UI/UX design workshops	●	●	●	Jun 17, 24, 28; Jul 8, 15
Technical meetings with operators:				
o BART	●	●	●	Jun 19
o SFMTA	●	●	●	Jun 21
Accelerated Deployment Test Plans:				
o Faster Loads test plan initial comments due	●		●	Jun 24
o Mobile App test plans initial comments due	●		●	Jul 9
o Faster Loads test plan final comments due	●		●	Jul 12
Clipper Executive Board Meeting	●	●	●	Jul 15

Items to Highlight

Description	Resolution/Mitigation
- Frequent interaction needed with Mobile App UI/UX working group due to Cubic's sprint-based design approach.	- Working group to meet weekly by supplementing the biweekly in-person design workshops with WebEx meetings on alternate weeks.

Next Generation Clipper Technical Update

June 17, 2019

Mobile App Test Plans

- 1st Submission: 6/11/19
  - *Review Meetings: tbd*
  - *Review Period: 6/11 – 7/9*
  - *Response Review: tbd*

- 2nd Submission: 7/24/19
  - *Review Meetings: tbd*
  - *Review Period: 7/24 – 8/6*

- Approval: 8/6/19

Frequent Actionlist Test Plan

- 1st Submission: 5/28/19
  - *Review Meetings: tbd*
  - *Review Period: 5/28 – 6/24*
  - *Response Review: tbd*

- 2nd Submission: 6/28/19
  - *Review Meetings: tbd*
  - *Review Period: 6/28 – 7/12*

- Approval: 7/12/19

Accelerated Deployment
1st Review Cycle

- 1st Submission: 8/8/19
  - *Review Meetings: 8/15 – 8/21*
  - *Review Period: 8/8 – 9/5*
  - *Response Review: TBD*

- 2nd Submission: 9/20/19
  - *Review Meetings: TBD*
  - *Review Period: 9/20 – 10/3*

- Projected Approval: 10/3/2019

Contents

Schedule

CUBIC | Transportation Systems

- 60 Day Look-Ahead
  - *June/July/August   Mobile App User Interface / User Experience (UI/UX) Design*
  - *May/June   Test Plan Reviews (System Integration Testing/Pilot)*
  - *May/June   Agency Surveys as needed*

- MTC & Agency Resourcing Needs
  - *Mobile App UI/UX design participants*
  - *Test Plan reviewers*
  - *Vehicle & platform survey support*