Mountain Line

RFP #20-02 Intelligent Transportation Systems
Addendum #1
04/14/20

This addendum provides answers to clarifications, questions, and requests for approved equals that were submitted by April 8 2020.

A recording of the pre-bid meeting that was held on March 27, 2020 can be viewed at
https://zoom.us/rec/share/veJbE7raqEFJQavN1nz1aKs_I5vvaaa8gXId-_cNxU85mbYH5doBEqxZwqcyo3ma.

Number	Source	Question	Answer
1	Pre-bid meeting	More detailed model numbers for components	A components list is provided at the end of this addendum.
2	Pre-bid meeting	Interal RFPI signs specifications	A components list is provided at the end of this addendum.
3	Pre-bid meeting	Do physical panic buttons exist?	Yes, a panic button is located in the driver console that is connected to the headsign and CAD/AVL system that triggers an alert at dispatch headquarters.
4	Pre-bid meeting	For a battery health diagnostic, what is the communication standard?	The six battery electric buses in MUTD's fleet are Proterra Catalyst E2s with a 440 kWh battery.
5	Round 1 Clarifications / Questions	Has Mountain Line established a preliminary budget for the project?	No. Proposals will be evaluated on best value as described in Section 4.2.
6	Round 1 Clarifications / Questions	Please provide the make/model of all hardware below, including quantities of each where the fleet is not uniform. This is important to for all proposers to evaluate integration ability. • Icomera Moovbox routers • UTA APCs with Hella and CalAMP sensors • Luminator and TwinVision headsigns • Digital Recorders and Sunrise Systems on-board passenger information signs • REI Bus Watch and Provision security camera systems	A components list is provided at the end of this addendum.

7	Round 1 Clarifications / Questions	Please extend the questions period by 30 days. This time is needed to reach out to your existing vendors and establish a comprehensive bid. Entering conversations with Missoula Urban Transportation District existing vendors will take more than the time that has been allotted. There are numerous integration pieces that need to be fully vetted prior to submittal.	See Addendum #2 issued on 4/14/20.
8	Round 1 Clarifications / Questions	In order to provide a comprehensive response, we respectfully ask for a 60-day extension for the response deadline. In order to give Missoula UrbanTransportation District our comprehensive proposal and allow all vendors to consider the entire project one month isn't adequate time. With the current national crisis, we are all dealing with; this request is essential to put in a responsible bid that that has the best interest of all parties. Entering conversations with Missoula Urban Transportation District existing vendors will take more than the time that has been allotted.	See Addendum #2 issued on 4/14/20.
9	Round 1 Clarifications / Questions	Can Mountainline please provide a list of the hardware for each bus?	A components list is provided at the end of this addendum.
10	Round 1 Clarifications / Questions	Can Mountainline please provide the specs/models for the current hardware onboard each as well as the number of years each piece of hardware has been onboard?	A components list is provided at the end of this addendum.
11	Round 1 Clarifications / Questions	Is there a particular budget for this project? Either capital vs. recurring?	No. Proposals will be evaluated on best value.
12	Round 1 Clarifications / Questions	Is Mountainline wanting vendors to provide costs for annual data costs, or will Mountainline procure those services internally to save on costs?	Outside the scope of this contract, Mountain Line will pay for an unlimited 4g Verizon cellular data plan for each bus. If additional data costs are required they will need to be included in the price proposal.
13	Round 1 Clarifications / Questions	Is Mountainline interested in any type of on-demand/microtransit pilot or solution as well?	Not at this time.

14	Round 1 Clarifications / Questions	Does Mountainline currently own all of the hardware onboard?	Yes.
15	Round 1 Clarifications / Questions	Can Mountainline please provide specs/model information for the wayside signage?	A components list is provided at the end of this addendum.
16	Round 1 Clarifications / Questions	What information does Mountianline need to get back through the Digital Recorders, the CalAmp sensors?	See Section 2.3
17	Round 1 Clarifications / Questions	Is Mountainline expecting vendor to use their existing CAD/AVL system and moovbox routers?	We are looking to upgrade our system to house multiple functions under a single vendor, which may include a full or partial replaement of components. See Section 3.2.
18	Round 1 Clarifications / Questions	What are your goals for the cameras. Is this an integration or replacements of cameras?	We are seeking integration, with an option for replacement. Please see Addendum # 3 issued on 4/14/20.
19	Round 1 Clarifications / Questions	What information is Mountainline wanting vendors to get back to Mountainline through the Digital Recorders, the CalAmp sensors?	See Section 2.3
20	Round 1 Clarifications / Questions	What is the goal for using the existing CAD/AVL system?	We are looking to upgrade our system to house multiple functions under a single vendor, which may include a full or partial replaement of components. See Section 3.2.
21	Round 1 Clarifications / Questions	Is Mountainline wanting vendors to provide costs for annual data costs, or will Mountainline procure those services internally to save on costs?	Outside the scope of this contract, Mountain Line will pay for an unlimited 4g Verizon cellular data plan for each bus.
22	Round 1 Clarifications / Questions	2.3.7 - Service alerts and equipment failures, What service alerts and equipment failures are you looking to receive?	None specifically.
23	Round 1 Clarifications / Questions	2.3.9 - Schedule deviations and off-route notifications, What is meant by schedule deviation? What type of notification are you looking for?	Notification on the dispatch console of route deviations.
24	Round 1 Clarifications / Questions	2.3.10 - Emergency alarms, What are the Emergency alarms & what are the sensors?	A panic button is located in the driver console that should be connected to the headsign and CAD/AVL system that triggers an alert at dispatch headquarters.
25	Round 1 Clarifications / Questions	2.3.12 - Schedule adherence by route, How is this different from an On-Time Performance?	They are the same.

26	Round 1 Clarifications / Questions	2.3.14 - On-Time Performance, Would this be on-time performance reports?	Yes.
27	Round 1 Clarifications / Questions	2.3.42 - Seamless integration with CAD/AVL system and interior bus LED signs, Do you have internal signs now? If yes, what are the make and model of these signs? Do you have a J1708/1939 connection?	A components list is provided at the end of this addendum.
28	Round 1 Clarifications / Questions	2.3.46 - Integration with current CalAmp (infrared) and Hella (optical) APC sensors, What are the specific model numbers on both the Hella and CalAmp? Please provide the infrared capabilities of the CalAmp and how they are being used.	A components list is provided at the end of this addendum.
29	Round 1 Clarifications / Questions	2.3.55 - Wheelchair lift and bicycle rack use reports, Do vehicles have bike rack and lift sensors we can use?	Yes there are sensors on each bike rack and lift that indicates when they are deployed up or down. Please see Addendum #3 for an option for upgrading bike rack sensors.
30	Round 1 Clarifications / Questions	Does MUTD have a scheduling (for scheduling, blocking, run-cutting) software we need to integrate with to retrieve schedule data, or will the data be provided manually (excel, PDF, etc.)?	No. Data for initial setup can be provided in any format, GTFS preferred. Future changes and edits will preferably be made by MUTD satff.
31	Round 1 Clarifications / Questions	Does MUTD need real-time detour management and real-time service change feature (add/cancellation of trip or block) ?	MUTD staff needs the capability to make these changes.
32	Round 1 Clarifications / Questions	How many buses are equipped with HELLA sensors and do they have ethernet connection? How many buses are equipped with CalAmp sensors and do they have ethernet connection? Do you have a data sheet available?	A components list is provided at the end of this addendum.
33	Round 1 Clarifications / Questions	What are your existing audio accessories in the bus? (gooseneck mic, handset, hand-free driver speaker…) – If nothing, do you have any preferences for these equipment's? Our recommendation is hand-free speaker + handset.	Gooseneck mics are on each bus.
34	Round 1 Clarifications / Questions	To our knowledge, there are 2 different type of routers in the fleet – can you confirm?	A components list is provided at the end of this addendum.

		To refer to the 30 days pilot on 2 buses. This project will require a few software development and adaptation to the MUTD environment and existing devices. Before setting up a mini-fleet pilot, we usually have a period of design, development and review with our clients, to make sure we will implement the required solution. Can we offer to implement the 2-bus pilot after the review and configuration stage, while maintaining the overall deployment timeline?	The intention is to evaluate the pilot prior to accepting the contract.
35	Round 1 Clarifications / Questions		
36	Round 1 Clarifications / Questions	Do you need automatic noise measurement to adapt voice annunciation to the ambient noise in the bus?	It is not a requirement.
37	Round 1 Clarifications / Questions	You mention the need to be able to modify schedule, route, vehicle data without the vendor help, but you also ask to price "data management" in the annual fee – Can you precise what are you including in data management?	Price proposals should include all recurring annual costs, which may or may not include data management fees.
38	Round 1 Clarifications / Questions	Section 2.2 identifies APC counter from Hella and CalAMP. a. Can you please identify the quantity of buses of each bus type with Hella and CalAMP? b. Can you provide contact information for the CalAMP sensors?	A components list is provided at the end of this addendum.

		Do you have a list of vendors that attended the pre-bid meeting?	We do not have a list of all attendees at the pre-bid meeting, but the following firms have expressed interest in the project: Passio Technologies Connexionz Engie Clever Devices GVM Syncromatics DoubleMap ETA Transit UTA Deltek Cubic Blue Star Strategies MessagePoint Media Mode Shift Best Mile
39	Round 1 Clarifications / Questions		
40	Round 1 Clarifications / Questions	With 30+ vehicles, we assume you want a Full report for NTD. Is that correct?	Yes
41	Round 1 Clarifications / Questions	Does the agency require the ability to suspend traveler accounts from accessing apps?	It's not required.
42	Round 1 Clarifications / Questions	Do you have multi-language requirements for the traveler apps?	No.
43	Round 1 Clarifications / Questions	Do you require multiple languages for DVAS announcements?	No.
44	Round 1 Clarifications / Questions	Should rider alerts and notifications trigger a phone notification as well? Or just a notification inside of the traveler app?	A notification inside the traveler app.
45	Round 1 Clarifications / Questions	Is the responder responsible for migrating route and vehicle data from your existing ITS into the proposed solution?	Yes.
46	Round 1 Clarifications / Questions	How many operations managers will require access to admin portal?	10-12.

47	Round 1 Clarifications / Questions	When travelers click on a stop inside the app or web, do you want all departures from that stop for the day shown? Or only departures for the next 15 or 30 minutes?	We don't have a specific requirement for this.
48	Round 1 Clarifications / Questions	1-click NTD S-10 reporting - Can you provide an example output from your existing system?	We compile this data manually.
49	Round 1 Clarifications / Questions	Vehicle health monitoring status and electric bus battery level indicator (preferable) - Can you describe the individual data items that defines the vehicle health as well as the way of integration (API or protocol) how this telemetry data can be gathered from the vehicle by the ITS?	These are preferred but not required features. We'd like to see what you are able to provide that would be useful to our agency. For communication protocols regarding battery health on our six electric buses, see Question 4.
50	Round 1 Clarifications / Questions	Speeding, hard acceleration, hard braking - Acceleration and braking would require access to the vehicle's telemetry data. Can you specify the way of integration (API or protocol) how this telemetry data can be gathered from the vehicle?	Any method proposed by the vendor to collect, record, and report this information is acceptable, and will be evaluated both on how well it meets the scope of work and on overall price.
51	Round 1 Clarifications / Questions	The ability for dispatchers to assign buses to routes - Should dispatchers also be able to assign buses to individual trips (trip in the GTFS sense) or is this supposed to be done by the drivers selecting a trip on the MDT?	Both.
52	Round 1 Clarifications / Questions	Pre-trip inspection module (preferred) - Can you provide the pre-trip checklist to be implemented?	An example pre-trip checklist is provided at the end of this document.
53	Round 1 Clarifications / Questions	Ability to export reports in Excel, PDF, and GIS data format - Can you specify the GIS data format that is required?	At a minimum, shapefile format.

Pre-Trip Inspection

Electric Buses

- ○ Ensure that bus is **NOT PLUGGED IN** (DO NOT UNPLUG. See maintenance or supervisor for assistance).
- ○ Ensure all **BATTERY COMPARTMENTS** are closed and locked.

Diesel Buses

- ○ Ensure that **FUEL CAP** is secure.
- ○ Ensure **RETARDER** is on (except in slippery conditions).
- ○ Check **DASH INDICATOR LAMPS** using dash switch.

All Buses

- ○ Turn **BATTERY MASTER SWITCH** on.
- ○ Ensure bus is in **NEUTRAL** and **PARKING BRAKE** is set.
- ○ Turn **IGNITION** two clicks, wait for **SYSTEM CHECKS** to cycle, turn bus on.
- ○ Check that **SEATBELT** is operational.
- ○ Adjust **DRIVER SEAT** to your preferences.
- ○ Check and adjust **INTERIOR AND EXTERIOR MIRRORS**.
- ○ Operate front and rear **DOOR** controls.
- ○ Operate **KNEELING AND RAMP(S)**.
- ○ Ensure **HORN, WIPERS/WASHERS, CLIMATE CONTROL, FANS, AND MICROPHONE** are operational.
- ○ Ensure green light is lit on **SURVEILLANCE MARKER BUTTON**.
- ○ Turn **RADIO** on and request radio check.
- ○ Ensure **BELT CUTTER, FIRE EXTINGUISHER, FIRST AID KIT, BLOODBORNE PATHOGENS KIT, ACCIDENT KIT, AND EMERGENCY TRIANGLES** are present and operational.
- ○ Ensure **EMERGENCY EXITS** are secure and operational.
- ○ Check **SECUREMENT AREAS** for obstructions, hazards, and proper operation
- ○ Check **STAIRWELLS** and **AISLES** for obstructions.
- ○ Check that all **HANDRAILS AND SEATS** are secure.
- ○ Log into **HEADSIGN** system and ensure it is operational.
- ○ Check that **BIKE RACK** is operational.
- ○ Check for **EXTERIOR DAMAGE** (Report new damage to supervisor).
- ○ Check for **OBSTACLES** before moving.
- ○ Check all visible **WHEELS, TIRES, AND LUG NUTS** for safe operation.
- ○ Use a **TIRE THUMPER** to check tire inflation.
- ○ Secure all interior and exterior **SERVICE PANELS AND DOORS**.
- ○ Check for **AIR AND FLUID LEAKS** (Report to maintenance immediately).
- ○ Check all interior and exterior **LIGHTS**.
- ○ Check for adequate supply of **SCHEDULES**.
- ○ Pick up **NEWSPAPERS** off of floor.
- ○ Check for current **RIDER ALERTS**.

Operator: _____ Bus #: _____ Date: _____

Vehicle #	Mode	Bus Year	Router	AVL/AVA	Onboard Control Unit	Headsign	Passenger Info Sign	APC CPU	APC Senors	Camera DVR
7	Fixed Route	1996	Icomera M220	None	DR & Luminator	Not in use	Not in use	CalAmp LMU4250	SICK infrared	None
211	Fixed Route	2000	Icomera M340	DR600	DR & Luminator	Luminator Horizon	Sunrise Systems	CalAmp LMU4250	SICK infrared	Provision
213	Fixed Route	2000	Icomera M340	DR600	DR & Luminator	Luminator Horizon	Sunrise Systems	CalAmp LMU4250	SICK infrared	Provision
306	Fixed Route	2006	Icomera M340	DR600	DR & Luminator	Luminator Horizon	Sunrise Systems	CalAmp LMU4250	SICK infrared	Provision
307	Fixed Route	2006	Icomera M340	DR600	DR & Luminator	Luminator Horizon	Sunrise Systems	CalAmp LMU4250	SICK infrared	Provision
308	Fixed Route	2006	Icomera M340	DR600	DR & Luminator	Luminator Horizon	Sunrise Systems	CalAmp LMU4250	SICK infrared	Provision
309	Fixed Route	2006	Icomera M340	DR600	DR & Luminator	Luminator Horizon	Sunrise Systems	CalAmp LMU4250	SICK infrared	Provision
310	Fixed Route	2006	Icomera M340	DR600	DR & Luminator	Luminator Horizon	Sunrise Systems	CalAmp LMU4250	SICK infrared	Provision
421	Fixed Route	2009	Icomera M340	DR 600	Digital Recorders	TwinVision Smart Series	Sunrise Systems	CalAmp LMU4250	SICK infrared	REI R8001
422	Fixed Route	2009	Icomera M340	DR 600	Digital Recorders	TwinVision Smart Series	Sunrise Systems	CalAmp LMU4250	SICK infrared	REI R8001
423	Fixed Route	2009	Icomera M340	DR 600	Digital Recorders	TwinVision Smart Series	Sunrise Systems	CalAmp LMU4250	SICK infrared	REI R8001
424	Fixed Route	2009	Icomera M340	DR 600	Digital Recorders	TwinVision Smart Series	Sunrise Systems	CalAmp LMU4250	SICK infrared	REI R8001
425	Fixed Route	2009	Icomera M340	DR 600	Digital Recorders	TwinVision Smart Series	Sunrise Systems	CalAmp LMU4250	SICK infrared	REI R8001
426	Fixed Route	2009	Icomera M340	DR 600	Digital Recorders	TwinVision Smart Series	Sunrise Systems	CalAmp LMU4250	SICK infrared	REI R8001
427	Fixed Route	2009	Icomera M340	DR 600	Digital Recorders	TwinVision Smart Series	Sunrise Systems	CalAmp LMU4250	SICK infrared	REI R8001
428	Fixed Route	2009	Icomera M340	DR 600	Digital Recorders	TwinVision Smart Series	Sunrise Systems	CalAmp LMU4250	SICK infrared	REI R8001
429	Fixed Route	2009	Icomera M340	DR 600	Digital Recorders	TwinVision Smart Series	Sunrise Systems	CalAmp LMU4250	SICK infrared	REI R8001
430	Fixed Route	2009	Icomera M340	DR 600	Digital Recorders	TwinVision Smart Series	Sunrise Systems	CalAmp LMU4250	SICK infrared	REI R8001
501	Fixed Route	2010	Icomera M340	DR 600	Digital Recorders	TwinVision Smart Series	Sunrise Systems	CalAmp LMU4250	SICK infrared	REI R8001
502	Fixed Route	2010	Icomera M340	DR 600	Digital Recorders	TwinVision Smart Series	Sunrise Systems	CalAmp LMU4250	SICK infrared	REI R8001
503	Fixed Route	2010	Icomera M340	DR 600	Digital Recorders	TwinVision Smart Series	Sunrise Systems	CalAmp LMU4250	SICK infrared	REI R8001
504	Fixed Route	2010	Icomera M340	DR 600	Digital Recorders	TwinVision Smart Series	Sunrise Systems	CalAmp LMU4250	SICK infrared	REI R8001
505	Fixed Route	2014	Icomera M340	DR 700	Digital Recorders	TwinVision Smart Series	Sunrise Systems	CalAmp LMU4250	SICK infrared	REI HD 800
506	Fixed Route	2014	Icomera M340	DR 700	Digital Recorders	TwinVision Smart Series	Sunrise Systems	CalAmp LMU4250	SICK infrared	REI HD 800
507	Fixed Route	2014	Icomera M340	DR 700	Digital Recorders	TwinVision Smart Series	Sunrise Systems	CalAmp LMU4250	SICK infrared	REI HD 800
19601	Fixed Route	2019	Icomera ICR-2	DR 700	DR & Luminator	Luminator Horizon SMT	Sunrise Systems NXTPS7X96A485C	CalAmp LMU5530	Hella Model 30	REI HD 5 1200
19602	Fixed Route	2019	Icomera ICR-2	DR 700	DR & Luminator	Luminator Horizon SMT	Sunrise Systems NXTPS7X96A485C	CalAmp LMU5530	Hella Model 30	REI HD 5 1200
19603	Fixed Route	2019	Icomera ICR-2	DR 700	DR & Luminator	Luminator Horizon SMT	Sunrise Systems NXTPS7X96A485C	CalAmp LMU5530	Hella Model 30	REI HD 5 1200
19604	Fixed Route	2019	Icomera ICR-2	DR 700	DR & Luminator	Luminator Horizon SMT	Sunrise Systems NXTPS7X96A485C	CalAmp LMU5530	Hella Model 30	REI HD 5 1200
19605	Fixed Route	2019	Icomera ICR-2	DR 700	DR & Luminator	Luminator Horizon SMT	Sunrise Systems NXTPS7X96A485C	CalAmp LMU5530	Hella Model 30	REI HD 5 1200
19606	Fixed Route	2019	Icomera ICR-2	DR 700	DR & Luminator	Luminator Horizon SMT	Sunrise Systems NXTPS7X96A485C	CalAmp LMU5530	Hella Model 30	REI HD 5 1200

Notes

*All headsigns use J1708 supported protocols

*APC system uses UTA's 6-port SmartSensor which is designed to universalize the data format for any AVL supplier